

# 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: UPRC #7-10Q		Date: 11/01/22					Remediation Project #: 24036	
Associated Wells: 05-123-15884		Age of Site: Years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.149240 / -104.590570							Estimated Facility Size (acres):	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)  Good								
USCS Soil Type: SW				Estimated Depth to Groundwater: 720'				
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  None observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)  None observed								
<b>Wellhead(s)</b>								
Well API	05-123-15884							
Age	Years							
Condition of surface around wellhead	Good per crew							
PID Readings	N/A- Excavated upon arrival							
Condition of subsurface (estimated measurement)	Good							
PID Readings	0.0	0.0	0.1	0.1	0.7			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photo log							
Other observations regarding wellheads:  Well casing cut/capped following assessment								
<b>Summary</b>								
Was impacted soil identified? <u>No</u> Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 0.7				Total number of samples submitted to lab for analysis: 1				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:				Estimated spill volume:				
Lateral extent: N/A				Volume of soil removed:				
Is additional investigation required?								
Was groundwater encountered during the investigation? <u>No</u> 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:								

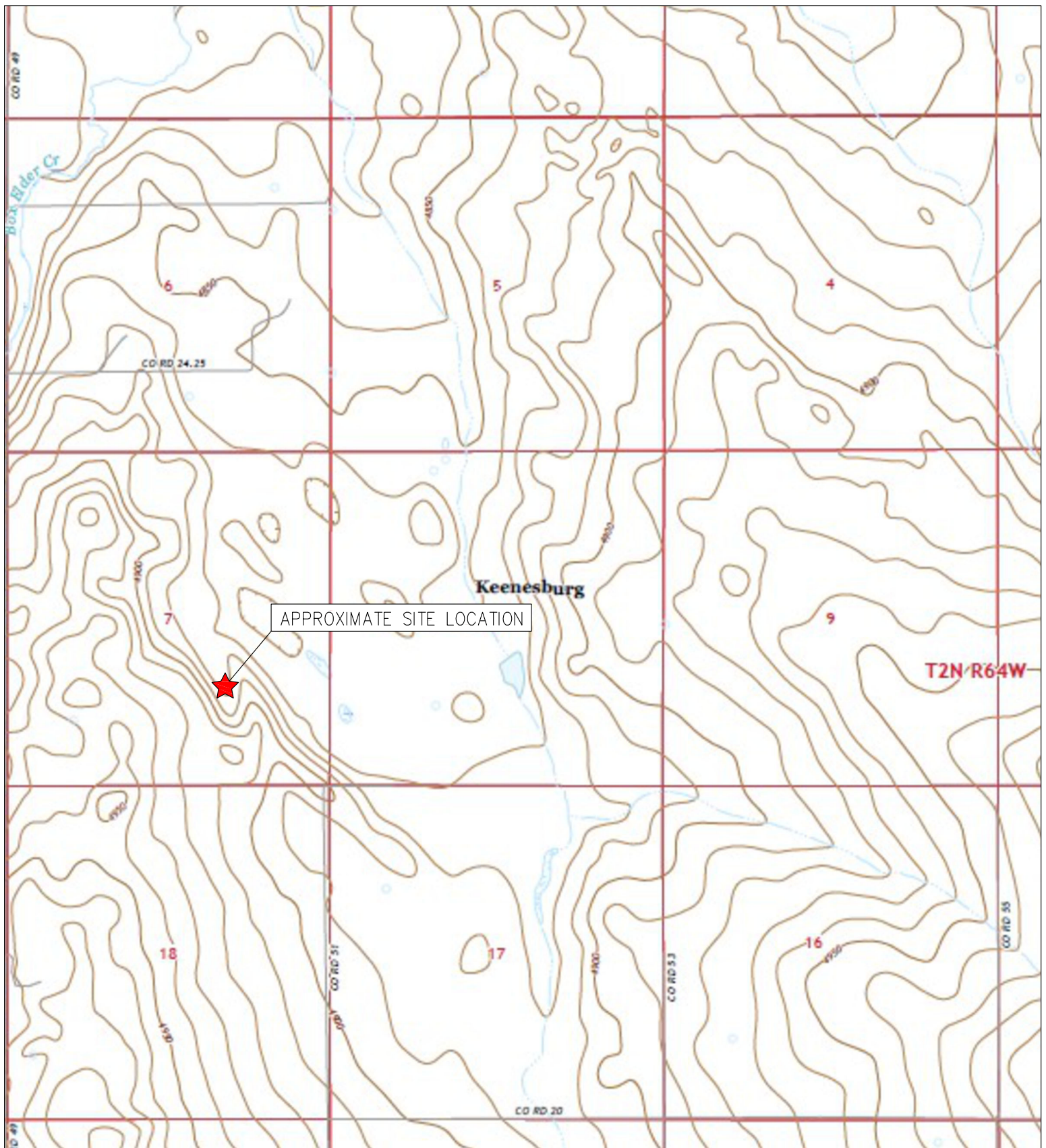


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**



TOPOGRAPHIC SITE LOCATION MAP  
 UPRC #7-10Q  
 CLOSURE ASSESSMENT  
 40.149240 / -104.590570  
 NW¼ SE¼ SEC.7 T2N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-15884  
 REMEDIATION # 24036



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

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

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,  
 KLUG RANCH, CO QUADRANGLE 2022

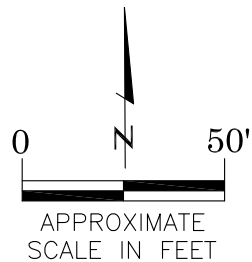
FIGURE 1





LEGEND

- FORMER UPRC #7-10Q WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP  
UPRC #7-10Q  
CLOSURE ASSESSMENT  
40.149240 / -104.590570  
NW¼ SE¼ SEC.7 T2N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-15884  
REMEDATION # 24036

DRAWN BY:  
JF

FIGURE NO.  
2



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**LEGEND**

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

**PARAMETERS**

SAMPLE LOCATION  
DATE  
DEPTH (FEET)  
B = BENZENE (mg/kg)  
T = TOLUENE (mg/kg)  
E = ETHYLBENZENE (mg/kg)  
X = TOTAL XYLENES (mg/kg)  
G = TPH-GRO (mg/kg)  
D = TPH-DRO (mg/kg)  
R = TPH-RRO (mg/kg)  
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)  
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)  
Brn= BORON (mg/L)  
EC = SPECIFIC CONDUCTANCE (mmhos/cm)  
