

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure <input type="checkbox"/>		Tank Battery Closure <input type="checkbox"/>	Flowline Closure 05/05/23	Partially Buried Vault Closure <input type="checkbox"/>	
Site Name & COGCC Facility Number: State C #36-4		Date: 04/06/23				Remediation Project #: 26979	
Associated Wells: 05-123-21121		Age of Site: Years				Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.274627 -104.506781		
Estimated Facility Size (acres):							
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good Condition							
USCS Soil Type: Clayey SAND				Estimated Depth to Groundwater: Approx. 30-40'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) Strong hydrocarbon odor and staining observed within excavation.							
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.							
Wellhead(s)							
Well API	05-123-21121						
Age	Years						
Condition of surface around wellhead	Good - Per Crew						
PID Readings	N/A - Excavated Upon Arrival						
Condition of subsurface (staining present)	HC odor and staining observed						
PID Readings	101.6	3.0	7.6	400.0	377.1		
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01		
Photo Number(s)	See photolog						
Other observations regarding wellheads: Well casing cut/capped following assessment.							
Summary							
Was impacted soil identified? No <input type="checkbox"/> Yes - less than 10 cubic yards <input checked="" type="checkbox"/> Yes - more than 10 cubic yards <input type="checkbox"/>							
Total number of samples field screened: 5			Total number of samples collected: 5				
Highest PID Reading: 400.0			Total number of samples submitted to lab for analysis: 5				
If more than 10 cubic yards of impacted soil were observed:							
Vertical extent:			Estimated spill volume:				
Lateral extent: N/A			Volume of soil removed:				
Is additional investigation required?							
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils							
Measured depth to groundwater:			Was remedial groundwater removal conducted? Yes <input type="checkbox"/> No <input type="checkbox"/>				
Date Groundwater was encountered:			Commencement date of removal:				
Sheen on groundwater? Yes <input type="checkbox"/> No <input type="checkbox"/>			Volume of groundwater removed prior to sampling:				
Free product observed? Yes <input type="checkbox"/> No <input type="checkbox"/>			Volume of groundwater removed post sampling:				
Total number of samples collected:			Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:							



FIGURES

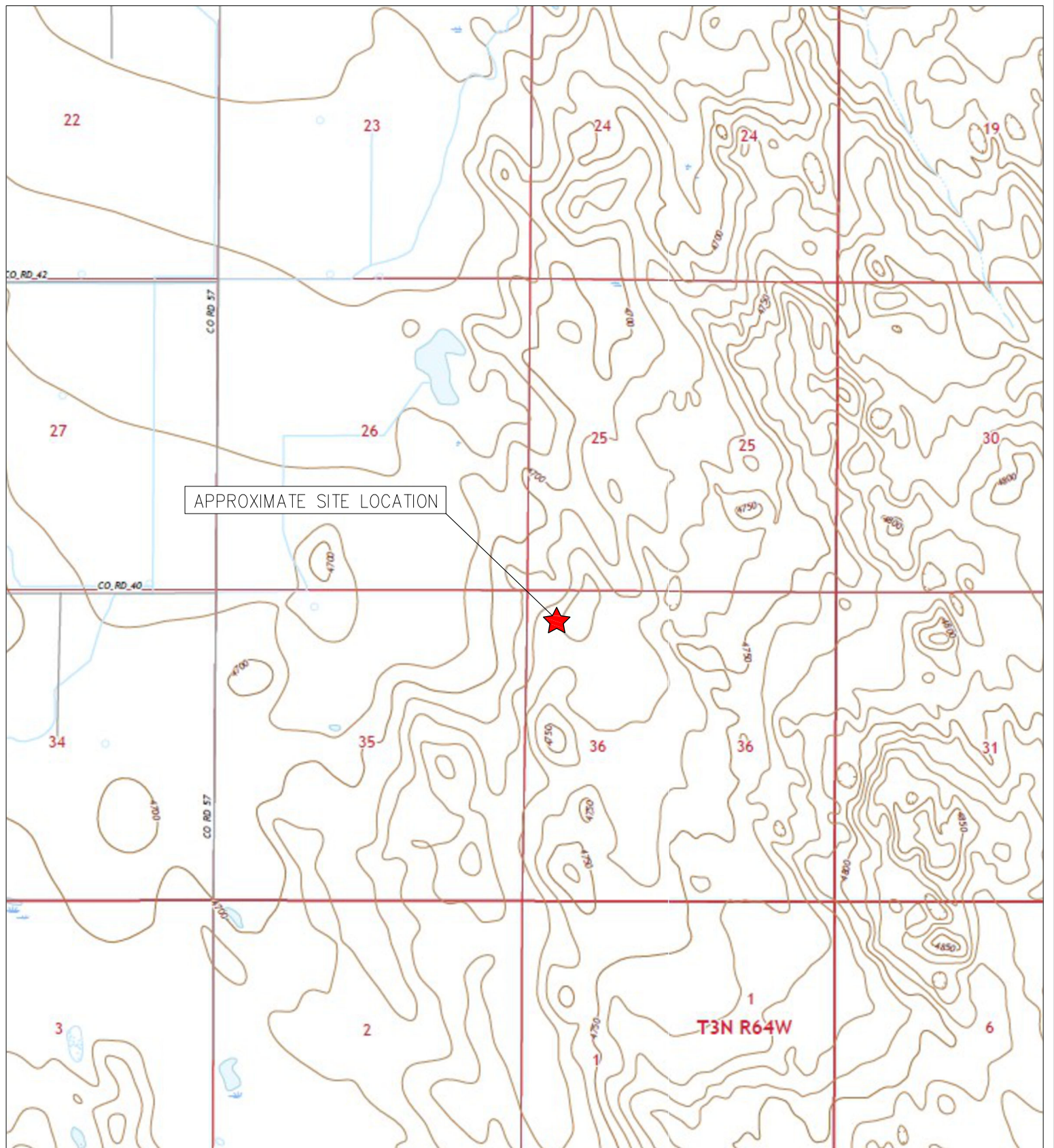
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



APPROXIMATE SITE LOCATION



T3N R64W



TOPOGRAPHIC SITE LOCATION MAP
 STATE C #36-4
 CLOSURE ASSESSMENT
 40.274490 / -104.507040
 NW¼ NW¼ SEC.36 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-21121
 REMEDIATION # 26979



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

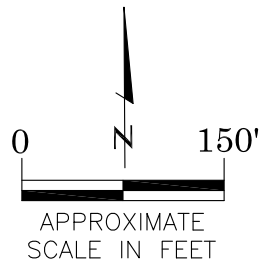
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAPS
 VALLEY VIEW SCHOOL AND HARDIN, CO
 QUADRANGLES 2022

