



FIGURES

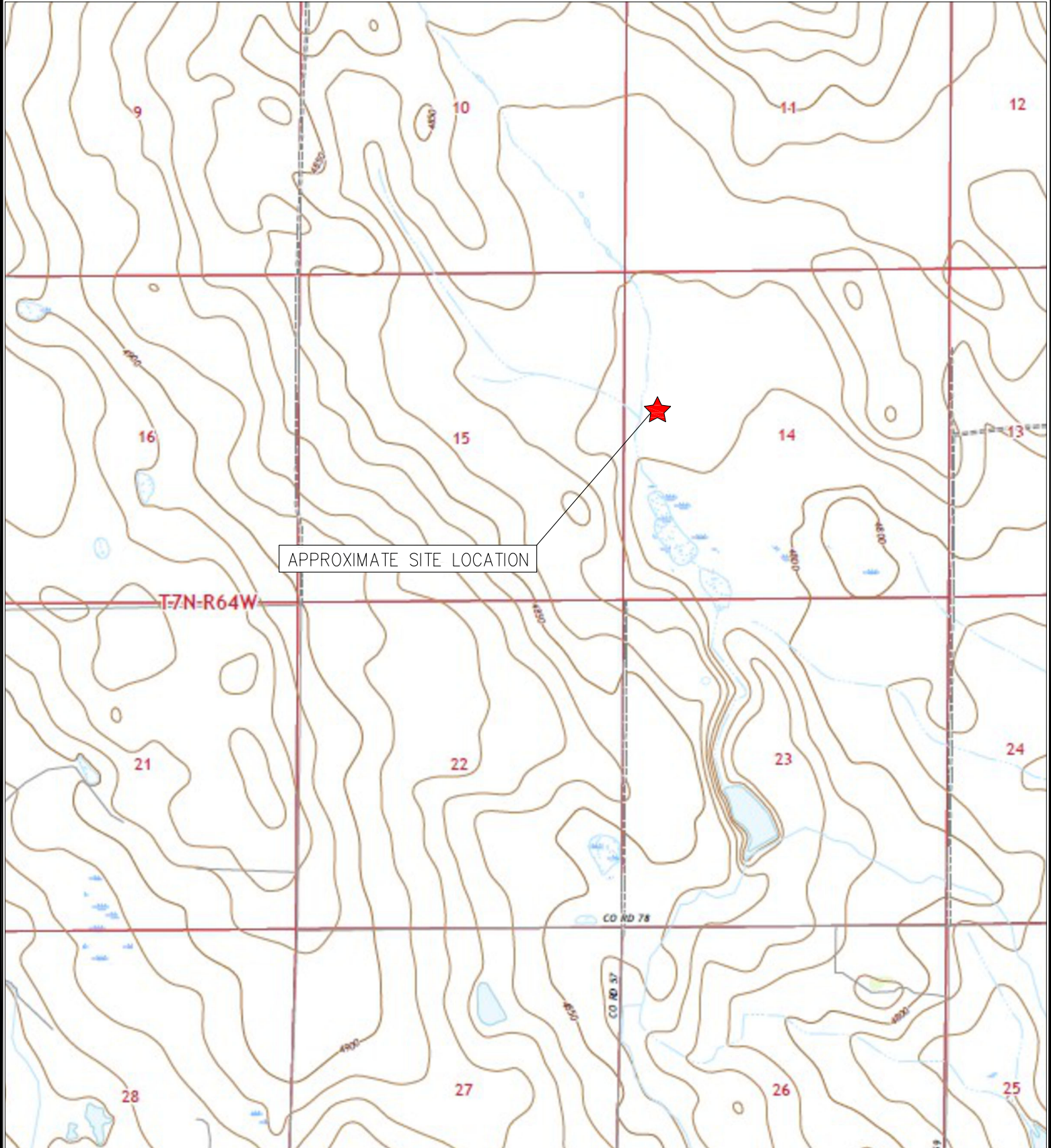
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Boring Analytical Map

Figure 4: Soil Boring Polycyclic Aromatic Hydrocarbons Map

Figure 5: Soil Boring Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 SHABLE #14-23
 HISTORICAL RELEASE
 40.575050 / -104.523690
 SW¼ NW¼ SEC.14 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-28034
 REMEDIATION # 30764



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 ENVIRONMENTAL
 CONSULTING, LLC

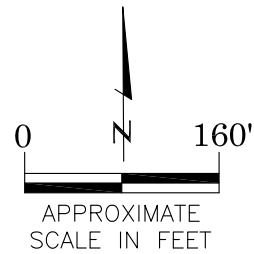
8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449





LEGEND

 FORMER SHABLE #14-23 WELLHEAD (PLUGGED AND ABANDONED)



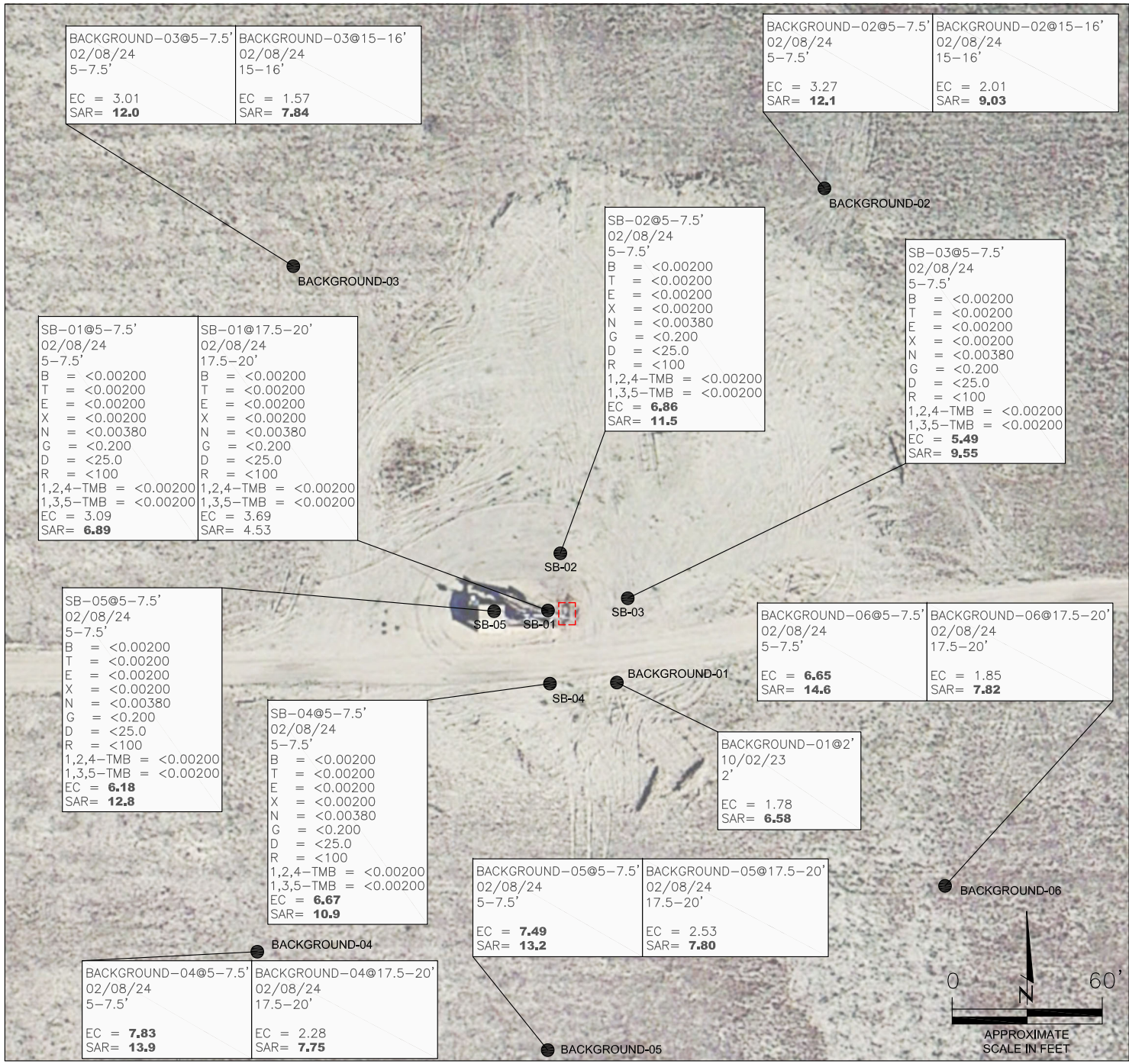
AERIAL SITE LOCATION MAP
SHABLE #14-23
HISTORICAL RELEASE
40.575050 / -104.523690
SW $\frac{1}{4}$ NW $\frac{1}{4}$ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28034
REMEDIAION # 30764

FIGURE NO.
2

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BACKGROUND-03@5-7.5'
02/08/24
5-7.5'
EC = 3.01
SAR= **12.0**

BACKGROUND-03@15-16'
02/08/24
15-16'
EC = 1.57
SAR= **7.84**

BACKGROUND-02@5-7.5'
02/08/24
5-7.5'
EC = 3.27
SAR= **12.1**

BACKGROUND-02@15-16'
02/08/24
15-16'
EC = 2.01
SAR= **9.03**

SB-02@5-7.5'
02/08/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
EC = **6.86**
SAR= **11.5**

