

Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>	
Site Name & COGCC Facility Number: State #16-13		Date: 03/10/23					Remediation Project #: 26953		
Associated Wells: 05-123-07146		Age of Site: Years					Number of Photos Attached: 1		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.219928 / -104.449710			Estimated Facility Size (acres):
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
Good Condition									
USCS Soil Type: Silty SAND				Estimated Depth to Groundwater: Approx. 20-40'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
None observed.									
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	05-123-07146								
Age	Years								
Condition of surface around wellhead	Good - Per Crew								
PID Readings	N/A - Excavated Upon Arrival								
Condition of subsurface (staining present)	Good - No Odor/Staining								
PID Readings	2.2	1.1	2.3	1.1	8.9				
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?									
<input checked="" type="checkbox"/> No		Yes - less than 10 cubic yards			Yes - more than 10 cubic yards				
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 8.9				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
N/A									
Lateral extent:				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation?									
<input checked="" type="checkbox"/> No		Yes - not impacted or in contact with impacted soils			Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				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

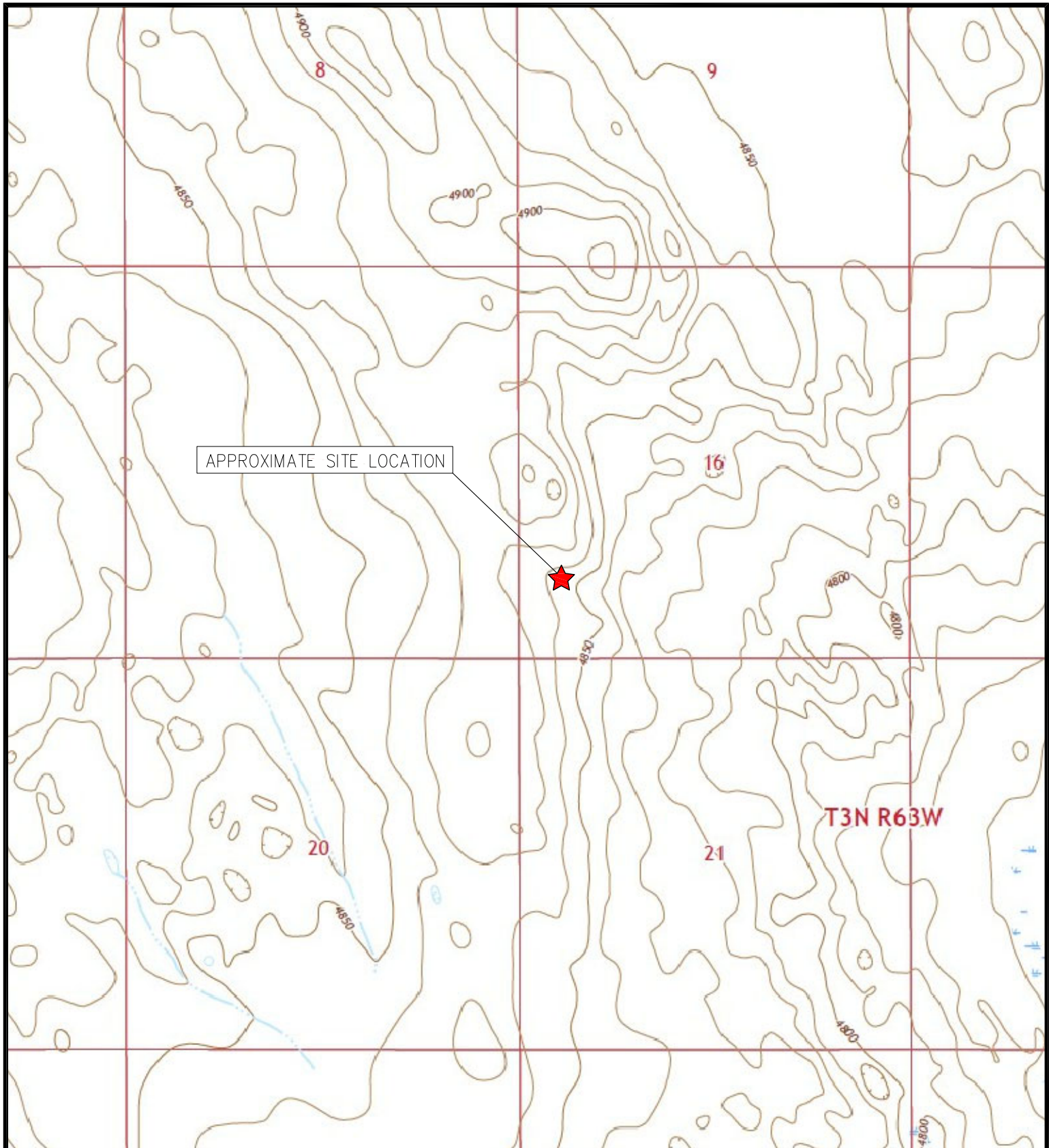
Figure 1: Topographic Site Location Map

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 R63W



TOPOGRAPHIC SITE LOCATION MAP
 STATE #16-13
 CLOSURE ASSESSMENT
 40.221031 / -104.449759
 SW¼ SW¼ SEC.16 T3N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-07146
 REMEDIATION # 26953

