

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: 70 Ranch USX BB #23-08		Date: 08/23/23				Remediation Project #: 30236			
Associated Wells: 05-123-29672		Age of Site: Years				Number of Photos Attached: 8			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.386529 / -104.396486			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. 20-40'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)									
Strong hydrocarbon odor observed in excavation, no staining.									
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	05-123-29672								
Age	Years								
Condition of surface around wellhead	Good - No Odor/Staining								
PID Readings	WH-N: 4.2	WH-E: 4.7	WH-S: 5.6	WH-W: 4.3					
Condition of subsurface (staining present)	Strong HC odor observed.								
PID Readings	7.6	343.8	14.9	16.1	540.4				
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		Yes - less than 10 cubic yards			Yes - more than 10 cubic yards				
Total number of samples field screened: 9				Total number of samples collected: 9					
Highest PID Reading: 540.4				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:					
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				N/A					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									



FIGURES

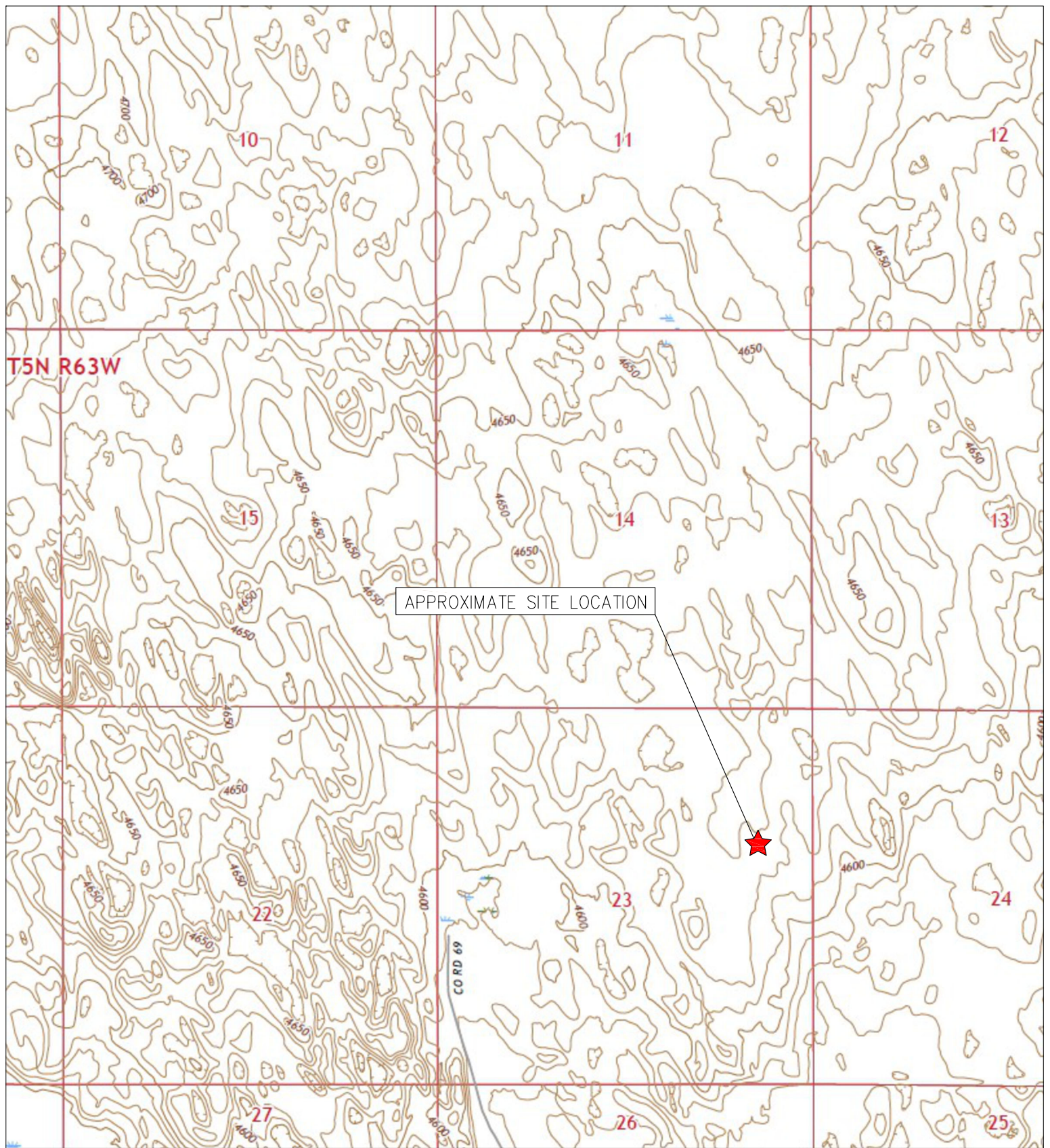
Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map

Figure 5: Metals in Soil Map



TOPOGRAPHIC SITE LOCATION MAP
 70 RANCH USX BB #23-08
 CLOSURE ASSESSMENT
 40.386529 / -104.396486
 SE¼ NE¼ SEC.23 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-29672
 REMEDIATION # 30236




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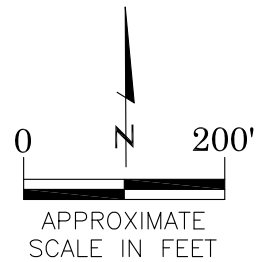
8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449





LEGEND

 FORMER 70 RANCH USX BB #23-08 WELLHEAD (PLUGGED AND ABANDONED)



AERIAL SITE LOCATION MAP
70 RANCH USX BB #23-08
CLOSURE ASSESSMENT
40.386529 / -104.396486
SE $\frac{1}{4}$ NE $\frac{1}{4}$ SEC.23 T5N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-29672
REMEDIAION # 30236

FIGURE NO.
2

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LEGEND

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

PARAMETERS

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
 70 RANCH USX BB #23-08
 CLOSURE ASSESSMENT
 40.386529 / -104.396486
 SE¼ NE¼ SEC.23 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-29672
 REMEDIATION # 30236

FIGURE NO.
3

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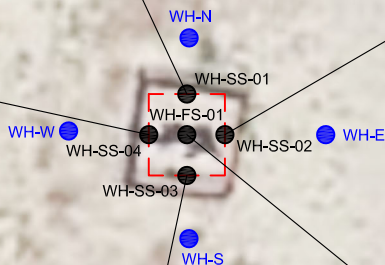
WH-SS-01@5'
 08/11/23
 5'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 N = <0.00380
 G = <0.200
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= <0.101
 EC = 0.754
 SAR= 0.727
 pH = 6.40

WH-SS-02@5'
 08/11/23
 5'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = 0.00676
 N = **0.00434***
 G = **125**
 D = **1260**
 R = **626**
 1,2,4-TMB = <0.00200
 1,3,5-TMB = **0.0525***
 Brn= 0.127
 EC = 0.288
 SAR= 0.131
 pH = 7.13

WH-SS-04@5'
 08/11/23
 5'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 N = <0.00380
 G = <0.200
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= <0.101
 EC = 0.860
 SAR= 0.255
 pH = 7.31

WH-SS-03@5'
 08/11/23
 5'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 N = <0.00380
 G = <0.200
 D = <25.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn= <0.0998
 EC = 0.308
 SAR= 0.0950
 pH = 8.02

WH-FS-01@6'
 08/11/23
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 N = <0.00380
 G = 7.80
 D = 118
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = **0.0263***
 Brn= <0.0999
 EC = 0.408
 SAR= 0.879
 pH = 8.11



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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

POLYCYCLIC AROMATIC HYDROCARBONS MAP
 70 RANCH USX BB #23-08
 CLOSURE ASSESSMENT
 40.386529 / -104.396486
 SE¼ NE¼ SEC.23 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-29672
 REMEDIATION # 30236

FIGURE NO.
4

DRAWN BY:
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WH-SS-01@5'
 08/11/23
 5'

