



FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

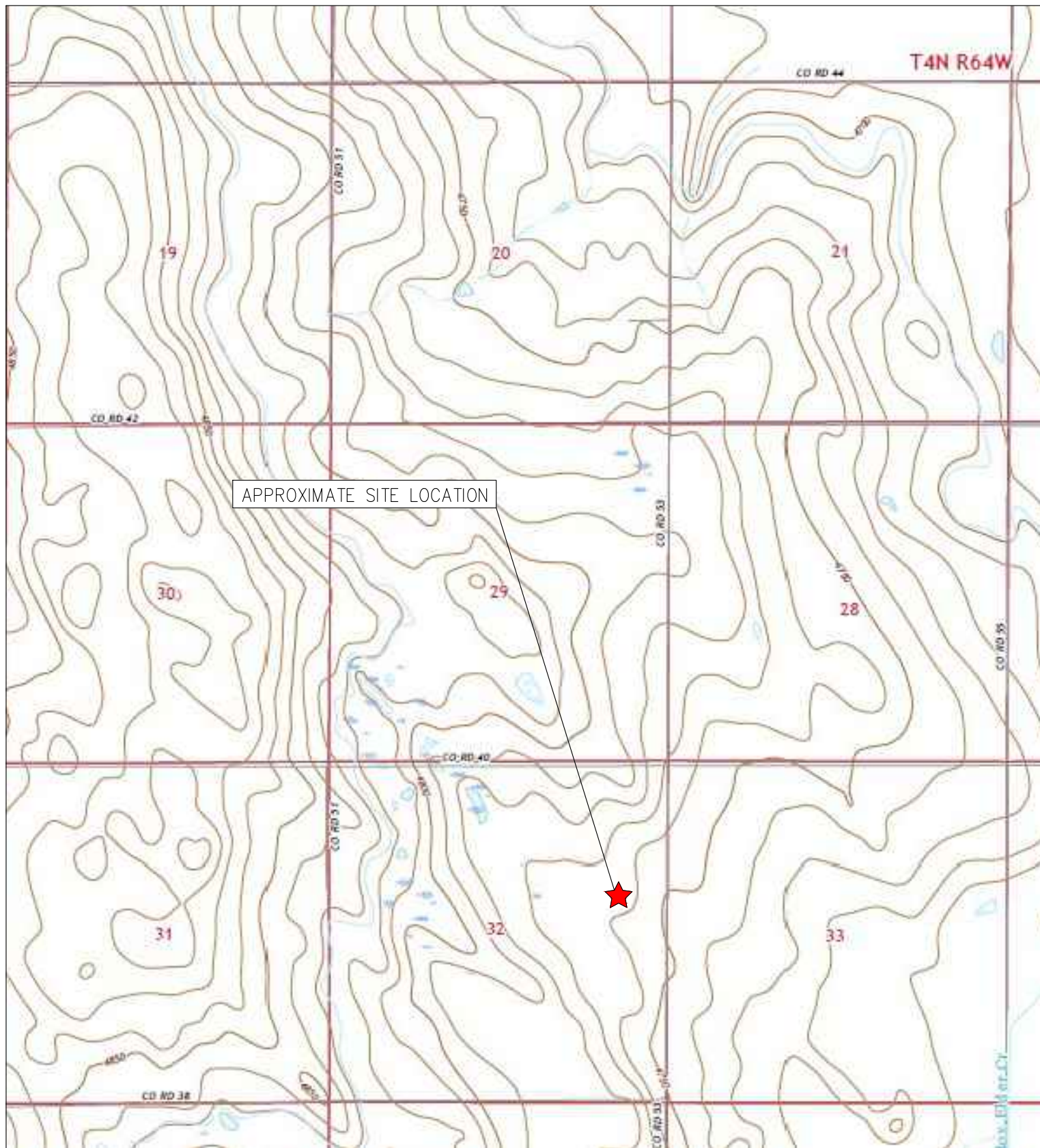
Figure 5: Metals in Soil Map

Figure 6: Groundwater Analytical Map (12/14/23)

Figure 7: Inorganic Groundwater Parameters Map (12/14/23)

Figure 8: Dissolved Metals Analytical Map (12/14/23)

Figure 9: Groundwater Elevation Map (12/14/23)



TOPOGRAPHIC SITE LOCATION MAP
 PTF #C 32-8
 HISTORICAL RELEASE
 40.270210 / -104.567750
 SE¼ NE¼ SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

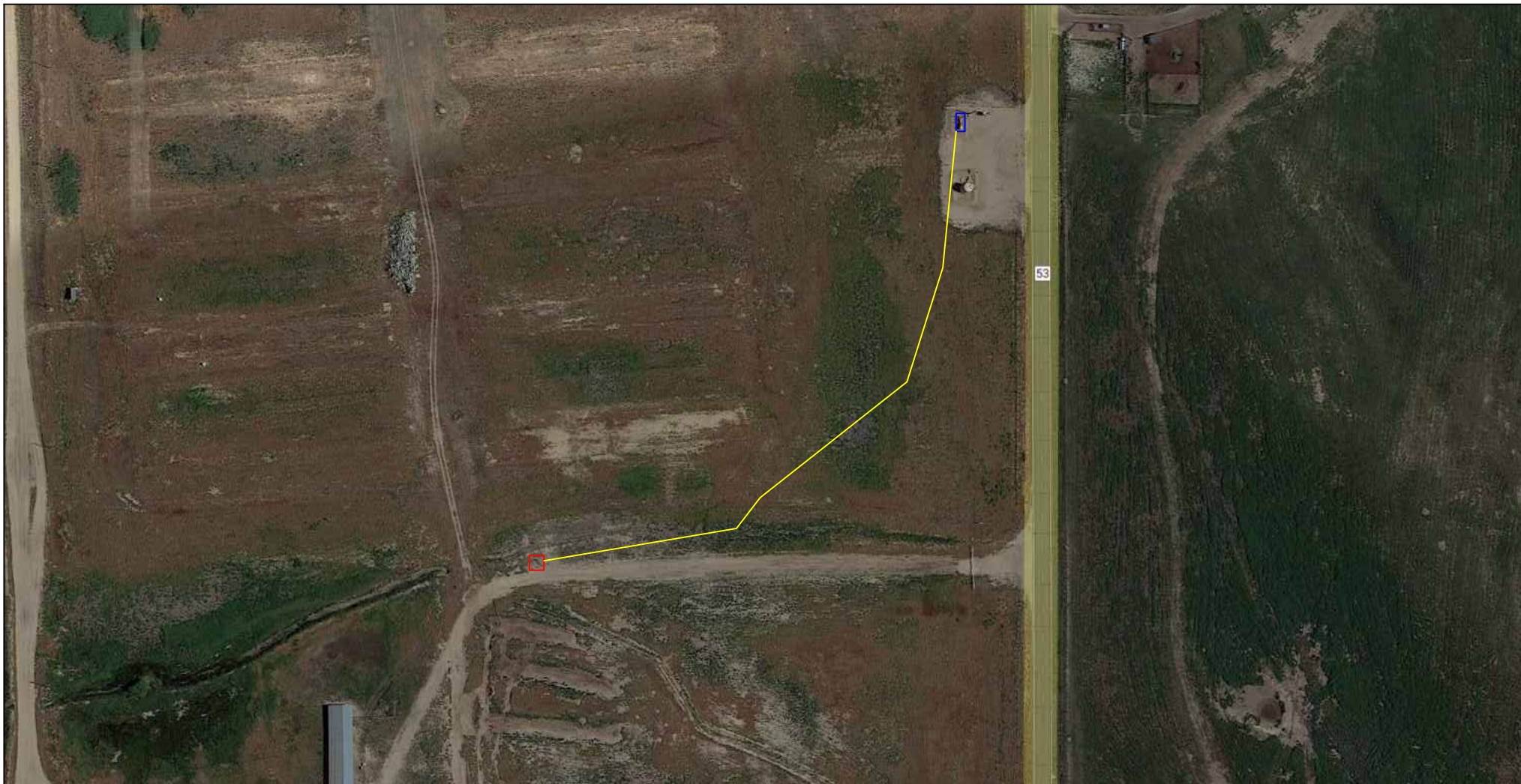


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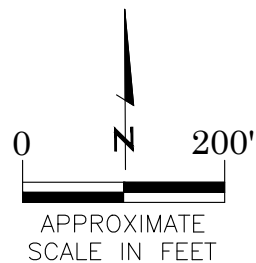
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER PTF #C 32-8 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

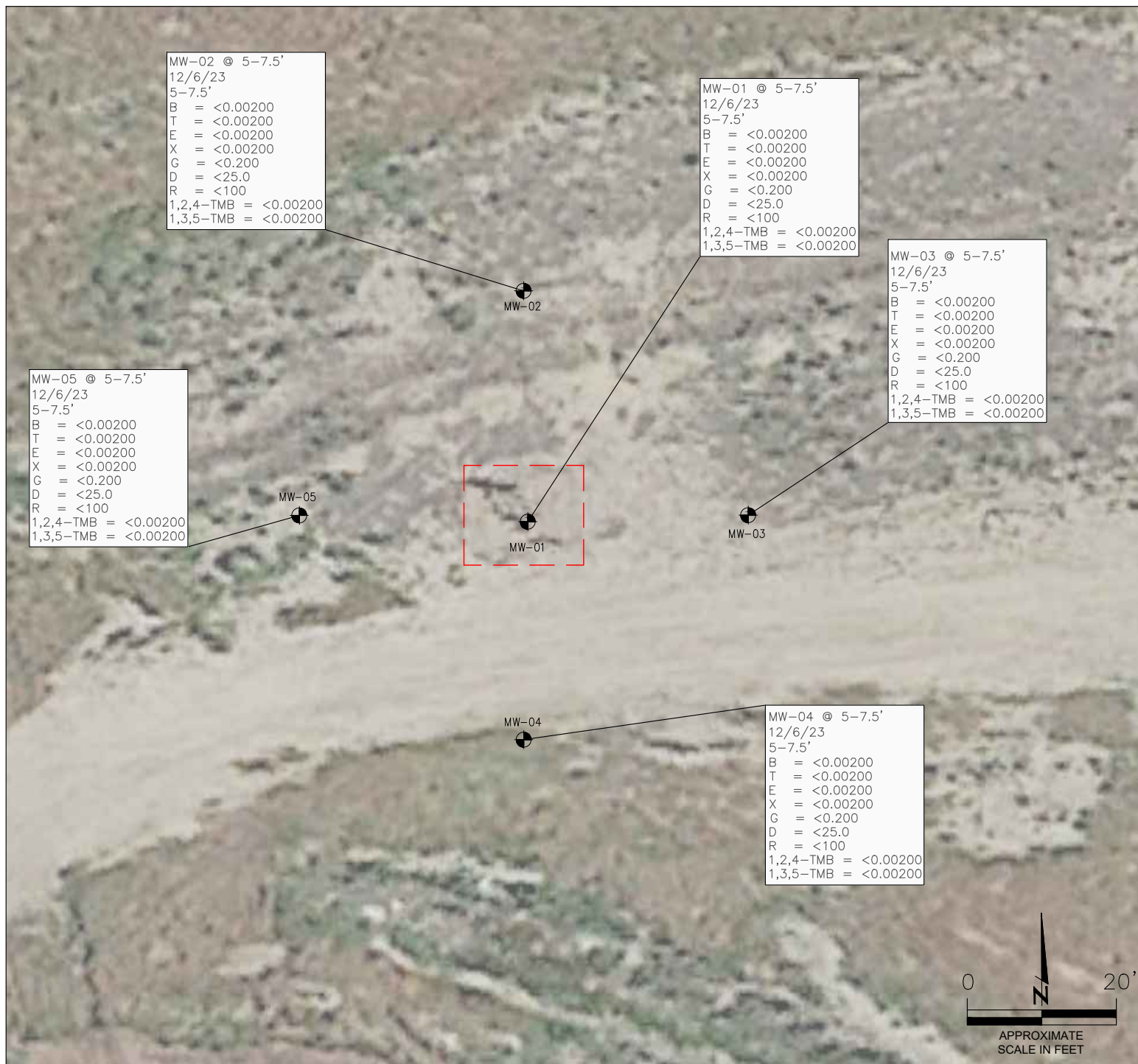
PTF #C 32-8
 HISTORICAL RELEASE
 40.270210 / -104.567750
 SE¼ NE¼ SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

