

# Wellhead Closure Checklist

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

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: <b>NIX #1</b>		Date: <b>9-27-22</b>				Remediation Project #: <b>23426</b>		
Associated Wells: <b>05-123-11926</b>		Age of Site: <b>YEARS</b>				Number of Photos Attached: <b>2</b>		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) <b>40.288500, -104.549920</b>						Estimated Facility Size (acres):		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <b>GOOD</b>								
USCS Soil Type: <b>SW</b>				Estimated Depth to Groundwater: <b>&gt; 20'</b>				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>NONE OBSERVED</b>								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <b>NONE OBSERVED</b>								
<b>Wellhead(s)</b>								
Well API	<b>05-123-11926</b>							
Age	<b>YEARS</b>							
Condition of surface around wellhead	<b>GOOD - PER CREW</b>							
PID Readings	<b>N/A - EXCAVATED UPON ARRIVAL</b>							
Condition of subsurface (obtainable via recent PID Readings)	<b>GOOD</b>							
PID Readings	<b>10.0</b>	<b>11.2</b>	<b>9.4</b>	<b>11.1</b>	<b>11.6</b>			
Sample taken? Location/Sample ID	<b>WH-SS-01</b>	<b>WH-SS-02</b>	<b>WH-SS-03</b>	<b>WH-SS-04</b>	<b>WH-SS-01</b>			
Photo Number(s)	<b>SEE PHOTOLOG</b>							
Other observations regarding wellheads: <b>WELL CASING CUT/CAPPED FOLLOWING ASSESSMENT.</b>								
<b>Summary</b>								
Was impacted soil identified? <b>No</b> Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: <b>5</b>				Total number of samples collected: <b>5</b>				
Highest PID Reading: <b>11.6</b>				Total number of samples submitted to lab for analysis: <b>1</b>				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent: <b>N/A</b>				Estimated spill volume:				
Lateral extent: <b>N/A</b>				Volume of soil removed:				
Is additional investigation required?								
Was groundwater encountered during the investigation? <b>No</b> 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:								