SB-03@5-7.5'
02/08/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
EC = **5.49**
SAR= **9.55**

SB-01@5-7.5'
02/08/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
EC = 3.09
SAR= **6.89**

SB-01@17.5-20'
02/08/24
17.5-20'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
EC = 3.69
SAR= 4.53

SB-05@5-7.5'
02/08/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
EC = **6.18**
SAR= **12.8**

SB-04@5-7.5'
02/08/24
5-7.5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
N = <0.00380
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
EC = **6.67**
SAR= **10.9**

BACKGROUND-06@5-7.5'
02/08/24
5-7.5'
EC = **6.65**
SAR= **14.6**

BACKGROUND-06@17.5-20'
02/08/24
17.5-20'
EC = 1.85
SAR= **7.82**

BACKGROUND-01@2'
10/02/23
2'
EC = 1.78
SAR= **6.58**

BACKGROUND-05@5-7.5'
02/08/24
5-7.5'
EC = **7.49**
SAR= **13.2**

BACKGROUND-05@17.5-20'
02/08/24
17.5-20'
EC = 2.53
SAR= **7.80**

BACKGROUND-04@5-7.5'
02/08/24
5-7.5'
EC = **7.83**
SAR= **13.9**

BACKGROUND-04@17.5-20'
02/08/24
17.5-20'
EC = 2.28
SAR= **7.75**

LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
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)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO

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

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL BORING ANALYTICAL MAP
SHABLE #14-23
HISTORICAL RELEASE
40.575050 / -104.523690
SW¼ NW¼ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28034
REMEDIATION # 30764

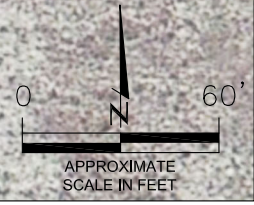


FIGURE NO.
3
DRAWN BY:
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EAGLE ENVIRONMENTAL CONSULTING, LLC
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



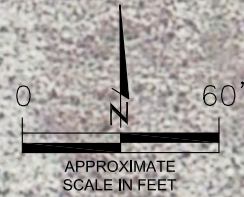
SB-01@5-7.5' 02/08/24 5-7.5'	SB-01@17.5-20' 02/08/24 17.5-20'
1-Methylnaphthalene = <0.002 2-Methylnaphthalene = <0.002 Acenaphthene = <0.020 Anthracene = <0.020 Benzo(a)anthracene = <0.005 Benzo(a)pyrene = <0.020 Benzo(b)fluoranthene = <0.020 Benzo(k)fluoranthene = <0.020 Chrysene = <0.020 Dibenzo(a,h)anthracene = <0.020 Fluoranthene = <0.020 Fluorene = <0.020 Indeno(1,2,3-CD)pyrene = <0.020 Pyrene = <0.020	1-Methylnaphthalene = <0.002 2-Methylnaphthalene = <0.002 Acenaphthene = <0.020 Anthracene = <0.020 Benzo(a)anthracene = <0.005 Benzo(a)pyrene = <0.020 Benzo(b)fluoranthene = <0.020 Benzo(k)fluoranthene = <0.020 Chrysene = <0.020 Dibenzo(a,h)anthracene = <0.020 Fluoranthene = <0.020 Fluorene = <0.020 Indeno(1,2,3-CD)pyrene = <0.020 Pyrene = <0.020

SB-02@5-7.5' 02/08/24 5-7.5'
1-Methylnaphthalene = <0.002 2-Methylnaphthalene = <0.002 Acenaphthene = <0.020 Anthracene = <0.020 Benzo(a)anthracene = <0.005 Benzo(a)pyrene = <0.020 Benzo(b)fluoranthene = <0.020 Benzo(k)fluoranthene = <0.020 Chrysene = <0.020 Dibenzo(a,h)anthracene = <0.020 Fluoranthene = <0.020 Fluorene = <0.020 Indeno(1,2,3-CD)pyrene = <0.020 Pyrene = <0.020

SB-05@5-7.5' 02/08/24 5-7.5'
1-Methylnaphthalene = <0.002 2-Methylnaphthalene = <0.002 Acenaphthene = <0.020 Anthracene = <0.020 Benzo(a)anthracene = <0.005 Benzo(a)pyrene = <0.020 Benzo(b)fluoranthene = <0.020 Benzo(k)fluoranthene = <0.020 Chrysene = <0.020 Dibenzo(a,h)anthracene = <0.020 Fluoranthene = <0.020 Fluorene = <0.020 Indeno(1,2,3-CD)pyrene = <0.020 Pyrene = <0.020

SB-03@5-7.5' 02/08/24 5-7.5'
1-Methylnaphthalene = <0.002 2-Methylnaphthalene = <0.002 Acenaphthene = <0.020 Anthracene = <0.020 Benzo(a)anthracene = <0.005 Benzo(a)pyrene = <0.020 Benzo(b)fluoranthene = <0.020 Benzo(k)fluoranthene = <0.020 Chrysene = <0.020 Dibenzo(a,h)anthracene = <0.020 Fluoranthene = <0.020 Fluorene = <0.020 Indeno(1,2,3-CD)pyrene = <0.020 Pyrene = <0.020

SB-04@5-7.5' 02/08/24 5-7.5'
1-Methylnaphthalene = <0.002 2-Methylnaphthalene = <0.002 Acenaphthene = <0.020 Anthracene = <0.020 Benzo(a)anthracene = <0.005 Benzo(a)pyrene = <0.020 Benzo(b)fluoranthene = <0.020 Benzo(k)fluoranthene = <0.020 Chrysene = <0.020 Dibenzo(a,h)anthracene = <0.020 Fluoranthene = <0.020 Fluorene = <0.020 Indeno(1,2,3-CD)pyrene = <0.020 Pyrene = <0.020



LEGEND

- - - - WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

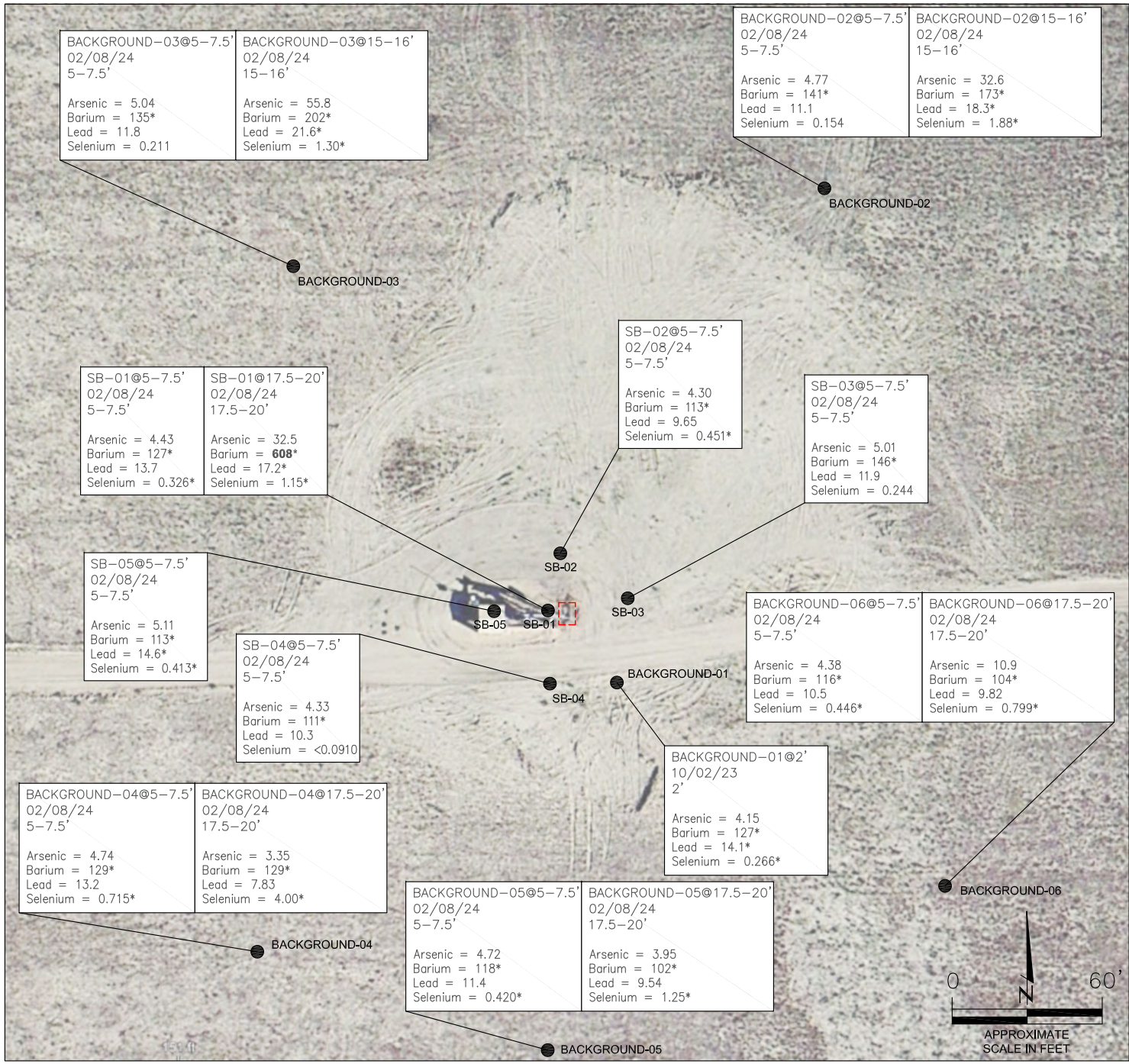
SOIL BORING POLYCYCLIC AROMATIC HYDROCARBONS MAP

SHABLE #14-23
HISTORICAL RELEASE
40.575050 / -104.523690
SW¼ NW¼ SEC.14 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-28034
REMEDIATION # 30764