FIGURE NO.
2

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LEGEND

--- WELLHEAD ASSESSMENT BOUNDARIES

 APPROXIMATE MONITORING WELL LOCATIONS

MW-01

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
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)

mg/kg = MILLIGRAMS PER KILOGRAM

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 ANALYTICAL MAP
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE¼ NE¼ SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIAL # 23204

FIGURE NO.
3

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MW-02 @ 5-7.5'
12/6/23
5-7.5'
1-MN = <0.00200
2-MN = <0.00200
Acenaphthene = <0.00200
Anthracene = <0.00200
Benzo(a)anthracene = <0.00500
Benzo(a)pyrene = <0.00200
Benzo(b)fluoranthene = <0.00200
Benzo(k)fluoranthene = <0.00200
Chrysene = <0.00200
Dibenzo(a,h)anthracene = <0.00200
Fluoranthene = <0.00200
Fluorene = <0.00200
Indeno(1,2,3-CD)pyrene = <0.00200
Naphthalene = <0.00200
Pyrene = <0.00200



MW-01 @ 5-7.5'
12/6/23
5-7.5'
1-MN = <0.00200
2-MN = <0.00200
Acenaphthene = <0.00200
Anthracene = <0.00200
Benzo(a)anthracene = <0.00500
Benzo(a)pyrene = <0.00200
Benzo(b)fluoranthene = <0.00200
Benzo(k)fluoranthene = <0.00200
Chrysene = <0.00200
Dibenzo(a,h)anthracene = <0.00200
Fluoranthene = <0.00200
Fluorene = <0.00200
Indeno(1,2,3-CD)pyrene = <0.00200
Naphthalene = <0.00200
Pyrene = <0.00200

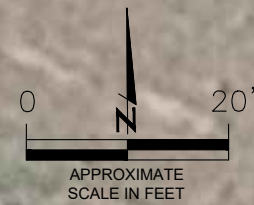


MW-03 @ 5-7.5'
12/6/23
5-7.5'
1-MN = <0.00200
2-MN = <0.00200
Acenaphthene = <0.00200
Anthracene = <0.00200
Benzo(a)anthracene = <0.00500
Benzo(a)pyrene = <0.00200
Benzo(b)fluoranthene = <0.00200
Benzo(k)fluoranthene = <0.00200
Chrysene = <0.00200
Dibenzo(a,h)anthracene = <0.00200
Fluoranthene = <0.00200
Fluorene = <0.00200
Indeno(1,2,3-CD)pyrene = <0.00200
Naphthalene = <0.00200
Pyrene = <0.00200



MW-04 @ 5-7.5'
12/6/23
5-7.5'
1-MN = <0.00200
2-MN = <0.00200
Acenaphthene = <0.00200
Anthracene = <0.00200
Benzo(a)anthracene = <0.00500
Benzo(a)pyrene = <0.00200
Benzo(b)fluoranthene = <0.00200
Benzo(k)fluoranthene = <0.00200
Chrysene = <0.00200
Dibenzo(a,h)anthracene = <0.00200
Fluoranthene = <0.00200
Fluorene = <0.00200
Indeno(1,2,3-CD)pyrene = <0.00200
Naphthalene = <0.00200
Pyrene = <0.00200

MW-05 @ 5-7.5'
12/6/23
5-7.5'
1-MN = <0.00200
2-MN = <0.00200
Acenaphthene = <0.00200
Anthracene = <0.00200
Benzo(a)anthracene = <0.00500
Benzo(a)pyrene = <0.00200
Benzo(b)fluoranthene = <0.00200
Benzo(k)fluoranthene = <0.00200
Chrysene = <0.00200
Dibenzo(a,h)anthracene = <0.00200
Fluoranthene = <0.00200
Fluorene = <0.00200
Indeno(1,2,3-CD)pyrene = <0.00200
Naphthalene = <0.00200
Pyrene = <0.00200



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)
1-MN = 1-Methyl-naphthalene
2-MN = 2-Methyl-naphthalene

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:
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

POLYCYCLIC AROMATIC HYDROCARBONS MAP

PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE¼ NE¼ SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIAL # 23204

FIGURE NO.

4

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
-  APPROXIMATE MONITORING WELL LOCATIONS
- MW-01

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

NOTE:
CONCENTRATIONS PRESENTED IN mg/kg

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

NOTE:
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

***ELEVATED ARSENIC IS NATURALLY OCCURRING IN COLORADO.
THE LOCAL CLEAN UP LEVEL (1.55 mg/kg) IS
1.25*BACKGROUND (1.24 mg/kg).

METALS IN SOIL MAP
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE¼ NE¼ SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

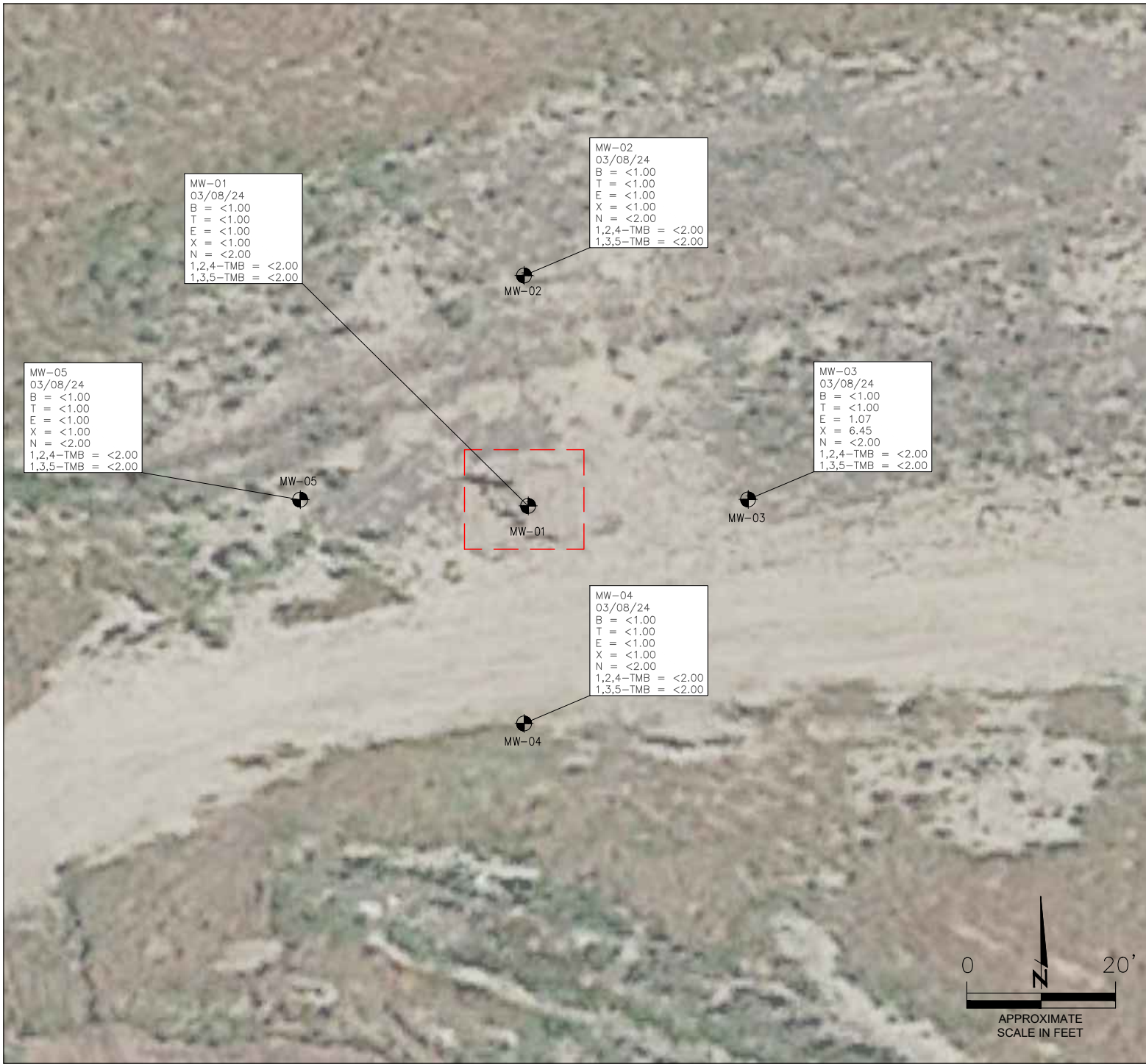
FIGURE NO.
5

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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- ⊙ APPROXIMATE MONITORING WELL LOCATIONS
- MW-01

PARAMETERS

GROUNDWATER SAMPLE LOCATION	
DATE	
B	= BENZENE (µg/L)
T	= TOLUENE (µg/L)
E	= ETHYLBENZENE (µg/L)
X	= TOTAL XYLENES (µg/L)
N	= NAPHTHALENE (µg/L)
1,2,4-TMB	= 1,2,4-TRIMETHYLBENZENE (µg/L)
1,3,5-TMB	= 1,3,5-TRIMETHYLBENZENE (µg/L)

µg/L = MICROGRAMS PER LITER

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

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE 915-1 REGULATORY LIMITS FOR THAT COMPOUND.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

NOP = NOT ON PLAN

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2016

GROUNDWATER ANALYTICAL MAP

(03/08/24)
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204


FIGURE NO.
6

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LEGEND

--- WELLHEAD ASSESSMENT BOUNDARIES
 APPROXIMATE MONITORING WELL LOCATIONS
 MW-01

PARAMETERS

SAMPLE	LOCATION
DATE	
C	= CHLORIDE (mg/L)
S	= SULFATE (mg/L)
TDS	= TOTAL DISSOLVED SOLIDS (mg/L)

mg/L = MICROGRAMS PER LITER

NOTE:
INORGANIC GROUNDWATER SAMPLES WERE COLLECTED
12/14/23.