FIGURE NO. 1



LEGEND

- FORMER STATE C #36-4 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



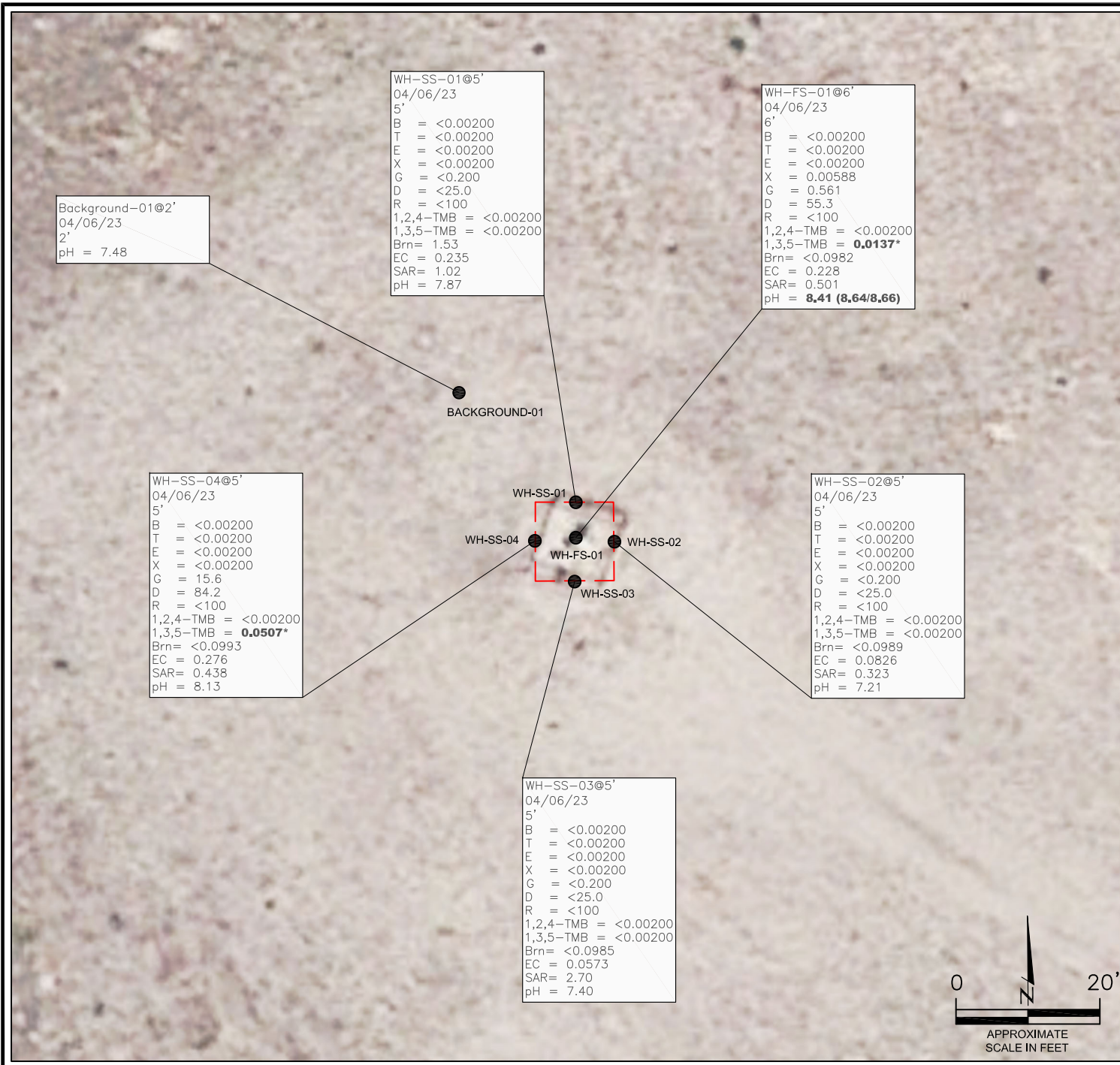
AERIAL SITE LOCATION MAP
 STATE C #36-4
 CLOSURE ASSESSMENT
 40.274490 / -104.507040
 NW¼ NW¼ SEC.36 T4N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-21121
 REMEDIATION # 26979

FIGURE NO.
2

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LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
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)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

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

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

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

LABORATORY RERUNS WERE COMPLETED ON SAMPLES WITH PH VALUES OUTSIDE ECMC TABLE 915-1 REGULATORY RANGE. RESULTS OF THE RERUNS ARE PRESENTED IN PARENTHESES.

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

VALUES PRESENTED WITH ASTERISK (*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
STATE C #36-4
CLOSURE ASSESSMENT
40.274490 / -104.507040
NW¼ NW¼ SEC.36 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-21121
REMEDATION # 26979

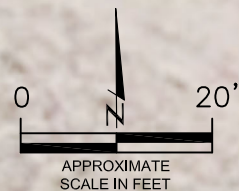


FIGURE NO.
3

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LEGEND

--- WELLHEAD ASSESSMENT BOUNDARIES

● APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

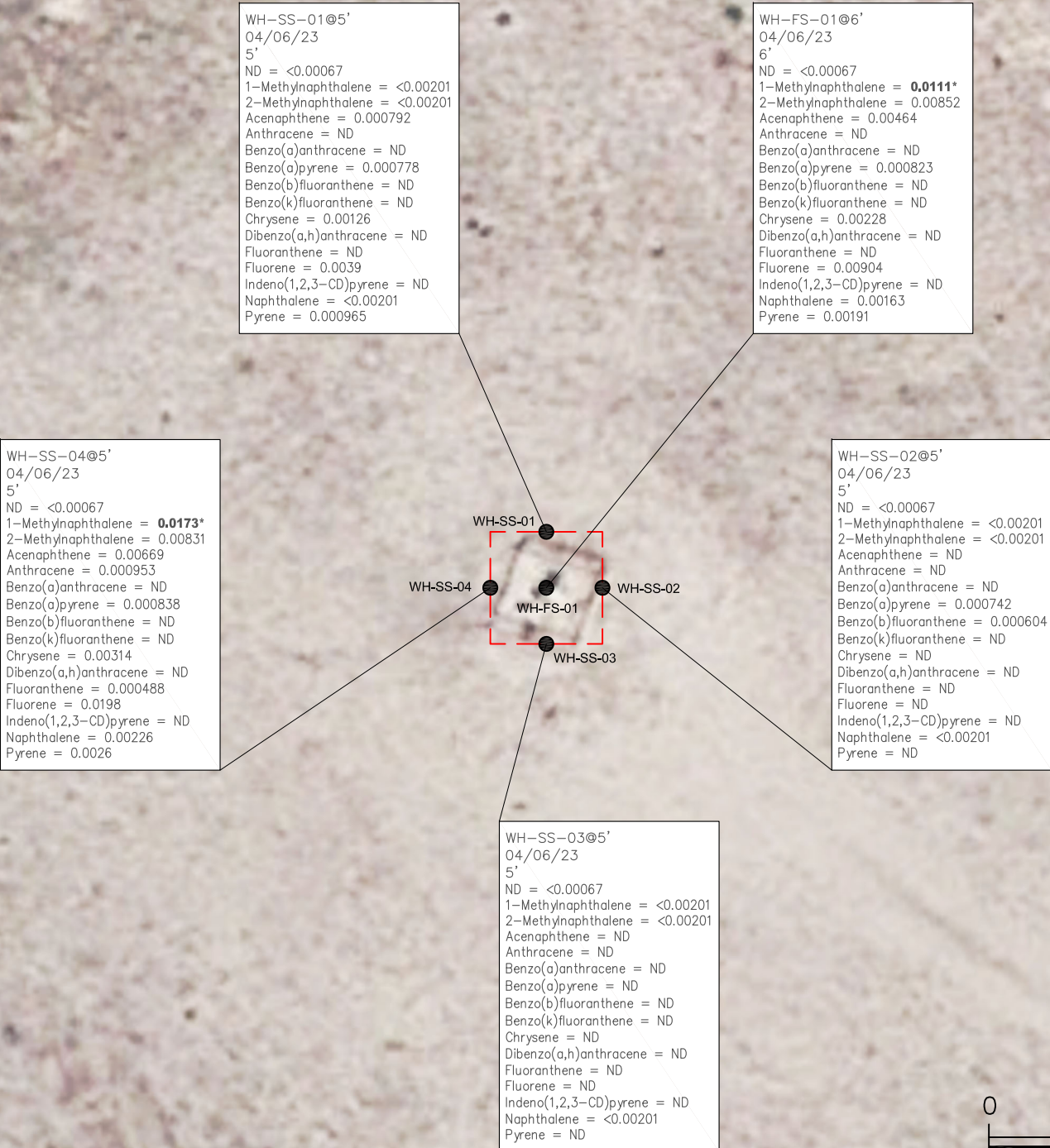
ND = NON-DETECT

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

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

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS, ONLY.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION



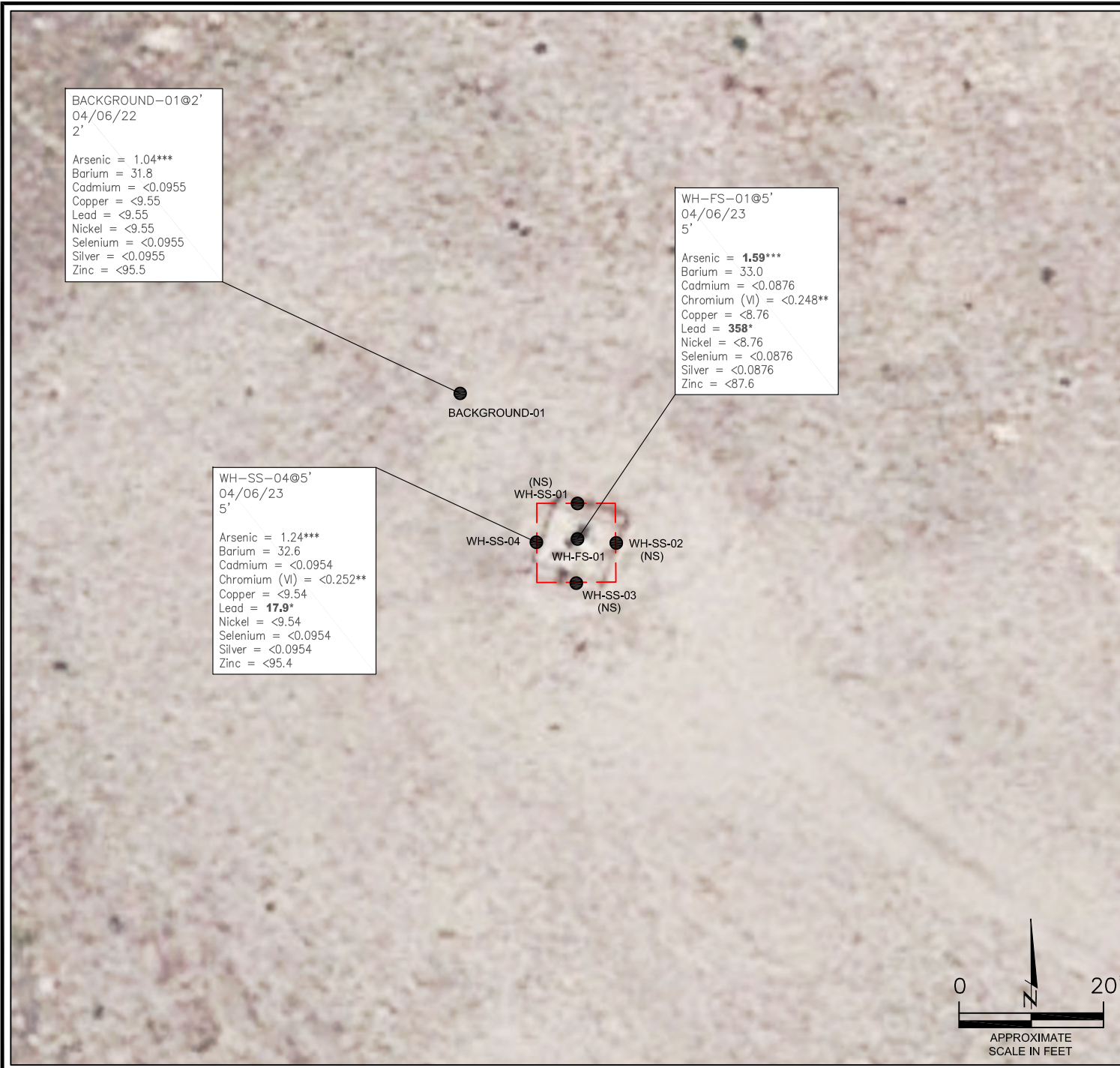
POLYCYCLIC AROMATIC HYDROCARBONS MAP

STATE C #36-4
CLOSURE ASSESSMENT
40.274490 / -104.507040
NW¼ NW¼ SEC.36 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-21121
REMEDIAION # 26979

FIGURE NO.
4

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BACKGROUND-01@2'
04/06/22
2'

Arsenic = 1.04***
Barium = 31.8
Cadmium = <0.0955
Copper = <9.55
Lead = <9.55
Nickel = <9.55
Selenium = <0.0955
Silver = <0.0955
Zinc = <95.5

WH-FS-01@5'
04/06/23
5'

Arsenic = **1.59*****
Barium = 33.0
Cadmium = <0.0876
Chromium (VI) = <0.248**
Copper = <8.76
Lead = **358***
Nickel = <8.76
Selenium = <0.0876
Silver = <0.0876
Zinc = <87.6

WH-SS-04@5'
04/06/23
5'

Arsenic = 1.24***
Barium = 32.6
Cadmium = <0.0954
Chromium (VI) = <0.252**
Copper = <9.54
Lead = **17.9***
Nickel = <9.54
Selenium = <0.0954
Silver = <0.0954
Zinc = <95.4

LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

(NS) - NOT SAMPLED

NOTES:

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

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

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

**ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg.

***ARSENIC IS NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVEL (1.30 mg/kg) IS 1.25*BACKGROUND (1.04 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

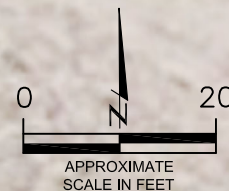
METALS IN SOIL MAP
STATE C #36-4
CLOSURE ASSESSMENT
40.274627 / -104.506781
NW¼ NW¼ SEC.36 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-21121
REMEDATION # 26979

FIGURE NO.
5

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
STATE C #36-4
CLOSURE ASSESSMENT
40.274627 / -104.506781
NW¼ NW¼ SEC.36 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-21121
REMEDIATION # 26979

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.274512 / -104.507047)	04/06/23	5	101.6	Y
WH-SS-02 @ 5' (40.274498 / -104.507031)	04/06/23	5	3.0	Y
WH-SS-03 @ 5' (40.274488 / -104.507047)	04/06/23	5	7.6	Y
WH-SS-04 @ 5' (40.274498 / -104.507064)	04/06/23	5	400.0	Y
WH-FS-01 @ 6' (40.274498 / -104.507047)	04/06/23	6	377.1	Y
Background-01 @ 2' (40.274548 / -104.507095)	04/06/23	2	3.0	Y

(Y/N) = Yes or No
 ppm-v = parts per million by volume
 PID = Photoionization Detector



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
STATE C #36-4
CLOSURE ASSESSMENT
40.274627 / -104.506781
NW¼ NW¼ SEC.36 T4N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-21121
REMEDATION # 26979