FIGURE NO.
4

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



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

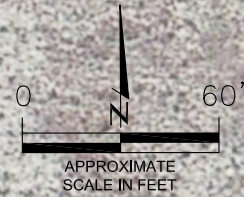
NOTES:
 VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

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



SOIL BORING METALS IN SOIL MAP

SHABLE #14-23
 HISTORICAL RELEASE
 40.575050 / -104.523690
 SW¼ NW¼ SEC.14 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-28034
 REMEDIATION # 30764

FIGURE NO.
5
 DRAWN BY:
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EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC
 8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449



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
SHABLE #14-23, WELD COUNTY, COLORADO
REM # 30764

Sample ID	Sample Date	Depth (ft)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH-SS-01 @ 7'	10/2/2023	7	40.575066	-104.523700	54.8
WH-SS-02 @ 7'	10/2/2023	7	40.575058	-104.523691	14.7
WH-SS-03 @ 7'	10/2/2023	7	40.575049	-104.523699	7.9
WH-SS-04 @ 7'	10/2/2023	7	40.575058	-104.523708	128.5
WH-FS-01 @ 8'	10/2/2023	8	40.575057	-104.523701	98.4
Background-01 @ 2'	10/2/2023	2	40.574976	-104.523628	1.3
WH-N @ 0.5'	10/2/2023	0.5	40.575074	-104.523699	0.4
WH-E @ 0.5'	10/2/2023	0.5	40.575058	-104.523677	0.3
WH-S @ 0.5'	10/2/2023	0.5	40.575043	-104.523698	1.1
WH-W @ 0.5'	10/2/2023	0.5	40.575055	-104.523722	0.7
SB-01 @ 5-7.5'	2/8/2024	5-7.5	40.575058	-104.523724	0.2
SB-01 @ 17.5-20'	2/8/2024	17.5-20	40.575058	-104.523724	0.1
SB-02 @ 5-7.5'	2/8/2024	5-7.5	40.575121	-104.523705	2.8
SB-03 @ 5-7.5'	2/8/2024	5-7.5	40.575070	-104.523606	0.2
SB-04 @ 5-7.5'	2/8/2024	5-7.5	40.574975	-104.523718	0.2
SB-05 @ 5-7.5'	2/8/2024	5-7.5	40.575057	-104.523802	0.3
Background-02 @ 5-7.5'	2/8/2024	5-7.5	40.575521	-104.523324	1.3
Background-02 @ 15-16'	2/8/2024	15-16	40.575521	-104.523324	2.1
Background-03 @ 5-7.5'	2/8/2024	5-7.5	40.575438	-104.524100	2.1
Background-03 @ 15-16'	2/8/2024	15-16	40.575438	-104.524100	3.2
Background-04 @ 5-7.5'	2/8/2024	5-7.5	40.574679	-104.524151	1.7
Background-04 @ 17.5-20'	2/8/2024	17.5-20	40.574679	-104.524151	3.1
Background-05 @ 5-7.5'	2/8/2024	5-7.5	40.574575	-104.523727	0.3
Background-05 @ 17.5-20'	2/8/2024	17.5-20	40.574575	-104.523727	1.8
Background-06 @ 5-7.5'	2/8/2024	5-7.5	40.574752	-104.523149	1.3
Background-06 @ 17.5-20'	2/8/2024	17.5-20	40.574752	-104.523149	2.6

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
SHABLE #14-23, WELD COUNTY, COLORADO
REM # 30764

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'	10/2/2023	7	<0.00200	<0.00200	0.0171	0.00734	0.0489	0.0225	0.0154	<500	1.93	<25.0	<100
WH-SS-02 @ 7'	10/2/2023	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'	10/2/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
WH-SS-04 @ 7'	10/2/2023	7	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.00326	<0.00380	<500	0.364	<25.0	<100
WH-FS-01 @ 8'	10/2/2023	8	<0.00200	<0.00200	0.00230	<0.00200	<0.00200	0.00922	<0.00380	<500	0.695	88.1	197
SB-01 @ 5-7.5'	2/8/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-01 @ 17.5-20'	2/8/2024	17.5-20	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-02 @ 5-7.5'	2/8/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-03 @ 5-7.5'	2/8/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-04 @ 5-7.5'	2/8/2024	5-7.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00380	<500	<0.200	<25.0	<100
SB-05 @ 5-7.5'	2/8/2024	5-7.5	<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
SHABLE #14-23, WELD COUNTY, COLORADO
REM # 30764

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"	10/2/2023	7	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.021	<0.020	<0.020	0.067	0.085
WH-SS-02 @ 7"	10/2/2023	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	<0.002
WH-SS-03 @ 7"	10/2/2023	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	<0.002
WH-SS-04 @ 7"	10/2/2023	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	0.019	0.013
WH-FS-01 @ 8"	10/2/2023	8	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	0.024	<0.020	<0.020	<0.020	<0.020	<0.020	0.088	0.101
SB-01 @ 5-7.5'	2/8/2024	5-7.5	<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
SB-01 @ 17.5-20'	2/8/2024	17.5-20	<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
SB-02 @ 5-7.5'	2/8/2024	5-7.5	<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
SB-03 @ 5-7.5'	2/8/2024	5-7.5	<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
SB-04 @ 5-7.5'	2/8/2024	5-7.5	<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
SB-05 @ 5-7.5'	2/8/2024	5-7.5	<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
SHABLE #14-23, WELD COUNTY, COLORADO
REM # 30764

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'	10/2/2023	7	8.05	3.72	3.01	0.634
WH-SS-02 @ 7'	10/2/2023	7	8.08	4.06	6.67	0.817
WH-SS-03 @ 7'	10/2/2023	7	7.89	4.02	2.31	0.800
WH-SS-04 @ 7'	10/2/2023	7	8.01	3.87	3.20	0.771
WH-FS-01 @ 8'	10/2/2023	8	7.94	4.49	4.78	0.603
SB-01 @ 5-7.5'	2/8/2024	5-7.5	NA	3.09	6.89	NA
SB-01 @ 17.5-20'	2/8/2024	17.5-20	NA	3.69	4.53	NA
SB-02 @ 5-7.5'	2/8/2024	5-7.5	NA	6.86	11.5	NA
SB-03 @ 5-7.5'	2/8/2024	5-7.5	NA	5.49	9.55	NA
SB-04 @ 5-7.5'	2/8/2024	5-7.5	NA	6.67	10.9	NA
SB-05 @ 5-7.5'	2/8/2024	5-7.5	NA	6.18	12.8	NA
Background-01 @ 2'	10/2/2023	2	NA	1.78	6.58	NA
Background-02 @ 5-7.5'	2/8/2024	5-7.5	NA	3.27	12.1	NA
Background-02 @ 15-16'	2/8/2024	15-16	NA	2.01	9.03	NA
Background-03 @ 5-7.5'	2/8/2024	5-7.5	NA	3.01	12.0	NA
Background-03 @ 15-16'	2/8/2024	15-16	NA	1.57	7.84	NA
Background-04 @ 5-7.5'	2/8/2024	5-7.5	NA	7.83	13.9	NA
Background-04 @ 17.5-20'	2/8/2024	17.5-20	NA	2.28	7.75	NA
Background-05 @ 5-7.5'	2/8/2024	5-7.5	NA	7.49	13.2	NA
Background-05 @ 17.5-20'	2/8/2024	17.5-20	NA	2.53	7.80	NA
Background-06 @ 5-7.5'	2/8/2024	5-7.5	NA	6.65	14.6	NA
Background-06 @ 17.5-20'	2/8/2024	17.5-20	NA	1.85	7.82	NA
Maximum Background Concentration				7.83	14.6	
Average Background Concentration				3.66	10.2	

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
SHABLE #14-23, WELD COUNTY, COLORADO
REM # 30764