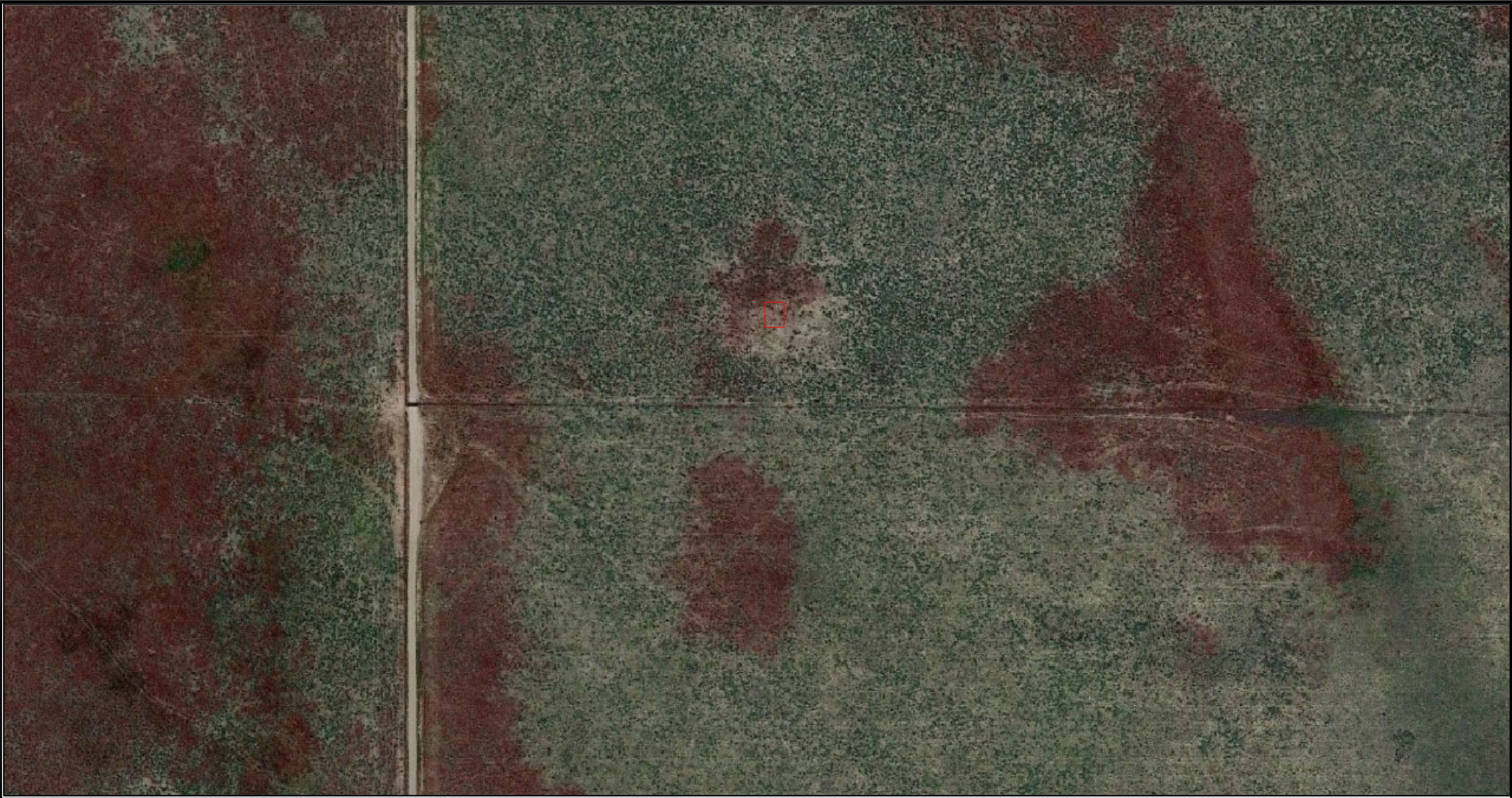


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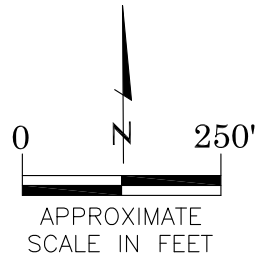
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 TAMPA, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

 FORMER STATE #16-13 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP
STATE #16-13
CLOSURE ASSESSMENT
40.221031 / -104.449759
SW¼ SW¼ SEC.16 T3N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-07146
REMEDIAION # 26953

FIGURE NO.
2

DRAWN BY:
EL



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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 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.

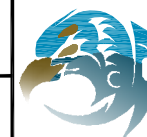
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
 STATE #16-13
 CLOSURE ASSESSMENT
 40.219928 / -104.449710
 SW¼ SW¼ SEC.16 T3N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-07146
 REMEDIATION # 26953

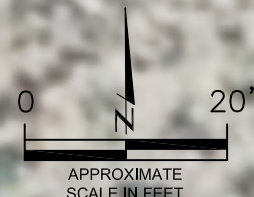
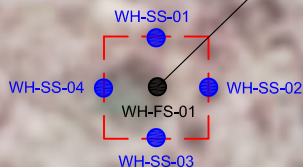
FIGURE NO.
3

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WH-FS-01@6'
 03/10/23
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = 14.3
 D = 430
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= <0.100
 EC = 0.921
 SAR= 5.35
 pH = 7.52