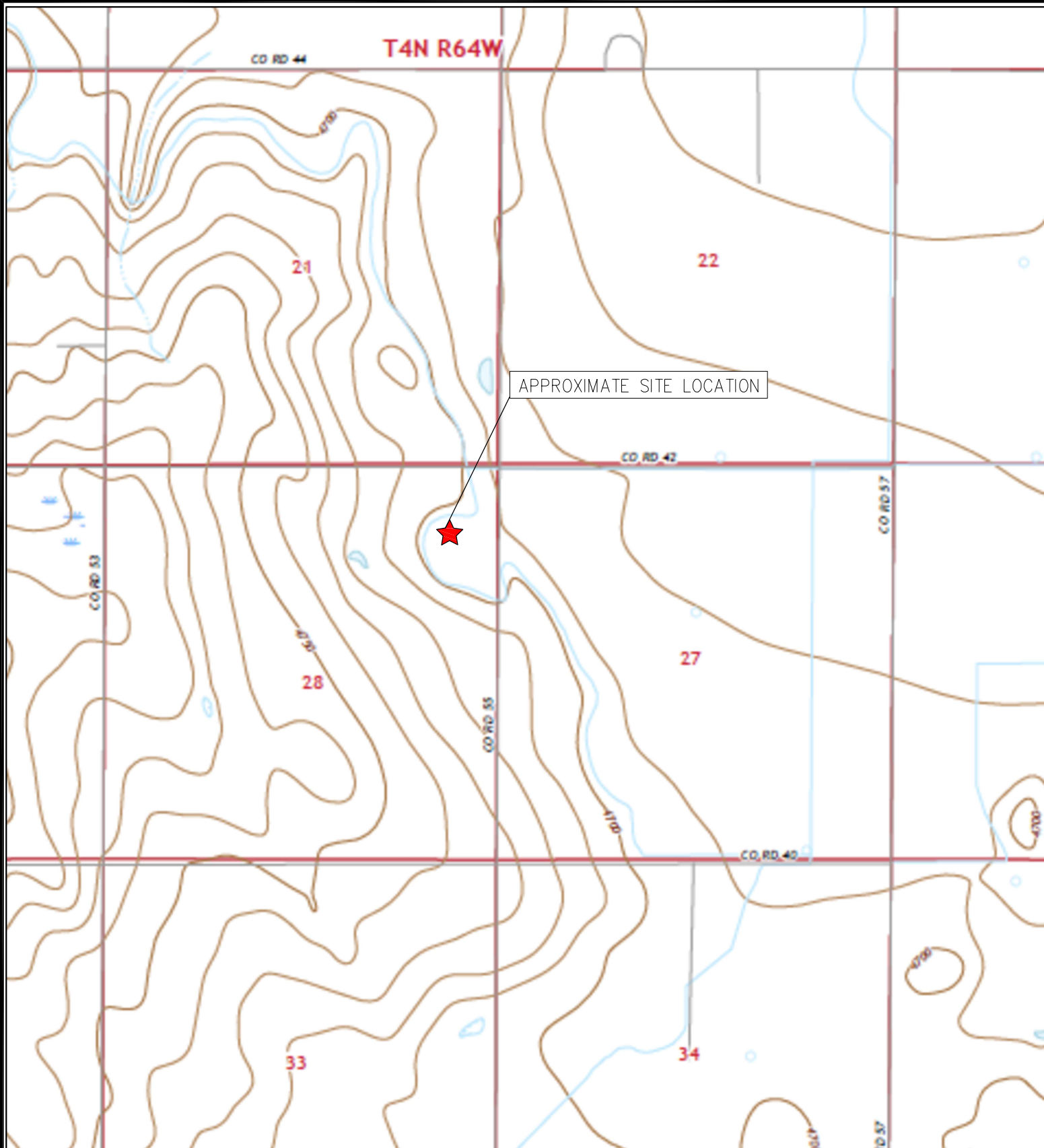


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**



TOPOGRAPHIC SITE LOCATION MAP  
 NIX #1  
 CLOSURE ASSESSMENT  
 40.288500 / -104.548920  
 NE¼ NE¼ SEC.28 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-11926  
 REMEDIATION # 23426



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, INC.

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

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

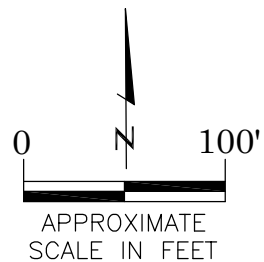
FIGURE 1





# LEGEND

- FORMER NIX #1 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



## AERIAL SITE LOCATION MAP

NIX #1  
CLOSURE ASSESSMENT  
40.288500 / -104.548920  
NE¼ NE¼ SEC.28 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-11926  
REMEDATION # 23426