1-Methylnaphthalene = 0.0017
 2-Methylnaphthalene = <0.00201
 Acenaphthene = <0.00067
 Anthracene = <0.00067
 Benzo(a)anthracene = <0.00067
 Benzo(a)pyrene = <0.00067
 Benzo(b)fluoranthene = <0.00067
 Benzo(k)fluoranthene = <0.00067
 Chrysene = <0.00067
 Dibenzo(a,h)anthracene = <0.00067
 Fluoranthene = <0.00067
 Fluorene = 0.00061
 Indeno(1,2,3-CD)pyrene = <0.00067
 Pyrene = <0.00067

WH-SS-02@5'
 08/11/23
 5'

1-Methylnaphthalene = **1.29***
 2-Methylnaphthalene = **0.78***
 Acenaphthene = 0.0751
 Anthracene = <0.00335
 Benzo(a)anthracene = **0.0339***
 Benzo(a)pyrene = <0.00335
 Benzo(b)fluoranthene = <0.00335
 Benzo(k)fluoranthene = <0.00335
 Chrysene = 0.0691
 Dibenzo(a,h)anthracene = <0.00335
 Fluoranthene = 0.0053
 Fluorene = 0.245
 Indeno(1,2,3-CD)pyrene = 0.00337
 Pyrene = 0.0243

WH-SS-04@5'
 08/11/23
 5'

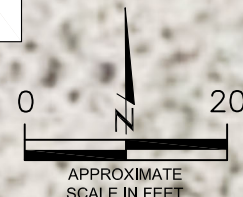
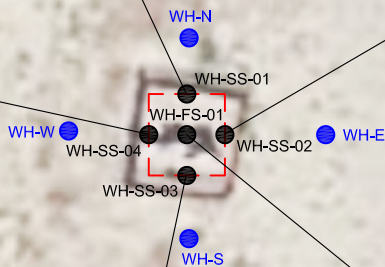
1-Methylnaphthalene = <0.00201
 2-Methylnaphthalene = <0.00201
 Acenaphthene = <0.00067
 Anthracene = <0.00067
 Benzo(a)anthracene = <0.00067
 Benzo(a)pyrene = <0.00067
 Benzo(b)fluoranthene = <0.00067
 Benzo(k)fluoranthene = <0.00067
 Chrysene = 0.00114
 Dibenzo(a,h)anthracene = <0.00067
 Fluoranthene = <0.00067
 Fluorene = 0.000686
 Indeno(1,2,3-CD)pyrene = <0.00067
 Pyrene = <0.00067

WH-SS-03@5'
 08/11/23
 5'

1-Methylnaphthalene = 0.0025
 2-Methylnaphthalene = <0.00201
 Acenaphthene = <0.00067
 Anthracene = <0.00067
 Benzo(a)anthracene = <0.00067
 Benzo(a)pyrene = <0.00067
 Benzo(b)fluoranthene = <0.00067
 Benzo(k)fluoranthene = <0.00067
 Chrysene = <0.00067
 Dibenzo(a,h)anthracene = <0.00067
 Fluoranthene = <0.00067
 Fluorene = 0.00107
 Indeno(1,2,3-CD)pyrene = <0.00067
 Pyrene = <0.00067

WH-FS-01@6'
 08/11/23
 6'

1-Methylnaphthalene = **5.46***
 2-Methylnaphthalene = **0.574***
 Acenaphthene = **0.904***
 Anthracene = <0.1
 Benzo(a)anthracene = **0.318***
 Benzo(a)pyrene = <0.1
 Benzo(b)fluoranthene = <0.1
 Benzo(k)fluoranthene = <0.1
 Chrysene = 0.994
 Dibenzo(a,h)anthracene = **0.112**
 Fluoranthene = <0.1
 Fluorene = **2.97***
 Indeno(1,2,3-CD)pyrene = <0.1
 Pyrene = 0.411



LEGEND

- INITIAL ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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 PRESENTED WITH AN ASTERISK (*) EXCEED ECMC TABLE 915-1 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 (1.91 mg/kg) is 1.25*BACKGROUND (1.53 mg/kg).

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

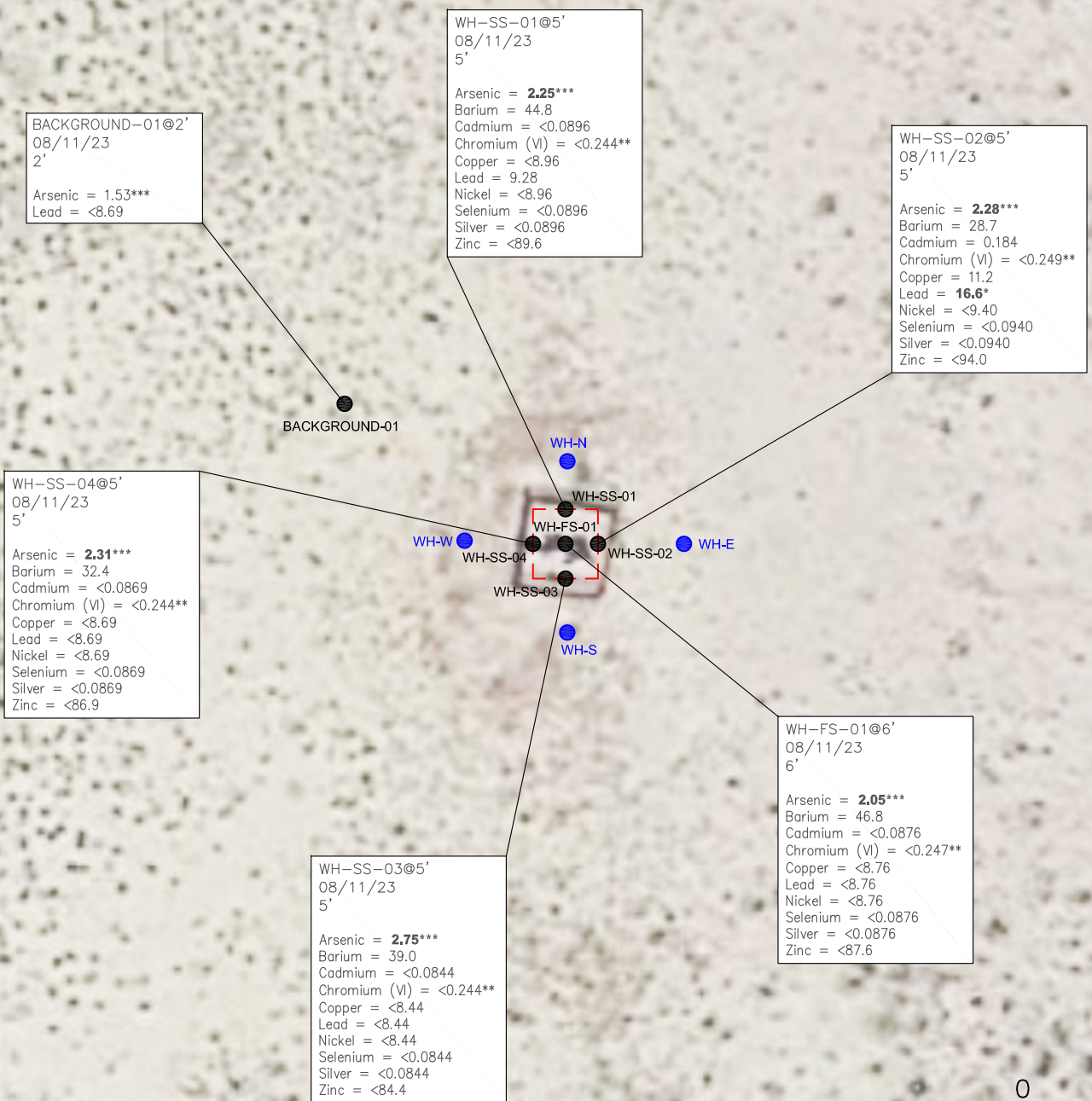
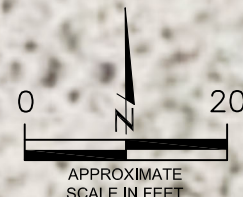
METALS IN SOIL MAP
 70 RANCH USX BB #23-08
 CLOSURE ASSESSMENT
 40.386529 / -104.396486
 SE¼ NE¼ SEC.23 T5N R63W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-29672
 REMEDIATION # 30236