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

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

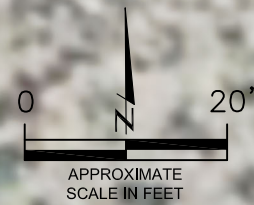
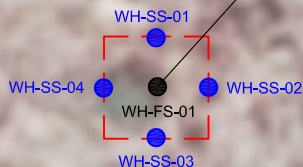
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

WH-FS-01@6'
03/10/23
6'

1-Methylnaphthalene = **0.031***
2-Methylnaphthalene = 0.0169
Acenaphthene = 0.0162
Anthracene = 0.00545
Benzo(a)anthracene = <0.00335
Benzo(a)pyrene = <0.00335
Benzo(b)fluoranthene = <0.00335
Benzo(k)fluoranthene = <0.00335
Chrysene = <0.00335
Dibenzo(a,h)anthracene = <0.00335
Fluoranthene = 0.00273
Fluorene = 0.054
Indeno(1,2,3-CD)pyrene = <0.00335
Naphthalene = **0.0318***
Pyrene = 0.00795



POLYCYCLIC AROMATIC HYDROCARBONS MAP
STATE #16-13
CLOSURE ASSESSMENT
40.221031 / -104.449759
SW¼ SW¼ SEC.16 T3N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-07146
REMEDATION # 26953

FIGURE NO.
4
DRAWN BY:
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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 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

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 (1.50 mg/kg) is 1.25*BACKGROUND (1.20 mg/kg).

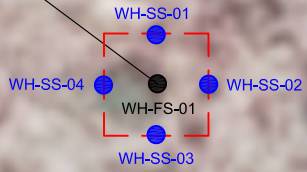
ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

WH-FS-01@6'
03/10/23
6'

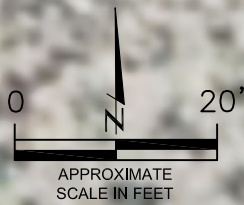
Arsenic = **1.96*****
Barium = 36.6
Cadmium = 0.0936
Chromium (VI) = <0.244**
Copper = <8.83
Lead = <8.83
Nickel = <8.83
Selenium = 0.151
Silver = <0.0883
Zinc = <88.3

BACKGROUND-01@3'
03/10/23
3'

Arsenic = 1.20***
Barium = 27.3
Cadmium = <0.0880
Copper = <8.80
Lead = <8.80
Nickel = <8.80
Selenium = <0.0880
Silver = <0.0880
Zinc = <88.0



● BACKGROUND-01



METALS IN SOIL MAP
STATE #16-13
CLOSURE ASSESSMENT
40.219928 / -104.449710
SW¼ SW¼ SEC.16 T3N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-07146
REMEDIAION # 26953

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 #16-13
CLOSURE ASSESSMENT
40.219928 / -104.449710
SW¼ SW¼ SEC.16 T3N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-07146
REMEDIATION # 26953

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.221056 / -104.449736)	03/10/23	5	2.2	N
WH-SS-02 @ 5' (40.221041 / -104.449710)	03/10/23	5	1.1	N
WH-SS-03 @ 5' (40.221028 / -104.449727)	03/10/23	5	2.3	N
WH-SS-04 @ 5' (40.221042 / -104.449755)	03/10/23	5	1.1	N
WH-FS-01 @ 5' (40.221044 / -104.449732)	03/10/23	6	8.9	Y
Background-01 @ 3' (40.221084 / -104.449676)	03/10/23	3	0.7	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
STATE #16-13
CLOSURE ASSESSMENT
40.219928 / -104.449710
SW¼ SW¼ SEC.16 T3N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-07146
REMEDATION # 26953

Sample Location		WH-FS-01 @ 6'			Background-01 @ 3'	
(Latitude / Longitude)		(40.221044 / -104.449732)			(40.221084 / -104.449676)	
Sample Date		3/10/2023			3/10/2023	
Sample Depth		6'			3'	
PID Reading (ppm-v)		8.9			0.7	
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
Toluene	mg/kg	490	0.69	--	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	--	14.3	NA
TPH-DRO	mg/kg	500	--	--	430	NA
TPH-RRO	mg/kg	500	--	--	<100	NA
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	--	0.031*	NA
2-Methyl-naphthalene	mg/kg	24	0.019	--	0.0169	NA
Acenaphthene	mg/kg	360	0.55	--	0.0162	NA
Anthracene	mg/kg	1800	5.8	--	0.00545	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00335	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00335	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00335	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00335	NA
Chrysene	mg/kg	110	9	--	<0.00335	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00335	NA
Fluoranthene	mg/kg	240	8.9	--	0.00273	NA
Fluorene	mg/kg	240	0.54	--	0.054	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00335	NA
Naphthalene	mg/kg	2	0.0038	--	0.0318*	NA
Pyrene	mg/kg	180	1.3	--	0.00795	NA
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	--	<0.100	NA
pH	standard unit	6-8.3	--	--	7.52	NA
Sodium Adsorption Ratio (SAR)	--	<6	--	--	5.35	NA
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.921	NA
METALS						
Arsenic	mg/kg	0.68***	0.29***	1.50***	1.96***	1.20***
Barium	mg/kg	15000	82	--	36.6	27.3
Cadmium	mg/kg	71	0.38	--	0.0936	<0.0880
Copper	mg/kg	3100	46	--	<8.83	<8.80
Lead	mg/kg	400	14	--	<8.83	<8.80
Nickel	mg/kg	1500	26	--	<8.83	<8.80
Selenium	mg/kg	390	0.26	--	0.151	<0.0880
Silver	mg/kg	390	0.8	--	<0.0883	<0.0880
Zinc	mg/kg	23000	370	--	<88.3	<88.0
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.488**	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.						
**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