SAR= SODIUM ADSORPTION RATIO  
pH = pH (pH UNITS)  
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

**SOIL ANALYTICAL MAP**

UPRC #7-10Q  
CLOSURE ASSESSMENT  
40.149240 / -104.590570  
NW¼ SE¼ SEC.7 T2N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-15884  
REMEDATION # 24036

DRAWN BY:

JF

FIGURE NO.

3



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## **TABLES**

**Table 1: Photoionization Detector Reading Summary**

**Table 2: Soil Analytical Results Summary**

**TABLE 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**UPRC #7-10Q**  
**CLOSURE ASSESSMENT**  
**40.149240 / -104.590570**  
**NW¼ SE¼ SEC.7 T2N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-15884**  
**REMEDATION # 24036**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.149245 / -104.590581)	11/01/22	5	0.0	N
WH-SS-02 @ 5' (40.149232 / -104.590561)	11/01/22	5	0.0	N
WH-SS-03 @ 5' (40.149218 / -104.590576)	11/01/22	5	0.1	N
WH-SS-04 @ 5' (40.149231 / -104.590593)	11/01/22	5	0.1	N
WH-FS-01 @ 6' (40.149232 / -104.590579)	11/01/22	6	0.7	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
UPRC #7-10Q  
CLOSURE ASSESSMENT  
40.149240 / -104.590570  
NW¼ SE¼ SEC.7 T2N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-15884  
REMEDATION # 24036

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.149232 / -104.590579)
Sample Date				11/01/22
Sample Depth				6'
PID Reading (ppm-v)				0.7
Regulatory Limits				
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	
<b>VOCs</b>				
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
<b>Total Petroleum Hydrocarbons</b>				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
<b>Polycyclic Aromatics Hydrocarbons</b>				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	<0.00067
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	<0.00067
<b>Soil Suitability (Inorganics)</b>				
Boron	mg/L	2	--	<0.100
pH	standard unit	6-8.3	--	8.13
Sodium Adsorption Ratio (SAR)	--	<6	--	0.950
Specific Conductance (EC)	mmhos/cm	<4	--	0.517
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium 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.				
VOCs - Volatile Organic Compounds RSSLs = Residential Soil Screening Levels GSSLs = Protection of Groundwater Soil Screening Levels TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				





## **ATTACHMENT A**

### **Photo Log**

UPRC #7-10Q  
API # 05-123-15884  
Remediation # 24036

Closure Assessment

November 2022



# Wellhead Excavation – 11/01/22



Looking north

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**





November 15, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRC #7-10Q

Project Number - -

Attached are your analytical results for Noble - UPRC #7-10Q received by Origins Laboratory, Inc. November 01, 2022. This project is associated with Origins project number Y211038-01.