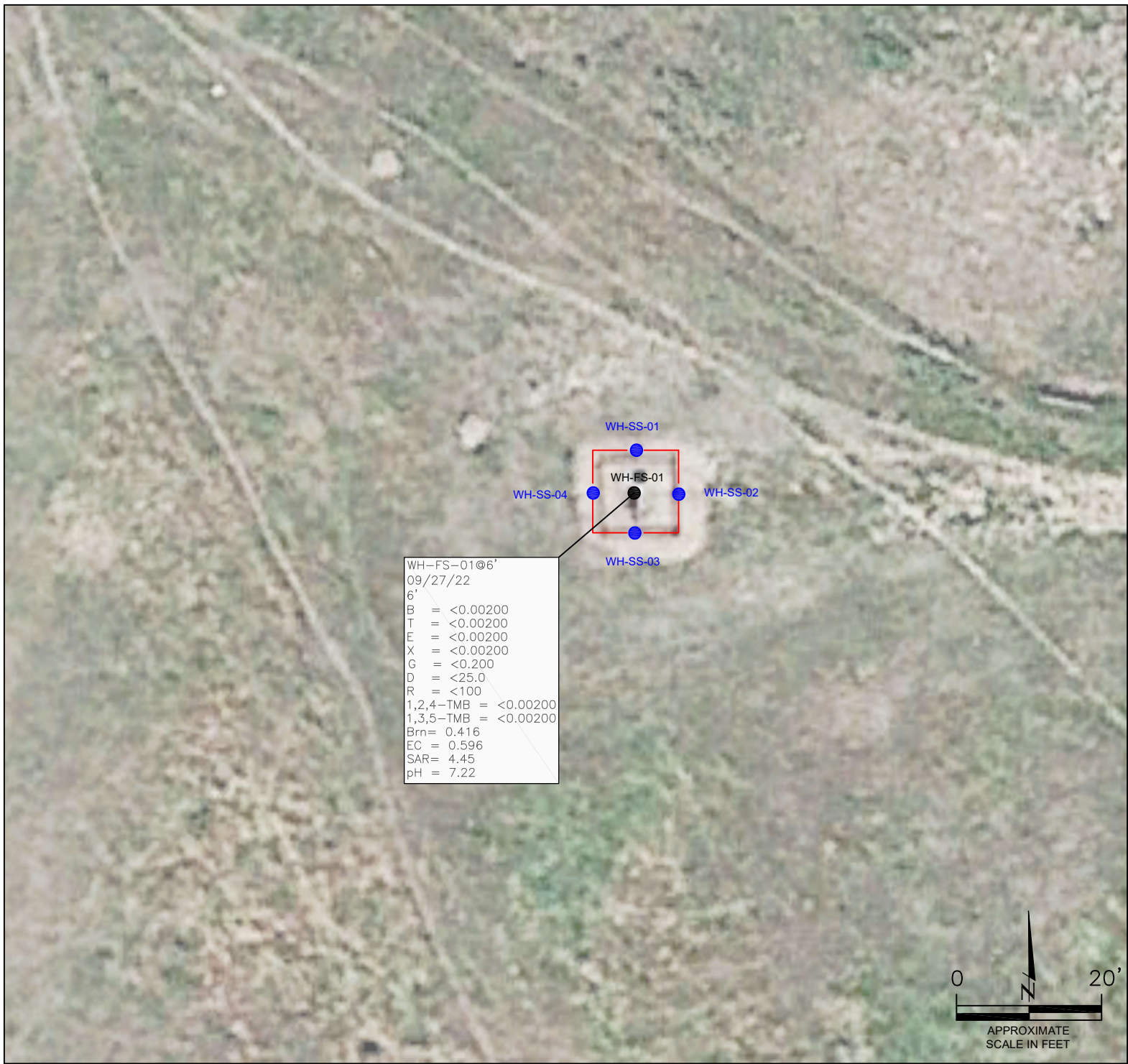
DRAWN BY:  
CT

FIG. NO.  
2



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WH-FS-01@6'  
09/27/22  
6'  
B = <0.00200  
T = <0.00200  
E = <0.00200  
X = <0.00200  
G = <0.200  
D = <25.0  
R = <100  
1,2,4-TMB = <0.00200  
1,3,5-TMB = <0.00200  
Brn= 0.416  
EC = 0.596  
SAR= 4.45  
pH = 7.22

**LEGEND**

- WELLHEAD 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)  
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 COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**SOIL ANALYTICAL MAP**

NIX #1  
CLOSURE ASSESSMENT  
40.288500 / -104.548920  
NE¼ NE¼ SEC.28 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-11926  
REMEDIAL # 23426

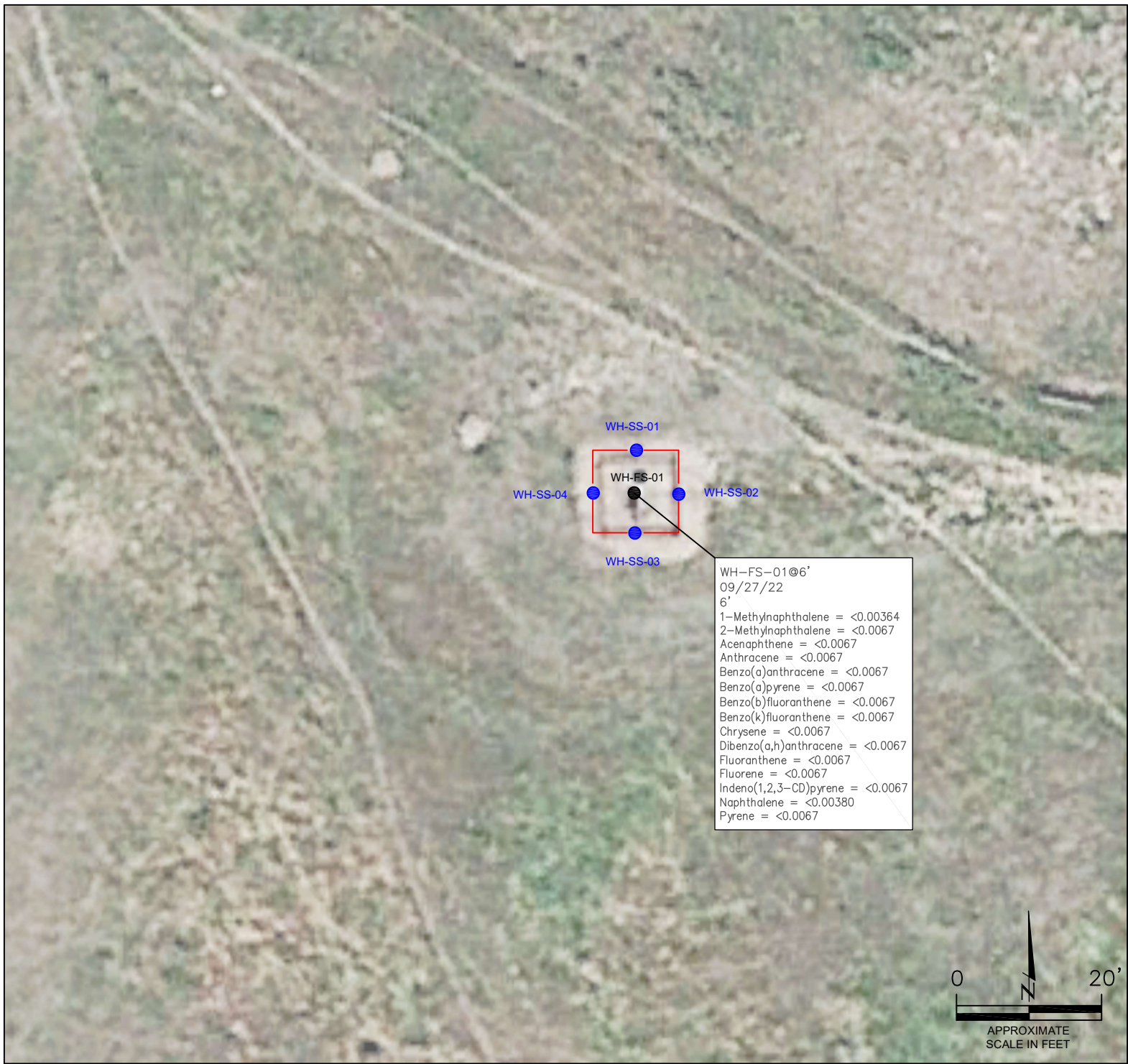
DRAWN BY:  
CT

FIG.  
NO. 3



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Ph: 303-433-0479 • F: 303-325-5449





#### LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-01 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 COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

#### POLYCYCLIC AROMATIC HYDROCARBONS MAP

NIX #1  
CLOSURE ASSESSMENT  
40.288500 / -104.548920  
NE¼ NE¼ SEC.28 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-11926  
REMEDATION # 23426

DRAWN BY:  
CT

FIG.  
NO. 4



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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**NIX #1**  
**CLOSURE ASSESSMENT**  
**40.288500 / -104.548920**  
**NE 1/4 NE 1/4 SEC.28 T4N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-11926**  
**REMEDICATION #23426**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.288521 / -104.548928)	09/27/22	5	10.0	N
WH-SS-02 @ 5' (40.288507 / -104.548911)	09/27/22	5	11.2	N
WH-SS-03 @ 5' (40.288493 / -104.548927)	09/27/22	5	9.4	N
WH-SS-04 @ 5' (40.288507 / -104.548946)	09/27/22	5	11.1	N
WH-FS-01 @ 6' (40.288506 / -104.548928)	09/27/22	6	11.6	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2  
SOIL ANALYTICAL RESULTS  
NIX #1  
CLOSURE ASSESSMENT  
40.288500 / -104.548920  
NE 1/4 NE 1/4 SEC.28 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-11926  
REMEDATION #23426

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.288506 / -104.548928)
Sample Date				9/27/2022
Sample Depth				6'
PID Reading (ppm-v)				11.6
Regulatory Limits				
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	
VOCs				
Benzene	mg/kg	1.2	0.0026	<0.00200
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00364
2-Methyl-naphthalene	mg/kg	24	0.019	<0.0067
Acenaphthene	mg/kg	360	0.55	<0.0067
Anthracene	mg/kg	1800	5.8	<0.0067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.0067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.0067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.0067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.0067
Chrysene	mg/kg	110	9	<0.0067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.0067
Fluoranthene	mg/kg	240	8.9	<0.0067
Fluorene	mg/kg	240	0.54	<0.0067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.0067
Naphthalene	mg/kg	2	0.0038	<0.00380
Pyrene	mg/kg	180	1.3	<0.0067
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.416
pH	standard unit	6-8.3	--	7.22
Sodium Adsorption Ratio (SAR)	--	<6	--	4.45
Specific Conductance (EC)	mmhos/cm	<4	--	0.596
COGCC = Colorado Oil and Gas Conservation Commission			VOCs - Volatile Organic Compounds	
mg/kg = milligrams per kilogram				
mmhos/cm = millimhos per centimeter				
PID = Photoionization Detector				
ppm-v = parts per million by volume				
mg/L = milligrams per liter				
SAR = Sodium Adsoption 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 <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits.				
RSSLs = Residential Soil Screening Levels				
GSSLs = Protection of Groundwater Soil Screening Levels				
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				