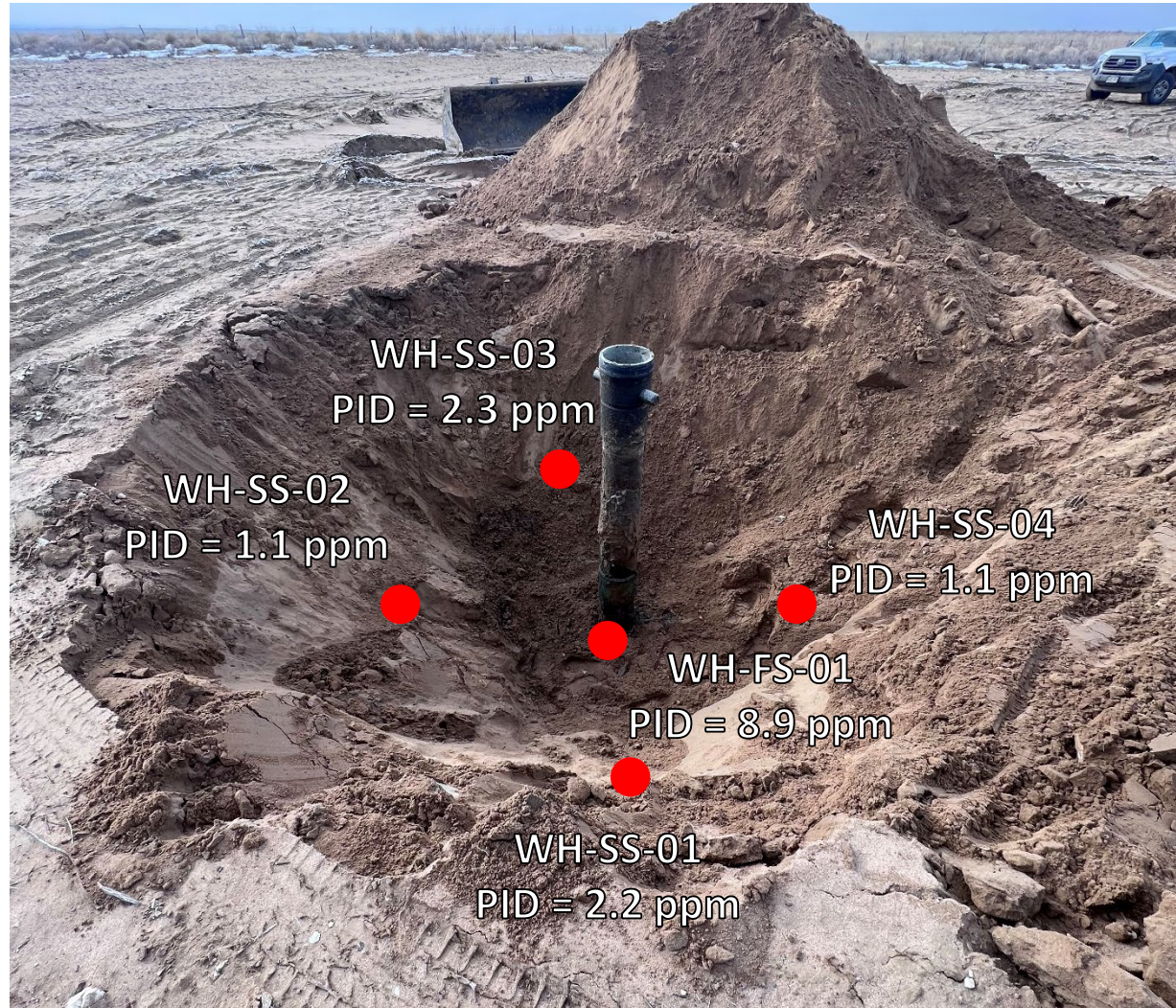
State #16-13
API # 05-123-07146
Remediation # 26953

Closure Assessment

March 2023



Wellhead Excavation – 03/10/23



Looking south

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



March 30, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - State #16-13

Project Number - [none]

Attached are your analytical results for Noble - State #16-13 received by Origins Laboratory, Inc. March 10, 2023. This project is associated with Origins project number Y303298-01.

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 #16-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y303298-01	Soil	March 10, 2023 8:38	03/10/2023 16:27

Chain of Custody Modification Request

On 3/23/2023, Grace Congdon from Eagle Environmental contacted Jordan Bynon via email regarding Y303298 requesting that Table 915 Metals be added to the analysis.