FIGURE NO.
5

DRAWN BY:
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BACKGROUND-01@2'
 08/11/23
 2'
 Arsenic = 1.53***
 Lead = <8.69

WH-SS-01@5'
 08/11/23
 5'
 Arsenic = **2.25*****
 Barium = 44.8
 Cadmium = <0.0896
 Chromium (VI) = <0.244**
 Copper = <8.96
 Lead = 9.28
 Nickel = <8.96
 Selenium = <0.0896
 Silver = <0.0896
 Zinc = <89.6

WH-SS-02@5'
 08/11/23
 5'
 Arsenic = **2.28*****
 Barium = 28.7
 Cadmium = 0.184
 Chromium (VI) = <0.249**
 Copper = 11.2
 Lead = **16.6***
 Nickel = <9.40
 Selenium = <0.0940
 Silver = <0.0940
 Zinc = <94.0

WH-SS-04@5'
 08/11/23
 5'
 Arsenic = **2.31*****
 Barium = 32.4
 Cadmium = <0.0869
 Chromium (VI) = <0.244**
 Copper = <8.69
 Lead = <8.69
 Nickel = <8.69
 Selenium = <0.0869
 Silver = <0.0869
 Zinc = <86.9

WH-SS-03@5'
 08/11/23
 5'
 Arsenic = **2.75*****
 Barium = 39.0
 Cadmium = <0.0844
 Chromium (VI) = <0.244**
 Copper = <8.44
 Lead = <8.44
 Nickel = <8.44
 Selenium = <0.0844
 Silver = <0.0844
 Zinc = <84.4

WH-FS-01@6'
 08/11/23
 6'
 Arsenic = **2.05*****
 Barium = 46.8
 Cadmium = <0.0876
 Chromium (VI) = <0.247**
 Copper = <8.76
 Lead = <8.76
 Nickel = <8.76
 Selenium = <0.0876
 Silver = <0.0876
 Zinc = <87.6



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
70 RANCH USX BB #23-08
CLOSURE ASSESSMENT
40.386529 / -104.396486
SE¼ NE¼ SEC.23 T5N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-29672
REMEDIATION # 30236

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.386539 / -104.396472)	08/11/23	5	7.6	Y
WH-SS-02 @ 5' (40.386527 / -104.396462)	08/11/23	5	343.8	Y
WH-SS-03 @ 5' (40.386519 / -104.396474)	08/11/23	5	14.9	Y
WH-SS-04 @ 5' (40.386529 / -104.396487)	08/11/23	5	16.1	Y
WH-FS-01 @ 6' (40.386528 / -104.396477)	08/11/23	6	540.4	Y
Background-01 @ 2' (40.386579 / -104.396562)	08/11/23	2	8.7	Y
WH-N @ 0.5' (40.386553 / -104.396472)	08/11/23	0.5	4.2	N
WH-E @ 0.5' (40.386525 / -104.396431)	08/11/23	0.5	4.7	N
WH-S @ 0.5' (40.386504 / -104.396475)	08/11/23	0.5	5.6	N
WH-W @ 0.5' (40.386531 / -104.396513)	08/11/23	0.5	4.3	N
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
70 RANCH USX BB #23-08
CLOSURE ASSESSMENT
40.386529 / -104.396486
SE ¼ NE ¼ SEC. 23 T6N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-29672
REMIEDIATION # 30236

Sample Location (Latitude / Longitude)		WH-SS-01 @ 5'	WH-SS-02 @ 5'	WH-SS-03 @ 5'	WH-SS-04 @ 5'	WH-FS-01 @ 6'	Background-01 @ 2'
		(40.386539 / -104.396472)	(40.386527 / -104.396462)	(40.386519 / -104.396474)	(40.386529 / -104.396487)	(40.386528 / -104.396477)	(40.386579 / -104.396562)
Sample Date		8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023	8/11/2023
Sample Depth		5'	5'	5'	5'	6'	2'
PID Reading (ppm-v)		7.6	343.8	14.9	16.1	540.4	8.7
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	<0.00200	<0.00200
Toluene	mg/kg	490	0.69	--	<0.00200	<0.00200	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	<0.00200	<0.00200
Total Xylenes	mg/kg	58	9.9	--	<0.00200	<0.00200	<0.00200
Naphthalene	mg/kg	2	0.0038	--	<0.00380	0.00434*	<0.00380
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	<0.00200	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	0.0525*	<0.00200
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	<0.200	125	<0.200
TPH-DRO	mg/kg	500	--	--	<25.0	1260	<25.0
TPH-RRO	mg/kg	500	--	--	<100	626	<100
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	0.0017	1.29*	0.0025
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.00201	0.78*	<0.00201
Acenaphthene	mg/kg	360	0.55	--	<0.00067	0.0751	<0.00067
Anthracene	mg/kg	1800	5.8	--	<0.00067	<0.00335	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.00067	0.0339	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.00067	<0.00335	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.00067	<0.00335	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.00067	<0.00335	<0.00067
Chrysene	mg/kg	110	9	--	<0.00067	0.0691	0.00114
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.00067	<0.00335	<0.00067
Fluoranthene	mg/kg	240	8.9	--	<0.00067	0.0053	0.000686
Fluorene	mg/kg	240	0.54	--	0.00061	0.245	0.00107
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.00067	0.00337	<0.00067
Pyrene	mg/kg	180	1.3	--	<0.00067	0.0243	<0.00067
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	<0.101	0.127	<0.0998
pH	standard unit	6-8.3	--	--	6.40	7.13	8.02
Sodium Adsorption Ratio (SAR)	--	<6	--	--	0.727	0.131	0.0950
Specific Conductance (EC)	mmhos/cm	<4	--	--	0.754	0.288	0.308
METALS							
Arsenic	mg/kg	0.68***	0.29***	1.91***	2.25***	2.28***	2.75***
Barium	mg/kg	15000	82	--	44.8	28.7	39.0
Cadmium	mg/kg	71	0.38	--	<0.0896	0.184	<0.0844
Copper	mg/kg	3100	46	--	<8.96	11.2	<8.44
Lead	mg/kg	400	14	--	9.28	16.6*	<8.44
Nickel	mg/kg	1500	26	--	<8.96	<8.44	<8.44
Selenium	mg/kg	390	0.26	--	<0.0896	<0.0940	<0.0844
Silver	mg/kg	390	0.8	--	<0.0896	<0.0940	<0.0844
Zinc	mg/kg	23000	370	--	<89.6	<94.0	<84.4
Hexavalent Chromium	mg/kg	0.3**	0.00067**	0.1 to 1.0**	<0.244**	<0.249**	<0.244**
ECMC = Energy & Carbon Management Commission		NA - Not Analyzed		VOCs - Volatile Organic Compounds			
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels					
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels					
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics					
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics					
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics					
SAR = Sodium Adsorption Ratio							
Notes:							
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.							
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.							
**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