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'	10/2/2023	7	2.88	108	0.234	<0.244*	10.8	16	10.1	0.619	0.0692	45
WH-SS-02 @ 7'	10/2/2023	7	3.18	127	0.218	<0.251*	11.4	118	9.92	0.661	0.0788	46.4
WH-SS-03 @ 7'	10/2/2023	7	3.12	127	0.279	<0.244*	14.7	30.4	11.3	0.807	0.0794	53.5
WH-SS-04 @ 7'	10/2/2023	7	2.64	111	0.253	<0.246*	11.4	19.1	10.8	0.704	<0.25	47.7
WH-FS-01 @ 8'	10/2/2023	8	2.86	103	<0.25	<0.244*	10.5	11.5	9.52	0.582	<0.25	41.1
SB-01 @ 5-7.5'	2/8/2024	5-7.5	4.43	127	NA	NA	NA	13.7	NA	0.326	NA	NA
SB-01 @ 17.5-20'	2/8/2024	17.5-20	32.5	608	NA	NA	NA	17.2	NA	1.15	NA	NA
SB-02 @ 5-7.5'	2/8/2024	5-7.5	4.30	113	NA	NA	NA	9.65	NA	0.451	NA	NA
SB-03 @ 5-7.5'	2/8/2024	5-7.5	5.01	146	NA	NA	NA	11.9	NA	0.244	NA	NA
SB-04 @ 5-7.5'	2/8/2024	5-7.5	4.33	111	NA	NA	NA	10.3	NA	<0.0910	NA	NA
SB-05 @ 5-7.5'	2/8/2024	5-7.5	5.11	113	NA	NA	NA	14.6	NA	0.413	NA	NA
Background-01 @ 2'	10/2/2023	2	4.15	127	NA	NA	NA	14.1	NA	0.266	NA	NA
Background-02 @ 5-7.5'	2/8/2024	5-7.5	4.77	141	NA	NA	NA	11.1	NA	0.154	NA	NA
Background-02 @ 15-16'	2/8/2024	15-16	32.6	173	NA	NA	NA	18.3	NA	1.88	NA	NA
Background-03 @ 5-7.5'	2/8/2024	5-7.5	5.04	135	NA	NA	NA	11.8	NA	0.211	NA	NA
Background-03 @ 15-16'	2/8/2024	15-16	55.8	202	NA	NA	NA	21.6	NA	1.30	NA	NA
Background-04 @ 5-7.5'	2/8/2024	5-7.5	4.74	129	NA	NA	NA	13.2	NA	0.715	NA	NA
Background-04 @ 17.5-20'	2/8/2024	17.5-20	3.35	129	NA	NA	NA	7.83	NA	4.00	NA	NA
Background-05 @ 5-7.5'	2/8/2024	5-7.5	4.72	118	NA	NA	NA	11.4	NA	0.420	NA	NA
Background-05 @ 17.5-20'	2/8/2024	17.5-20	3.95	102	NA	NA	NA	9.54	NA	1.25	NA	NA
Background-06 @ 5-7.5'	2/8/2024	5-7.5	4.38	116	NA	NA	NA	10.5	NA	0.446	NA	NA
Background-06 @ 17.5-20'	2/8/2024	17.5-20	10.9	104	NA	NA	NA	9.82	NA	0.799	NA	NA
Maximum Background Concentration			55.8	202				21.6		4.00		
125% Maximum Background Concentration			69.8	253				27.0		5.00		

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

Soil Boring Logs

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-2') clayey SAND - brown, moist, loose to medium dense, fine to coarse-grained, well-graded with ~25% clay, N/O, N/S	SC				0.3	N/A		Well not completed	
	(2-8') sandy CLAY - brown, moist, medium stiff to stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S	DP	1	100	0.2					
5		CL				0.2	N/A			
	(8-12') clayey SAND - brown, moist, loose, fine-grained, poorly-graded with ~15% clay, N/O, N/S, CaCO ₃	DP	2	100	0.2					
10		SC				0.1	N/A			
	(12-13') well-graded SAND - brown, moist, loose, fine to coarse-grained, well-graded with ~15% gravel, trace fines, N/O, N/S	SW DP	3	90	0.3					
15		SC				0.4	N/A			
	(13-15') clayey SAND - brown, moist, loose, fine-grained, poorly-graded with ~15% clay, N/O, N/S	GC			0.1					
	(15-17') gravelly, clayey SAND - brown/tan/red/orange, moist, loose to medium dense, fine to coarse grained, well-graded with ~20% small gravel, ~20% clay, N/O, N/S	DP	4	100		0.1	N/A			
	(17-20') silty CLAY - brown/grey/orange, moist, stiff, low plasticity, poorly-graded with ~15% silt, N/O, N/S Fe	CL								
20	BoB @ 20'									
25										
30										

HA - Hand Auger
 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: 02/08/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-23	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL/ E. GARCIA	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 0920/1000	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/0927 & 17.5-20/0955	




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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') sandy CLAY - brown, moist, medium stiff to stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	2.1	N/A			
5						2.9				
7	(7-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~20% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	2.8	N/A			
10						3.1				
10	BoB @ 10'									
15										
20										
25										
30										

HA - Hand Auger
 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: 02/08/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-23		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL/ E. GARCIA		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1055/1105			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1059			


DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-7') sandy CLAY - brown, moist, medium stiff to stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	0.2	N/A			Well not completed
5						0.2				
7-10	(7-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~20% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	0.2	N/A			
10						0.2				
10	BoB @ 10'									
15										
20										
25										
30										

HA - Hand Auger
 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: 02/08/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-23		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL/ E. GARCIA		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1040/1050			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1045			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') sandy CLAY - brown, moist, medium stiff to stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	0.2	N/A			Well not completed
5						0.2				
5	(6-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~20% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	0.2	N/A			
10						0.2				
10	BoB @ 10'									
15										
20										
25										
30										

HA - Hand Auger
 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: 02/08/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-23		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL/ E. GARCIA		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1020/1030			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1025			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-4') clayey SAND - brown, moist, medium dense, fine-grained, poorly-graded with ~20% clay, N/O, N/S, CaCO ₃	SC	DP	1	100	0.3	N/A		Well not completed	
5	(4-6') sandy CLAY - brown, moist, soft to medium stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL				0.3				
10	(6-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~20% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	0.3	N/A			
						0.3				
10	BoB @ 10'									
15										
20										
25										
30										

HA - Hand Auger
 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: 02/08/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-23	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL/ E. GARCIA	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 10	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1005/1015	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1010	




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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	1.1	N/A			
						1.3				
5	(5-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~15-25% clay, N/O, N/S	SC	DP	2	100	1.3	N/A			
						0.9				
10	(10-14') poorly-graded SAND - tan, moist, loose, fine to medium-grained, poorly-graded with small gravel, N/O, N/S	SP	DP	3	90	2.3	N/A			
	(14-16') gravelly, clayey SAND - Brown/tan/red, moist, loose to medium dense, fine to coarse-grained, well-graded with ~20% small gravel, ~15% clay, trace fines, N/O, N/S					0.6				
15	Refusal at @ 16'	GC	DP	4	70	2.1	N/A			
20										
25										
30										

HA - Hand Auger
 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: 02/08/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-23		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL/ E. GARCIA		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 16	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1115/1140			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1120 & 15-16/1135			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	2.8	N/A			
						3.4				
5	(6-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~15-25% clay, N/O, N/S	SC	DP	2	100	2.1	N/A			
						1.2				
10	(10-15') poorly-graded SAND - tan, moist, loose, fine to medium-grained, poorly-graded with small gravel, N/O, N/S	SP	DP	3	90	1.0	N/A			
						3.6				
15	(15-16') gravelly, clayey SAND - brown/tan/red, moist, loose to medium dense, fine to coarse-grained, well-graded with ~20% small gravel, ~15% clay, trace fines, N/O, N/S	GC	DP	4	70	3.2	N/A			
	Refusal at @ 16'									

HA - Hand Auger
 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: 02/08/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-23	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL/ E. GARCIA	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 16	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1145/1215	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1150 & 15-16/1210	




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 CONSULTING, LLC

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DEPTH (FT)	LITHOLOGY	SAMPLE			OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER					
0	(0-7') sandy CLAY - Brown, moist, medium stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	3.1	N/A		
						0.9			
5	(7-11') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~15-25% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	1.7	N/A		
						2.3			
10	(11-15') poorly-graded SAND - tan, moist, loose, fine to medium-grained, poorly-graded with small gravel, N/O, N/S	SP	DP	3	90	2.1	N/A		
						1.6			
15	(15-17') well-graded SAND - brown/tan/red, moist, very loose, fine to coarse-grained, well-graded, small gravel present, trace fines, N/O, N/S	SW				1.3	N/A		
	(17-20') silty CLAY - brown/orange/red/black, moist, medium stiff to stiff, medium to high plasticity, poorly-graded with ~15% silt, N/O @18-19' - weathered claystone	CL	DP	4	100	3.1			
20	BoB @ 20'								

HA - Hand Auger
 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: 02/08/24		SAND PACK INTERVAL (FEET): N/A	
PROJECT: SHABLE #14-23		BENTONITE/GROUT INTERVAL (FEET): N/A	
LOGGED BY: E. LOVELL/ E. GARCIA		WELL SCREEN INTERVAL (FEET): N/A	
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE		WELL DIAMETER (INCHES): N/A	
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A	 <p>EAGLE ENVIRONMENTAL CONSULTING, LLC</p> <p>8000 W 44th Ave., Wheat Ridge, CO 80033 Ph: 303-433-0479 • F: 303-325-5449</p>	
PID INSTRUMENT: MiniRAE 3000 - PID #15			
TIME STARTED/COMPLETED: 1220/1245			
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1230 & 17.5-20/1242			

DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-6') sandy CLAY - brown, moist, medium stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	2.1	N/A			
						2.1				
5	(6-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, moderately-graded with ~15-25% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	0.3	N/A			
						1.3				
10	(10-16') poorly-graded SAND - tan, moist, loose, fine to medium-grained, poorly-graded with small gravel, N/O, N/S	SP	DP	3	90	1.3	N/A			
						2.6				
15	(16-18') well-graded SAND - brown/tan/red, moist, very loose, fine to coarse-grained, well-graded, small gravel present, trace fines N/O, N/S	SW	DP	4	100	1.5	N/A			
		CL				1.8				
20	(18-20') silty CLAY - brown/orange/red/black, moist, medium stiff to stiff, medium to high plasticity, poorly-graded with ~15% silt, N/O @18-19' - weathered claystone									
	BoB @ 20'									
25										
30										

HA - Hand Auger
 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: 02/08/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-23	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL/ E. GARCIA	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1250/1315	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1257 & 17.5-20/1313	



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DEPTH (FT)	LITHOLOGY	SAMPLE				OVM/OVA (PPM)	BLOW COUNT (per 0.5 FT)	DEPTH (FT)	WELL CONSTRUCTION DETAIL	COMMENTS
	DESCRIPTION	GRAPHIC LOG	TYPE	NUMBER	RECOVERY %					
0	(0-5') sandy CLAY - Brown, moist, medium stiff, low plasticity, poorly-graded with ~15-20% fine-grained sand, N/O, N/S, CaCO ₃	CL	DP	1	100	2.1	N/A			
						0.9				
5	(5-10') clayey SAND - brown, moist, loose to medium dense, fine-grained, poorly-graded with ~15-25% clay, N/O, N/S, CaCO ₃	SC	DP	2	100	1.3	N/A			
						1.1				
10	(10-15') poorly-graded SAND - tan, moist, loose, fine to medium-grained, poorly-graded, small gravel, trace fines N/O, N/S	SP	DP	3	90	2.1	N/A			
						0.7				
15	(15-17') well-graded SAND - brown/tan/red, moist, very loose, fine to coarse-grained, well-graded, small gravel present, trace fines N/O, N/S	SW				3.1	N/A			
	(17-20') silty CLAY - brown/orange/red/black, moist, medium stiff to stiff, medium to high plasticity, poorly-graded with ~15% silt, N/O @18-19' - weathered claystone	CL	DP	4	100	2.6				
20	BoB @ 20'									

HA - Hand Auger
 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: 02/08/24	SAND PACK INTERVAL (FEET): N/A
PROJECT: SHABLE #14-23	BENTONITE/GROUT INTERVAL (FEET): N/A
LOGGED BY: E. LOVELL/ E. GARCIA	WELL SCREEN INTERVAL (FEET): N/A
DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE	WELL DIAMETER (INCHES): N/A
BORING DEPTH (FEET): 20	WELL DEPTH (FEET): N/A
PID INSTRUMENT: MiniRAE 3000 - PID #15	
TIME STARTED/COMPLETED: 1320/1350	
SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1325 & 17.5-20/1345	



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



ATTACHMENT B

Laboratory Analytical Reports



February 23, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable #14-23

Project Number - -

Attached are your analytical results for Noble - Shable #14-23 received by Origins Laboratory, Inc. February 08, 2024. This project is associated with Origins project number Y402223-01.

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: -
Project: Noble - Shable #14-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@5-7.5'	Y402223-01	Soil	February 8, 2024 11:20	02/08/2024 16:26
Background-02@15-16'	Y402223-02	Soil	February 8, 2024 11:35	02/08/2024 16:26
Background-03@5-7.5'	Y402223-03	Soil	February 8, 2024 11:50	02/08/2024 16:26
Background-03@15-16'	Y402223-04	Soil	February 8, 2024 12:10	02/08/2024 16:26
Background-04@5-7.5'	Y402223-05	Soil	February 8, 2024 12:30	02/08/2024 16:26
Background-04@17.5-20'	Y402223-06	Soil	February 8, 2024 12:43	02/08/2024 16:26
Background-05@5-7.5'	Y402223-07	Soil	February 8, 2024 12:57	02/08/2024 16:26
Background-05@17.5-20'	Y402223-08	Soil	February 8, 2024 13:13	02/08/2024 16:26
Background-06@5-7.5'	Y402223-09	Soil	February 8, 2024 13:25	02/08/2024 16:26
Background-06@17.5-20'	Y402223-10	Soil	February 8, 2024 13:45	02/08/2024 16:26

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: -
 Project: Noble - Shable #14-23

www.originslaboratory.com

page 4402223 of 4402223


ORIGINS LABORATORY, INC

Client: Eagle Environmental
 Address: 8000 W 44th Ave
 Wheat Ridge CO 80033
 Telephone Number: 303-933-0479
 Email Address: anewberry@eagle-environmental.com

Project Manager: Andrew Newberry
 Project Name: Shable #14-23
 Project Number:
 Samples Collected By: EL/EG

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	PC	GC	GC, SAR	SAR	
Background #05-7.5'	2/18/24	1120	2	X				X				X	X	X	GC, SAR = Estimated Rate 1
Background #05-16'		1135													2
Background #05-7.5'		1150													3
Background #05-16'		1210													4
Background #05-7.5'		1230													5
Background #07.5-20'		1243													6
Background #05-7.5'		1257													7
Background #07.5-20'		1303													8
Background #05-7.5'		1325													9
Background #07.5-20'		1345													10
Requisitioned By:	Date: 2/18/24	Time: 1020		Received By: <u>[Signature]</u>	Date: 2/19/24	Time: 1020		Received By:	Date:	Time:	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				
Requisitioned By:	Date:	Time:		Received By:	Date:	Time:		Received By:	Date:	Time:					

Temp Received: Date Results Needed: Noble

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: -
 Project: Noble - Shable #14-23

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

Sample Receipt Checklist

Origins Work Order: 4402223 Client: Eagle
 Client Project ID: Shable #14-23

Checklist Completed by: JBYNS Shipped Via: TLD
 Date/time completed: 2/9/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1, 4 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 1004

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) [Signature]

Date/Time Reviewed 2/12/24

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: -
 Project: Noble - Shable #14-23

Background-02@5-7.5'
2/8/2024 11:20:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	5.50	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	2.52	0.823	"	"	"	ACC	"	"
Sodium	24.2	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	12.1	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.27	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	4.77	0.0907	mg/kg	10	B4B0830	ZZZ	02/09/2024	02/14/2024
Barium	141	9.07	"	"	"	ZZZ	"	"
Lead	11.1	0.907	"	"	"	ZZZ	"	"
Selenium	0.154	0.0907	"	"	"	ZZZ	"	"

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: -
 Project: Noble - Shable #14-23

Background-02@15-16'
2/8/2024 11:35:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.12	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	2.80	0.823	"	"	"	ACC	"	"
Sodium	14.2	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	9.03	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.01	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	32.6	0.0974	mg/kg	10	B4B0830	ZZZ	02/09/2024	02/14/2024
Barium	173	9.74	"	"	"	ZZZ	"	"
Lead	18.3	0.974	"	"	"	ZZZ	"	"
Selenium	1.88	0.0974	"	"	"	ZZZ	"	"

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: -
 Project: Noble - Shable #14-23

Background-03@5-7.5'
2/8/2024 11:50:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.61	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	2.01	0.823	"	"	"	ACC	"	"
Sodium	21.8	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	12.0	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.01	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	5.04	0.0843	mg/kg	10	B4B0830	ZZZ	02/09/2024	02/14/2024
Barium	135	8.43	"	"	"	ZZZ	"	"
Lead	11.8	0.843	"	"	"	ZZZ	"	"
Selenium	0.211	0.0843	"	"	"	ZZZ	"	"

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: -
 Project: Noble - Shable #14-23

Background-03@15-16'
2/8/2024 12:10:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-04 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	1.78	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	2.20	0.823	"	"	"	ACC	"	"
Sodium	11.1	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	7.84	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.57	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	55.8	0.0923	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	202	9.23	"	"	"	HJD	"	"
Lead	21.6	0.923	"	"	"	HJD	"	"
Selenium	1.30	0.0923	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

Background-04@5-7.5'
2/8/2024 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-05 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	25.5	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	13.5	0.823	"	"	"	ACC	"	"
Sodium	61.2	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	13.9	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.83	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	4.74	0.0844	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	129	8.44	"	"	"	HJD	"	"
Lead	13.2	0.844	"	"	"	HJD	"	"
Selenium	0.715	0.0844	"	"	"	HJD	"	"

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: -
 Project: Noble - Shable #14-23

Background-04@17.5-20'

2/8/2024 12:43:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-06 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.22	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	4.89	0.823	"	"	"	ACC	"	"
Sodium	16.5	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	7.75	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.28	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	3.35	0.0925	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	129	9.25	"	"	"	HJD	"	"
Lead	7.83	0.925	"	"	"	HJD	"	"
Selenium	4.00	0.0925	"	"	"	HJD	"	"