Requested modifications to the chain of custody were made by Jordan Bynon on 3/23/2023.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y303298

Client: Eagle

Client Project ID: State #16-13

Checklist Completed by: DE

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

Date/time completed: 03/16/2023

Airbill #: NA

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

Cooler Number/Temperature: 1/1.3 °C _____ °C _____ °C _____ °C (Describe)

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 3/13/23

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

WH-FS-01@6'
3/10/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303298-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B3C1404	03/14/2023	03/15/2023	U
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	430		25.0	mg/kg	1	B3C1301	03/13/2023	03/15/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: *o*-Terphenyl 99.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C1326	03/13/2023	03/15/2023	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	14.3		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4 128 % 70-130 " " "
 Surrogate: Toluene-d8 91.6 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

WH-FS-01@6'
3/10/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303298-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	87.2 %		70-130			B3C13 26	03/13/2023	03/15/2023	
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Metals by Saturated Paste by EPA 6010

Calcium	2.21		0.499	meq/L	10	[CALC]	03/15/2023	03/17/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	6.36		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.031	0.00549	0.0101	mg/Kg	5	L670250	03/16/2023	03/17/2023	
2-Methylnaphthalene	0.0169	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0162	0.00152	0.00335	"	"	"	"	"	
Anthracene	0.00545	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.00273	0.00197	0.00335	"	"	"	"	"	J
Fluorene	0.054	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

WH-FS-01@6'

3/10/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303298-01 (Soil)

PAH by 8270D SIM

Naphthalene	0.0318	0.0073	0.0101	mg/Kg	5	L670250	03/16/2023	03/17/2023	
Pyrene	0.00795	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	52.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	73.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.52			pH Units	1	B3C1516	03/15/2023	03/16/2023	
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SAR by 20B Saturated Paste

SAR	5.35			SAR	1	B3C1506	03/15/2023	03/17/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.921		0.00500	mmhos/cm	1	B3C1516	03/15/2023	03/16/2023	
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Table 915 metals by EPA 6020B

Arsenic	1.96		0.0883	mg/kg	10	B3C2319	03/23/2023	03/23/2023	
Barium	36.6		8.83	"	"	"	"	"	
Cadmium	0.0963		0.0883	"	"	"	"	"	

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

WH-FS-01@6'

3/10/2023 8:38:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303298-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		8.83	mg/kg	10	B3C2319	03/23/2023	03/23/2023	U
Lead	ND		8.83	"	"	"	"	"	U
Nickel	ND		8.83	"	"	"	"	"	U
Selenium	0.151		0.0883	"	"	"	"	"	
Silver	ND		0.0883	"	"	"	"	"	U
Zinc	ND		88.3	"	"	"	"	"	U

Total Metals by 7196A

Chromium, Hexavalent	ND	0.488	1	mg/Kg	1	L672587	03/10/2023	03/28/2023	
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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 #16-13

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 B3C1301 - EPA 3580										
Blank (B3C1301-BLK1)										
					Prepared: 03/13/2023 Analyzed: 03/15/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		84.6	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1301 - EPA 3580

LCS (B3C1301-BS1)

Prepared: 03/13/2023 Analyzed: 03/15/2023

Diesel (C10-C28)	906	50.0	mg/kg	1000		90.6	70-130			
Residual Range Organics (C28-C40)	931	200	"	1000		93.1	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.3	50-150			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1301 - EPA 3580

Matrix Spike (B3C1301-MS1)	Source: Y303278-01			Prepared: 03/13/2023 Analyzed: 03/15/2023						
Diesel (C10-C28)	860	50.0	mg/kg	1000	ND	86.0	70-130			
Residual Range Organics (C28-C40)	876	200	"	1000	ND	87.6	70-130			
Surrogate: o-Terphenyl	40		"	49.8		81.0	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1301 - EPA 3580

Matrix Spike Dup (B3C1301-MSD1)	Source: Y303278-01			Prepared: 03/13/2023 Analyzed: 03/15/2023						
Diesel (C10-C28)	843	50.0	mg/kg	1000	ND	84.3	70-130	2.04	35	
Residual Range Organics (C28-C40)	856	200	"	1000	ND	85.6	70-130	2.25	35	
<i>Surrogate: o-Terphenyl</i>	40		"	49.8		81.3	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1326 - EPA 5030 (soil)

Blank (B3C1326-BLK1)

Prepared: 03/13/2023 Analyzed: 03/14/2023

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	0.15		"	0.125	116		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	96.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.4		70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1326 - EPA 5030 (soil)

LCS (B3C1326-BS1)

Prepared: 03/13/2023 Analyzed: 03/14/2023

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100		111	70-130			
Benzene	0.0932	0.00200	"	0.100		93.2	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.0933	0.00200	"	0.100		93.3	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.211	0.00400	"	0.200		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.9	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1326 - EPA 5030 (soil)

Matrix Spike (B3C1326-MS1)	Source: Y303263-01			Prepared: 03/13/2023 Analyzed: 03/14/2023						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0934	0.00200	"	0.100	ND	93.4	70-130			
Ethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Naphthalene	0.0797	0.00380	"	0.100	ND	79.7	70-130			
Toluene	0.0944	0.00200	"	0.100	ND	94.4	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		108	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C1326 - EPA 5030 (soil)

Matrix Spike Dup (B3C1326-MSD1)	Source: Y303263-01			Prepared: 03/13/2023 Analyzed: 03/14/2023						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	2.51	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.37	20	
Benzene	0.0980	0.00200	"	0.100	ND	98.0	70-130	4.74	20	
Ethylbenzene	0.0999	0.00200	"	0.100	ND	99.9	70-130	0.857	20	
Naphthalene	0.0993	0.00380	"	0.100	ND	99.3	70-130	21.9	20	QR-02
Toluene	0.100	0.00200	"	0.100	ND	100	70-130	5.82	20	
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130	1.60	20	
m,p-Xylene	0.204	0.00400	"	0.200	ND	102	70-130	0.118	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.4	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C2319 - EPA 3050B

Blank (B3C2319-BLK1)