Sample Location		WH-SS-01 @ 5'	WH-SS-02 @ 5'	WH-SS-03 @ 5'	WH-SS-04 @ 5'	WH-FS-01 @ 6'	Background-01 @ 2'				
(Latitude / Longitude)		(40.274512 / -104.507047)	(40.274498 / -104.507031)	(40.274488 / -104.507047)	(40.274498 / -104.507064)	(40.274498 / -104.507047)	(40.274548 / -104.507095)				
Sample Date		4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023	4/6/2023				
Sample Depth		5'	5'	5'	5'	6'	2'				
PID Reading (ppm-v)		101.6	3.0	7.6	400.0	377.1	3				
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	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	<0.00200	<0.00200	0.0507*	0.0137*	<0.00200	NA
TOTAL PETROLEUM HYDROCARBONS											
TPH-GRO	mg/kg	500	--	--	<0.200	<0.200	<0.200	15.6	0.561	55.3	NA
TPH-DRO	mg/kg	500	--	--	<25.0	<25.0	<25.0	84.2	55.3	<100	NA
TPH-RRO	mg/kg	500	--	--	<100	<100	<100	<100	<100	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS											
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.00201	<0.00201	<0.00201	0.0173*	0.0111*	0.00831	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	NA
Acenaphthene	mg/kg	360	0.55	--	0.000792	<0.00067	<0.00067	0.00669	0.00464	<0.00067	NA
Anthracene	mg/kg	1800	5.8	--	<0.00067	<0.00067	<0.00067	0.000953	<0.00067	<0.00067	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	0.000778	0.000742	<0.00067	0.000838	0.000823	<0.00067	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	0.000604	<0.00067	<0.00067	<0.00067	<0.00067	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NA
Chrysene	mg/kg	110	9	--	0.00126	<0.00067	<0.00067	0.00314	0.00228	<0.00067	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NA
Fluoranthene	mg/kg	240	8.9	--	<0.00067	<0.00067	<0.00067	0.000488	<0.00067	<0.00067	NA
Fluorene	mg/kg	240	0.54	--	0.0039	<0.00067	<0.00067	0.0198	0.00904	<0.00067	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	NA
Naphthalene	mg/kg	2	0.0038	--	<0.00201	<0.00201	<0.00201	<0.00226	0.00163	<0.00201	NA
Pyrene	mg/kg	180	1.3	--	0.000965	<0.00067	<0.00067	0.0026	0.00191	<0.00067	NA
SOIL SUITABILITY (Inorganics)											
Boron	mg/L	2	--	--	1.53	<0.0989	<0.0985	<0.0993	<0.0982	<0.0982	NA
pH	standard unit	6-8.3	--	--	7.87	7.21	7.40	8.13	8.41 (8.64/8.66)	7.48	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	--	1.02	0.323	2.70	0.438	0.501	0.501	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.235	0.0826	0.0573	0.276	0.228	0.228	NA
METALS											
Arsenic	mg/kg	0.68***	0.29***	1.30***	NA	NA	NA	1.24***	1.59***	1.04***	NA
Barium	mg/kg	15000	82	--	NA	NA	NA	32.6	33.0	31.8	NA
Cadmium	mg/kg	71	0.38	--	NA	NA	NA	<0.0954	<0.0876	<0.0955	NA
Copper	mg/kg	3100	46	--	NA	NA	NA	<9.54	<8.76	<9.55	NA
Lead	mg/kg	400	14	--	NA	NA	NA	17.9*	358*	<9.55	NA
Nickel	mg/kg	1500	26	--	NA	NA	NA	<9.54	<8.76	<9.55	NA
Selenium	mg/kg	390	0.26	--	NA	NA	NA	<0.0954	<0.0876	<0.0955	NA
Silver	mg/kg	390	0.8	--	NA	NA	NA	<0.0954	<0.0876	<0.0955	NA
Zinc	mg/kg	23000	370	--	NA	NA	NA	<95.4	<87.6	<95.5	NA
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	NA	NA	NA	<0.252**	<0.248**	<0.252**	NA

ECMC = Energy & Carbon Management Commission NA - Not Analyzed VOCs - Volatile Organic Compounds
mg/kg = milligrams per kilogram
mmhos/cm = millimhos per centimeter RSSLs = Residential Soil Screening Levels
PID = Photoionization Detector GSSLs = Protection of Groundwater Soil Screening Levels
ppm-v = parts per million by volume TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
mg/L = milligrams per liter TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
SAR = Sodium Adsorption Ratio TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

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. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs.
Laboratory reruns were completed on samples with pH values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.
**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.



ATTACHMENT A

Photo Log

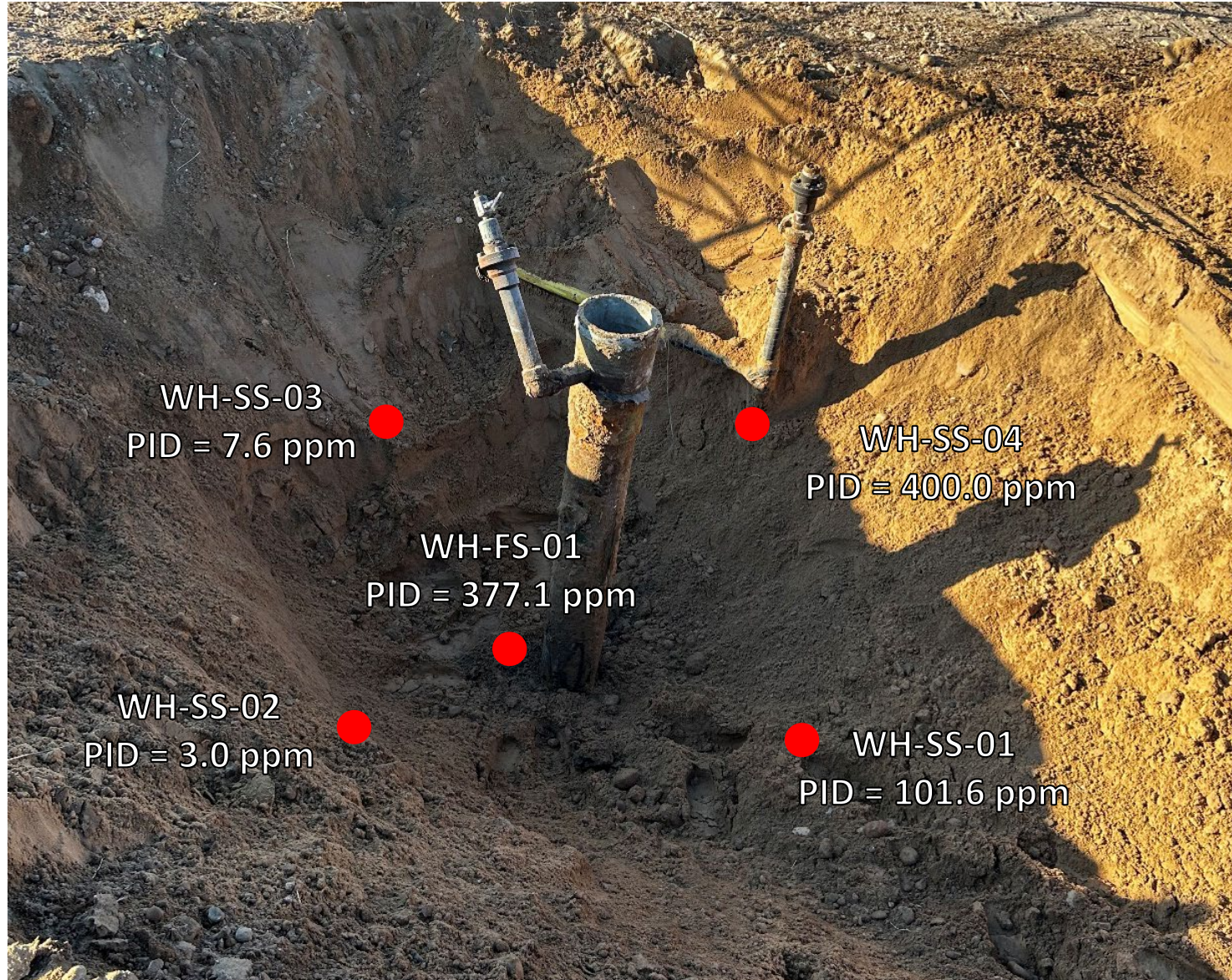
State C #36-4
API # 05-123-21121
Remediation # 26979