MW-05 WAS USED IN THE DETERMINATION OF A LOCAL
BACKGROUND LEVEL. THE LOCAL BACKGROUND LIMIT IS
1.25*BACKGROUND.

VALUES PRESENTED IN **BOLD** EXCEED THE ECMC TABLE
915-1 REGULATORY LIMITS FOR THAT COMPOUND

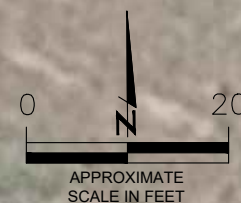
INORGANIC GROUNDWATER PARAMETERS MAP
 (12/14/23)
 PTF #C 32-8
 HISTORICAL RELEASE
 40.270210 / -104.567750
 SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

FIGURE NO.
7

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MW-02
 12/14/23
 C = 236
 S = 1150
 TDS= 2720

MW-02

MW-03
 12/14/23
 C = 374
 S = 1150
 TDS= 2500

MW-03

MW-04
 12/14/23
 C = 522
 S = 959
 TDS= 2730

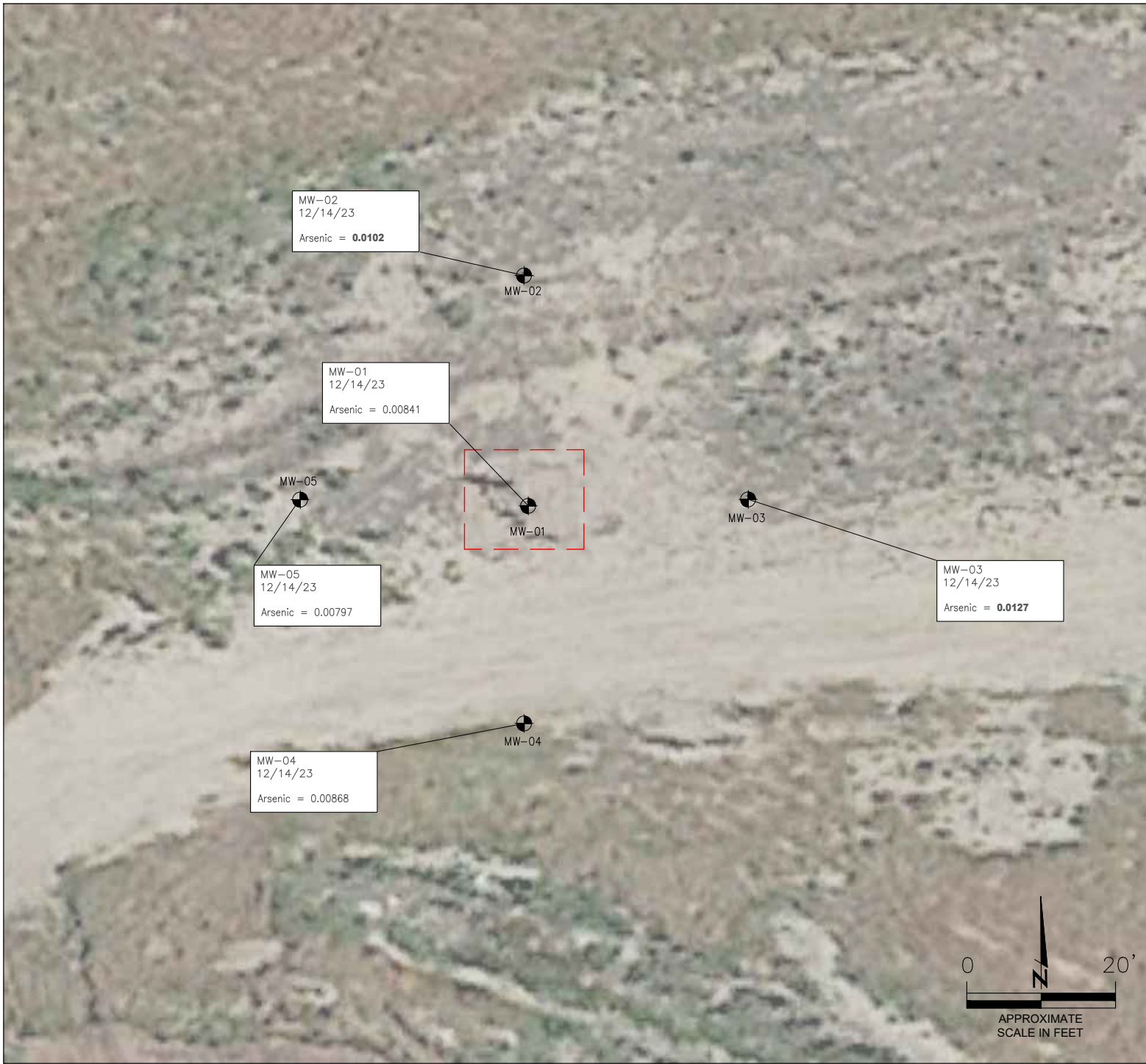
MW-04

MW-05
 12/14/23
 C = 431
 S = 969
 TDS= 2500

MW-05

MW-01
 12/14/23
 C = 483
 S = 1050
 TDS= 2820

MW-01



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE MONITORING WELL LOCATIONS
- MW-01

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
Arsenic = (mg/L)

mg/L = MILLIGRAMS PER LITER

NOTES:
VALUES PRESENTED IN **BOLD** EXCEED CDPHE WQCC
REGULATORY LIMITS

CDPHE WQCC = COLORADO DEPARTMENT OF PUBLIC HEALTH
AND ENVIRONMENT, WATER QUALITY CONTROL COMMISSION

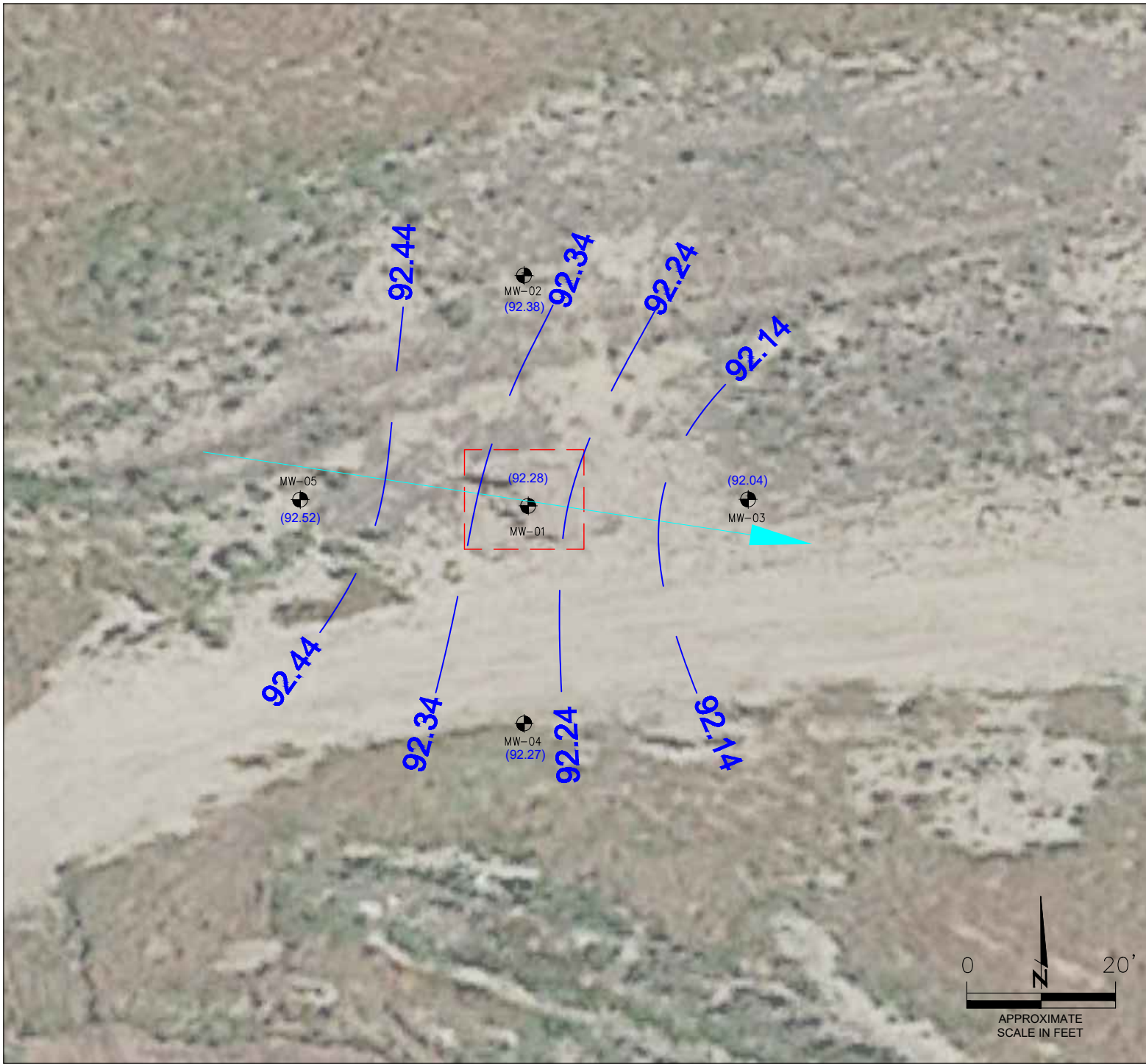
DISSOLVED METALS ANALYTICAL MAP
(12/14/23)
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

FIGURE NO.
8
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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- MW-01 APPROXIMATE MONITORING WELL LOCATIONS
- (89.25) RELATIVE GROUNDWATER ELEVATION (FT.)
- INFERRED GROUNDWATER ELEVATION CONTOUR (FT.)
- APPROXIMATE GROUNDWATER FLOW DIRECTION

FT. = FEET

NOTE:
GROUNDWATER ELEVATION DATA WAS COLLECTED ON 12/14/23.