## **ATTACHMENT A**

### **Photo Log**

NIX #1  
API # 05-123-11926  
Remediation # 23426

Closure Assessment

September 2022

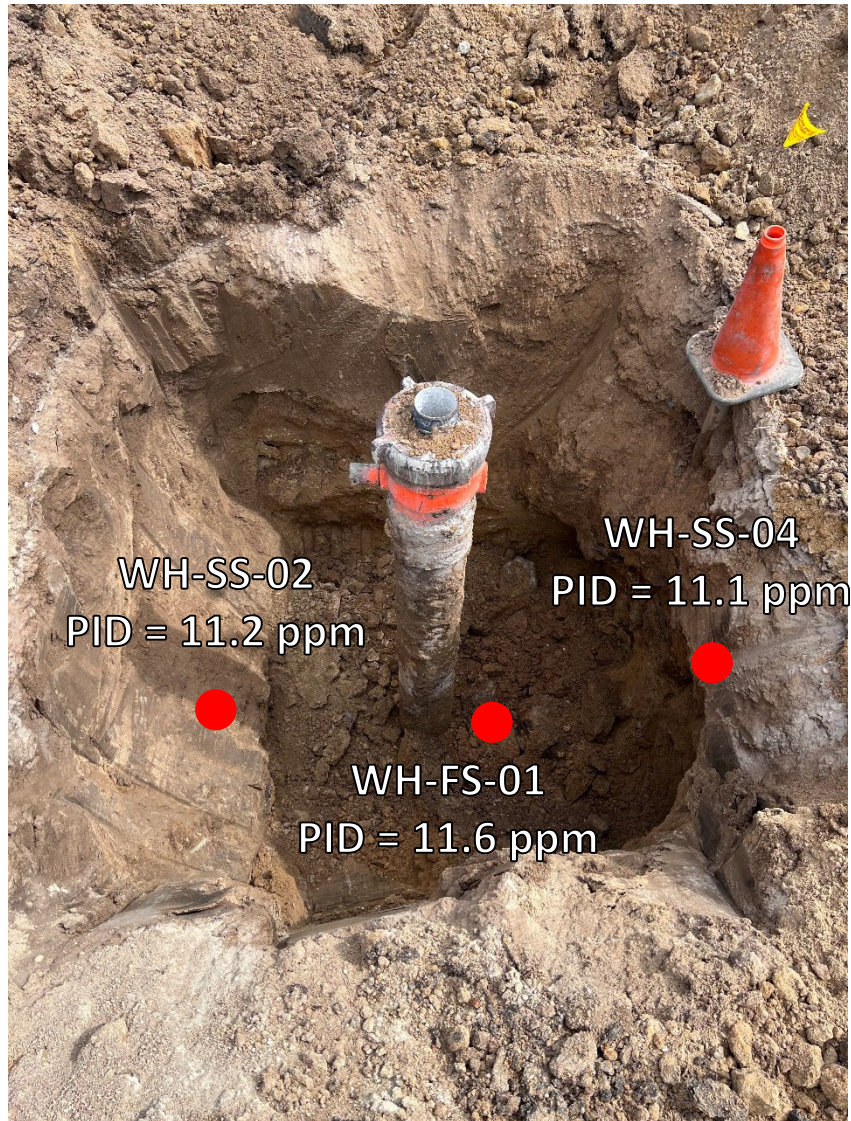


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Ph: 303-433-0479 • F: 303-325-5449

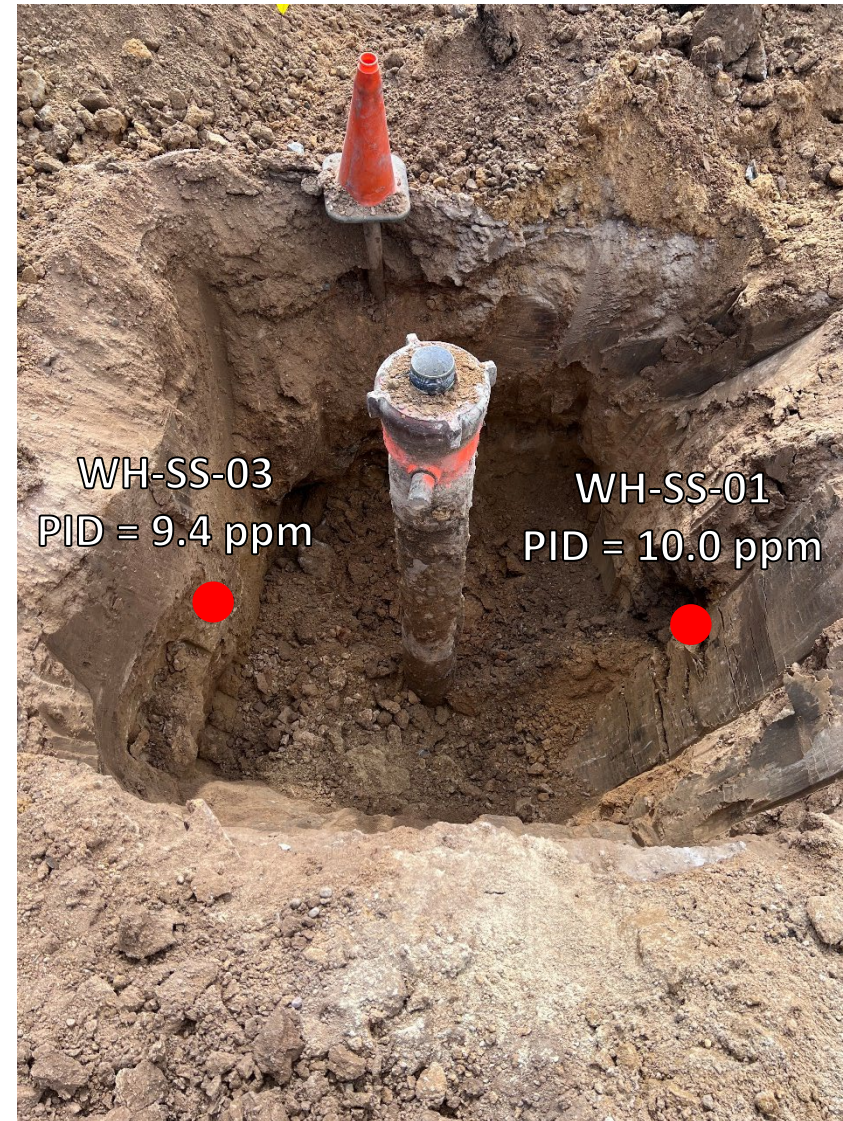




# Wellhead Excavation – 09/27/22



Looking south  
No petroleum hydrocarbon staining or odor observed



Looking west  
No petroleum hydrocarbon staining or odor observed





## **ATTACHMENT B**

### **Laboratory Analytical Report**



October 14, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - NIX #1

Project Number - [none]

Attached are your analytical results for Noble - NIX #1 received by Origins Laboratory, Inc. September 27, 2022. This project is associated with Origins project number Y209689-01.