70 Ranch USX BB #23-08
API # 05-123-29672
Remediation # 30236

Closure Assessment

August 2023



Wellhead Excavation – 08/23/23



Looking north

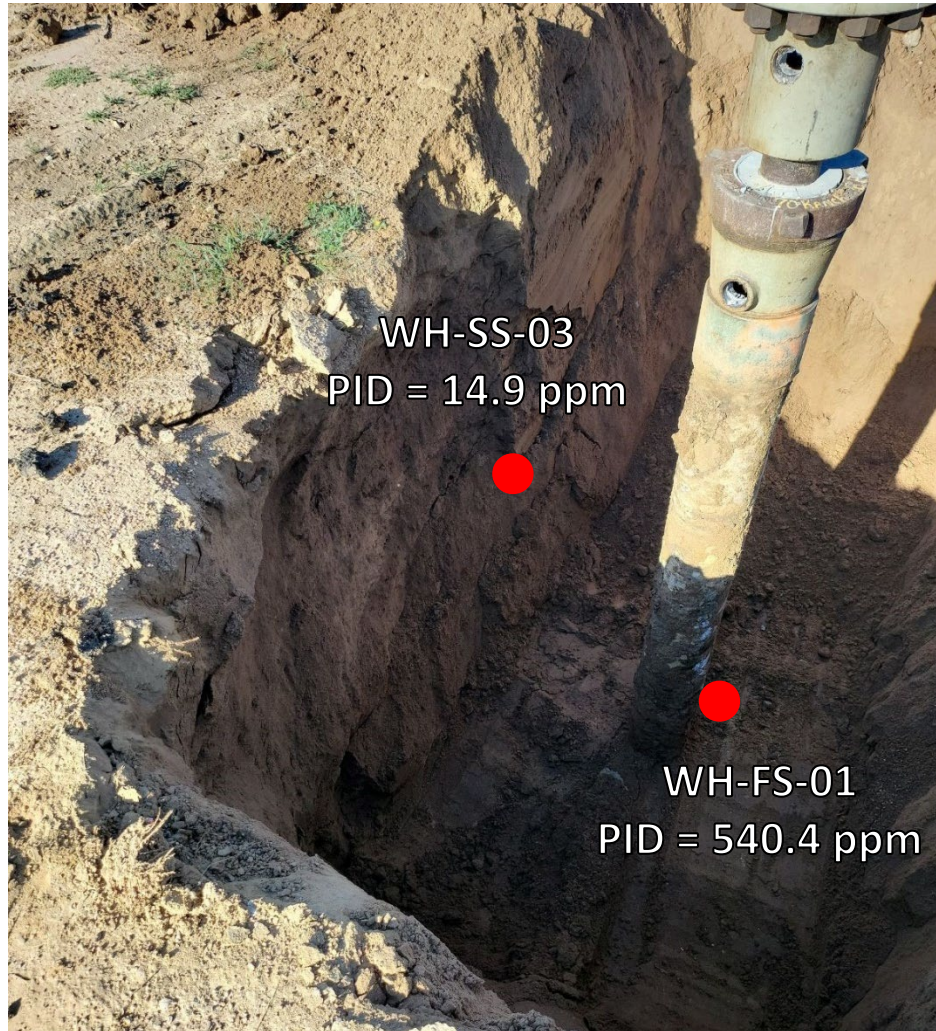
Strong petroleum hydrocarbon odor observed on east sidewall and base of excavation; no staining observed



Looking northeast

Strong petroleum hydrocarbon odor observed on east sidewall and base of excavation; no staining observed

Wellhead Excavation – 08/23/23



Looking southwest

Strong petroleum hydrocarbon odor observed on east sidewall and base of excavation; no staining observed



Looking west

Strong petroleum hydrocarbon odor observed on east sidewall and base of excavation; no staining observed

Wellhead Surface – 08/23/23



Looking west

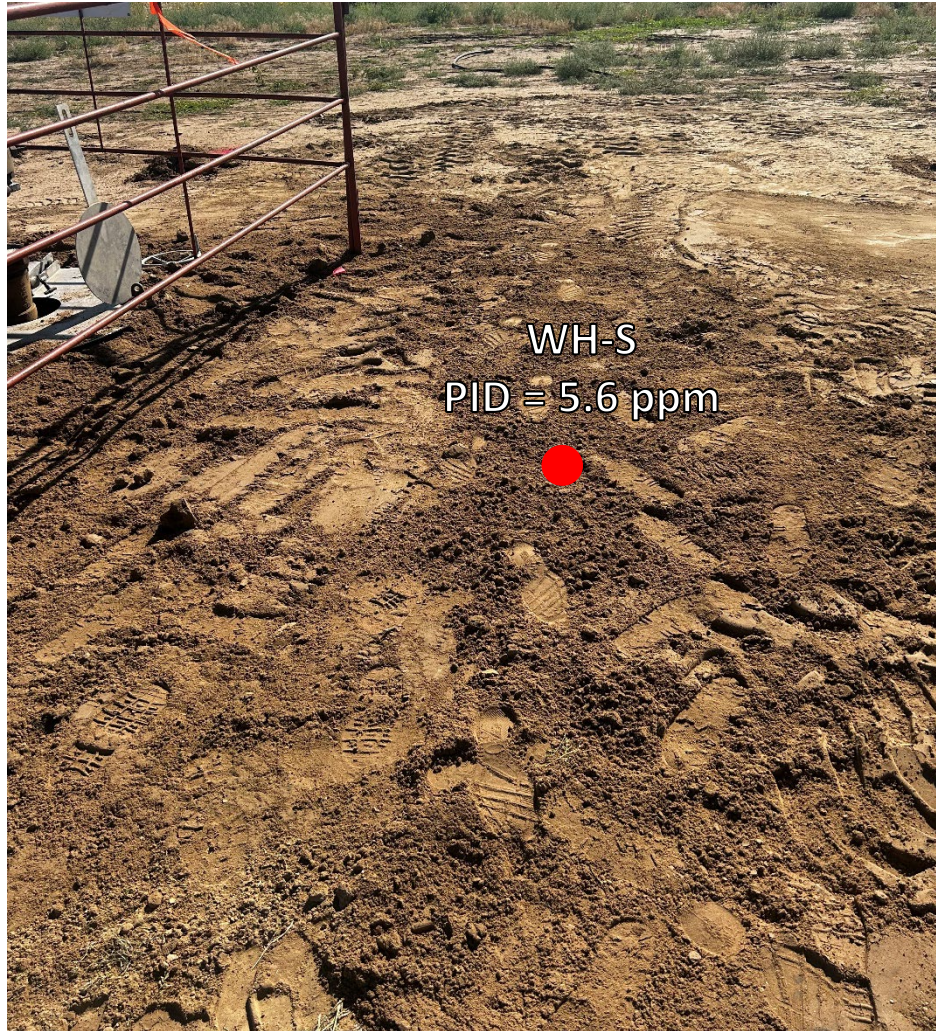
Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking north

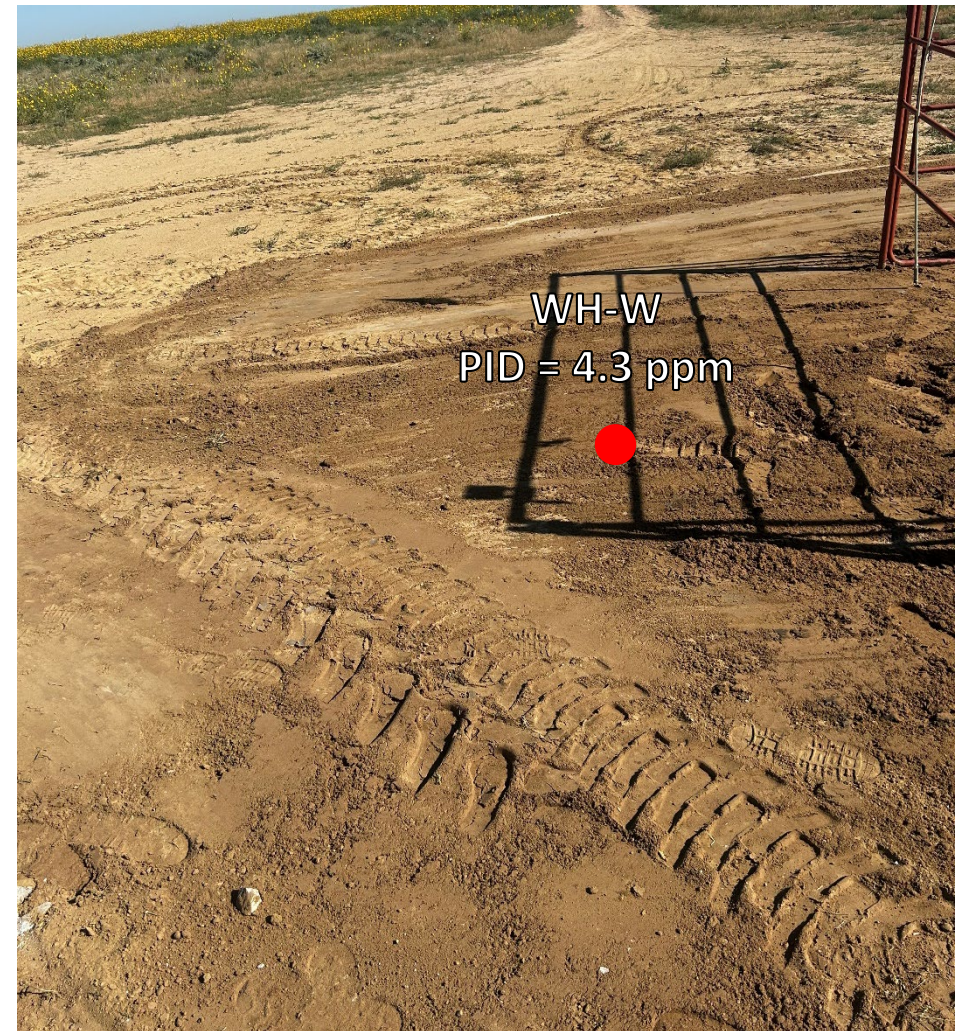
Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead

Wellhead Surface – 08/23/23



Looking east

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



Looking north

Site in good condition – no petroleum hydrocarbon staining or odor
Observed on surface around wellhead



ATTACHMENT B

Laboratory Analytical Reports



August 23, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - 70 Ranch USX BB #23-08 Project Number - [none]

Attached are your analytical results for Noble - 70 Ranch USX BB #23-08 received by Origins Laboratory, Inc. August 11, 2023. This project is associated with Origins project number Y308330-01.

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 - 70 Ranch USX BB #23-08

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y308330-01	Soil	August 11, 2023 9:16	08/11/2023 16:10
WH-SS-02@5'	Y308330-02	Soil	August 11, 2023 9:18	08/11/2023 16:10
WH-SS-03@5'	Y308330-03	Soil	August 11, 2023 9:20	08/11/2023 16:10
WH-SS-04@5'	Y308330-04	Soil	August 11, 2023 9:22	08/11/2023 16:10
WH-FS-01@6'	Y308330-05	Soil	August 11, 2023 9:24	08/11/2023 16:10

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 - 70 Ranch USX BB #23-08

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y309330

Client: Eagle
 Client Project ID: 70 Ranch USX BB 23-C

Checklist Completed by: EHS

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

Date/time completed: 2/11/23

Airbill #: N/A

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

Cooler Number/Temperature: 118.1 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7004

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 2/15/23

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

WH-SS-01@5'
8/11/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B3H1714	08/17/2023	08/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1425	08/14/2023	08/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	113 %		50-150			"	"	"	
------------------------	-------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1516	08/15/2023	08/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - 70 Ranch USX BB #23-08

WH-SS-01@5'

8/11/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.9 %		70-130			B3H15 16	08/15/2023	08/16/2023	
Surrogate: Toluene-d8	97.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.3 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	3.37		0.499	meq/L	10	[CALC]	08/17/2023	08/18/2023	
Magnesium	1.28		0.823	"	"	"	"	"	
Sodium	1.11		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0017	0.00109	0.00201	mg/Kg	1	L698821	08/16/2023	08/16/2023	J
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.



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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 - 70 Ranch USX BB #23-08

WH-SS-01@5'

8/11/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308330-01 (Soil)

PAH by 8270D SIM

Fluorene	0.00061	0.000286	0.00067	mg/Kg	1	L698821	08/16/2023	08/16/2023	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	61 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	57.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	6.40			pH Units	1	B3H1721	08/17/2023	08/18/2023	
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SAR by 20B Saturated Paste

SAR	0.727			SAR	1	B3H1717	08/17/2023	08/18/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.754		0.00500	mmhos/cm	1	B3H1721	08/17/2023	08/18/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.25		0.0896	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Barium	44.8		8.96	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-SS-01@5'

8/11/2023 9:16:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-01 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0896	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Copper	ND		8.96	"	"	"	"	"	
Lead	9.28		8.96	"	"	"	"	"	
Nickel	ND		8.96	"	"	"	"	"	
Selenium	ND		0.0896	"	"	"	"	"	
Silver	ND		0.0896	"	"	"	"	"	
Zinc	ND		89.6	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L699198	08/11/2023	08/17/2023	
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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 - 70 Ranch USX BB #23-08

WH-SS-02@5'

8/11/2023 9:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.127		0.102	mg/L	1	B3H1714	08/17/2023	08/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1260		25.0	mg/kg	1	B3H1425	08/14/2023	08/17/2023	
Residual Range Organics (C28-C40)	626		100	"	"	"	"	"	

Surrogate: o-Terphenyl	99.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1516	08/15/2023	08/17/2023	U
1,3,5-Trimethylbenzene	0.0525		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	0.00434		0.00380	"	"	"	"	"	
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00676		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	125		5.00	"	25	"	"	08/18/2023	

Surrogate: 1,2-Dichloroethane-d4	85.4 %		70-130			"	"	08/17/2023	
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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 - 70 Ranch USX BB #23-08

WH-SS-02@5'

8/11/2023 9:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.9 %		70-130			B3H15 16	08/15/2023	08/17/2023	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.89		0.499	meq/L	10	[CALC]	08/17/2023	08/18/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	1.29	0.00549	0.0101	mg/Kg	5	L698821	08/16/2023	08/16/2023	
2-Methylnaphthalene	0.78	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.0751	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	0.0339	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	0.0691	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	0.0053	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.245	0.00143	0.00335	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-SS-02@5'

8/11/2023 9:18:00AM

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

Waypoint Analytical, LLC.
Y308330-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00337	0.00314	0.00335	mg/Kg	5	L698821	08/16/2023	08/16/2023	
Pyrene	0.0243	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	62.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	36.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	76.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.13			pH Units	1	B3H1721	08/17/2023	08/18/2023	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

SAR	0.131			SAR	1	B3H1717	08/17/2023	08/18/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.288		0.00500	mmhos/cm	1	B3H1721	08/17/2023	08/18/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.28		0.0940	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Barium	28.7		9.40	"	"	"	"	"	
Cadmium	0.184		0.0940	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-SS-02@5'

8/11/2023 9:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-02 (Soil)

Table 915 metals by EPA 6020B

Copper	11.2		9.40	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Lead	16.6		9.40	"	"	"	"	"	
Nickel	ND		9.40	"	"	"	"	"	
Selenium	ND		0.0940	"	"	"	"	"	
Silver	ND		0.0940	"	"	"	"	"	
Zinc	ND		94.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.249	0.511	mg/Kg	1	L699198	08/11/2023	08/17/2023	
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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 - 70 Ranch USX BB #23-08

WH-SS-03@5'
8/11/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0998	mg/L	1	B3H1714	08/17/2023	08/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1425	08/14/2023	08/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	116%		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1516	08/15/2023	08/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - 70 Ranch USX BB #23-08

WH-SS-03@5'

8/11/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	86.6 %		70-130			B3H15 16	08/15/2023	08/16/2023	
Surrogate: Toluene-d8	94.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.01		0.499	meq/L	10	[CALC]	08/17/2023	08/18/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.0025	0.00109	0.00201	mg/Kg	1	L698821	08/16/2023	08/16/2023	
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	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-SS-03@5'

8/11/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308330-03 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L698821	08/16/2023	08/16/2023	
Fluorene	0.00107	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	46.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	50.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.02			pH Units	1	B3H1721	08/17/2023	08/18/2023	
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SAR by 20B Saturated Paste

SAR	0.0950			SAR	1	B3H1717	08/17/2023	08/18/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.308		0.00500	mmhos/cm	1	B3H1721	08/17/2023	08/18/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.75		0.0844	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
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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 - 70 Ranch USX BB #23-08

WH-SS-03@5'

8/11/2023 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-03 (Soil)