BACKGROUND: GOOGLE EARTH AERIAL IMAGERY JUNE 2016

GROUNDWATER ELEVATION MAP

(12/14/23)
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

FIGURE NO.
9

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Groundwater Analytical Results Summary

Table 4: Inorganic Groundwater Parameters Summary

Table 5: Dissolved Metals Analytical Results Summary

Table 6: Groundwater Elevation Summary

TABLE 1
 PHOTOIONIZATION DETECTOR READING SUMMARY
 PTF #C 32-8
 HISTORICAL RELEASE
 40.270210 / -104.567750
 SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.270234 / -104.567751)	06/16/22	6	0.6	N
WH-SS-02 @ 6' (40.270217 / -104.567721)	06/16/22	6	0.2	N
WH-SS-03 @ 6' (40.270199 / -104.567751)	06/16/22	6	0.7	N
WH-SS-04 @ 6' (40.270216 / -104.567780)	06/16/22	6	0.6	N
WH-FS-01 @ 7' (40.270216 / -104.567751)	06/16/22	7	0.8	Y
Background-01 @ 3' (40.270267 / -104.567697)	06/16/22	3	0.2	Y
MW-01 @ 5-7.5' (40.270213 / -104.567724)	12/06/23	5-7.5	1.2	Y
MW-02 @ 5-7.5' (40.270306 / -104.567726)	12/06/23	5-7.5	0.6	Y
MW-03 @ 5-7.5' (40.270209 / -104.567616)	12/06/23	5-7.5	0.5	Y
MW-04 @ 5-7.5' (40.270138 / -104.567711)	12/06/23	5-7.5	2.3	Y
MW-05 @ 5-7.5' (40.270210 / -104.567822)	12/06/23	5-7.5	0.9	Y
Background-02 @ 5-7.5' (40.270337 / -104.567935)	12/06/23	5-7.5	0.2	Y
Background-03 @ 5-7.5' (40.270419 / -104.567740)	12/06/23	5-7.5	0.5	Y
Background-04 @ 5-7.5' (40.270029 / -104.567824)	12/06/23	5-7.5	0.1	Y
Background-05 @ 5-7.5' (40.270405 / -104.567533)	12/06/23	5-7.5	0.2	Y
Background-06 @ 5-7.5 (40.270401 / -104.567518)	12/06/23	5-7.5	0.1	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIATION # 23204

Sample Location					WH-FS-01 @ 7'	Background-01 @ 3'	MW-01 @ 5-7.5'	MW-02 @ 5-7.5'	MW-03 @ 5-7.5'	MW-04 @ 5-7.5'	MW-05 @ 5-7.5'
(Latitude / Longitude)					(40.270216 / -104.567751)	(40.270267 / -104.567697)	(40.270213 / -104.567724)	(40.270306 / -104.567726)	(40.270209 / -104.567616)	(40.270138 / -104.567711)	(40.270210 / -104.567822)
Sample Date					6/16/2022	6/16/2022	12/6/2023	12/6/2023	12/6/2023	12/6/2023	12/6/2023
Sample Depth					7'	3'	5-7.5	5-7.5	5-7.5	5-7.5	5-7.5
PID Reading (ppm-v)					0.8	0.2	1.2	0.6	0.5	2.3	0.9
Regulatory Limits											
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level							
VOCS											
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Total Petroleum Hydrocarbons											
TPH-GRO	mg/kg	500	--	--	<0.200	NA	<0.200	<0.200	<0.200	<0.200	<0.200
TPH-DRO	mg/kg	500	--	--	682	NA	<25.0	<25.0	<25.0	<25.0	<25.0
TPH-RRO	mg/kg	500	--	--	2500	NA	<100	<100	<100	<100	<100
Polycyclic Aromatics Hydrocarbons											
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Acenaphthene	mg/kg	360	0.55	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Anthracene	mg/kg	1800	5.8	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00335	NA	<0.00500	<0.00500	<0.00500	<0.00500	<0.00500
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Chrysene	mg/kg	110	9	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Fluoranthene	mg/kg	240	8.9	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Fluorene	mg/kg	240	0.54	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Pyrene	mg/kg	180	1.3	--	<0.00335	NA	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200
Soil Suitability (Inorganics)											
Boron	mg/L	2	--	--	0.588	NA	NA	NA	NA	NA	NA
pH	standard unit	6-8.3	--	--	7.26	NA	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.438	NA	NA	NA	NA	NA	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	1.76	NA	NA	NA	NA	NA	NA
Metals											
Arsenic	mg/kg	0.68***	0.29***	1.55***	1.76***	1.24***	1.20***	1.03***	1.11***	1.55***	0.997***
Barium	mg/kg	15000	82	--	50.1	44.9	NA	NA	NA	NA	NA
Cadmium	mg/kg	71	0.38	--	0.0604	<0.0399	NA	NA	NA	NA	NA
Copper	mg/kg	3100	46	--	17.7	11.7	NA	NA	NA	NA	NA
Lead	mg/kg	400	14	--	10.3	2.80	NA	NA	NA	NA	NA
Nickel	mg/kg	1500	26	--	4.16	4.02	NA	NA	NA	NA	NA
Selenium	mg/kg	390	0.26	--	0.0989	0.0699	NA	NA	NA	NA	NA
Silver	mg/kg	390	0.8	--	0.0127	<0.399	NA	NA	NA	NA	NA
Zinc	mg/kg	23000	370	--	36.4	<39.9	NA	NA	NA	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.251**	NA	NA	NA	NA	NA	NA

ECMC = Energy & Carbon Management Commission
mg/kg = milligrams per kilogram
mmhos/cm = millimhos per centimeter
PID = Photoionization Detector
ppm-v = parts per million by volume
mg/L = milligrams per liter
SAR = Sodium Adsorption Ratio
Notes:
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.
Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits.
**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.
***Arsenic is naturally occurring in Colorado. The Local Clean-up Level (1.55 mg/kg) is 1.25*Background (1.24 mg/kg).

VOCS - Volatile Organic Compounds
RSSLs = Residential Soil Screening Levels
GSSLs = Protection of Groundwater Soil Screening Levels
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics
NA - Not Analyzed

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

Sample Location					Background-02 @ 5-7.5'	Background-03 @ 5-7.5'	Background-04 @ 5-7.5'	Background-05 @ 5-7.5'	Background-06 @ 5-7.5'
(Latitude / Longitude)					(40.270337 / -104.567935)	(40.270419 / -104.567740)	(40.270029 / -104.567824)	(40.270405 / -104.567533)	(40.270401 / -104.567518)
Sample Date					12/6/2023	12/6/2023	12/6/2023	12/6/2023	12/6/2023
Sample Depth					5-7.5	5-7.5	5-7.5	5-7.5	5-7.5
PID Reading (ppm-v)					0.2	0.2	0.2	0.2	0.2
Regulatory Limits									
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level					
VOCs									
Benzene	mg/kg	1.2	0.0026	--	NA	NA	NA	NA	NA
Toluene	mg/kg	490	0.69	--	NA	NA	NA	NA	NA
Ethylbenzene	mg/kg	5.8	0.78	--	NA	NA	NA	NA	NA
Total Xylenes	mg/kg	58	9.9	--	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	NA	NA	NA	NA	NA
Total Petroleum Hydrocarbons									
TPH-GRO	mg/kg	500	--	--	NA	NA	NA	NA	NA
TPH-DRO	mg/kg	500	--	--	NA	NA	NA	NA	NA
TPH-RRO	mg/kg	500	--	--	NA	NA	NA	NA	NA
Polycyclic Aromatics Hydrocarbons									
1-Methyl-naphthalene	mg/kg	18	0.006	--	NA	NA	NA	NA	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	NA	NA	NA	NA	NA
Acenaphthene	mg/kg	360	0.55	--	NA	NA	NA	NA	NA
Anthracene	mg/kg	1800	5.8	--	NA	NA	NA	NA	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	NA	NA	NA	NA	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	NA	NA	NA	NA	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	NA	NA	NA	NA	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	NA	NA	NA	NA	NA
Chrysene	mg/kg	110	9	--	NA	NA	NA	NA	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	NA	NA	NA	NA	NA
Fluoranthene	mg/kg	240	8.9	--	NA	NA	NA	NA	NA
Fluorene	mg/kg	240	0.54	--	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	NA	NA	NA	NA	NA
Naphthalene	mg/kg	2	0.0038	--	NA	NA	NA	NA	NA
Pyrene	mg/kg	180	1.3	--	NA	NA	NA	NA	NA
Soil Suitability (Inorganics)									
Boron	mg/L	2	--	--	NA	NA	NA	NA	NA
pH	standard unit	6-8.3	--	--	NA	NA	NA	NA	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	--	NA	NA	NA	NA	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	NA	NA	NA	NA	NA
Metals									
Arsenic	mg/kg	0.68***	0.29***	1.55***	0.918***	1.25***	1.03***	1.06***	0.951***
Barium	mg/kg	15000	82	--	NA	NA	NA	NA	NA
Cadmium	mg/kg	71	0.38	--	NA	NA	NA	NA	NA
Copper	mg/kg	3100	46	--	NA	NA	NA	NA	NA
Lead	mg/kg	400	14	--	NA	NA	NA	NA	NA
Nickel	mg/kg	1500	26	--	NA	NA	NA	NA	NA
Selenium	mg/kg	390	0.26	--	NA	NA	NA	NA	NA
Silver	mg/kg	390	0.8	--	NA	NA	NA	NA	NA
Zinc	mg/kg	23000	370	--	NA	NA	NA	NA	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA	NA	NA	NA
ECMC = Energy & Carbon Management Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio									
VOCs - Volatile Organic Compounds RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics									
NA - Not Analyzed									

Values presented in **BOLD** exceed ECMC Table 915-1 Regulatory Limits.

**Achievable practical quantitative limits for Hexavalent Chromium in soils is in the range of 0.1 to 1 mg/kg.

***Arsenic is naturally occurring in Colorado. The Local Clean-up Level (1.55 mg/kg) is 1.25*Background (1.24 mg/kg).

TABLE 3
GROUNDWATER ANALYTICAL RESULTS SUMMARY
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDATION # 23204

Sample Location (Latitude/Longitude)	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4- Trimethylbenzene (µg/L)	1,3,5 - Trimethylbenzene (µg/L)
ECMC Table 915-1 Regulatory Limits (µg/L)		5	560	700	1400	140	67	67
MW-01 (40.270213 / -104.567724)	12/14/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-02 (40.270306 / -104.567726)	12/14/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-03 (40.270209 / -104.567616)	12/14/23	<1.00	<1.00	1.07	6.45	<2.00	<2.00	<2.00
MW-04 (40.270138 / -104.567711)	12/14/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
MW-05 (40.270210 / -104.567822)	12/14/23	<1.00	<1.00	<1.00	<1.00	<2.00	<2.00	<2.00
ECMC = Energy & Carbon Management Commission µg/L - micrograms per liter Note: Values presented with a less than symbol (<) indicate concentrations were not observed at or above the laboratory reporting limit. Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.								

TABLE 4
 INORGANIC GROUNDWATER PARAMETERS SUMMARY
 PTF #C 32-8
 HISTORICAL RELEASE
 40.270210 / -104.567750
 SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14879
 REMEDIATION # 23204

Sample Location (Latitude/Longitude)	Date	Chloride (mg/L)	Sulfate (mg/L)	Total Dissolved Solids (mg/L)
ECMC Table 915-1 Regulatory Limits (mg/L)		<1.25xLocal Background (539)	<1.25xLocal Background (1210)	<1.25xLocal Background (3125)
MW-01 (40.270213 / -104.567724)	12/14/23	483	1050	2820
MW-02 (40.270306 / -104.567726)	12/14/23	236	1150	2720
MW-03 (40.270209 / -104.567616)	12/14/23	374	855	2500
MW-04 (40.270138 / -104.567711)	12/14/23	522	959	2730
MW-05 (40.270210 / -104.567822)	12/14/23	431	969	2500
ECMC - Energy & Carbon Management Commission mg/L - milligrams per liter INA - Inaccessible			NS - Not Sampled LNAPL - Light non-aqueous phase liquid	
Notes: The inorganic groundwater parameters from monitoring well MW-05 were used in the determination of "local background" levels at the site. Local "regulatory limit" (1.25*local background) presented (in parentheses).				
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.				