Closure Assessment

April 2023



Wellhead Excavation – 04/06/23



Looking southwest

Strong hydrocarbon odor and black staining observed



ATTACHMENT B

Laboratory Analytical Reports



April 27, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - State C #36-4

Project Number - [none]

Attached are your analytical results for Noble - State C #36-4 received by Origins Laboratory, Inc. April 06, 2023. This project is associated with Origins project number Y304138-01.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - State C #36-4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y304138-01	Soil	April 6, 2023 7:55	04/06/2023 16:32
WH-SS-02@5'	Y304138-02	Soil	April 6, 2023 7:57	04/06/2023 16:32
WH-SS-03@5'	Y304138-03	Soil	April 6, 2023 7:59	04/06/2023 16:32
WH-SS-04@5'	Y304138-04	Soil	April 6, 2023 8:01	04/06/2023 16:32
WH-FS-01@6'	Y304138-05	Soil	April 6, 2023 8:03	04/06/2023 16:32

Chain of Custody Modification Request

On 4/20/2023, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y304138 requesting that Table 915 Metals be added to WH-SS-04@5' and WH-FS-01@6'.

Requested modifications to the chain of custody were made by Jordan Bynon on 4/20/2023.

pH rerun requested on WH-FS-01@6'. No errors were found with the data that was reported so all three results are reported. JAB

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

ORIGINS
 LABORATORY, INC

www.originslaboratory.com

4304138 page 1 of 1

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

Project Manager: Martin Eckert III
 Project Name: State C #36-4
 Project Number:
 Samples Collected By: EL

Sample ID Description	Date Sampled	Time Sampled	# of Containers			Preservative			Matrix			Analysis	Sample Instructions
			Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #	Other	Other		
WT-SS-01@5'	4/10/25	0755	2	X				X				X	EG SAR pH = 1
WT-SS-02@5'		0757										X	Saturated paste prep
WT-SS-03@5'		0759										X	
WT-SS-04@5'		0801										X	
WT-FS-01@6'		0803										X	*MPLs needed

Relinquished By: [Signature] Date: 4/10/23 Time: 1632
 Relinquished By: [Signature] Date: 4/16/23 Time: 1632

Received By: LHS Date: 4/16/23 Time: 1632
 Received By: [Signature] Date: Time:

Temp Received: 1.1
 Date Results Needed: Noble

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Sample Receipt Checklist

Origins Work Order: 4304138 Client: Eagle
 Client Project ID: State C #36-4

Checklist Completed by: EHS Shipped Via: HO
 Date/time completed: 4/16/12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

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


Cooler Number/Temperature: 111 °C / °C / °C / °C

Thermometer ID: T004

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

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

Reviewed by: JEB (Project Manager) Date/Time Reviewed: 4-11-12

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-01@5'
4/6/2023 7:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-01 (Soil)

Boron (DTPA Sorbitol)

Boron	1.53		0.0996	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D0701	04/07/2023	04/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	91.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1105	04/11/2023	04/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
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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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-01@5'
4/6/2023 7:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	94.0 %		70-130			B3D11 05	04/11/2023	04/11/2023	
Surrogate: 4-Bromofluorobenzene	94.0 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.795		0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.743		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000792	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000778	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00126	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.0039	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-01@5'
4/6/2023 7:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304138-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L675844	04/13/2023	04/13/2023	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.000965	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	55.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.87			pH Units	1	B3D0716	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	1.02			SAR	1	B3D0712	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.235		0.00500	mmhos/cm	1	B3D0716	04/07/2023	04/08/2023	
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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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-02@5'
4/6/2023 7:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-02 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0989	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D0701	04/07/2023	04/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1105	04/11/2023	04/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-02@5'
4/6/2023 7:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	93.3 %		70-130			B3D11 05	04/11/2023	04/11/2023	
Surrogate: 4-Bromofluorobenzene	93.6 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000742	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.000604	0.000585	0.00067	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-02@5'
4/6/2023 7:57:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304138-02 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L675844	04/13/2023	04/13/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	59.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	50.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.21			pH Units	1	B3D0716	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	0.323			SAR	1	B3D0712	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0826		0.00500	mmhos/cm	1	B3D0716	04/07/2023	04/08/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-03@5'
4/6/2023 7:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0985	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3D0701	04/07/2023	04/14/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	106 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1105	04/11/2023	04/11/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	113 %		70-130			"	"	"	
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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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-03@5'
4/6/2023 7:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.5 %		70-130			B3D11 05	04/11/2023	04/11/2023	
Surrogate: 4-Bromofluorobenzene	94.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	ND		0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.13		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-03@5'
4/6/2023 7:59:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304138-03 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L675844	04/13/2023	04/13/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	55.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	61 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.40			pH Units	1	B3D0716	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	2.70			SAR	1	B3D0712	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.0573		0.00500	mmhos/cm	1	B3D0716	04/07/2023	04/08/2023	
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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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-04@5'
4/6/2023 8:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0993	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	84.2		25.0	mg/kg	1	B3D0701	04/07/2023	04/14/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	92.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1105	04/11/2023	04/11/2023	U
1,3,5-Trimethylbenzene	0.0507		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	15.6		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	105 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-04@5'
4/6/2023 8:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	98.3 %		70-130			B3D11 05	04/11/2023	04/11/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	0.866		0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0173	0.00109	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023	
2-Methylnaphthalene	0.00831	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.00669	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000953	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000838	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00314	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.000488	0.000394	0.00067	"	"	"	"	"	J
Fluorene	0.0198	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-04@5'
4/6/2023 8:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304138-04 (Soil)

PAH by 8270D SIM

Naphthalene	0.00226	0.00145	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023	
Pyrene	0.0026	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	51.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.13			pH Units	1	B3D0716	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	0.438			SAR	1	B3D0712	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.276		0.00500	mmhos/cm	1	B3D0716	04/07/2023	04/08/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.24		0.0954	mg/kg	10	B3D2027	04/20/2023	04/24/2023	
Barium	32.6		9.54	"	"	"	"	"	
Cadmium	ND		0.0954	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-SS-04@5'
4/6/2023 8:01:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-04 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.54	mg/kg	10	B3D2027	04/20/2023	04/24/2023	
Lead	17.9		9.54	"	"	"	"	"	
Nickel	ND		9.54	"	"	"	"	"	
Selenium	ND		0.0954	"	"	"	"	"	
Silver	ND		0.0954	"	"	"	"	"	
Zinc	ND		95.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.252	0.518	mg/Kg	1	L677513	04/06/2023	04/21/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-FS-01@6'
4/6/2023 8:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0982	mg/L	1	B3D0709	04/07/2023	04/12/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	55.3		25.0	mg/kg	1	B3D0701	04/07/2023	04/14/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3D1105	04/11/2023	04/11/2023	U
1,3,5-Trimethylbenzene	0.0137		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00588		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.561		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	"	
Surrogate: Toluene-d8	93.3 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-FS-01@6'