Table 915 metals by EPA 6020B

Barium	39.0		8.44	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Cadmium	ND		0.0844	"	"	"	"	"	
Copper	ND		8.44	"	"	"	"	"	
Lead	ND		8.44	"	"	"	"	"	
Nickel	ND		8.44	"	"	"	"	"	
Selenium	ND		0.0844	"	"	"	"	"	
Silver	ND		0.0844	"	"	"	"	"	
Zinc	ND		84.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.501	mg/Kg	1	L699198	08/11/2023	08/17/2023	
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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 - 70 Ranch USX BB #23-08

WH-SS-04@5'
8/11/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.101	mg/L	1	B3H1714	08/17/2023	08/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3H1425	08/14/2023	08/17/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	116%		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1516	08/15/2023	08/16/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

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 - 70 Ranch USX BB #23-08

WH-SS-04@5'

8/11/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	87.8 %		70-130			B3H15 16	08/15/2023	08/16/2023	
Surrogate: Toluene-d8	96.5 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	98.1 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.83		0.499	meq/L	10	[CALC]	08/17/2023	08/18/2023	
Magnesium	1.72		0.823	"	"	"	"	"	
Sodium	0.495		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L698821	08/16/2023	08/16/2023	
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	0.00114	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 - 70 Ranch USX BB #23-08

WH-SS-04@5'

8/11/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308330-04 (Soil)

PAH by 8270D SIM

Fluorene	0.000686	0.000286	0.00067	mg/Kg	1	L698821	08/16/2023	08/16/2023	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	63.1 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	48 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.31			pH Units	1	B3H1721	08/17/2023	08/18/2023	
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SAR by 20B Saturated Paste

SAR	0.255			SAR	1	B3H1717	08/17/2023	08/18/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.860		0.00500	mmhos/cm	1	B3H1721	08/17/2023	08/18/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.31		0.0869	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Barium	32.4		8.69	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-SS-04@5'

8/11/2023 9:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-04 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0869	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Copper	ND		8.69	"	"	"	"	"	
Lead	ND		8.69	"	"	"	"	"	
Nickel	ND		8.69	"	"	"	"	"	
Selenium	ND		0.0869	"	"	"	"	"	
Silver	ND		0.0869	"	"	"	"	"	
Zinc	ND		86.9	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L699198	08/11/2023	08/17/2023	
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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 - 70 Ranch USX BB #23-08

WH-FS-01@6'

8/11/2023 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-05 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.0999	mg/L	1	B3H1714	08/17/2023	08/18/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	118		25.0	mg/kg	1	B3H1425	08/14/2023	08/17/2023	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	114 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3H1516	08/15/2023	08/16/2023	U
1,3,5-Trimethylbenzene	0.0263		0.00200	"	"	"	"	"	
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	7.80		0.200	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-FS-01@6'

8/11/2023 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	85.9 %		70-130			B3H15 16	08/15/2023	08/16/2023	
Surrogate: Toluene-d8	95.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.69		0.499	meq/L	10	[CALC]	08/17/2023	08/18/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.921		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	5.46	0.164	0.301	mg/Kg	1	L698821	08/16/2023	08/16/2023	
2-Methylnaphthalene	0.574	0.29	0.301	"	"	"	"	"	
Acenaphthene	0.904	0.0454	0.1	"	"	"	"	"	
Anthracene	ND	0.0499	0.1	"	"	"	"	"	
Benzo(a)anthracene	0.318	0.0736	0.1	"	"	"	"	"	
Benzo(a)pyrene	ND	0.0699	0.1	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.0873	0.1	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.0652	0.1	"	"	"	"	"	
Chrysene	0.994	0.0931	0.1	"	"	"	"	"	
Dibenz(a,h)anthracene	0.112	0.0916	0.1	"	"	"	"	"	
Fluoranthene	ND	0.0588	0.1	"	"	"	"	"	

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 - 70 Ranch USX BB #23-08

WH-FS-01@6'

8/11/2023 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y308330-05 (Soil)

PAH by 8270D SIM

Fluorene	2.97	0.0427	0.1	mg/Kg	1	L698821	08/16/2023	08/16/2023	
Indeno(1,2,3-cd)pyrene	ND	0.0936	0.1	"	"	"	"	"	
Pyrene	0.411	0.096	0.1	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	48 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.4 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.11			pH Units	1	B3H1721	08/17/2023	08/18/2023	
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SAR by 20B Saturated Paste

SAR	0.879			SAR	1	B3H1717	08/17/2023	08/18/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.408		0.00500	mmhos/cm	1	B3H1721	08/17/2023	08/18/2023	
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Table 915 metals by EPA 6020B

Arsenic	2.05		0.0876	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Barium	46.8		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 - 70 Ranch USX BB #23-08

WH-FS-01@6'

8/11/2023 9:24:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308330-05 (Soil)

Table 915 metals by EPA 6020B

Cadmium	ND		0.0876	mg/kg	10	B3H1401	08/14/2023	08/22/2023	
Copper	ND		8.76	"	"	"	"	"	
Lead	ND		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	0.247	0.508	mg/Kg	1	L699198	08/11/2023	08/17/2023	
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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 - 70 Ranch USX BB #23-08

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 B3H1425 - EPA 3550B										
Blank (B3H1425-BLK1)										
					Prepared: 08/14/2023 Analyzed: 08/17/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		112	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 - 70 Ranch USX BB #23-08

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 B3H1425 - EPA 3550B

LCS (B3H1425-BS1)

Prepared: 08/14/2023 Analyzed: 08/17/2023

Diesel (C10-C28)	770	50.0	mg/kg	1000		77.0	70-130			
Residual Range Organics (C28-C40)	871	200	"	1000		87.1	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	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 - 70 Ranch USX BB #23-08

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 B3H1425 - EPA 3550B										
Matrix Spike (B3H1425-MS1)		Source: Y308330-01			Prepared: 08/14/2023 Analyzed: 08/17/2023					
Diesel (C10-C28)	753	50.0	mg/kg	1000	ND	75.3	70-130			
Residual Range Organics (C28-C40)	851	200	"	1000	ND	85.1	70-130			
Surrogate: o-Terphenyl	56		"	49.8		112	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1425 - EPA 3550B										
Matrix Spike Dup (B3H1425-MSD1)		Source: Y308330-01			Prepared: 08/14/2023 Analyzed: 08/17/2023					
Diesel (C10-C28)	784	50.0	mg/kg	1000	ND	78.4	70-130	4.11	35	
Residual Range Organics (C28-C40)	878	200	"	1000	ND	87.8	70-130	3.17	35	
Surrogate: o-Terphenyl	57		"	49.8		114	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1516 - EPA 5030 (soil)

Blank (B3H1516-BLK1)

Prepared: 08/15/2023 Analyzed: 08/16/2023

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	0.11		"	0.125		87.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1516 - EPA 5030 (soil)

LCS (B3H1516-BS1)

Prepared: 08/15/2023 Analyzed: 08/16/2023

1,2,4-Trimethylbenzene	0.0953	0.00200	mg/kg	0.100		95.3	70-130			
1,3,5-Trimethylbenzene	0.0976	0.00200	"	0.100		97.6	70-130			
Benzene	0.0906	0.00200	"	0.100		90.6	70-130			
Ethylbenzene	0.0937	0.00200	"	0.100		93.7	70-130			
Naphthalene	0.101	0.00380	"	0.100		101	70-130			
Toluene	0.0877	0.00200	"	0.100		87.7	70-130			
o-Xylene	0.0883	0.00200	"	0.100		88.3	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1516 - EPA 5030 (soil)

Matrix Spike (B3H1516-MS1)	Source: Y308330-01			Prepared: 08/15/2023 Analyzed: 08/16/2023						
1,2,4-Trimethylbenzene	0.0849	0.00200	mg/kg	0.100	ND	84.9	70-130			
1,3,5-Trimethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
Benzene	0.0790	0.00200	"	0.100	ND	79.0	70-130			
Ethylbenzene	0.0868	0.00200	"	0.100	ND	86.8	70-130			
Naphthalene	0.0718	0.00380	"	0.100	0.00112	70.7	70-130			
Toluene	0.0795	0.00200	"	0.100	ND	79.5	70-130			
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130			
m,p-Xylene	0.169	0.00400	"	0.200	ND	84.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1516 - EPA 5030 (soil)