TABLE 5
DISSOLVED METALS ANALYTICAL RESULTS SUMMARY
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIATION # 23204

Sample Location (Latitude/Longitude)	Date	Arsenic (mg/L)
ECMC Table 915-1 Regulatory Limits		--
CDPHE WQCC Regulation 41 Standards		0.01
MW-01 (40.270213 / -104.567724)	12/14/23	0.00841
MW-02 (40.270306 / -104.567726)	12/14/23	0.0102
MW-03 (40.270209 / -104.567616)	12/14/23	0.0127
MW-04 (40.270138 / -104.567711)	12/14/23	0.00868
MW-05 (40.270210 / -104.567822)	12/14/23	0.00797
ECMC = Energy & Carbon Management Commission Environment, Water Quality Control Commission mg/L = milligrams per liter NA = Not Analyzed concentrations at or above the laboratory reporting limit or minimum Regulation 41 Domestic Water Supply - Human Health Standards		

TABLE 6
GROUNDWATER ELEVATION SUMMARY
PTF #C 32-8
HISTORICAL RELEASE
40.270210 / -104.567750
SE 1/4 NE 1/4 SEC.32 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-14879
REMEDIATION # 23204

Sample Location (Latitude/Longitude)	Date	Top of Casing Elevation (feet)	Depth to Groundwater from TOC (feet)	Relative Groundwater Elevation (feet)
MW-01 (40.270213 / -104.567724)	12/14/23	99.62	7.34	92.28
MW-02 (40.270306 / -104.567726)	12/14/23	100	7.62	92.38
MW-03 (40.270209 / -104.567616)	12/14/23	99.68	7.64	92.04
MW-04 (40.270138 / -104.567711)	12/14/23	99.12	6.85	92.27
MW-05 (40.270210 / -104.567822)	12/14/23	99.53	7.01	92.52
NOTES: TOC - top of casing				



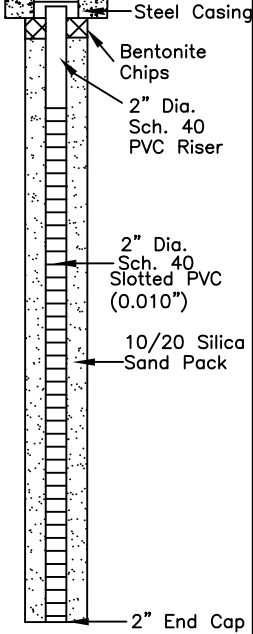
ATTACHMENT A

Boring Logs

Boring Log/Well Completion Diagram:

MW-01

PAGE 1 OF 1

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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	90	1.1	N/A			
						1.1				
5	@7.5' - wet (7.5-10') clayey SAND - brown, wet, loose, fine grained, poorly-graded with ~20% clay, N/O, N/S	DP	2	80	80	1.2	N/A			
						1.0				
10	(10-15') clayey SAND - brown, wet, medium dense, fine grained, poorly-graded with ~30% clay, N/O, N/S	SC	DP	3	80	0.8	N/A			
						0.7				
15	BoB @ 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: 12/06/23

SAND PACK INTERVAL (FEET): 1-15

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #13

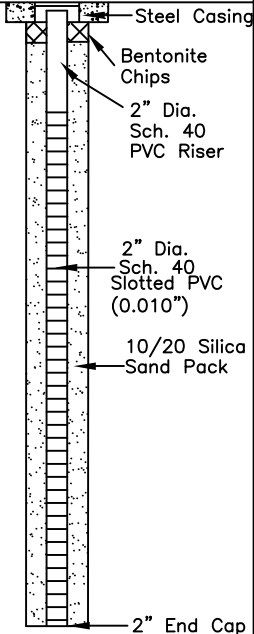
TIME STARTED/COMPLETED: 1100/1115

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1106



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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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	90	0.6	N/A			
						0.5				
5	@7.5' - wet (7.5-10') clayey SAND - brown, wet, loose, fine grained, poorly-graded with ~20% clay, N/O, N/S	DP	2	80		0.6	N/A	5		
						0.5				
10	(10-15') clayey SAND - brown, wet, medium dense, fine grained, poorly-graded with ~30% clay, N/O, N/S	SC	DP	3	70	0.3	N/A	10		
						0.5				
15	BoB @ 15'							15	 <p>Steel Casing Bentonite Chips 2" Dia. Sch. 40 PVC Riser 2" Dia. Sch. 40 Slotted PVC (0.010") 10/20 Silica Sand Pack 2" End Cap</p>	
20								20		
25								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: 12/06/23

SAND PACK INTERVAL (FEET): 1-15

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #13

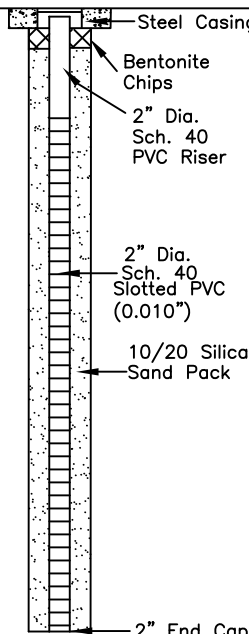
TIME STARTED/COMPLETED: 1230/1305

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1254



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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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	80	0.1	N/A	5			
						0.2					
5	@7.5' - wet (7.5-10') clayey SAND - brown, wet, loose, fine grained, poorly-graded with ~20% clay, N/O, N/S	DP	2	80	0.3	N/A					
					0.3						
10	(10-15') clayey SAND - brown, wet, medium stiff, fine grained, poorly-graded with ~30% clay, N/O, N/S	SC	DP	3	70	0.3	N/A	15			
						0.4					
15	BoB @ 15'										25
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

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: 12/06/23

SAND PACK INTERVAL (FEET): 1-15

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #13

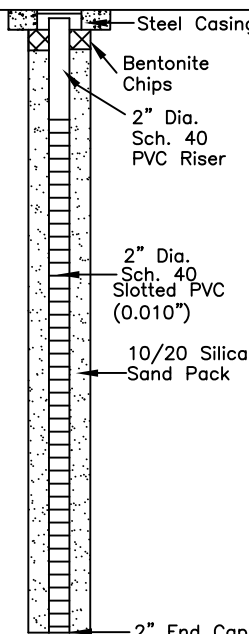
TIME STARTED/COMPLETED: 1400/1422

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1414



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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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	90	2.1	N/A	5		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
5	@7.5' - wet (7.5-10') clayey SAND - brown, wet, loose, fine grained, poorly-graded with ~20% clay, N/O, N/S					DP				
10	(10-15') clayey SAND - brown, wet, medium dense, fine grained, poorly-graded with ~30% clay, N/O, N/S	SC	DP	3	80		0.8	N/A		
15	BoB @ 15'									
20								20		
25								25		
30										

START/COMPLETION DATE: 12/06/23

SAND PACK INTERVAL (FEET): 1-15

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1130/1150

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1141



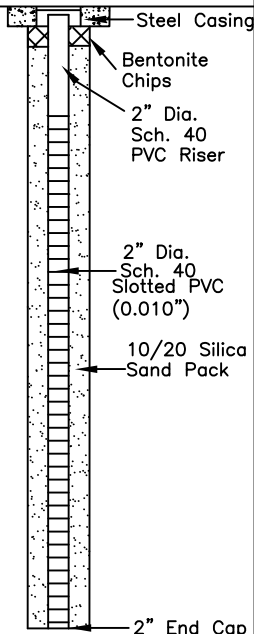
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Boring Log/Well Completion Diagram:

MW-05

PAGE 1 OF 1

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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	70	0.6	N/A	5	 <p>Steel Casing Bentonite Chips 2" Dia. Sch. 40 PVC Riser 2" Dia. Sch. 40 Slotted PVC (0.010") 10/20 Silica Sand Pack 2" End Cap</p>	
5	@7.5' - wet (7.5-10') clayey SAND - brown, wet, loose, fine grained, poorly-graded with ~20% clay, N/O, N/S					0.2				
10	(10-15') clayey SAND - brown, wet, medium dense, fine grained, poorly-graded with ~30% clay, N/O, N/S	SC	DP	2	70	0.9	N/A	10		
15	BoB @ 15'					0.7				
20						0.8	N/A	25		
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: 12/06/23

SAND PACK INTERVAL (FEET): 1-15

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): 0.5-1

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): 2.5-15

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): 2

BORING DEPTH (FEET): 15

WELL DEPTH (FEET): 15

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1155/1208

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1202



EAGLE
ENVIRONMENTAL
CONSULTING, LLC.

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Boring Log/Well Completion Diagram:

BG-02

PAGE 1 OF 1

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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	90	0.4	N/A			
						0.5				
5			DP	2	70	0.6	N/A	5		
	@7.5' - wet									
	BoB @ 7.5'									
10								10		
15								15		
20								20		
25								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: 12/06/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 7.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1217/1228

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1226



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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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	70	1.2	N/A			
						0.6				
5	@7.5' - wet		DP	2	70	1.2	N/A	5		
	BoB @ 7.5'									
10								10		
15								15		
20								20		
25								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: 12/06/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 7.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1308/1320

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1320



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Boring Log/Well Completion Diagram:

BG-04

PAGE 1 OF 1

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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	90	0.6	N/A			
						0.5				
5			DP	2	90	0.7	N/A	5		
	@7.5' - wet									
	BoB @ 7.5'									
10								10		
15								15		
20								20		
25								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: 12/06/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 7.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1325/1335

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1333



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 ENVIRONMENTAL
 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	RECOVERY %					
0	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	90	0.9	N/A			
						0.5				
5		DP		2	90	1.0	N/A	5		
	@7.5' - wet									
	BoB @ 7.5'									
10								10		
15								15		
20								20		
25								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: 12/06/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 7.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1342/1350

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1349



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Boring Log/Well Completion Diagram:

BG-06

PAGE 1 OF 1

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	(0-7.5') silty SAND - tan, dry to wet, medium dense, fine to medium grain, moderately-graded with ~15% silt, N/O, N/S	SM	DP	1	80	0.6	N/A			
						0.2				
5			DP	2	90	0.5	N/A	5		
	@7.5' - wet									
	BoB @ 7.5'									
10								10		
15								15		
20								20		
25								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: 12/06/23

SAND PACK INTERVAL (FEET): N/A

PROJECT: PTF #C 32-8

BENTONITE/GROUT INTERVAL (FEET): N/A

LOGGED BY: S. LEIVO / I. MCFARLAND

WELL SCREEN INTERVAL (FEET): N/A

DRILLING COMPANY/EQUIPMENT: EAGLE/GEOPROBE

WELL DIAMETER (INCHES): N/A

BORING DEPTH (FEET): 7.5

WELL DEPTH (FEET): N/A

PID INSTRUMENT: MiniRAE 3000 - PID #13

TIME STARTED/COMPLETED: 1353/1404

SAMPLE COLLECTION DEPTH (FT.)/TIME: 5-7.5/1402



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



January 10, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. December 06, 2023. This project is associated with Origins project number Y312190-01.