4/6/2023 8:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 B3D11 05 04/11/2023 04/11/2023

Metals by Saturated Paste by EPA 6010

Calcium	ND	0.499	meq/L	10	[CALC]	04/07/2023	04/12/2023
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	0.0111	0.00109	0.00201	mg/Kg	1	L675844	04/13/2023	04/13/2023
2-Methylnaphthalene	0.00852	0.00194	0.00201	"	"	"	"	"
Acenaphthene	0.00464	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.000823	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00228	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	0.00904	0.000286	0.00067	"	"	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-FS-01@6'
4/6/2023 8:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y304138-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L675844	04/13/2023	04/13/2023	
Naphthalene	0.00163	0.00145	0.00201	"	"	"	"	"	J
Pyrene	0.00191	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	53.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.41			pH Units	1	B3D0716	04/07/2023	04/08/2023	
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SAR by 20B Saturated Paste

SAR	0.501			SAR	1	B3D0712	04/07/2023	04/12/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.228		0.00500	mmhos/cm	1	B3D0716	04/07/2023	04/08/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.59		0.0876	mg/kg	10	B3D2027	04/20/2023	04/24/2023	
Barium	33.0		8.76	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

WH-FS-01@6'

4/6/2023 8:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0876	mg/kg	10	B3D2027	04/20/2023	04/24/2023	
Copper	ND		8.76	"	"	"	"	"	
Lead	358		8.76	"	"	"	"	"	
Nickel	ND		8.76	"	"	"	"	"	
Selenium	ND		0.0876	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	ND		87.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.248	0.51	mg/Kg	1	L677513	04/06/2023	04/21/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - State C #36-4

WH-FS-01@6'

4/6/2023 8:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-05RE1 (Soil)

pH in Soil by 9045D

pH	8.64			pH Units	1	B3D2017	04/07/2023	04/21/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - State C #36-4

WH-FS-01@6'

4/6/2023 8:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304138-05RE2 (Soil)

pH in Soil by 9045D

pH	8.66			pH Units	1	B3D2017	04/07/2023	04/21/2023	
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Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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 B3D0701 - EPA 3550B										
Blank (B3D0701-BLK1)										
					Prepared: 04/07/2023 Analyzed: 04/14/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.9	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D0701 - EPA 3550B

LCS (B3D0701-BS1)

Prepared: 04/07/2023 Analyzed: 04/14/2023

Diesel (C10-C28)	933	50.0	mg/kg	1000		93.3	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D0701 - EPA 3550B

Matrix Spike (B3D0701-MS1)	Source: Y304109-03			Prepared: 04/07/2023 Analyzed: 04/14/2023						
Diesel (C10-C28)	808	50.0	mg/kg	1000	ND	80.8	70-130			
Residual Range Organics (C28-C40)	816	200	"	1000	ND	81.6	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.9	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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 B3D0701 - EPA 3550B										
Matrix Spike Dup (B3D0701-MSD1)					Source: Y304109-03					Prepared: 04/07/2023 Analyzed: 04/14/2023
Diesel (C10-C28)	829	50.0	mg/kg	1000	ND	82.9	70-130	2.67	35	
Residual Range Organics (C28-C40)	789	200	"	1000	ND	78.9	70-130	3.30	35	
Surrogate: o-Terphenyl	43		"	49.8		85.6	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1105 - EPA 5030 (soil)

Blank (B3D1105-BLK1)

Prepared: 04/11/2023 Analyzed: 04/11/2023

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	101		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	92.8		70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1105 - EPA 5030 (soil)

LCS (B3D1105-BS1)

Prepared: 04/11/2023 Analyzed: 04/11/2023

1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100		87.5	70-130			
1,3,5-Trimethylbenzene	0.0829	0.00200	"	0.100		82.9	70-130			
Benzene	0.0816	0.00200	"	0.100		81.6	70-130			
Ethylbenzene	0.0857	0.00200	"	0.100		85.7	70-130			
Naphthalene	0.0953	0.00380	"	0.100		95.3	70-130			
Toluene	0.0803	0.00200	"	0.100		80.3	70-130			
o-Xylene	0.0879	0.00200	"	0.100		87.9	70-130			
m,p-Xylene	0.171	0.00400	"	0.200		85.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1105 - EPA 5030 (soil)

Matrix Spike (B3D1105-MS1)	Source: Y304111-01			Prepared: 04/11/2023 Analyzed: 04/19/2023						
1,2,4-Trimethylbenzene	0.0985	0.00200	mg/kg	0.100	ND	98.5	70-130			
1,3,5-Trimethylbenzene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
Benzene	0.0887	0.00200	"	0.100	ND	88.7	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130			
Toluene	0.0857	0.00200	"	0.100	ND	85.7	70-130			
o-Xylene	0.0994	0.00200	"	0.100	ND	99.4	70-130			
m,p-Xylene	0.198	0.00400	"	0.200	ND	99.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.096		"	0.125		76.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.0	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D1105 - EPA 5030 (soil)

Matrix Spike Dup (B3D1105-MSD1)	Source: Y304111-01			Prepared: 04/11/2023 Analyzed: 04/19/2023						
1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100	ND	94.7	70-130	3.93	20	
1,3,5-Trimethylbenzene	0.0919	0.00200	"	0.100	ND	91.9	70-130	5.38	20	
Benzene	0.0881	0.00200	"	0.100	ND	88.1	70-130	0.702	20	
Ethylbenzene	0.0894	0.00200	"	0.100	ND	89.4	70-130	3.28	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	2.31	20	
Toluene	0.0843	0.00200	"	0.100	ND	84.3	70-130	1.60	20	
o-Xylene	0.0966	0.00200	"	0.100	ND	96.6	70-130	2.88	20	
m,p-Xylene	0.194	0.00400	"	0.200	ND	97.1	70-130	2.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.093		"	0.125		74.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D2027 - EPA 3050B

Blank (B3D2027-BLK1)

Prepared: 04/20/2023 Analyzed: 04/24/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3D2027-BS1)

Prepared: 04/20/2023 Analyzed: 04/24/2023

Arsenic	0.0568	0.000100	mg/kg	0.0500		114	80-120			
Barium	5.45	0.0100	"	5.00		109	80-120			
Cadmium	0.0549	0.000100	"	0.0500		110	80-120			
Copper	0.550	0.0100	"	0.500		110	80-120			
Lead	0.0538	0.0100	"	0.0500		108	80-120			
Nickel	0.0578	0.0100	"	0.0500		116	80-120			
Selenium	0.0559	0.000100	"	0.0500		112	80-120			
Silver	0.0548	0.000100	"	0.0500		110	80-120			
Zinc	0.558	0.100	"	0.500		112	80-120			

Matrix Spike (B3D2027-MS1)