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, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - NIX #1

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y209689-01	Soil	September 27, 2022 11:22	09/27/2022 17:37

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

Origins Laboratory

Origins Work Order: 42091689

Checklist Completed by: JB/DE

Date/time completed: 9-29-22

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

Cooler Number/Temperature: 1, 1.2 °C / \_\_\_\_\_ °C / \_\_\_\_\_ °C (Describe) \_\_\_\_\_ °C

Thermometer ID: T603

Sample Receipt Checklist

Client: Eagle/Noble

Client Project ID: NIX #1

Shipped Via: HD

Airbill #: N/A

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

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <sup>(1)</sup> ?	<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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present <sup>(1)</sup> ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded <sup>(1)</sup> ?	<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 <sup>(1)</sup> ? (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 <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ) / (pH > 10 for samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

<sup>(1)</sup>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) JB

Date/Time Reviewed 9-29-22

Origins Laboratory, Inc.

*J. Bynon*

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



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

WH-FS-01@6'

9/27/2022 11:22:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y209689-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.416	0.101	mg/L	1	B2I3004	09/30/2022	10/03/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2J0304	10/03/2022	10/07/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.2 %	50-150	"	"	"	"	"	
------------------------	--------	--------	---	---	---	---	---	--

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2J0429	10/04/2022	10/07/2022	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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

WH-FS-01@6'

9/27/2022 11:22:00AM

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

**Origins Laboratory, Inc.**  
**Y209689-01 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			B2J04 29	10/04/2022	10/07/2022	
Surrogate: Toluene-d8	96.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.8 %		70-130			"	"	"	

**Metals by Saturated Paste by EPA 6010**

Calcium	0.970		0.499	meq/L	10	[CALC]	09/30/2022	10/04/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.95		0.435	"	"	"	"	"	

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00364	0.0067	mg/Kg	10	L641127	10/04/2022	10/04/2022	
2-Methylnaphthalene	ND	0.00645	0.0067	"	"	"	"	"	
Acenaphthene	ND	0.00304	0.0067	"	"	"	"	"	
Anthracene	ND	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00493	0.0067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	ND	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

WH-FS-01@6'

9/27/2022 11:22:00AM

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

Waypoint Analytical, LLC.  
Y209689-01 (Soil)

## PAH by 8270D SIM

Fluoranthene	ND	0.00394	0.0067	mg/Kg	10	L641127	10/04/2022	10/04/2022
Fluorene	ND	0.00286	0.0067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"
Naphthalene	ND	0.00484	0.0067	"	"	"	"	"
Pyrene	ND	0.00643	0.0067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	63.4 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	60.7 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.6 %	29-110	"	"	"

## pH in Soil by 9045D

pH	7.22	pH Units	1	B213009	09/30/2022	10/04/2022
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## SAR by 20B Saturated Paste

SAR	4.45	SAR	1	B213006	09/30/2022	10/04/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.596	0.00500	mmhos/cm	1	B213009	09/30/2022	10/04/2022
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

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 B2J0304 - EPA 3580										
Blank (B2J0304-BLK1)					Prepared: 10/03/2022 Analyzed: 10/07/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		91.2	50-150			

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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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 B2J0304 - EPA 3580**

**LCS (B2J0304-BS1)**

Prepared: 10/03/2022 Analyzed: 10/07/2022

Diesel (C10-C28)	913	50.0	mg/kg	1000		91.3	70-130			
Residual Range Organics (C28-C40)	778	200	"	1000		77.8	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.5	50-150			

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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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 B2J0304 - EPA 3580

Matrix Spike (B2J0304-MS1)		Source: Y209686-01			Prepared: 10/03/2022 Analyzed: 10/07/2022					
Diesel (C10-C28)	857	50.0	mg/kg	1000	ND	85.7	70-130			
Residual Range Organics (C28-C40)	781	200	"	1000	ND	78.1	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.4	50-150			

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Jordan A. Bynon, Project Manager

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

## 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 B2J0304 - EPA 3580

Matrix Spike Dup (B2J0304-MSD1)		Source: Y209686-01			Prepared: 10/03/2022 Analyzed: 10/07/2022					
Diesel (C10-C28)	722	50.0	mg/kg	1000	ND	72.2	70-130	17.1	35	
Residual Range Organics (C28-C40)	619	200	"	1000	ND	61.9	70-130	23.1	35	QM-07
Surrogate: o-Terphenyl	36		"	49.8		71.8	50-150			