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: -  
Project: Noble - UPRC #7-10Q

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y211038-01	Soil	November 1, 2022 8:18	11/01/2022 12:50

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: -  
Project: Noble - UPRC #7-10Q

www.originslaboratory.com

page 1 of 1

4211038

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

Project Manager: Martin Eckert III  
Project Name: UPRC #7-10Q  
Project Number: -  
Samples Collected By: UT

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	Air Summa Canister #			Other
WH-FS-01061	11/01/22	0816	2	X					X			GC, SAH, pH=	1
									X			saturated	2
									X			paste prep	3
									X				4
									X				5
									X				6
									X				7
									X				8
									X				9
									X				10

Relinquished By: WTH Date: 11/01/22 Time: 1250  
Relinquished By: WTH Date: 11/01/22 Time: 1250

Received By: WTH Date: 11/12/22 Time: 1250  
Received By: WTH Date: 11/12/22 Time: 1250

Turnaround Time: Same Day ☐ 24 Hr ☐ 48 Hr ☐ 72 Hr ☐ Standard ☒

Temp Received: 0.3 Date Results Needed: Noble

1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Origins Laboratory, Inc.

*Bynon*

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

Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

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

**Sample Receipt Checklist**

Origins Work Order: 4211038 Client: Eagle  
Client Project ID: UPRC #7-10Q

Checklist Completed by: EHS Shipped Via: HD  
Date/time completed: 11/1/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
Airbill #: NA

Matrix(s) Received: (Check all that apply): Y Soil/Solid Water Other:  
Cooler Number/Temperature: 1 10.3 °C 1 °C 1 °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 <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)

Date/Time Reviewed

Origins Laboratory, Inc.

*J. Bynon*

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



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

Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

WH-FS-01@6'

11/1/2022 8:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y211038-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.100	mg/L	1	B2K0411	11/04/2022	11/07/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2K0203	11/02/2022	11/04/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.7 %	50-150			"	"	"
------------------------	--------	--------	--	--	---	---	---

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2K0337	11/03/2022	11/09/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"
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Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

WH-FS-01@6'

11/1/2022 8:18:00AM

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

Origins Laboratory, Inc.  
Y211038-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %	70-130	B2K03 37	11/03/2022	11/09/2022
Surrogate: 4-Bromofluorobenzene	106 %	70-130	"	"	"

## Metals by Saturated Paste by EPA 6010

Calcium	2.82	0.499	meq/L	10	[CALC]	11/04/2022	11/08/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	1.26	0.435	"	"	"	"	"

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L647051	11/04/2022	11/07/2022
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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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

WH-FS-01@6'

11/1/2022 8:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y211038-01 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L647051	11/04/2022	11/07/2022
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	47.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	49.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	44.1 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.13	pH Units	1	B2K0417	11/04/2022	11/08/2022
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## SAR by 20B Saturated Paste

SAR	0.950	SAR	1	B2K0407	11/04/2022	11/08/2022
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.517	0.00500	mmhos/cm	1	B2K0422	11/04/2022	11/08/2022
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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: -  
Project: Noble - UPRC #7-10Q

**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 B2K0203 - EPA 3580										
Blank (B2K0203-BLK1)					Prepared: 11/02/2022 Analyzed: 11/04/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		106	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

**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 B2K0203 - EPA 3580

**LCS (B2K0203-BS1)**

Prepared: 11/02/2022 Analyzed: 11/04/2022

Diesel (C10-C28)	990	50.0	mg/kg	1000		99.0	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000		103	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

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: -  
Project: Noble - UPRC #7-10Q

**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 B2K0203 - EPA 3580**

Matrix Spike (B2K0203-MS1)		Source: Y211012-01			Prepared: 11/02/2022 Analyzed: 11/04/2022					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Residual Range Organics (C28-C40)	1050	200	"	1000	ND	105	70-130			
Surrogate: o-Terphenyl	47		"	49.8		95.1	50-150			