Source: Y304138-04

Prepared: 04/20/2023 Analyzed: 04/24/2023

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D2027 - EPA 3050B

Matrix Spike (B3D2027-MS1)		Source: Y304138-04			Prepared: 04/20/2023 Analyzed: 04/24/2023					
Arsenic	6.11	0.0887	mg/kg	4.44	1.24	110	75-125			
Barium	512	8.87	"	444	32.6	108	75-125			
Cadmium	4.85	0.0887	"	4.44	0.0811	108	75-125			
Copper	47.6	8.87	"	44.4	3.64	99.2	75-125			
Lead	24.1	8.87	"	4.44	17.9	141	75-125			QM-07
Nickel	7.21	8.87	"	4.44	2.33	110	75-125			
Selenium	4.93	0.0887	"	4.44	0.0573	110	75-125			
Silver	4.82	0.0887	"	4.44	0.00859	108	75-125			
Zinc	60.9	88.7	"	44.4	14.1	106	75-125			

Matrix Spike Dup (B3D2027-MSD1)		Source: Y304138-04			Prepared: 04/20/2023 Analyzed: 04/24/2023					
Arsenic	6.01	0.0884	mg/kg	4.42	1.24	108	75-125	1.71	20	
Barium	511	8.84	"	442	32.6	108	75-125	0.187	20	
Cadmium	4.83	0.0884	"	4.42	0.0811	107	75-125	0.373	20	
Copper	48.2	8.84	"	44.2	3.64	101	75-125	1.18	20	
Lead	27.4	8.84	"	4.42	17.9	216	75-125	12.7	20	QM-07
Nickel	7.37	8.84	"	4.42	2.33	114	75-125	2.12	20	
Selenium	4.64	0.0884	"	4.42	0.0573	104	75-125	6.09	20	
Silver	4.82	0.0884	"	4.42	0.00859	109	75-125	0.0127	20	
Zinc	60.6	88.4	"	44.2	14.1	105	75-125	0.501	20	

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D0709 - DTPA Sorbitol Preparation

Blank (B3D0709-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron ND 0.100 mg/L

Duplicate (B3D0709-DUP1)

Source: Y304101-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Boron 0.127 0.0991 mg/L 0.121 4.45 50

Batch B3D0712 - Saturated Paste Metals

Blank (B3D0712-BLK1)

Prepared: 04/07/2023 Analyzed: 04/12/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3D0712-DUP1)

Source: Y304103-01

Prepared: 04/07/2023 Analyzed: 04/12/2023

Calcium PPM 42.9 10.0 mg/L 48.2 11.6 50

SAR 0.00 SAR 2.47 200 200

Magnesium PPM 9.40 10.0 mg/L 10.9 14.9 50

Sodium PPM 61.3 10.0 " 72.9 17.2 50

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Saturated Paste - 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 B3D0716 - Saturated Paste pH/EC

Blank (B3D0716-BLK1)

Prepared: 04/07/2023 Analyzed: 04/08/2023

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B3D0716-DUP1)

Source: Y304103-01

Prepared: 04/07/2023 Analyzed: 04/08/2023

pH 7.98 pH Units 8.02 0.500 25

Specific Conductance (EC) 0.623 0.00500 mmhos/cm 0.651 4.46 25

Batch B3D2017 - Saturated Paste pH/EC

Duplicate (B3D2017-DUP1)

Source: Y304355-01

Prepared: 04/20/2023 Analyzed: 04/21/2023

pH 7.83 pH Units 8.20 4.62 25

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L677513 -										
DUP (L 98784-DUP)		Source: 98784			Prepared: Analyzed: 04/21/2023					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98784-MS)		Source: 98784			Prepared: Analyzed: 04/21/2023					
Chromium, Hexavalent	34.5	2.5	mg/Kg	39.1	<1.22	88	75-125			
LCS (LCS)		Prepared: Analyzed: 04/21/2023								
Chromium, Hexavalent	7.24	0.5	mg/Kg	8		91	75-125			
LRB (LRB)		Prepared: Analyzed: 04/21/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675844 - 3550B

MSD (L 94605-MSD-L675844)		Source: Y304138-02			Prepared: 04/13/2023 Analyzed: 04/13/2023					
Fluoranthene	0.125	0.00067	mg/Kg	0.166	<0.000394	75.3	30-130	2.3	30	
Benzo(b)fluoranthene	0.104	0.00067	"	0.166	0.000604	62.2	30-130	4.6	30	
1-Methylnaphthalene	0.113	0.00201	"	0.166	<0.00109	68	30-130	6	30	
2-Methylnaphthalene	0.117	0.00201	"	0.166	<0.00194	70.4	30-130	6.6	30	
Acenaphthene	0.114	0.00067	"	0.166	<0.000304	68.6	30-130	5.1	30	
Anthracene	0.119	0.00067	"	0.166	<0.000334	71.6	30-130	4.1	30	
Indeno(1,2,3-cd)pyrene	0.119	0.00067	"	0.166	<0.000627	71.6	30-130	9.6	30	
Benzo(a)pyrene	0.125	0.00067	"	0.166	0.000742	74.8	30-130	0.7	30	
Pyrene	0.124	0.00067	"	0.166	<0.000643	74.6	30-130	2.3	30	
Benzo(k)fluoranthene	0.107	0.00067	"	0.166	<0.000437	64.4	30-130	0	30	
Chrysene	0.119	0.00067	"	0.166	<0.000624	71.6	30-130	1.6	30	
Dibenz(a,h)anthracene	0.13	0.00067	"	0.166	<0.000614	78.3	30-130	0.7	30	
Fluorene	0.117	0.00067	"	0.166	<0.000286	70.4	30-130	3.3	30	
Naphthalene	0.108	0.00201	"	0.166	<0.00145	65	30-130	5.4	30	
Benzo(a)anthracene	0.13	0.00067	"	0.166	<0.000493	78.3	30-130	4.5	30	
Surrogate: 2-Fluorobiphenyl	64.4		"	0.332	197	64.4	33-115			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	209	67.4	33-122			
Surrogate: Nitrobenzene-d5	57.2		"	0.332	167	57.2	29-110			

MS (L 94605-MS-L675844)		Source: Y304138-02			Prepared: 04/13/2023 Analyzed: 04/13/2023					
2-Methylnaphthalene	0.125	0.00201	mg/Kg	0.166	<0.00194	75.3	30-130			
Benzo(k)fluoranthene	0.107	0.00067	"	0.166	<0.000437	64.4	30-130			
1-Methylnaphthalene	0.12	0.00201	"	0.166	<0.00109	72.2	30-130			
Anthracene	0.124	0.00067	"	0.166	<0.000334	74.6	30-130			
Benzo(a)anthracene	0.136	0.00067	"	0.166	<0.000493	81.9	30-130			
Acenaphthene	0.12	0.00067	"	0.166	<0.000304	72.2	30-130			
Benzo(b)fluoranthene	0.109	0.00067	"	0.166	0.000604	65.2	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675844 - 3550B

MS (L 94605-MS-L675844)	Source: Y304138-02			Prepared: 04/13/2023 Analyzed: 04/13/2023						
Pyrene	0.127	0.00067	mg/Kg	0.166	<0.000643	76.5	30-130			
Chrysene	0.121	0.00067	"	0.166	<0.000624	72.8	30-130			
Dibenz(a,h)anthracene	0.131	0.00067	"	0.166	<0.000614	78.9	30-130			
Fluoranthene	0.128	0.00067	"	0.166	<0.000394	77.1	30-130			
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130			
Indeno(1,2,3-cd)pyrene	0.108	0.00067	"	0.166	<0.000627	65	30-130			
Naphthalene	0.114	0.00201	"	0.166	<0.00145	68.6	30-130			
Benzo(a)pyrene	0.126	0.00067	"	0.166	0.000742	75.4	30-130			
Surrogate: 2-Fluorobiphenyl	67.7		"	0.332	197	67.7	33-115			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	209	67.4	33-122			
Surrogate: Nitrobenzene-d5	59.6		"	0.332	167	59.6	29-110			