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 - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-02@5-7.5'	Y312190-01	Soil	December 6, 2023 12:26	12/06/2023 17:05
Background-03@5-7.5'	Y312190-02	Soil	December 6, 2023 13:20	12/06/2023 17:05
Background-04@5-7.5'	Y312190-03	Soil	December 6, 2023 13:33	12/06/2023 17:05
Background-05@5-7.5'	Y312190-04	Soil	December 6, 2023 13:49	12/06/2023 17:05
Background-06@5-7.5'	Y312190-05	Soil	December 6, 2023 14:02	12/06/2023 17:05

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 - PTF #C 32-8

www.originslaboratory.com

312190

ORIGINS
LABORATORY, INC

page 1 of 1

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Telephone Number: 303-433-0479
Email Address: newberry@eagle-environment.com

Project Manager: Andrew Newberry
Project Name: PTF HC 32-8
Project Number: -
Samples Collected By: JA/SL

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis		Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ #	Other	Ascaric	60205	
Background-02-05-75'	12/6/23	1226	3	X				X					X	1
Background-03-05-75'		1320												2
Background-04-05-75'		1333												3
Background-05-05-75'		1349												4
Background-06-05-75'		1402												5
														6
														7
														8
														9
														10
Relinquished By: <u>Andrew Newberry</u>	Date: <u>12/6/23</u>	Time: <u>1705</u>		Received By: <u>JA</u>	Date: <u>12/6/23</u>	Time: <u>PTD</u>	Turnaround Time: <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:		Received By:	Date:	Time:								

Date Results Needed: Noble

Temp Received: 2.5

Ball to Dan

Origins Laboratory, Inc.

Bynon

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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 432140

Client: Eagle

Client Project ID: PTFC 32-8

Checklist Completed by: ETS

Shipped Via: HO

Date/time completed: 12/6/23

(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 12.5 °C 1 °C 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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, ZnAs+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<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 12/8/23

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 - PTF #C 32-8

Background-02@5-7.5'
12/6/2023 12:26:00PM

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

Waypoint Analytical, LLC.
Y312190-01 (Soil)

Total Metals by 6020B

Arsenic	0.918	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024
---------	-------	--------	------	-------	---	---------	------------	------------

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 - PTF #C 32-8

Background-03@5-7.5'

12/6/2023 1:20:00PM

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

Waypoint Analytical, LLC.
Y312190-02 (Soil)

Total Metals by 6020B

Arsenic	1.25	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024	
---------	------	--------	------	-------	---	---------	------------	------------	--

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 - PTF #C 32-8

Background-04@5-7.5'

12/6/2023 1:33:00PM

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

Waypoint Analytical, LLC.
Y312190-03 (Soil)

Total Metals by 6020B

Arsenic	1.03	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024
---------	------	--------	------	-------	---	---------	------------	------------

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 - PTF #C 32-8

Background-05@5-7.5'

12/6/2023 1:49:00PM

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

Waypoint Analytical, LLC.
Y312190-04 (Soil)

Total Metals by 6020B

Arsenic	1.06	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024	
---------	------	--------	------	-------	---	---------	------------	------------	--

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 - PTF #C 32-8

Background-06@5-7.5'

12/6/2023 2:02:00PM

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

Waypoint Analytical, LLC.
Y312190-05 (Soil)

Total Metals by 6020B

Arsenic	0.951	0.0855	0.25	mg/Kg	5	L723529	12/19/2023	01/06/2024
---------	-------	--------	------	-------	---	---------	------------	------------

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 - PTF #C 32-8

Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L723529 - 3050B										
MSD (L 88038-MSD-L723529)		Source: 88038			Prepared: 12/19/2023 Analyzed: 01/09/2024					
Arsenic	3.61	0.25	mg/Kg dry	2.38	1.78	77	75-125	3.2	80	
MS (L 88038-MS-L723529)		Source: 88038			Prepared: 12/19/2023 Analyzed: 01/09/2024					
Arsenic	3.73	0.25	mg/Kg dry	2.38	1.78	82	75-125			
LCS (LCS-L723529)					Prepared: 12/19/2023 Analyzed: 01/06/2024					
Arsenic	2.19	0.25	mg/Kg	2.5		88	80-120			
LRB (LRB-L723529)					Prepared: 12/19/2023 Analyzed: 01/06/2024					
Arsenic	0.0879	0.25	mg/Kg				-			J

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 - PTF #C 32-8

Notes and Definitions

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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



December 28, 2023

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. December 06, 2023. This project is associated with Origins project number Y312193-01.

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 - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01@5-7.5'	Y312193-01	Soil	December 6, 2023 11:06	12/06/2023 17:05
MW-02@5-7.5'	Y312193-02	Soil	December 6, 2023 12:54	12/06/2023 17:05
MW-03@5-7.5'	Y312193-03	Soil	December 6, 2023 14:14	12/06/2023 17:05
MW-04@5-7.5'	Y312193-04	Soil	December 6, 2023 11:41	12/06/2023 17:05
MW-05@5-7.5'	Y312193-05	Soil	December 6, 2023 12:02	12/06/2023 17:05

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 - PTF #C 32-8

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4312193

Client: Eagle

Client Project ID: PTF C 32-8

Checklist Completed by: EHS

Shipped Via: HO

Date/time completed: 12/10/12

(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 12.5 °C 1 °C 1 °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⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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 12/18/12

Origins Laboratory, Inc.

[Signature]

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-01@5-7.5'

12/6/2023 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0815	12/08/2023	12/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 84.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1215	12/12/2023	12/13/2023	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 106 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 90.6 % 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 - PTF #C 32-8

MW-01@5-7.5'

12/6/2023 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-01 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L1210	12/12/2023	12/14/2023	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 (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
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	97.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	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 - PTF #C 32-8

MW-01@5-7.5'

12/6/2023 11:06:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312193-01 (Soil)

Total Metals by 6020B

Arsenic	1.2	0.0855	0.25	mg/Kg	5	L722333	12/13/2023	12/24/2023
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-02@5-7.5'

12/6/2023 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0815	12/08/2023	12/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	77.4 %	50-150	"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1215	12/12/2023	12/13/2023	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	117 %	70-130	"	"	"
Surrogate: Toluene-d8	98.7 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.2 %	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 - PTF #C 32-8

MW-02@5-7.5'

12/6/2023 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-02 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L1210	12/12/2023	12/14/2023	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 (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
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.1 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	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 - PTF #C 32-8

MW-02@5-7.5'

12/6/2023 12:54:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312193-02 (Soil)

Total Metals by 6020B

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
Arsenic	1.03	0.0855	0.25	mg/Kg	5	L722333	12/13/2023	12/24/2023	

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 - PTF #C 32-8

MW-03@5-7.5'
12/6/2023 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0815	12/08/2023	12/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 86.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1215	12/12/2023	12/13/2023	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 106 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 89.4 % 70-130 " " "

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-03@5-7.5'
12/6/2023 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-03 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L1210	12/12/2023	12/14/2023	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 (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
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	107 %	60-130	"	"	"
Surrogate: Anthracene-d10	97.4 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.9 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	103 %	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 - PTF #C 32-8

MW-03@5-7.5'

12/6/2023 2:14:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312193-03 (Soil)

Total Metals by 6020B

Arsenic	1.11	0.0855	0.25	mg/Kg	5	L722333	12/13/2023	12/24/2023
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-04@5-7.5'

12/6/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0815	12/08/2023	12/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 81.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1215	12/12/2023	12/13/2023	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 108 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 88.6 % 70-130 " " "

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-04@5-7.5'

12/6/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-04 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L1210	12/12/2023	12/14/2023	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 (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
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	99.3 %	60-130	"	"	"
Surrogate: Pyrene-d10	99.5 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	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 - PTF #C 32-8

MW-04@5-7.5'

12/6/2023 11:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312193-04 (Soil)

Total Metals by 6020B

Arsenic	1.55	0.0855	0.25	mg/Kg	5	L722333	12/13/2023	12/24/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-05@5-7.5'

12/6/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3L0815	12/08/2023	12/12/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 82.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3L1215	12/12/2023	12/13/2023	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 108 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 89.5 % 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 - PTF #C 32-8

MW-05@5-7.5'

12/6/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312193-05 (Soil)

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B3L1210	12/12/2023	12/14/2023	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 (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
Pyrene	ND	0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	106 %	60-130	"	"	"
Surrogate: Anthracene-d10	96.9 %	60-130	"	"	"
Surrogate: Pyrene-d10	98.4 %	60-130	"	"	"
Surrogate: Benzo (a) pyrene-d12	102 %	60-130	"	"	"

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-05@5-7.5'

12/6/2023 12:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y312193-05 (Soil)

Total Metals by 6020B

Arsenic	0.997	0.0855	0.25	mg/Kg	5	L722333	12/13/2023	12/24/2023
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L0815 - EPA 3550B										
Blank (B3L0815-BLK1)					Prepared: 12/08/2023 Analyzed: 12/12/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		71.5	50-150			

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L0815 - EPA 3550B										
LCS (B3L0815-BS1)					Prepared: 12/08/2023 Analyzed: 12/12/2023					
Diesel (C10-C28)	832	50.0	mg/kg	1000		83.2	70-130			
Residual Range Organics (C28-C40)	883	200	"	1000		88.3	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.2	50-150			

Origins Laboratory, Inc.