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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

## 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 B2J0429 - EPA 5030 (soil)										
Blank (B2J0429-BLK1)					Prepared: 10/04/2022 Analyzed: 10/06/2022					
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		86.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.0	70-130			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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
<b>Batch B2J0429 - EPA 5030 (soil)</b>										
<b>LCS (B2J0429-BS1)</b>					Prepared: 10/04/2022 Analyzed: 10/06/2022					
1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Benzene	0.0938	0.00200	"	0.100		93.8	70-130			
Ethylbenzene	0.102	0.00200	"	0.100		102	70-130			
Naphthalene	0.0889	0.00380	"	0.100		88.9	70-130			
Toluene	0.0974	0.00200	"	0.100		97.4	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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
<b>Batch B2J0429 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2J0429-MS1)</b>		<b>Source: Y209682-01</b>			Prepared: 10/04/2022 Analyzed: 10/06/2022					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.0900	0.00380	"	0.100	ND	90.0	70-130			
Toluene	0.101	0.00200	"	0.100	ND	101	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.212	0.00400	"	0.200	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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
<b>Batch B2J0429 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2J0429-MSD1)</b>		<b>Source: Y209682-01</b>			Prepared: 10/04/2022 Analyzed: 10/06/2022					
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100	ND	89.3	70-130	12.5	20	
1,3,5-Trimethylbenzene	0.0892	0.00200	"	0.100	ND	89.2	70-130	13.6	20	
Benzene	0.0922	0.00200	"	0.100	ND	92.2	70-130	8.79	20	
Ethylbenzene	0.0923	0.00200	"	0.100	ND	92.3	70-130	12.8	20	
Naphthalene	0.0793	0.00380	"	0.100	ND	79.3	70-130	12.7	20	
Toluene	0.0927	0.00200	"	0.100	ND	92.7	70-130	8.45	20	
o-Xylene	0.0919	0.00200	"	0.100	ND	91.9	70-130	13.3	20	
m,p-Xylene	0.187	0.00400	"	0.200	ND	93.3	70-130	12.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

## 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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## 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 B2I3004 - Default Prep Metals

##### Blank (B2I3004-BLK1)

Prepared: 09/30/2022 Analyzed: 10/03/2022

Boron ND 0.100 mg/L

##### Duplicate (B2I3004-DUP1)

Source: Y209677-01

Prepared: 09/30/2022 Analyzed: 10/03/2022

Boron 1.25 0.0996 mg/L 1.54 21.2 50

#### Batch B2I3006 - Default Prep Metals

##### Blank (B2I3006-BLK1)

Prepared: 09/30/2022 Analyzed: 10/04/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

##### Duplicate (B2I3006-DUP1)

Source: Y209673-04

Prepared: 09/30/2022 Analyzed: 10/04/2022

Calcium PPM 39.5 10.0 mg/L 48.6 20.6 50

SAR 0.00 SAR 2.37 200 200

Magnesium PPM 24.1 10.0 mg/L 23.6 2.14 50

Sodium PPM 87.8 10.0 " 80.4 8.83 50

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**Saturated Paste - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B2I3009 - NO PREP**

**Blank (B2I3009-BLK1)**

Prepared: 09/30/2022 Analyzed: 10/04/2022

pH	0.00		pH Units
Specific Conductance (EC)	ND	0.00500	mmhos/cm

**Duplicate (B2I3009-DUP1)**

**Source: Y209673-04**

Prepared: 09/30/2022 Analyzed: 10/04/2022

pH	7.96		pH Units	8.01		0.626	25
Specific Conductance (EC)	0.775	0.00500	mmhos/cm	0.779		0.579	25

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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 L641127 - 3550B**