Matrix Spike Dup (B3H1516-MSD1)	Source: Y308330-01			Prepared: 08/15/2023 Analyzed: 08/16/2023						
1,2,4-Trimethylbenzene	0.0844	0.00200	mg/kg	0.100	ND	84.4	70-130	0.520	20	
1,3,5-Trimethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	2.18	20	
Benzene	0.0814	0.00200	"	0.100	ND	81.4	70-130	2.99	20	
Ethylbenzene	0.0851	0.00200	"	0.100	ND	85.1	70-130	1.95	20	
Naphthalene	0.0789	0.00380	"	0.100	0.00112	77.8	70-130	9.42	20	
Toluene	0.0784	0.00200	"	0.100	ND	78.4	70-130	1.39	20	
o-Xylene	0.0806	0.00200	"	0.100	ND	80.6	70-130	0.914	20	
m,p-Xylene	0.166	0.00400	"	0.200	ND	83.0	70-130	1.66	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1401 - EPA 3050B

Blank (B3H1401-BLK1)

Prepared: 08/14/2023 Analyzed: 08/22/2023

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 (B3H1401-BS1)

Prepared: 08/14/2023 Analyzed: 08/22/2023

Arsenic	0.0473	0.000100	mg/kg	0.0500		94.6	80-120			
Barium	5.02	0.0100	"	5.00		100	80-120			
Cadmium	0.0497	0.000100	"	0.0500		99.4	80-120			
Copper	0.509	0.0100	"	0.500		102	80-120			
Lead	0.0491	0.0100	"	0.0500		98.1	80-120			
Nickel	0.0504	0.0100	"	0.0500		101	80-120			
Selenium	0.0492	0.000100	"	0.0500		98.3	80-120			
Silver	0.0505	0.000100	"	0.0500		101	80-120			
Zinc	0.480	0.100	"	0.500		95.9	80-120			

Matrix Spike (B3H1401-MS1)

Source: Y308305-01

Prepared: 08/14/2023 Analyzed: 08/22/2023

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1401 - EPA 3050B

Matrix Spike (B3H1401-MS1)

Source: Y308305-01

Prepared: 08/14/2023 Analyzed: 08/22/2023

Arsenic	6.87	0.0856	mg/kg	4.28	3.33	82.8	75-125			
Barium	643	8.56	"	428	216	99.7	75-125			
Cadmium	4.65	0.0856	"	4.28	0.410	99.0	75-125			
Copper	60.1	8.56	"	42.8	19.2	95.6	75-125			
Lead	22.1	8.56	"	4.28	18.2	90.8	75-125			
Nickel	20.1	8.56	"	4.28	16.8	76.6	75-125			
Selenium	3.82	0.0856	"	4.28	0.146	85.8	75-125			
Silver	4.38	0.0856	"	4.28	0.0660	101	75-125			
Zinc	159	85.6	"	42.8	107	122	75-125			

Matrix Spike Dup (B3H1401-MSD1)

Source: Y308305-01

Prepared: 08/14/2023 Analyzed: 08/22/2023

Arsenic	7.81	0.0916	mg/kg	4.58	3.33	98.0	75-125	12.8	20	
Barium	696	9.16	"	458	216	105	75-125	7.86	20	
Cadmium	5.20	0.0916	"	4.58	0.410	105	75-125	11.2	20	
Copper	66.7	9.16	"	45.8	19.2	104	75-125	10.4	20	
Lead	27.0	9.16	"	4.58	18.2	193	75-125	20.1	20	QM-07
Nickel	21.6	9.16	"	4.58	16.8	105	75-125	7.36	20	
Selenium	4.26	0.0916	"	4.58	0.146	89.8	75-125	10.9	20	
Silver	4.90	0.0916	"	4.58	0.0660	106	75-125	11.2	20	
Zinc	196	91.6	"	45.8	107	193	75-125	20.4	20	QM-07

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 B3H1714 - DTPA Sorbitol Preparation

Blank (B3H1714-BLK1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

Boron ND 0.100 mg/L

Duplicate (B3H1714-DUP1)

Source: Y308330-01

Prepared: 08/17/2023 Analyzed: 08/18/2023

Boron ND 0.102 mg/L ND 50

Batch B3H1717 - Saturated Paste Metals

Blank (B3H1717-BLK1)

Prepared: 08/17/2023 Analyzed: 08/18/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3H1717-DUP1)

Source: Y308330-01

Prepared: 08/17/2023 Analyzed: 08/18/2023

SAR 0.00 SAR 0.727 200 200

Calcium PPM 73.9 10.0 mg/L 67.4 9.09 50

Magnesium PPM 15.7 10.0 " 15.6 0.639 50

Sodium PPM 24.0 10.0 " 25.5 6.10 50

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3H1721 - Saturated Paste pH/EC										
Blank (B3H1721-BLK1)					Prepared: 08/17/2023 Analyzed: 08/18/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3H1721-DUP1)					Source: Y308330-01 Prepared: 08/17/2023 Analyzed: 08/18/2023					
pH	7.10		pH Units		6.40		10.4		25	
Specific Conductance (EC)	0.765	0.00500	mmhos/cm		0.754		1.43		25	

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 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 L698821 - 3550B

MSD (L 94254-MSD-L698821)		Source: 94254			Prepared: 08/16/2023 Analyzed: 08/16/2023					
Benzo(k)fluoranthene	0.0685	0.00067	mg/Kg	0.162	<0.000437	42.2	30-130	25.5	30	
1-Methylnaphthalene	0.0891	0.00201	"	0.162	<0.00109	55	30-130	24.5	30	
2-Methylnaphthalene	0.0861	0.00201	"	0.162	<0.00194	53.1	30-130	23.4	30	
Acenaphthene	0.0795	0.00067	"	0.162	<0.000304	49	30-130	23.8	30	
Anthracene	0.0884	0.00067	"	0.162	<0.000334	54.5	30-130	31.1	30	*
Benzo(a)anthracene	0.0794	0.00067	"	0.162	<0.000493	49	30-130	26.8	30	
Benzo(b)fluoranthene	0.0457	0.00067	"	0.162	<0.000585	28.2	30-130	37.2	30	*
Pyrene	0.0637	0.00067	"	0.162	<0.000643	39.3	30-130	18.2	30	
Chrysene	0.0898	0.00067	"	0.162	<0.000624	55.4	30-130	22.8	30	
Dibenz(a,h)anthracene	0.105	0.00067	"	0.162	<0.000614	64.8	30-130	37.8	30	*
Fluoranthene	0.0669	0.00067	"	0.162	<0.000394	41.2	30-130	19.4	30	
Fluorene	0.0765	0.00067	"	0.162	<0.000286	47.2	30-130	35	30	*
Indeno(1,2,3-cd)pyrene	0.0788	0.00067	"	0.162	<0.000627	48.6	30-130	39	30	*
Benzo(a)pyrene	0.0921	0.00067	"	0.162	<0.000468	56.8	30-130	25.4	30	
Surrogate: 2-Fluorobiphenyl	50.7		"	0.325	95.6	50.7	33-115			
Surrogate: 4-Terphenyl-d14	38.1		"	0.325	130	38.1	33-122			
Surrogate: Nitrobenzene-d5	41.8		"	0.325	89	41.8	29-110			