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: -
 Project: Noble - Shable #14-23

Background-05@5-7.5'
2/8/2024 12:57:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-07 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	24.8	0.499	meq/L	10	[CALC]	ACC	02/11/2024	02/12/2024
Magnesium	13.2	0.823	"	"	"	ACC	"	"
Sodium	57.4	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	13.2	0.0100	SAR	1	B4B1104	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	7.49	0.00500	mmhos/cm	1	B4B1108	EAL	02/11/2024	02/12/2024
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Table 915 metals by EPA 6020B

Arsenic	4.72	0.0841	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	118	8.41	"	"	"	HJD	"	"
Lead	11.4	0.841	"	"	"	HJD	"	"
Selenium	0.420	0.0841	"	"	"	HJD	"	"

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: -
 Project: Noble - Shable #14-23

Background-05@17.5-20'

2/8/2024 1:13:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-08 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	4.51	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	5.52	0.823	"	"	"	ACC	"	"
Sodium	17.5	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	7.80	0.0100	SAR	1	B4B1203	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.53	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024
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Table 915 metals by EPA 6020B

Arsenic	3.95	0.0906	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	102	9.06	"	"	"	HJD	"	"
Lead	9.54	0.906	"	"	"	HJD	"	"
Selenium	1.25	0.0906	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

Background-06@5-7.5'

2/8/2024 1:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-09 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	24.5	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	14.5	0.823	"	"	"	ACC	"	"
Sodium	64.4	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	14.6	0.0100	SAR	1	B4B1203	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.65	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024
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Table 915 metals by EPA 6020B

Arsenic	4.38	0.0998	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	116	9.98	"	"	"	HJD	"	"
Lead	10.5	0.998	"	"	"	HJD	"	"
Selenium	0.446	0.0998	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

Background-06@17.5-20'

2/8/2024 1:45:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402223-10 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	2.71	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	3.54	0.823	"	"	"	ACC	"	"
Sodium	13.8	0.435	"	"	"	ACC	"	"

SAR by 20B Saturated Paste

SAR	7.82	0.0100	SAR	1	B4B1203	ACC	"	"
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.85	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024
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Table 915 metals by EPA 6020B

Arsenic	10.9	0.0849	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024
Barium	104	8.49	"	"	"	HJD	"	"
Lead	9.82	0.849	"	"	"	HJD	"	"
Selenium	0.799	0.0849	"	"	"	HJD	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0830 - EPA 3050B

Blank (B4B0830-BLK1)

Prepared: 02/08/2024 Analyzed: 02/16/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Lead	ND	0.100	"							
Selenium	ND	0.0100	"							

LCS (B4B0830-BS1)

Prepared: 02/08/2024 Analyzed: 02/16/2024

Arsenic	4.95	0.0100	mg/kg	5.00		98.9	80-120			
Barium	479	1.00	"	500		95.7	80-120			
Lead	5.03	0.100	"	5.00		101	80-120			
Selenium	4.58	0.0100	"	5.00		91.6	80-120			

Matrix Spike (B4B0830-MS1)

Source: Y402193-01

Prepared: 02/08/2024 Analyzed: 02/16/2024

Arsenic	10.1	0.0850	mg/kg	4.25	3.17	162	75-125			QM-07
Barium	947	8.50	"	425	575	87.5	75-125			
Lead	12.4	0.850	"	4.25	7.50	115	75-125			QM-07
Selenium	4.81	0.0850	"	4.25	0.222	108	75-125			

Matrix Spike Dup (B4B0830-MSD1)

Source: Y402193-01

Prepared: 02/08/2024 Analyzed: 02/16/2024

Arsenic	10.0	0.0905	mg/kg	4.52	3.17	151	75-125	0.499	20	QM-07
Barium	991	9.05	"	452	575	92.0	75-125	4.57	20	
Lead	15.1	0.905	"	4.52	7.50	168	75-125	19.8	20	QM-07
Selenium	4.68	0.0905	"	4.52	0.222	98.5	75-125	2.65	20	

Batch B4B0922 - EPA 3050B

Blank (B4B0922-BLK1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0922 - EPA 3050B										
Blank (B4B0922-BLK1)										
					Prepared: 02/09/2024 Analyzed: 02/14/2024					
Lead	ND	0.100	mg/kg							
Selenium	ND	0.0100	"							
LCS (B4B0922-BS1)										
					Prepared: 02/09/2024 Analyzed: 02/16/2024					
Arsenic	4.91	0.0100	mg/kg	5.00		98.2	80-120			
Barium	494	1.00	"	500		98.9	80-120			
Lead	5.10	0.100	"	5.00		102	80-120			
Selenium	5.13	0.0100	"	5.00		103	80-120			
Matrix Spike (B4B0922-MS1)										
		Source: Y402224-04			Prepared: 02/09/2024 Analyzed: 02/14/2024					
Arsenic	9.07	0.0852	mg/kg	4.26	5.01	95.3	75-125			
Barium	547	8.52	"	426	146	94.2	75-125			
Lead	16.9	0.852	"	4.26	11.9	117	75-125			
Selenium	4.06	0.0852	"	4.26	0.244	89.5	75-125			
Matrix Spike Dup (B4B0922-MSD1)										
		Source: Y402224-04			Prepared: 02/09/2024 Analyzed: 02/14/2024					
Arsenic	9.35	0.0933	mg/kg	4.66	5.01	93.0	75-125	3.00	20	
Barium	595	9.33	"	466	146	96.4	75-125	8.48	20	
Lead	17.0	0.933	"	4.66	11.9	109	75-125	0.640	20	
Selenium	4.45	0.0933	"	4.66	0.244	90.1	75-125	9.14	20	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

Classical Chemistry Parameters - 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 B4B1104 - Saturated Paste Metals

Blank (B4B1104-BLK1)

Prepared: 02/11/2024 Analyzed: 02/12/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B4B1104-DUP1)

Source: Y402223-01

Prepared: 02/11/2024 Analyzed: 02/12/2024

Calcium PPM	68.2	10.0	mg/L		110			47.2	50	
SAR	ND	0.0100	SAR		12.1				200	
Magnesium PPM	18.1	10.0	mg/L		30.7			51.5	50	QR-DUP
Sodium PPM	430	10.0	"		557			25.8	50	

Batch B4B1203 - Saturated Paste Metals

Blank (B4B1203-BLK1)

Prepared: 02/12/2024 Analyzed: 02/13/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4B1203-DUP1)

Source: Y402223-08

Prepared: 02/12/2024 Analyzed: 02/13/2024

Calcium PPM	56.7	10.0	mg/L		90.4			45.8	50	
SAR	ND	0.0100	SAR		7.80				200	
Magnesium PPM	45.0	10.0	mg/L		67.0			39.3	50	
Sodium PPM	323	10.0	"		401			21.7	50	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1108 - Saturated Paste pH/EC										
Blank (B4B1108-BLK1)					Prepared: 02/11/2024 Analyzed: 02/12/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4B1108-DUP1)		Source: Y402223-01			Prepared: 02/11/2024 Analyzed: 02/12/2024					
Specific Conductance (EC)	2.51	0.00500	mmhos/cm		3.27			26.2	25	QR-DUP
Batch B4B1212 - Saturated Paste pH/EC										
Blank (B4B1212-BLK1)					Prepared: 02/12/2024 Analyzed: 02/13/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4B1212-DUP1)		Source: Y402223-08			Prepared: 02/12/2024 Analyzed: 02/13/2024					
Specific Conductance (EC)	1.94	0.00500	mmhos/cm		2.53			26.4	25	QR-DUP

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - Shable #14-23

Notes and Definitions

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



February 23, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shable #14-23

Project Number - -

Attached are your analytical results for Noble - Shable #14-23 received by Origins Laboratory, Inc. February 08, 2024. This project is associated with Origins project number Y402224-01.

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: -
Project: Noble - Shable #14-23

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-01@5-7.5'	Y402224-01	Soil	February 8, 2024 9:27	02/08/2024 16:26
SB-01@17.5-20'	Y402224-02	Soil	February 8, 2024 9:55	02/08/2024 16:26
SB-02@5-7.5'	Y402224-03	Soil	February 8, 2024 10:59	02/08/2024 16:26
SB-03@5-7.5'	Y402224-04	Soil	February 8, 2024 10:45	02/08/2024 16:26
SB-04@5-7.5'	Y402224-05	Soil	February 8, 2024 10:25	02/08/2024 16:26
SB-05@5-7.5'	Y402224-06	Soil	February 8, 2024 10:10	02/08/2024 16:26

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: -
 Project: Noble - Shable #14-23

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

Sample Receipt Checklist

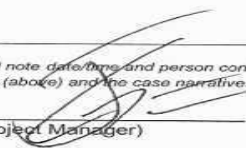
Origins Work Order: 4402224 Client: Eagle
 Client Project ID: Shable #14-23


Checklist Completed by: JBY/EHS Shipped Via: TED
 Date/time completed: 2/19/24 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 46 °C / _____ °C / _____ °C (Describe) _____ °C
 Thermometer ID: 7004

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) Date/Time Reviewed: 2/12/24

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: -
 Project: Noble - Shable #14-23

SB-01@5-7.5'

2/8/2024 9:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0901	ZZZ	02/09/2024	02/15/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 86.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0931	JSM	02/09/2024	02/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.7 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	13.7	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	6.00	0.823	"	"	"	ACC	"	"

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: -
 Project: Noble - Shable #14-23

SB-01@5-7.5'

2/8/2024 9:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402224-01 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	21.6	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0925	agile	02/09/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	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	99.9 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.8 %	60-130	"	"	"
Surrogate: Pyrene-d10	103 %	60-130	"	"	"

Origins Laboratory, Inc.