Prepared: 03/23/2023 Analyzed: 03/23/2023

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

LCS (B3C2319-BS1)

Prepared: 03/23/2023 Analyzed: 03/23/2023

Arsenic	0.0549	0.000100	mg/kg	0.0500		110	80-120			
Barium	5.40	0.0100	"	5.00		108	80-120			
Cadmium	0.0532	0.000100	"	0.0500		106	80-120			
Copper	0.554	0.0100	"	0.500		111	80-120			
Lead	0.0530	0.0100	"	0.0500		106	80-120			
Nickel	0.0518	0.0100	"	0.0500		104	80-120			
Selenium	0.0501	0.000100	"	0.0500		100	80-120			
Silver	0.0491	0.000100	"	0.0500		98.2	80-120			
Zinc	0.534	0.100	"	0.500		107	80-120			

Matrix Spike (B3C2319-MS1)

Source: Y303298-01

Prepared: 03/23/2023 Analyzed: 03/23/2023

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - State #16-13

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 B3C2319 - EPA 3050B

Matrix Spike (B3C2319-MS1)		Source: Y303298-01			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Arsenic	5.91	0.0898	mg/kg	4.49	1.96	88.0	75-125			
Barium	488	8.98	"	449	36.6	101	75-125			
Cadmium	4.62	0.0898	"	4.49	0.0963	101	75-125			
Copper	51.0	8.98	"	44.9	4.67	103	75-125			
Lead	10.0	8.98	"	4.49	8.62	30.9	75-125			QM-07
Nickel	7.01	8.98	"	4.49	3.93	68.6	75-125			QM-07, U
Selenium	4.31	0.0898	"	4.49	0.151	92.5	75-125			
Silver	4.28	0.0898	"	4.49	0.0265	94.7	75-125			
Zinc	57.5	89.8	"	44.9	18.6	86.8	75-125			U

Matrix Spike Dup (B3C2319-MSD1)		Source: Y303298-01			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Arsenic	6.03	0.0934	mg/kg	4.67	1.96	87.1	75-125	1.95	20	
Barium	499	9.34	"	467	36.6	99.1	75-125	2.23	20	
Cadmium	4.77	0.0934	"	4.67	0.0963	100	75-125	3.34	20	
Copper	52.3	9.34	"	46.7	4.67	102	75-125	2.54	20	
Lead	10.7	9.34	"	4.67	8.62	44.8	75-125	6.80	20	QM-07
Nickel	7.37	9.34	"	4.67	3.93	73.7	75-125	5.00	20	QM-07, U
Selenium	4.42	0.0934	"	4.67	0.151	91.4	75-125	2.58	20	
Silver	4.39	0.0934	"	4.67	0.0265	93.4	75-125	2.55	20	
Zinc	62.2	93.4	"	46.7	18.6	93.5	75-125	7.85	20	U

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Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

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 B3C1404 - DTPA Sorbitol Preparation										
Blank (B3C1404-BLK1)					Prepared: 03/14/2023 Analyzed: 03/15/2023					
Boron	ND	0.100	mg/L							U
Duplicate (B3C1404-DUP1)		Source: Y303259-05			Prepared: 03/14/2023 Analyzed: 03/15/2023					
Boron	5.84	0.0981	mg/L		7.07			19.1	50	
Batch B3C1506 - Saturated Paste Metals										
Blank (B3C1506-BLK1)					Prepared: 03/15/2023 Analyzed: 03/17/2023					
SAR	0.00		SAR							U
Calcium PPM	ND	10.0	mg/L							U
Magnesium PPM	ND	10.0	"							U
Sodium PPM	ND	10.0	"							U
Duplicate (B3C1506-DUP1)		Source: Y303267-04			Prepared: 03/15/2023 Analyzed: 03/17/2023					
SAR	0.00		SAR		0.957			200	200	U
Calcium PPM	50.7	10.0	mg/L		57.0			11.8	50	
Magnesium PPM	13.8	10.0	"		15.2			9.62	50	
Sodium PPM	29.0	10.0	"		31.5			8.31	50	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3C1516 - Saturated Paste pH/EC										
Blank (B3C1516-BLK1)					Prepared: 03/15/2023 Analyzed: 03/16/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B3C1516-DUP1)					Source: Y303267-04 Prepared: 03/15/2023 Analyzed: 03/16/2023					
pH	7.98		pH Units		8.00			0.250	25	
Specific Conductance (EC)	0.708	0.00500	mmhos/cm		0.717			1.25	25	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

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 L672587 -										
DUP (L 86725-DUP)		Source: 86725			Prepared: Analyzed: 03/28/2023					
Chromium, Hexavalent	ND	2.56	mg/Kg		<2.56		-	0	20	
MS (L 86725-MS)		Source: 86725			Prepared: Analyzed: 03/28/2023					
Chromium, Hexavalent	29.7	2.5	mg/Kg	38.5	<1.22	77	75-125			
LCS (LCS)		Prepared: Analyzed: 03/28/2023								
Chromium, Hexavalent	6.78	0.5	mg/Kg	8		85	75-125			
LRB (LRB)		Prepared: Analyzed: 03/28/2023								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