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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L0815 - EPA 3550B										
Matrix Spike (B3L0815-MS1)		Source: Y312166-01			Prepared: 12/08/2023 Analyzed: 12/12/2023					
Diesel (C10-C28)	899	50.0	mg/kg	1000	ND	89.9	70-130			
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.5	50-150			

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8000 W 44th Ave
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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L0815 - EPA 3550B										
Matrix Spike Dup (B3L0815-MSD1)		Source: Y312166-01			Prepared: 12/08/2023 Analyzed: 12/12/2023					
Diesel (C10-C28)	872	50.0	mg/kg	1000	ND	87.2	70-130	3.08	35	
Residual Range Organics (C28-C40)	948	200	"	1000	ND	94.8	70-130	2.87	35	
Surrogate: o-Terphenyl	44		"	49.8		87.8	50-150			

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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L1215 - EPA 5030 (soil)										
Blank (B3L1215-BLK1)					Prepared: 12/12/2023 Analyzed: 12/12/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125	107		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	107		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	88.8		70-130			

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Wheat Ridge CO 80033

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1215 - EPA 5030 (soil)										
LCS (B3L1215-BS1)					Prepared: 12/12/2023 Analyzed: 12/12/2023					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100		108	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.119	0.00200	"	0.100		119	70-130			
o-Xylene	0.0968	0.00200	"	0.100		96.8	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		83.1	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 - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1215 - EPA 5030 (soil)										
Matrix Spike (B3L1215-MS1)		Source: Y312166-01			Prepared: 12/12/2023 Analyzed: 12/13/2023					
1,2,4-Trimethylbenzene	0.0737	0.00200	mg/kg	0.100	ND	73.7	70-130			
1,3,5-Trimethylbenzene	0.0739	0.00200	"	0.100	ND	73.9	70-130			
Benzene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
Ethylbenzene	0.0780	0.00200	"	0.100	ND	78.0	70-130			
Naphthalene	0.0734	0.00380	"	0.100	ND	73.4	70-130			
Toluene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
o-Xylene	0.0727	0.00200	"	0.100	ND	72.7	70-130			
m,p-Xylene	0.159	0.00400	"	0.200	ND	79.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.5	70-130			

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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1215 - EPA 5030 (soil)										
Matrix Spike Dup (B3L1215-MSD1)					Source: Y312166-01					Prepared: 12/12/2023 Analyzed: 12/12/2023
1,2,4-Trimethylbenzene	0.0754	0.00200	mg/kg	0.100	ND	75.4	70-130	2.28	20	
1,3,5-Trimethylbenzene	0.0752	0.00200	"	0.100	ND	75.2	70-130	1.66	20	
Benzene	0.0878	0.00200	"	0.100	ND	87.8	70-130	1.91	20	
Ethylbenzene	0.0788	0.00200	"	0.100	ND	78.8	70-130	1.12	20	
Naphthalene	0.0719	0.00380	"	0.100	ND	71.9	70-130	2.01	20	
Toluene	0.0931	0.00200	"	0.100	ND	93.1	70-130	4.50	20	
o-Xylene	0.0764	0.00200	"	0.100	ND	76.4	70-130	4.96	20	
m,p-Xylene	0.158	0.00400	"	0.200	ND	79.2	70-130	0.466	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.1	70-130			

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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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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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 B3L1210 - EPA 3580

Blank (B3L1210-BLK1)

Prepared: 12/12/2023 Analyzed: 12/14/2023

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	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	200		"	200		98.0	60-130			
Surrogate: Pyrene-d10	190		"	200		95.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		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 - PTF #C 32-8

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 B3L1210 - EPA 3580

LCS (B3L1210-BS1)

Prepared: 12/12/2023 Analyzed: 12/14/2023

1-Methylnaphthalene	0.210	0.002	mg/kg	0.200		105	70-130
2-Methylnaphthalene	0.206	0.002	"	0.200		103	70-130
Acenaphthene	0.198	0.020	"	0.200		99.1	70-130
Anthracene	0.172	0.020	"	0.200		85.8	70-130
Benzo (a) anthracene	0.187	0.005	"	0.200		93.7	70-130
Benzo (a) pyrene	0.202	0.020	"	0.200		101	70-130
Benzo (b) fluoranthene	0.187	0.020	"	0.200		93.7	70-130
Benzo (g,h,i) perylene	0.207	0.020	"	0.200		103	70-130
Benzo (k) fluoranthene	0.165	0.020	"	0.200		82.6	70-130
Chrysene	0.178	0.020	"	0.200		88.9	70-130
Dibenz (a,h) anthracene	0.201	0.020	"	0.200		100	70-130
Fluoranthene	0.203	0.020	"	0.200		101	70-130
Fluorene	0.203	0.020	"	0.200		102	70-130
Indeno (1,2,3-cd) pyrene	0.222	0.020	"	0.200		111	70-130
Naphthalene	0.199	0.002	"	0.200		99.5	70-130
Phenanthrene	0.185	0.020	"	0.200		92.7	70-130
Pyrene	0.185	0.020	"	0.200		92.4	70-130

Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130
Surrogate: Anthracene-d10	190		"	200		96.2	60-130
Surrogate: Pyrene-d10	190		"	200		95.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B3L1210-MS1)

Source: Y312193-01

Prepared: 12/12/2023 Analyzed: 12/14/2023

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130
2-Methylnaphthalene	0.199	0.002	"	0.200	ND	99.6	70-130
Acenaphthene	0.194	0.020	"	0.200	ND	96.9	70-130
Anthracene	0.171	0.020	"	0.200	ND	85.6	70-130

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8000 W 44th Ave
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Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L1210 - EPA 3580

Matrix Spike (B3L1210-MS1)		Source: Y312193-01			Prepared: 12/12/2023 Analyzed: 12/14/2023					
Benzo (a) anthracene	0.188	0.005	mg/kg	0.200	ND	94.0	70-130			
Benzo (a) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Benzo (b) fluoranthene	0.178	0.020	"	0.200	ND	89.0	70-130			
Benzo (g,h,i) perylene	0.203	0.020	"	0.200	ND	101	70-130			
Benzo (k) fluoranthene	0.167	0.020	"	0.200	ND	83.4	70-130			
Chrysene	0.173	0.020	"	0.200	ND	86.4	70-130			
Dibenz (a,h) anthracene	0.197	0.020	"	0.200	ND	98.3	70-130			
Fluoranthene	0.198	0.020	"	0.200	ND	98.9	70-130			
Fluorene	0.212	0.020	"	0.200	ND	106	70-130			
Indeno (1,2,3-cd) pyrene	0.216	0.020	"	0.200	ND	108	70-130			
Naphthalene	0.194	0.002	"	0.200	ND	97.0	70-130			
Phenanthrene	0.184	0.020	"	0.200	ND	91.8	70-130			
Pyrene	0.177	0.020	"	0.200	ND	88.6	70-130			
Surrogate: Fluorene-d10	220		ug/kg	200		108	60-130			
Surrogate: Anthracene-d10	200		"	200		97.8	60-130			
Surrogate: Pyrene-d10	190		"	200		94.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Matrix Spike Dup (B3L1210-MSD1)		Source: Y312193-01			Prepared: 12/12/2023 Analyzed: 12/14/2023					
1-Methylnaphthalene	0.209	0.002	mg/kg	0.200	ND	105	70-130	4.52	20	
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.3	70-130	7.65	20	
Acenaphthene	0.203	0.020	"	0.200	ND	102	70-130	4.88	20	
Anthracene	0.186	0.020	"	0.200	ND	93.0	70-130	8.31	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	ND	100	70-130	6.11	20	
Benzo (a) pyrene	0.207	0.020	"	0.200	ND	103	70-130	0.249	20	
Benzo (b) fluoranthene	0.188	0.020	"	0.200	ND	94.1	70-130	5.59	20	
Benzo (g,h,i) perylene	0.215	0.020	"	0.200	ND	107	70-130	5.70	20	

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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 B3L1210 - EPA 3580

Matrix Spike Dup (B3L1210-MSD1)		Source: Y312193-01			Prepared: 12/12/2023 Analyzed: 12/14/2023					
Benzo (k) fluoranthene	0.167	0.020	mg/kg	0.200	ND	83.3	70-130	0.130	20	
Chrysene	0.182	0.020	"	0.200	ND	91.0	70-130	5.22	20	
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	102	70-130	4.05	20	
Fluoranthene	0.208	0.020	"	0.200	ND	104	70-130	4.97	20	
Fluorene	0.226	0.020	"	0.200	ND	113	70-130	6.70	20	
Indeno (1,2,3-cd) pyrene	0.235	0.020	"	0.200	ND	118	70-130	8.43	20	
Naphthalene	0.205	0.002	"	0.200	ND	102	70-130	5.25	20	
Phenanthrene	0.194	0.020	"	0.200	ND	96.9	70-130	5.43	20	
Pyrene	0.188	0.020	"	0.200	ND	94.1	70-130	6.02	20	
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130			
Surrogate: Anthracene-d10	190		"	200		95.8	60-130			
Surrogate: Pyrene-d10	190		"	200		94.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Total Metals by 6020B - Quality Control Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L722333 - 3050B										
MSD (L 89896-MSD-L722333)		Source: 89896			Prepared: 12/13/2023 Analyzed: 12/24/2023					
Arsenic	3.02	0.25	mg/Kg	2.36	0.909	90	75-125	3.5	80	
MS (L 89896-MS-L722333)		Source: 89896			Prepared: 12/13/2023 Analyzed: 12/24/2023					
Arsenic	3.13	0.25	mg/Kg	2.3	0.909	96	75-125			
LCS (LCS-L722333)					Prepared: 12/13/2023 Analyzed: 12/24/2023					
Arsenic	2.41	0.25	mg/Kg	2.5		96	80-120			
LRB (LRB-L722333)					Prepared: 12/13/2023 Analyzed: 12/24/2023					
Arsenic	ND	0.25	mg/Kg							

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.



January 02, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. December 14, 2023. This project is associated with Origins project number Y312468-01.

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 - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312468-01	Water	December 14, 2023 11:25	12/14/2023 16:16
MW-02	Y312468-02	Water	December 14, 2023 11:45	12/14/2023 16:16
MW-03	Y312468-03	Water	December 14, 2023 12:00	12/14/2023 16:16
MW-04	Y312468-04	Water	December 14, 2023 12:16	12/14/2023 16:16
MW-05	Y312468-05	Water	December 14, 2023 12:30	12/14/2023 16:16

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 - PTF #C 32-8

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V312468 Client: Eagle
Client Project ID: PTF #C 32-8

Checklist Completed by: SG/CHS Shipped Via: FD
Date/time completed: 12/15/23 (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, 6.0 °C °C °C (Describe) °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NC
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 12/16/23

Origins Laboratory, Inc.