LCS (LCS-L675844)	Prepared: 04/13/2023 Analyzed: 04/13/2023									
Fluoranthene	0.135	0.00067	mg/Kg	0.167		80.8	30-130			
Benzo(b)fluoranthene	0.102	0.00067	"	0.167		61	30-130			
Benzo(a)pyrene	0.138	0.00067	"	0.167		82.6	30-130			
Benzo(a)anthracene	0.138	0.00067	"	0.167		82.6	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Benzo(k)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Dibenz(a,h)anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Fluorene	0.124	0.00067	"	0.167		74.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0951	0.00067	"	0.167		56.9	30-130			
Naphthalene	0.114	0.00201	"	0.167		68.2	30-130			
Pyrene	0.135	0.00067	"	0.167		80.8	30-130			
Acenaphthene	0.122	0.00067	"	0.167		73	30-130			
2-Methylnaphthalene	0.122	0.00201	"	0.167		73	30-130			
1-Methylnaphthalene	0.119	0.00201	"	0.167		71.2	30-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L675844 - 3550B

LCS (LCS-L675844)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Chrysene	0.125	0.00067	mg/Kg	0.167		74.8	30-130			
Surrogate: 2-Fluorobiphenyl	72.3		"	0.333		72.3	33-115			
Surrogate: 4-Terphenyl-d14	78		"	0.333		78	33-122			
Surrogate: Nitrobenzene-d5	63		"	0.333		63	29-110			

LRB (LRB-L675844)

Prepared: 04/13/2023 Analyzed: 04/13/2023

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.1		"	0.333		59.1	29-110			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			
Surrogate: 4-Terphenyl-d14	66.9		"	0.333		66.9	33-122			

Origins Laboratory, Inc.



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

Martin C Eckert III
Project Number: [none]
Project: Noble - State C #36-4

Notes and Definitions

U Sample is Non-Detect.

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

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.

Jordan A. Bynon, Project Manager



May 03, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - State C #36-4

Project Number - [none]

Attached are your analytical results for Noble - State C #36-4 received by Origins Laboratory, Inc. April 25, 2023. This project is associated with Origins project number Y304579-01.

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

Martin C Eckert III
Project Number: [none]
Project: Noble - State C #36-4

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y304579-01	Soil	April 6, 2023 8:05	04/25/2023 14:10

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4304579

Client: Eagle
 Client Project ID: State C #36-4

Checklist Completed by: EHS
 Date/time completed: 4/25/23

Shipped Via: HO
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

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

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

Thermometer ID: T003

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/26/23

Origins Laboratory, Inc.
[Signature]

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Background-01@2'
4/6/2023 8:05:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304579-01 (Soil)

pH in Soil by 9045D

pH	7.48		pH Units	1	B3D2626	HJD	04/26/2023	04/27/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.04	0.0955	mg/kg	10	B3D2703	CIH	04/27/2023	04/27/2023	
Barium	31.8	9.55	"	"	"	CIH	"	"	
Cadmium	ND	0.0955	"	"	"	CIH	"	"	
Copper	ND	9.55	"	"	"	CIH	"	"	
Lead	ND	9.55	"	"	"	CIH	"	"	
Nickel	ND	9.55	"	"	"	CIH	"	"	
Selenium	ND	0.0955	"	"	"	CIH	"	"	
Silver	ND	0.0955	"	"	"	CIH	"	"	
Zinc	ND	95.5	"	"	"	CIH	"	"	

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D2703 - EPA 3050B

Blank (B3D2703-BLK1)

Prepared: 04/27/2023 Analyzed: 04/27/2023

Arsenic	ND	0.000100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.000100	"							
Copper	ND	0.0100	"							
Lead	ND	0.0100	"							
Nickel	ND	0.0100	"							
Selenium	ND	0.000100	"							
Silver	ND	0.000100	"							
Zinc	ND	0.100	"							

LCS (B3D2703-BS1)

Prepared: 04/27/2023 Analyzed: 04/27/2023

Arsenic	0.0502	0.000100	mg/kg	0.0500		100	80-120			
Barium	5.04	0.0100	"	5.00		101	80-120			
Cadmium	0.0494	0.000100	"	0.0500		98.8	80-120			
Copper	0.518	0.0100	"	0.500		104	80-120			
Lead	0.0485	0.0100	"	0.0500		96.9	80-120			
Nickel	0.0519	0.0100	"	0.0500		104	80-120			
Selenium	0.0444	0.000100	"	0.0500		88.8	80-120			
Silver	0.0484	0.000100	"	0.0500		96.8	80-120			
Zinc	0.502	0.100	"	0.500		100	80-120			

Matrix Spike (B3D2703-MS1)

Source: Y304558-01

Prepared: 04/27/2023 Analyzed: 04/27/2023

Arsenic	9.48	0.0939	mg/kg	4.70	6.72	58.9	75-125			QM-07
Barium	523	9.39	"	470	77.9	94.9	75-125			
Cadmium	4.64	0.0939	"	4.70	0.0993	96.8	75-125			
Copper	52.7	9.39	"	47.0	8.10	94.9	75-125			
Lead	23.3	9.39	"	4.70	11.0	263	75-125			QM-07

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D2703 - EPA 3050B										
Matrix Spike (B3D2703-MS1)			Source: Y304558-01			Prepared: 04/27/2023 Analyzed: 04/27/2023				
Nickel	13.0	9.39	mg/kg	4.70	9.91	65.9	75-125			QM-07
Selenium	4.19	0.0939	"	4.70	0.206	84.8	75-125			
Silver	4.56	0.0939	"	4.70	0.0189	96.7	75-125			
Zinc	76.7	93.9	"	47.0	38.3	81.7	75-125			
Matrix Spike Dup (B3D2703-MSD1)			Source: Y304558-01			Prepared: 04/27/2023 Analyzed: 04/27/2023				
Arsenic	10.7	0.0888	mg/kg	4.44	6.72	90.2	75-125	12.3	20	
Barium	519	8.88	"	444	77.9	99.3	75-125	0.821	20	
Cadmium	4.54	0.0888	"	4.44	0.0993	99.9	75-125	2.37	20	
Copper	54.0	8.88	"	44.4	8.10	103	75-125	2.44	20	
Lead	17.9	8.88	"	4.44	11.0	156	75-125	26.5	20	QM-07, QR-DUP
Nickel	14.2	8.88	"	4.44	9.91	97.6	75-125	9.11	20	
Selenium	4.24	0.0888	"	4.44	0.206	90.7	75-125	1.17	20	
Silver	4.41	0.0888	"	4.44	0.0189	98.8	75-125	3.41	20	
Zinc	85.1	88.8	"	44.4	38.3	105	75-125	10.4	20	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State C #36-4

Saturated Paste - 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 B3D2626 - Saturated Paste pH/EC

Duplicate (B3D2626-DUP1)

Source: Y304518-01

Prepared: 04/26/2023 Analyzed: 04/27/2023

pH	6.90		pH Units		6.83			1.02	25	
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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - State C #36-4

Notes and Definitions

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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