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 L670250 - 3550B

MSD (L 98530-MSD-L670250)	Source: 98530		Prepared: 03/16/2023 Analyzed: 03/17/2023							
Naphthalene	0.097	0.00201	mg/Kg	0.165	<0.00145	58.7	30-130	2.5	30	
Pyrene	0.112	0.00067	"	0.165	<0.000643	67.8	30-130	2.7	30	
Benzo(a)anthracene	0.112	0.00067	"	0.165	<0.000493	67.8	30-130	3.5	30	
1-Methylnaphthalene	0.103	0.00201	"	0.165	<0.00109	62.4	30-130	0.9	30	
2-Methylnaphthalene	0.103	0.00201	"	0.165	<0.00194	62.4	30-130	1.9	30	
Indeno(1,2,3-cd)pyrene	0.111	0.00067	"	0.165	<0.000627	67.2	30-130	5.5	30	
Anthracene	0.121	0.00067	"	0.165	<0.000334	73.3	30-130	2.5	30	
Benzo(a)pyrene	0.123	0.00067	"	0.165	<0.000468	74.5	30-130	2.4	30	
Benzo(b)fluoranthene	0.0803	0.00067	"	0.165	<0.000585	48.6	30-130	11.1	30	
Benzo(k)fluoranthene	0.0985	0.00067	"	0.165	<0.000437	59.6	30-130	9.2	30	
Chrysene	0.119	0.00067	"	0.165	<0.000624	72.1	30-130	7.8	30	
Dibenz(a,h)anthracene	0.153	0.00067	"	0.165	<0.000614	92.7	30-130	6.7	30	
Fluoranthene	0.115	0.00067	"	0.165	<0.000394	69.6	30-130	2.6	30	
Fluorene	0.116	0.00067	"	0.165	<0.000286	70.3	30-130	0.8	30	
Acenaphthene	0.107	0.00067	"	0.165	<0.000304	64.8	30-130	0	30	
<i>Surrogate: Nitrobenzene-d5</i>	<i>51.8</i>	<i>"</i>	<i>"</i>	<i>0.33</i>	<i>172</i>	<i>51.8</i>	<i>29-110</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>54.5</i>	<i>"</i>	<i>"</i>	<i>0.33</i>	<i>176</i>	<i>54.5</i>	<i>33-115</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>60.9</i>	<i>"</i>	<i>"</i>	<i>0.33</i>	<i>204</i>	<i>60.9</i>	<i>33-122</i>			

MS (L 98530-MS-L670250)	Source: 98530		Prepared: 03/16/2023 Analyzed: 03/17/2023							
Indeno(1,2,3-cd)pyrene	0.105	0.00067	mg/Kg	0.166	<0.000627	63.2	30-130			
Benzo(a)pyrene	0.12	0.00067	"	0.166	<0.000468	72.2	30-130			
Pyrene	0.109	0.00067	"	0.166	<0.000643	65.6	30-130			
Naphthalene	0.0946	0.00201	"	0.166	<0.00145	56.9	30-130			
Fluorene	0.115	0.00067	"	0.166	<0.000286	69.2	30-130			
Benzo(k)fluoranthene	0.108	0.00067	"	0.166	<0.000437	65	30-130			
1-Methylnaphthalene	0.102	0.00201	"	0.166	<0.00109	61.4	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

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 L670250 - 3550B

MS (L 98530-MS-L670250)		Source: 98530			Prepared: 03/16/2023 Analyzed: 03/17/2023					
2-Methylnaphthalene	0.101	0.00201	mg/Kg	0.166	<0.00194	60.8	30-130			
Acenaphthene	0.107	0.00067	"	0.166	<0.000304	64.4	30-130			
Anthracene	0.118	0.00067	"	0.166	<0.000334	71	30-130			
Benzo(a)anthracene	0.116	0.00067	"	0.166	<0.000493	69.8	30-130			
Benzo(b)fluoranthene	0.0898	0.00067	"	0.166	<0.000585	54	30-130			
Chrysene	0.11	0.00067	"	0.166	<0.000624	66.2	30-130			
Dibenz(a,h)anthracene	0.143	0.00067	"	0.166	<0.000614	86.1	30-130			
Fluoranthene	0.112	0.00067	"	0.166	<0.000394	67.4	30-130			
Surrogate: Nitrobenzene-d5	51		"	0.331	172	51	29-110			
Surrogate: 4-Terphenyl-d14	57		"	0.331	204	57	33-122			
Surrogate: 2-Fluorobiphenyl	52.8		"	0.331	176	52.8	33-115			

LCS (LCS-L670250)		Prepared: 03/16/2023 Analyzed: 03/17/2023								
Fluoranthene	0.135	0.00067	mg/Kg	0.167		80.8	30-130			
Fluorene	0.14	0.00067	"	0.167		83.8	30-130			
Pyrene	0.132	0.00067	"	0.167		79	30-130			
Naphthalene	0.122	0.00201	"	0.167		73	30-130			
Benzo(a)anthracene	0.135	0.00067	"	0.167		80.8	30-130			
1-Methylnaphthalene	0.127	0.00201	"	0.167		76	30-130			
2-Methylnaphthalene	0.126	0.00201	"	0.167		75.4	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Benzo(a)pyrene	0.147	0.00067	"	0.167		88	30-130			
Benzo(b)fluoranthene	0.095	0.00067	"	0.167		56.8	30-130			
Benzo(k)fluoranthene	0.117	0.00067	"	0.167		70	30-130			
Chrysene	0.131	0.00067	"	0.167		78.4	30-130			
Dibenz(a,h)anthracene	0.166	0.00067	"	0.167		99.4	30-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