MS (L 94254-MS-L698821)		Source: 94254			Prepared: 08/16/2023 Analyzed: 08/16/2023					
Dibenz(a,h)anthracene	0.154	0.00067	mg/Kg	0.163	<0.000614	94.4	30-130			
Benzo(a)anthracene	0.104	0.00067	"	0.163	<0.000493	63.8	30-130			
1-Methylnaphthalene	0.114	0.00201	"	0.163	<0.00109	69.9	30-130			
2-Methylnaphthalene	0.109	0.00201	"	0.163	<0.00194	66.8	30-130			
Fluorene	0.109	0.00067	"	0.163	<0.000286	66.8	30-130			
Anthracene	0.121	0.00067	"	0.163	<0.000334	74.2	30-130			
Benzo(a)pyrene	0.119	0.00067	"	0.163	<0.000468	73	30-130			
Benzo(b)fluoranthene	0.0666	0.00067	"	0.163	<0.000585	40.8	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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 L698821 - 3550B

MS (L 94254-MS-L698821)		Source: 94254			Prepared: 08/16/2023 Analyzed: 08/16/2023					
Benzo(k)fluoranthene	0.0886	0.00067	mg/Kg	0.163	<0.000437	54.3	30-130			
Chrysene	0.113	0.00067	"	0.163	<0.000624	69.3	30-130			
Fluoranthene	0.0813	0.00067	"	0.163	<0.000394	49.8	30-130			
Indeno(1,2,3-cd)pyrene	0.117	0.00067	"	0.163	<0.000627	71.7	30-130			
Pyrene	0.0765	0.00067	"	0.163	<0.000643	46.9	30-130			
Acenaphthene	0.101	0.00067	"	0.163	<0.000304	61.9	30-130			
Surrogate: 2-Fluorobiphenyl	69.1		"	0.327	95.6	69.1	33-115			
Surrogate: 4-Terphenyl-d14	49.5		"	0.327	130	49.5	33-122			
Surrogate: Nitrobenzene-d5	55.6		"	0.327	89	55.6	29-110			

LCS (LCS-L698821)					Prepared: 08/16/2023 Analyzed: 08/16/2023					
Anthracene	0.137	0.00067	mg/Kg	0.167		82	30-130			
1-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130			
2-Methylnaphthalene	0.107	0.00201	"	0.167		64	30-130			
Acenaphthene	0.117	0.00067	"	0.167		70	30-130			
Pyrene	0.108	0.00067	"	0.167		64.6	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(a)pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Fluorene	0.124	0.00067	"	0.167		74.2	30-130			
Benzo(k)fluoranthene	0.138	0.00067	"	0.167		82.6	30-130			
Indeno(1,2,3-cd)pyrene	0.147	0.00067	"	0.167		88	30-130			
Chrysene	0.125	0.00067	"	0.167		74.8	30-130			
Dibenz(a,h)anthracene	0.193	0.00067	"	0.167		116	30-130			
Fluoranthene	0.109	0.00067	"	0.167		65.2	30-130			
Benzo(b)fluoranthene	0.113	0.00067	"	0.167		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	71.7		"	0.333		71.7	33-115			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - 70 Ranch USX BB #23-08

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
Batch L698821 - 3550B										
LCS (LCS-L698821)					Prepared: 08/16/2023 Analyzed: 08/16/2023					
Surrogate: Nitrobenzene-d5	56.4		mg/Kg	0.333		56.4	29-110			
LRB (LRB-L698821)					Prepared: 08/16/2023 Analyzed: 08/16/2023					
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333		69.3	33-115			
Surrogate: Nitrobenzene-d5	66.6		"	0.333		66.6	29-110			

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 - 70 Ranch USX BB #23-08

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 L699198 -										
DUP (L 94280-DUP)		Source: Y308330-05			Prepared: Analyzed: 08/17/2023					
Chromium, Hexavalent	ND	0.502	mg/Kg		<0.502		-	0	20	
MS (L 94280-MS)		Source: Y308330-05			Prepared: Analyzed: 08/17/2023					
Chromium, Hexavalent	37	2.51	mg/Kg	40.2	<1.22	92	75-125			
LCS (LCS)		Prepared: Analyzed: 08/17/2023								
Chromium, Hexavalent	7.04	0.5	mg/Kg	8		88	75-125			
LRB (LRB)		Prepared: Analyzed: 08/17/2023								
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 - 70 Ranch USX BB #23-08

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.

* QC Failure

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

September 06, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - 70 Ranch USX BB #23-08 Project Number - [none]

Attached are your analytical results for Noble - 70 Ranch USX BB #23-08 received by Origins Laboratory, Inc. August 28, 2023. This project is associated with Origins project number Y308724-01.

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



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

Martin C Eckert III
Project Number: [none]
Project: Noble - 70 Ranch USX BB #23-08

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y308724-01	Soil	August 11, 2023 9:26	08/28/2023 15:25

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 - 70 Ranch USX BB #23-08

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y308724

Client: Eagle

Client Project ID: 70 Ranch USX BB 23-08

Checklist Completed by: JG

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

Date/time completed: 8/29/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 6.0 °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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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 8/30/23

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - 70 Ranch USX BB #23-08

Background-01@2'
8/11/2023 9:26:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y308724-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.53	0.0869	mg/kg	10	B3H2931	CIH	08/29/2023	08/31/2023	
Lead	ND	8.69	"	"	"	CIH	"	"	

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 - 70 Ranch USX BB #23-08

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 B3H2931 - EPA 3050B

Blank (B3H2931-BLK1)

Prepared: 08/29/2023 Analyzed: 08/30/2023

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 (B3H2931-BS1)

Prepared: 08/29/2023 Analyzed: 08/30/2023

Arsenic	0.0506	0.000100	mg/kg	0.0500	101	80-120
Barium	5.16	0.0100	"	5.00	103	80-120
Cadmium	0.0497	0.000100	"	0.0500	99.3	80-120
Copper	0.540	0.0100	"	0.500	108	80-120
Lead	0.0490	0.0100	"	0.0500	98.0	80-120
Nickel	0.0488	0.0100	"	0.0500	97.7	80-120
Selenium	0.0497	0.000100	"	0.0500	99.4	80-120
Silver	0.0447	0.000100	"	0.0500	89.5	80-120
Zinc	0.473	0.100	"	0.500	94.6	80-120

Matrix Spike (B3H2931-MS1)

Source: Y308701-01

Prepared: 08/29/2023 Analyzed: 08/30/2023

Arsenic	5.16	0.0896	mg/kg	4.48	0.998	93.0	75-125
Barium	454	8.96	"	448	38.9	92.6	75-125
Cadmium	4.42	0.0896	"	4.48	0.0371	97.9	75-125
Copper	46.9	8.96	"	44.8	1.04	102	75-125
Lead	7.13	8.96	"	4.48	2.91	94.3	75-125

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 - 70 Ranch USX BB #23-08

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 B3H2931 - EPA 3050B

Matrix Spike (B3H2931-MS1)

Source: Y308701-01

Prepared: 08/29/2023 Analyzed: 08/30/2023

Nickel	7.24	8.96	mg/kg	4.48	2.72	101	75-125			
Selenium	3.98	0.0896	"	4.48	0.0524	87.6	75-125			
Silver	4.00	0.0896	"	4.48	0.00667	89.1	75-125			
Zinc	57.2	89.6	"	44.8	11.5	102	75-125			

Matrix Spike Dup (B3H2931-MSD1)

Source: Y308701-01

Prepared: 08/29/2023 Analyzed: 08/30/2023

Arsenic	5.39	0.0925	mg/kg	4.62	0.998	94.9	75-125	4.27	20	
Barium	467	9.25	"	462	38.9	92.6	75-125	2.94	20	
Cadmium	4.57	0.0925	"	4.62	0.0371	98.0	75-125	3.27	20	
Copper	48.9	9.25	"	46.2	1.04	103	75-125	4.12	20	
Lead	7.55	9.25	"	4.62	2.91	100	75-125	5.70	20	
Nickel	7.70	9.25	"	4.62	2.72	108	75-125	6.18	20	
Selenium	4.20	0.0925	"	4.62	0.0524	89.7	75-125	5.50	20	
Silver	4.12	0.0925	"	4.62	0.00667	89.0	75-125	3.05	20	
Zinc	58.6	92.5	"	46.2	11.5	102	75-125	2.41	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 - 70 Ranch USX BB #23-08

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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