J. Bynon

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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-01

12/14/2023 11:25:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312468-01 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	91.3 %	70-130	"	"	"
Surrogate: Toluene-d8	99.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	92.3 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-02

12/14/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312468-02 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130	"	"	"
Surrogate: Toluene-d8	99.5 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.9 %	70-130	"	"	"

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-03

12/14/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312468-03 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	1.07	1.00	"	"	"	JSM	"	"	
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	6.45	1.00	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4
Surrogate: Toluene-d8
Surrogate: 4-Bromofluorobenzene

90.2 % 70-130
100 % 70-130
91.3 % 70-130

" " "
" " "
" " "

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-04

12/14/2023 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312468-04 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130	"	"	"
Surrogate: Toluene-d8	98.2 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	91.8 %	70-130	"	"	"

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-05

12/14/2023 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312468-05 (Water)

BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B3L1607	JSM	12/16/2023	12/20/2023	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	JSM	"	"	U
Benzene	ND	1.00	"	"	"	JSM	"	"	U
Ethylbenzene	ND	1.00	"	"	"	JSM	"	"	U
Naphthalene	ND	2.00	"	"	"	JSM	"	"	U
Toluene	ND	1.00	"	"	"	JSM	"	"	U
Xylenes, total	ND	1.00	"	"	"	JSM	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130	"	"	"
Surrogate: Toluene-d8	98.3 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	90.2 %	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 - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1607 - EPA 5030B (Water)										
Blank (B3L1607-BLK1)					Prepared: 12/16/2023 Analyzed: 12/20/2023					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	58		"	62.5		93.4	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.8	70-130			

Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1607 - EPA 5030B (Water)										
LCS (B3L1607-BS1)					Prepared: 12/16/2023 Analyzed: 12/20/2023					
1,2,4-Trimethylbenzene	52.1	2.00	ug/L	50.0		104	70-130			
1,3,5-Trimethylbenzene	51.7	2.00	"	50.0		103	70-130			
Benzene	50.9	1.00	"	50.0		102	70-130			
Ethylbenzene	48.6	1.00	"	50.0		97.2	70-130			
m,p-Xylene	103	2.00	"	100		103	70-130			
Naphthalene	54.7	2.00	"	50.0		109	70-130			
o-Xylene	49.9	1.00	"	50.0		99.9	70-130			
Toluene	49.1	1.00	"	50.0		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.5	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.3	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 - PTF #C 32-8

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1607 - EPA 5030B (Water)										
Matrix Spike (B3L1607-MS1)		Source: Y312468-01			Prepared: 12/16/2023 Analyzed: 12/20/2023					
1,2,4-Trimethylbenzene	51.2	2.00	ug/L	50.0	ND	102	70-130			
1,3,5-Trimethylbenzene	51.1	2.00	"	50.0	ND	102	70-130			
Benzene	56.1	1.00	"	50.0	ND	112	70-130			
Ethylbenzene	48.4	1.00	"	50.0	ND	96.8	70-130			
m,p-Xylene	98.0	2.00	"	100	ND	98.0	70-130			
Naphthalene	51.4	2.00	"	50.0	ND	103	70-130			
o-Xylene	45.2	1.00	"	50.0	ND	90.4	70-130			
Toluene	50.6	1.00	"	50.0	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		89.2	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.4	70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1607 - EPA 5030B (Water)										
Matrix Spike Dup (B3L1607-MSD1)		Source: Y312468-01			Prepared: 12/16/2023 Analyzed: 12/20/2023					
1,2,4-Trimethylbenzene	50.7	2.00	ug/L	50.0	ND	101	70-130	1.02	20	
1,3,5-Trimethylbenzene	50.4	2.00	"	50.0	ND	101	70-130	1.34	20	
Benzene	55.0	1.00	"	50.0	ND	110	70-130	1.91	20	
Ethylbenzene	48.3	1.00	"	50.0	ND	96.5	70-130	0.310	20	
m,p-Xylene	97.9	2.00	"	100	ND	97.9	70-130	0.184	20	
Naphthalene	52.4	2.00	"	50.0	ND	105	70-130	2.04	20	
o-Xylene	45.0	1.00	"	50.0	ND	90.0	70-130	0.444	20	
Toluene	49.7	1.00	"	50.0	ND	99.5	70-130	1.69	20	
Surrogate: 1,2-Dichloroethane-d4	56		"	62.5		90.0	70-130			
Surrogate: Toluene-d8	59		"	62.5		95.0	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.6	70-130			

Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Notes and Definitions

U Sample is Non-Detect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



January 02, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. December 14, 2023. This project is associated with Origins project number Y312471-01.

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 - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312471-01	Water	December 14, 2023 11:25	12/14/2023 16:16
MW-02	Y312471-02	Water	December 14, 2023 11:45	12/14/2023 16:16
MW-03	Y312471-03	Water	December 14, 2023 12:00	12/14/2023 16:16
MW-04	Y312471-04	Water	December 14, 2023 12:16	12/14/2023 16:16
MW-05	Y312471-05	Water	December 14, 2023 12:30	12/14/2023 16:16

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 - PTF #C 32-8

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y312471

Client: Eagle

Client Project ID: PTF C 32-8

Checklist Completed by: JG/KHS

Shipped Via: HD

Date/time completed: 12/15/23

Airbill #: N/A

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

Cooler Number/Temperature: 1160 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: 100

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity) / (pH < 2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date, time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager): [Signature] Date/Time Reviewed: 12/18/23

Origins Laboratory, Inc.

J. Bynon

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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-01

12/14/2023 11:25:00AM

Analyte	Result	Reporting		Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
		Limit								

Origins Laboratory, Inc.
Y312471-01 (Water)

Anions by IC 300.0

Chloride	483	31.2	mg/L	125	B3L2003	ACC	12/20/2023	12/22/2023
Sulfate	1050	31.2	"	"	"	ACC	"	"

Total Dissolved Solids by 2540C

Total Dissolved Solids	2820	5.00	"	1	B3L1533	KRM	12/15/2023	12/20/2023
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-02

12/14/2023 11:45:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312471-02 (Water)

Anions by IC 300.0

Chloride	236	31.2	mg/L	125	B3L2003	ACC	12/20/2023	12/22/2023	
Sulfate	1150	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2720	5.00	"	1	B3L1533	KRM	12/15/2023	12/20/2023	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-03

12/14/2023 12:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312471-03 (Water)

Anions by IC 300.0

Chloride	374	31.2	mg/L	125	B3L2003	ACC	12/20/2023	12/22/2023	
Sulfate	855	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2500	5.00	"	1	B3L1533	KRM	12/15/2023	12/20/2023	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-04

12/14/2023 12:16:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y312471-04 (Water)

Anions by IC 300.0

Chloride	522	31.2	mg/L	125	B3L2003	ACC	12/20/2023	12/22/2023	
Sulfate	959	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2730	5.00	"	1	B3L1533	KRM	12/15/2023	12/20/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-05

12/14/2023 12:30:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc. Y312471-05 (Water)

Anions by IC 300.0

Chloride	431	31.2	mg/L	125	B3L2003	ACC	12/20/2023	12/22/2023	
Sulfate	969	31.2	"	"	"	ACC	"	"	

Total Dissolved Solids by 2540C

Total Dissolved Solids	2500	5.00	"	1	B3L1533	KRM	12/15/2023	12/20/2023	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3L1533 - NO PREP										
Blank (B3L1533-BLK1)					Prepared: 12/15/2023 Analyzed: 12/20/2023					
Total Dissolved Solids	ND	5.00	mg/L							
LCS (B3L1533-BS1)					Prepared: 12/15/2023 Analyzed: 12/20/2023					
Total Dissolved Solids	1060	5.00	mg/L	1090		97.2	90-110			
Duplicate (B3L1533-DUP1)					Source: Y312459-21 Prepared: 12/15/2023 Analyzed: 12/20/2023					
Total Dissolved Solids	2270	5.00	mg/L		2290			0.614	10	
Batch B3L2003 - Filter .45um non acidified										
Blank (B3L2003-BLK1)					Prepared: 12/20/2023 Analyzed: 12/22/2023					
Chloride	ND	0.250	mg/L							
Sulfate	ND	0.250	"							
LCS (B3L2003-BS1)					Prepared: 12/20/2023 Analyzed: 12/22/2023					
Chloride	3.99	0.250	mg/L	4.00		99.8	90-110			
Sulfate	4.01	0.250	"	4.00		100	90-110			
Matrix Spike (B3L2003-MS1)					Source: Y312478-04 Prepared: 12/20/2023 Analyzed: 12/22/2023					
Chloride	550		mg/L	500	53.4	99.4	90-110			
Sulfate	820		"	500	301	104	90-110			
Matrix Spike Dup (B3L2003-MSD1)					Source: Y312478-04 Prepared: 12/20/2023 Analyzed: 12/22/2023					
Chloride	554		mg/L	500	53.4	100	90-110	0.548	5	
Sulfate	819		"	500	301	104	90-110	0.0519	5	

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 - PTF #C 32-8

Notes and Definitions

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.



May 06, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - PTF #C 32-8

Project Number - -

Attached are your analytical results for Noble - PTF #C 32-8 received by Origins Laboratory, Inc. December 14, 2023. This project is associated with Origins project number Y312472-01.

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 - PTF #C 32-8

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-01	Y312472-01	Water	December 14, 2023 11:25	12/14/2023 16:16
MW-02	Y312472-02	Water	December 14, 2023 11:45	12/14/2023 16:16
MW-03	Y312472-03	Water	December 14, 2023 12:00	12/14/2023 16:16
MW-04	Y312472-04	Water	December 14, 2023 12:16	12/14/2023 16:16
MW-05	Y312472-05	Water	December 14, 2023 12:30	12/14/2023 16:16

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 - PTF #C 32-8

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y312472

Client: Eagle

Client Project ID: PTF C 32-8

Checklist Completed by: JB/EH9

Shipped Via: TD

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

Date/time completed: 12/15/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 16.0 °C 1 °C 1 °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"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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)

12/18/23
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-01

12/14/2023 11:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y312472-01 (Water)

Dissolved Metals by 200.8

Arsenic	8.41	2.00	5.00	ug/L	1	2543190	12/20/2023	12/21/2023	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-02

12/14/2023 11:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y312472-02 (Water)

Dissolved Metals by 200.8

Arsenic	10.2	2.00	5.00	ug/L	1	2543190	12/20/2023	12/21/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-03

12/14/2023 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y312472-03 (Water)

Dissolved Metals by 200.8

Arsenic	12.7	2.00	5.00	ug/L	1	2543190	12/20/2023	12/21/2023	
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Origins Laboratory, Inc.



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

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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-04

12/14/2023 12:16:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y312472-04 (Water)

Dissolved Metals by 200.8

Arsenic	8.68	2.00	5.00	ug/L	1	2543190	12/20/2023	12/21/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

MW-05

12/14/2023 12:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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GEL Laboratories, LLC
Y312472-05 (Water)

Dissolved Metals by 200.8

Arsenic	7.97	2.00	5.00	ug/L	1	2543190	12/20/2023	12/21/2023	
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Origins Laboratory, Inc.



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

Andrew Newberry
Project Number: -
Project: Noble - PTF #C 32-8

Dissolved Metals by 200.8 - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2543190 -										
FLTB (1205606223-BLK)					Prepared: 12/20/2023 Analyzed: 12/21/2023					
Arsenic	ND	5.00	ug/L				-			U
BLANK (1205606419-BLK)					Prepared: 12/20/2023 Analyzed: 12/21/2023					
Arsenic	ND	5.00	ug/L				-			U
LCS (1205606420-BKS)					Prepared: 12/20/2023 Analyzed: 12/21/2023					
Arsenic	48.9	5.00	ug/L	50.0		97.7	85-115			
DUP (1205606424 D)					Source: Y312472-05 Prepared: 12/20/2023 Analyzed: 12/21/2023					
Arsenic	8.07	5.00	ug/L		7.97		0-20	1.2	20	
MS (1205606425 S)					Source: Y312472-05 Prepared: 12/20/2023 Analyzed: 12/21/2023					
Arsenic	58.1	5.00	ug/L	50.0	7.97	100	75-125			

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 - PTF #C 32-8

Notes and Definitions

U Result not detected above the detection limit

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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.

Jordan A. Bynon, Project Manager