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 L670250 - 3550B

LCS (LCS-L670250)

Prepared: 03/16/2023 Analyzed: 03/17/2023

Acenaphthene	0.129	0.00067	mg/Kg	0.167		77.2	30-130			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			

LRB (LRB-L670250)

Prepared: 03/16/2023 Analyzed: 03/17/2023

1-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Indeno(1,2,3-cd)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(k)fluoranthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Surrogate: Nitrobenzene-d5	57.6		"	0.333		57.6	29-110			
Surrogate: 4-Terphenyl-d14	73.2		"	0.333		73.2	33-122			
Surrogate: 2-Fluorobiphenyl	62.7		"	0.333		62.7	33-115			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 #16-13

Notes and Definitions

U Sample is Non-Detect.

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

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.

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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April 05, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - State #16-13

Project Number - [none]

Attached are your analytical results for Noble - State #16-13 received by Origins Laboratory, Inc. March 24, 2023. This project is associated with Origins project number Y303653-01.

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 #16-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@3'	Y303653-01	Soil	March 10, 2023 8:40	03/24/2023 08:50

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 #16-13

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

Sample Receipt Checklist

Origins Work Order: 4303053 Client: Eagle Environ-
 Client Project ID: State #16-13

Checklist Completed by: TSH Shipped Via: HD
 Date/time completed: 3/24/23 (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 / 4 °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⁾ ?	/			
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 3/27/23

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 #16-13

Background-01@3'
3/10/2023 8:40:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303653-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.20	0.0880	mg/kg	10	B3C2420	CNG	03/24/2023	03/28/2023	
Barium	27.3	8.80	"	"	"	CNG	"	"	
Cadmium	ND	0.0880	"	"	"	CNG	"	"	
Copper	ND	8.80	"	"	"	CNG	"	"	
Lead	ND	8.80	"	"	"	CNG	"	"	
Nickel	ND	8.80	"	"	"	CNG	"	"	
Selenium	ND	0.0880	"	"	"	CNG	"	"	
Silver	ND	0.0880	"	"	"	CNG	"	"	
Zinc	ND	88.0	"	"	"	CNG	"	"	

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 #16-13

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 B3C2420 - EPA 3050B

Blank (B3C2420-BLK1)

Prepared: 03/24/2023 Analyzed: 03/28/2023

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 (B3C2420-BS1)

Prepared: 03/24/2023 Analyzed: 03/28/2023

Arsenic	0.0460	0.000100	mg/kg	0.0500		92.1	80-120			
Barium	4.92	0.0100	"	5.00		98.4	80-120			
Cadmium	0.0505	0.000100	"	0.0500		101	80-120			
Copper	0.476	0.0100	"	0.500		95.2	80-120			
Lead	0.0524	0.0100	"	0.0500		105	80-120			
Nickel	0.0503	0.0100	"	0.0500		101	80-120			
Selenium	0.0495	0.000100	"	0.0500		98.9	80-120			
Silver	0.0522	0.000100	"	0.0500		104	80-120			
Zinc	0.465	0.100	"	0.500		93.0	80-120			

Matrix Spike (B3C2420-MS1)

Source: Y303566-01

Prepared: 03/24/2023 Analyzed: 03/28/2023

Arsenic	10.1	0.0912	mg/kg	4.56	3.11	153	75-125			QM-07
Barium	549	9.12	"	456	73.8	104	75-125			
Cadmium	4.71	0.0912	"	4.56	0.0681	102	75-125			
Copper	47.6	9.12	"	45.6	4.66	94.2	75-125			
Lead	15.5	9.12	"	4.56	5.96	208	75-125			QM-07

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 #16-13

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 B3C2420 - EPA 3050B										
Matrix Spike (B3C2420-MS1)			Source: Y303566-01			Prepared: 03/24/2023 Analyzed: 03/28/2023				
Nickel	11.4	9.12	mg/kg	4.56	6.35	112	75-125			
Selenium	4.46	0.0912	"	4.56	0.0989	95.7	75-125			
Silver	4.49	0.0912	"	4.56	0.0218	97.9	75-125			
Zinc	74.7	91.2	"	45.6	26.9	105	75-125			
Matrix Spike Dup (B3C2420-MSD1)			Source: Y303566-01			Prepared: 03/24/2023 Analyzed: 03/28/2023				
Arsenic	6.60	0.0851	mg/kg	4.25	3.11	82.0	75-125	41.9	20	QR-DUP
Barium	486	8.51	"	425	73.8	96.9	75-125	12.1	20	
Cadmium	4.24	0.0851	"	4.25	0.0681	98.1	75-125	10.5	20	
Copper	42.1	8.51	"	42.5	4.66	88.0	75-125	12.2	20	
Lead	9.66	8.51	"	4.25	5.96	87.0	75-125	46.2	20	QR-DUP
Nickel	9.12	8.51	"	4.25	6.35	65.2	75-125	22.6	20	QM-07, QR-DUP
Selenium	4.29	0.0851	"	4.25	0.0989	98.5	75-125	3.89	20	
Silver	4.14	0.0851	"	4.25	0.0218	96.8	75-125	7.99	20	
Zinc	64.4	85.1	"	42.5	26.9	88.2	75-125	14.9	20	

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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.

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Martin C Eckert III
Project Number: [none]
Project: Noble - State #16-13

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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