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

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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-01@5-7.5'

2/8/2024 9:27:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.
 Y402224-01 (Soil)**

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	100 %	60-130			B4B09 25		02/09/2024	02/14/2024	
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SAR by 20B Saturated Paste

SAR	6.89	0.0100	SAR	1	B4B1203	ACC	02/12/2024	02/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.09	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.43	0.0938	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024	
Barium	127	9.38	"	"	"	HJD	"	"	
Lead	13.7	0.938	"	"	"	HJD	"	"	
Selenium	0.326	0.0938	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-01@17.5-20'
2/8/2024 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0901	ZZZ	02/09/2024	02/15/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 81.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0931	JSM	02/09/2024	02/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 102 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 94.1 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	23.1	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	18.5	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-01@17.5-20'
2/8/2024 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-02 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	20.6	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0925	agile	02/09/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	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	98.7 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	102 %	60-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-01@17.5-20'

2/8/2024 9:55:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-02 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	106 %	60-130			B4B09 25		02/09/2024	02/14/2024	
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SAR by 20B Saturated Paste

SAR	4.53	0.0100	SAR	1	B4B1203	ACC	02/12/2024	02/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.69	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	32.5	0.0980	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024	
Barium	608	9.80	"	"	"	HJD	"	"	
Lead	17.2	0.980	"	"	"	HJD	"	"	
Selenium	1.15	0.0980	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-02@5-7.5'
2/8/2024 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0901	ZZZ	02/09/2024	02/15/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 77.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0931	JSM	02/09/2024	02/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	26.3	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	14.4	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-02@5-7.5'
2/8/2024 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-03 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	51.6	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0925	agile	02/09/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	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	98.3 %	60-130	"	"	"
Surrogate: Anthracene-d10	98.7 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.4 %	60-130	"	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-02@5-7.5'
2/8/2024 10:59:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-03 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	107 %	60-130			B4B09 25		02/09/2024	02/14/2024	
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SAR by 20B Saturated Paste

SAR	11.5	0.0100	SAR	1	B4B1203	ACC	02/12/2024	02/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.86	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.30	0.0911	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024	
Barium	113	9.11	"	"	"	HJD	"	"	
Lead	9.65	0.911	"	"	"	HJD	"	"	
Selenium	0.451	0.0911	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-03@5-7.5'
2/8/2024 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0901	ZZZ	02/09/2024	02/15/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 76.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0931	JSM	02/09/2024	02/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 104 % 70-130 " " "
 Surrogate: Toluene-d8 103 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.1 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	24.4	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	10.1	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-03@5-7.5'
2/8/2024 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-04 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	39.6	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0925	agile	02/09/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	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	99.4 %	60-130			"	"	"

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-03@5-7.5'
2/8/2024 10:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-04 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	108 %	60-130			B4B09 25		02/09/2024	02/14/2024	
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SAR by 20B Saturated Paste

SAR	9.55	0.0100	SAR	1	B4B1203	ACC	02/12/2024	02/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	5.49	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.01	0.0839	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024	
Barium	146	8.39	"	"	"	HJD	"	"	
Lead	11.9	0.839	"	"	"	HJD	"	"	
Selenium	0.244	0.0839	"	"	"	HJD	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-04@5-7.5'
2/8/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0901	ZZZ	02/09/2024	02/15/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 78.0 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0931	JSM	02/09/2024	02/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 103 % 70-130 " " "
 Surrogate: Toluene-d8 102 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.4 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	24.9	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	15.1	0.823	"	"	"	ACC	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-04@5-7.5'
2/8/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-05 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	48.8	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0925	agile	02/09/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	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	100 %	60-130	"	"	"
Surrogate: Pyrene-d10	96.2 %	60-130	"	"	"

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-04@5-7.5'
2/8/2024 10:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-05 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	106 %	60-130			B4B09 25		02/09/2024	02/14/2024	
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SAR by 20B Saturated Paste

SAR	10.9	0.0100	SAR	1	B4B1203	ACC	02/12/2024	02/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.67	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.33	0.0910	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024	
Barium	111	9.10	"	"	"	HJD	"	"	
Lead	10.3	0.910	"	"	"	HJD	"	"	
Selenium	ND	0.0910	"	"	"	HJD	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-05@5-7.5'
2/8/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-06 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4B0901	ZZZ	02/09/2024	02/15/2024	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: *o*-Terphenyl 75.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4B0931	JSM	02/09/2024	02/11/2024	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4 106 % 70-130 " " "
 Surrogate: Toluene-d8 101 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 93.6 % 70-130 " " "

Metals by Saturated Paste by EPA 6010

Calcium	21.2	0.499	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024
Magnesium	11.3	0.823	"	"	"	ACC	"	"

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-05@5-7.5'
2/8/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-06 (Soil)

Metals by Saturated Paste by EPA 6010

Sodium	51.4	0.435	meq/L	10	[CALC]	ACC	02/12/2024	02/13/2024	
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PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4B0925	agile	02/09/2024	02/14/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	agile	"	"	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	96.5 %	60-130	"	"	"
Surrogate: Pyrene-d10	101 %	60-130	"	"	"

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

SB-05@5-7.5'
2/8/2024 10:10:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402224-06 (Soil)

PAH by EPA 8270E

Surrogate: Benzo (a) pyrene-d12	104 %	60-130			B4B09 25		02/09/2024	02/14/2024	
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SAR by 20B Saturated Paste

SAR	12.8	0.0100	SAR	1	B4B1203	ACC	02/12/2024	02/13/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.18	0.00500	mmhos/cm	1	B4B1212	EAL	02/12/2024	02/13/2024	
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Table 915 metals by EPA 6020B

Arsenic	5.11	0.0858	mg/kg	10	B4B0922	HJD	02/09/2024	02/14/2024	
Barium	113	8.58	"	"	"	HJD	"	"	
Lead	14.6	0.858	"	"	"	HJD	"	"	
Selenium	0.413	0.0858	"	"	"	HJD	"	"	

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0901 - EPA 3550B										
Blank (B4B0901-BLK1)										
					Prepared: 02/09/2024 Analyzed: 02/15/2024					
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			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0901 - EPA 3550B										
LCS (B4B0901-BS1)										
					Prepared: 02/09/2024 Analyzed: 02/15/2024					
Diesel (C10-C28)	885	50.0	mg/kg	1000		88.5	70-130			
Residual Range Organics (C28-C40)	936	200	"	1000		93.6	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0901 - EPA 3550B										
Matrix Spike (B4B0901-MS1)		Source: Y402193-01			Prepared: 02/09/2024 Analyzed: 02/15/2024					
Diesel (C10-C28)	843	50.0	mg/kg	1000	ND	84.3	70-130			
Residual Range Organics (C28-C40)	913	200	"	1000	ND	91.3	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.5	50-150			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0901 - EPA 3550B										
Matrix Spike Dup (B4B0901-MSD1)					Source: Y402193-01					Prepared: 02/09/2024 Analyzed: 02/15/2024
Diesel (C10-C28)	824	50.0	mg/kg	1000	ND	82.4	70-130	2.27	35	
Residual Range Organics (C28-C40)	828	200	"	1000	ND	82.8	70-130	9.83	35	
Surrogate: o-Terphenyl	48		"	49.8		96.8	50-150			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0931 - EPA 5030 (soil)

Blank (B4B0931-BLK1)

Prepared: 02/09/2024 Analyzed: 02/11/2024

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	0.11		"	0.125	91.5		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.4		70-130			

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Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0931 - EPA 5030 (soil)

LCS (B4B0931-BS1)

Prepared: 02/09/2024 Analyzed: 02/11/2024

1,2,4-Trimethylbenzene	0.116	0.00200	mg/kg	0.100		116	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.0929	0.00200	"	0.100		92.9	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0995	0.00200	"	0.100		99.5	70-130			
o-Xylene	0.114	0.00200	"	0.100		114	70-130			
m,p-Xylene	0.227	0.00400	"	0.200		113	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	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: -
 Project: Noble - Shable #14-23

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 B4B0931 - EPA 5030 (soil)

Matrix Spike (B4B0931-MS1)	Source: Y402195-01			Prepared: 02/09/2024 Analyzed: 02/11/2024						
1,2,4-Trimethylbenzene	0.0988	0.00200	mg/kg	0.100	ND	98.8	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0810	0.00200	"	0.100	ND	81.0	70-130			
Ethylbenzene	0.0980	0.00200	"	0.100	ND	98.0	70-130			
Naphthalene	0.0764	0.00380	"	0.100	0.000860	75.5	70-130			
Toluene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0931 - EPA 5030 (soil)