MSD (L 89907-MSD-L641127)		Source: 89907			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Fluorene	0.115	0.00067	mg/Kg	0.162	<0.000286	70.9	30-130	0	30	
1-Methylnaphthalene	0.108	0.00067	"	0.162	<0.000364	66.6	30-130	3.6	30	
Pyrene	0.122	0.00067	"	0.162	<0.000643	75.3	30-130	0	30	
Indeno(1,2,3-cd)pyrene	0.121	0.00067	"	0.162	<0.000627	74.6	30-130	18.7	30	
Fluoranthene	0.123	0.00067	"	0.162	<0.000394	75.9	30-130	0	30	
Dibenz(a,h)anthracene	0.137	0.00067	"	0.162	<0.000614	84.5	30-130	16.1	30	
Chrysene	0.122	0.00067	"	0.162	<0.000624	75.3	30-130	7.1	30	
Naphthalene	0.101	0.00067	"	0.162	<0.000484	62.3	30-130	4.8	30	
2-Methylnaphthalene	0.105	0.00067	"	0.162	<0.000645	64.8	30-130	4.6	30	
Benzo(k)fluoranthene	0.147	0.00067	"	0.162	<0.000437	90.7	30-130	0.6	30	
Acenaphthene	0.112	0.00067	"	0.162	<0.000304	69.1	30-130	2.7	30	
Anthracene	0.107	0.00067	"	0.162	<0.000334	66	30-130	14.7	30	
Benzo(a)anthracene	0.114	0.00067	"	0.162	<0.000493	70.3	30-130	5.1	30	
Benzo(a)pyrene	0.131	0.00067	"	0.162	<0.000468	80.8	30-130	8.7	30	
Benzo(b)fluoranthene	0.13	0.00067	"	0.162	<0.000585	80.2	30-130	5.9	30	
Surrogate: 2-Fluorobiphenyl	64		"	0.325	204	64	33-115			
Surrogate: Nitrobenzene-d5	60.9		"	0.325	195	60.9	29-110			
Surrogate: 4-Terphenyl-d14	74.1		"	0.325	223	74.1	33-122			

MS (L 89907-MS-L641127)		Source: 89907			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Benzo(k)fluoranthene	0.146	0.00067	mg/Kg	0.166	<0.000437	87.9	30-130			
Acenaphthene	0.109	0.00067	"	0.166	<0.000304	65.6	30-130			
Naphthalene	0.106	0.00067	"	0.166	<0.000484	63.8	30-130			
Indeno(1,2,3-cd)pyrene	0.146	0.00067	"	0.166	<0.000627	87.9	30-130			
Fluorene	0.115	0.00067	"	0.166	<0.000286	69.2	30-130			
Fluoranthene	0.123	0.00067	"	0.166	<0.000394	74	30-130			
Dibenz(a,h)anthracene	0.161	0.00067	"	0.166	<0.000614	96.9	30-130			

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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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 L641127 - 3550B**

MS (L 89907-MS-L641127)		Source: 89907			Prepared: 10/04/2022 Analyzed: 10/04/2022					
Chrysene	0.131	0.00067	mg/Kg	0.166	<0.000624	78.9	30-130			
1-Methylnaphthalene	0.112	0.00067	"	0.166	<0.000364	67.4	30-130			
Benzo(a)pyrene	0.143	0.00067	"	0.166	<0.000468	86.1	30-130			
Anthracene	0.124	0.00067	"	0.166	<0.000334	74.6	30-130			
Pyrene	0.122	0.00067	"	0.166	<0.000643	73.4	30-130			
2-Methylnaphthalene	0.11	0.00067	"	0.166	<0.000645	66.2	30-130			
Benzo(b)fluoranthene	0.138	0.00067	"	0.166	<0.000585	83.1	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.166	<0.000493	72.2	30-130			
Surrogate: Nitrobenzene-d5	65.6		"	0.332	195	65.6	29-110			
Surrogate: 4-Terphenyl-d14	81.9		"	0.332	223	81.9	33-122			
Surrogate: 2-Fluorobiphenyl	66.5		"	0.332	204	66.5	33-115			

LCS (LCS-L641127)		Prepared: 10/04/2022 Analyzed: 10/04/2022								
Chrysene	0.121	0.00067	mg/Kg	0.167		72.4	30-130			
Dibenz(a,h)anthracene	0.134	0.00067	"	0.167		80.2	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Fluorene	0.107	0.00067	"	0.167		64	30-130			
Indeno(1,2,3-cd)pyrene	0.119	0.00067	"	0.167		71.2	30-130			
Naphthalene	0.103	0.00067	"	0.167		61.6	30-130			
Pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(k)fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(a)pyrene	0.125	0.00067	"	0.167		74.8	30-130			
Benzo(a)anthracene	0.112	0.00067	"	0.167		67	30-130			
Anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Acenaphthene	0.106	0.00067	"	0.167		63.4	30-130			
2-Methylnaphthalene	0.106	0.00067	"	0.167		63.4	30-130			
1-Methylnaphthalene	0.107	0.00067	"	0.167		64	30-130			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

**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
<b>Batch L641127 - 3550B</b>										
<b>LCS (LCS-L641127)</b>					Prepared: 10/04/2022 Analyzed: 10/04/2022					
Benzo(b)fluoranthene	0.12	0.00067	mg/Kg	0.167		71.8	30-130			
Surrogate: Nitrobenzene-d5	70.8		"	0.333		70.8	29-110			
Surrogate: 4-Terphenyl-d14	78.3		"	0.333		78.3	33-122			
Surrogate: 2-Fluorobiphenyl	69.3		"	0.333		69.3	33-115			
<b>LRB (LRB-L641127)</b>					Prepared: 10/04/2022 Analyzed: 10/04/2022					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	69.6		"	0.333		69.6	29-110			
Surrogate: 4-Terphenyl-d14	79.5		"	0.333		79.5	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

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, Inc.  
8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - NIX #1

### 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.

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.



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