Matrix Spike Dup (B4B0931-MSD1)	Source: Y402195-01			Prepared: 02/09/2024 Analyzed: 02/11/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130	8.96	20	
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130	8.47	20	
Benzene	0.0865	0.00200	"	0.100	ND	86.5	70-130	6.57	20	
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130	8.43	20	
Naphthalene	0.0968	0.00380	"	0.100	0.000860	95.9	70-130	23.5	20	QR-02
Toluene	0.0926	0.00200	"	0.100	ND	92.6	70-130	9.88	20	
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130	8.57	20	
m,p-Xylene	0.211	0.00400	"	0.200	ND	106	70-130	8.13	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0922 - EPA 3050B

Blank (B4B0922-BLK1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic	ND	0.0100	mg/kg							
Barium	ND	1.00	"							
Lead	ND	0.100	"							
Selenium	ND	0.0100	"							

LCS (B4B0922-BS1)

Prepared: 02/09/2024 Analyzed: 02/16/2024

Arsenic	4.91	0.0100	mg/kg	5.00		98.2	80-120			
Barium	494	1.00	"	500		98.9	80-120			
Lead	5.10	0.100	"	5.00		102	80-120			
Selenium	5.13	0.0100	"	5.00		103	80-120			

Matrix Spike (B4B0922-MS1)

Source: Y402224-04

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic	9.07	0.0852	mg/kg	4.26	5.01	95.3	75-125			
Barium	547	8.52	"	426	146	94.2	75-125			
Lead	16.9	0.852	"	4.26	11.9	117	75-125			
Selenium	4.06	0.0852	"	4.26	0.244	89.5	75-125			

Matrix Spike Dup (B4B0922-MSD1)

Source: Y402224-04

Prepared: 02/09/2024 Analyzed: 02/14/2024

Arsenic	9.35	0.0933	mg/kg	4.66	5.01	93.0	75-125	3.00	20	
Barium	595	9.33	"	466	146	96.4	75-125	8.48	20	
Lead	17.0	0.933	"	4.66	11.9	109	75-125	0.640	20	
Selenium	4.45	0.0933	"	4.66	0.244	90.1	75-125	9.14	20	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0925 - EPA 3580

Blank (B4B0925-BLK1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

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	200		ug/kg	200		97.9	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		104	60-130			

LCS (B4B0925-BS1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

1-Methylnaphthalene	0.163	0.002	mg/kg	0.200		81.7	70-130			
2-Methylnaphthalene	0.163	0.002	"	0.200		81.6	70-130			
Acenaphthene	0.179	0.020	"	0.200		89.6	70-130			
Anthracene	0.185	0.020	"	0.200		92.5	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0925 - EPA 3580

LCS (B4B0925-BS1)

Prepared: 02/09/2024 Analyzed: 02/14/2024

Benzo (a) anthracene	0.177	0.005	mg/kg	0.200		88.6	70-130			
Benzo (a) pyrene	0.167	0.020	"	0.200		83.7	70-130			
Benzo (b) fluoranthene	0.183	0.020	"	0.200		91.7	70-130			
Benzo (g,h,i) perylene	0.173	0.020	"	0.200		86.7	70-130			
Benzo (k) fluoranthene	0.180	0.020	"	0.200		90.2	70-130			
Chrysene	0.187	0.020	"	0.200		93.4	70-130			
Dibenz (a,h) anthracene	0.186	0.020	"	0.200		92.9	70-130			
Fluoranthene	0.187	0.020	"	0.200		93.4	70-130			
Fluorene	0.173	0.020	"	0.200		86.6	70-130			
Indeno (1,2,3-cd) pyrene	0.176	0.020	"	0.200		87.8	70-130			
Naphthalene	0.177	0.002	"	0.200		88.5	70-130			
Phenanthrene	0.177	0.020	"	0.200		88.6	70-130			
Pyrene	0.189	0.020	"	0.200		94.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	200		"	200		99.0	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4B0925-MS1)

Source: Y402185-01

Prepared: 02/09/2024 Analyzed: 02/14/2024

1-Methylnaphthalene	0.168	0.002	mg/kg	0.200	ND	83.9	70-130			
2-Methylnaphthalene	0.169	0.002	"	0.200	ND	84.4	70-130			
Acenaphthene	0.185	0.020	"	0.200	ND	92.7	70-130			
Anthracene	0.192	0.020	"	0.200	ND	95.9	70-130			
Benzo (a) anthracene	0.182	0.005	"	0.200	ND	91.2	70-130			
Benzo (a) pyrene	0.189	0.020	"	0.200	0.002	93.6	70-130			
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130			
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	ND	94.2	70-130			

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

Andrew Newberry
 Project Number: -
 Project: Noble - Shable #14-23

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 B4B0925 - EPA 3580

Matrix Spike (B4B0925-MS1)		Source: Y402185-01			Prepared: 02/09/2024 Analyzed: 02/14/2024					
Benzo (k) fluoranthene	0.198	0.020	mg/kg	0.200	ND	99.1	70-130			
Chrysene	0.190	0.020	"	0.200	0.0003	94.9	70-130			
Dibenz (a,h) anthracene	0.202	0.020	"	0.200	ND	101	70-130			
Fluoranthene	0.190	0.020	"	0.200	ND	94.9	70-130			
Fluorene	0.177	0.020	"	0.200	ND	88.3	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200	ND	95.7	70-130			
Naphthalene	0.184	0.002	"	0.200	ND	92.0	70-130			
Phenanthrene	0.181	0.020	"	0.200	ND	90.6	70-130			
Pyrene	0.191	0.020	"	0.200	ND	95.5	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.0	60-130			
Surrogate: Anthracene-d10	200		"	200		98.3	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

Matrix Spike Dup (B4B0925-MSD1)		Source: Y402185-01			Prepared: 02/09/2024 Analyzed: 02/14/2024					
1-Methylnaphthalene	0.170	0.002	mg/kg	0.200	ND	84.8	70-130	0.975	20	
2-Methylnaphthalene	0.169	0.002	"	0.200	ND	84.7	70-130	0.417	20	
Acenaphthene	0.186	0.020	"	0.200	ND	92.9	70-130	0.184	20	
Anthracene	0.199	0.020	"	0.200	ND	99.3	70-130	3.42	20	
Benzo (a) anthracene	0.181	0.005	"	0.200	ND	90.6	70-130	0.659	20	
Benzo (a) pyrene	0.189	0.020	"	0.200	0.002	93.7	70-130	0.105	20	
Benzo (b) fluoranthene	0.199	0.020	"	0.200	ND	99.7	70-130	2.67	20	
Benzo (g,h,i) perylene	0.185	0.020	"	0.200	ND	92.6	70-130	1.76	20	
Benzo (k) fluoranthene	0.194	0.020	"	0.200	ND	97.1	70-130	2.04	20	
Chrysene	0.193	0.020	"	0.200	0.0003	96.2	70-130	1.33	20	
Dibenz (a,h) anthracene	0.204	0.020	"	0.200	ND	102	70-130	1.09	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.4	70-130	2.68	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 B4B0925 - EPA 3580

Matrix Spike Dup (B4B0925-MSD1)	Source: Y402185-01			Prepared: 02/09/2024 Analyzed: 02/14/2024						
Fluorene	0.182	0.020	mg/kg	0.200	ND	90.9	70-130	2.85	20	
Indeno (1,2,3-cd) pyrene	0.188	0.020	"	0.200	ND	93.8	70-130	2.07	20	
Naphthalene	0.186	0.002	"	0.200	ND	93.0	70-130	0.998	20	
Phenanthrene	0.194	0.020	"	0.200	ND	97.0	70-130	6.86	20	
Pyrene	0.188	0.020	"	0.200	ND	94.2	70-130	1.40	20	
Surrogate: Fluorene-d10	190		ug/kg	200		97.0	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		97.5	60-130			
Surrogate: Benzo (a) pyrene-d12	220		"	200		108	60-130			

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Classical Chemistry Parameters - 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 B4B1203 - Saturated Paste Metals

Blank (B4B1203-BLK1)

Prepared: 02/12/2024 Analyzed: 02/13/2024

Calcium PPM	ND	10.0	mg/L							
SAR	ND	0.0100	SAR							
Magnesium PPM	ND	10.0	mg/L							
Sodium PPM	ND	10.0	"							

Duplicate (B4B1203-DUP1)

Source: Y402223-08

Prepared: 02/12/2024 Analyzed: 02/13/2024

Calcium PPM	56.7	10.0	mg/L		90.4			45.8	50	
SAR	ND	0.0100	SAR		7.80				200	
Magnesium PPM	45.0	10.0	mg/L		67.0			39.3	50	
Sodium PPM	323	10.0	"		401			21.7	50	

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Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4B1212 - Saturated Paste pH/EC										
Blank (B4B1212-BLK1)					Prepared: 02/12/2024 Analyzed: 02/13/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4B1212-DUP1)		Source: Y402223-08			Prepared: 02/12/2024 Analyzed: 02/13/2024					
Specific Conductance (EC)	1.94	0.00500	mmhos/cm		2.53			26.4	25	QR-DUP

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Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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