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Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

**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 B2K0203 - EPA 3580										
Matrix Spike Dup (B2K0203-MSD1)		Source: Y211012-01			Prepared: 11/02/2022 Analyzed: 11/04/2022					
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130	7.52	35	
Residual Range Organics (C28-C40)	1080	200	"	1000	ND	108	70-130	3.00	35	
Surrogate: o-Terphenyl	48		"	49.8		97.0	50-150			

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Project Number: -  
Project: Noble - UPRC #7-10Q

## 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
<b>Batch B2K0337 - EPA 5030 (soil)</b>										
<b>Blank (B2K0337-BLK1)</b>					Prepared: 11/03/2022 Analyzed: 11/09/2022					
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	0.13		"	0.125	106		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



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Project Number: -  
Project: Noble - UPRC #7-10Q

**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 B2K0337 - EPA 5030 (soil)**

**LCS (B2K0337-BS1)**

Prepared: 11/03/2022 Analyzed: 11/09/2022

1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100		112	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.231	0.00400	"	0.200		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

Origins Laboratory, Inc.



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Project Number: -  
Project: Noble - UPRC #7-10Q

**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 B2K0337 - EPA 5030 (soil)**

Matrix Spike (B2K0337-MS1)		Source: Y211038-01			Prepared: 11/03/2022 Analyzed: 11/09/2022					
1,2,4-Trimethylbenzene	0.104	0.00200	mg/kg	0.100	ND	104	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130			
Benzene	0.0989	0.00200	"	0.100	ND	98.9	70-130			
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Naphthalene	0.0901	0.00380	"	0.100	ND	90.1	70-130			
Toluene	0.102	0.00200	"	0.100	ND	102	70-130			
o-Xylene	0.102	0.00200	"	0.100	ND	102	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	0.00182	103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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Project: Noble - UPRC #7-10Q

**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 B2K0337 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2K0337-MSD1)</b>		<b>Source: Y211038-01</b>			Prepared: 11/03/2022 Analyzed: 11/09/2022					
1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100	ND	107	70-130	2.81	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	2.10	20	
Benzene	0.101	0.00200	"	0.100	ND	101	70-130	2.50	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	4.47	20	
Naphthalene	0.0917	0.00380	"	0.100	ND	91.7	70-130	1.76	20	
Toluene	0.104	0.00200	"	0.100	ND	104	70-130	2.18	20	
o-Xylene	0.107	0.00200	"	0.100	ND	107	70-130	4.31	20	
m,p-Xylene	0.219	0.00400	"	0.200	0.00182	109	70-130	4.87	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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**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 B2K0407 - Saturated Paste Metals**

**Blank (B2K0407-BLK1)**

Prepared: 11/04/2022 Analyzed: 11/08/2022

Calcium PPM	ND	10.0	mg/L
SAR	0.00		SAR
Magnesium PPM	ND	10.0	mg/L
Sodium PPM	ND	10.0	"

**Duplicate (B2K0407-DUP1)**

Source: Y211018-13

Prepared: 11/04/2022 Analyzed: 11/08/2022

Calcium PPM	37.2	10.0	mg/L	38.2	2.72	50
SAR	0.00		SAR	4.01	200	200
Magnesium PPM	16.5	10.0	mg/L	17.1	3.49	50
Sodium PPM	115	10.0	"	119	2.86	50

**Batch B2K0411 - DTPA Sorbitol Preparation**

**Blank (B2K0411-BLK1)**

Prepared: 11/04/2022 Analyzed: 11/07/2022

Boron	ND	0.100	mg/L
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**Duplicate (B2K0411-DUP1)**

Source: Y211018-21

Prepared: 11/04/2022 Analyzed: 11/07/2022

Boron	0.543	0.100	mg/L	0.414	26.9	50
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Project Number: -  
Project: Noble - UPRC #7-10Q

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B2K0417 - NO PREP</b>										
<b>Duplicate (B2K0417-DUP1)</b>		<b>Source: Y211018-13</b>			Prepared: 11/04/2022 Analyzed: 11/08/2022					
pH	8.32		pH Units		8.34			0.240	25	
<b>Batch B2K0422 - Default Prep GenChem</b>										
<b>Blank (B2K0422-BLK1)</b>		Prepared: 11/04/2022 Analyzed: 11/08/2022								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B2K0422-DUP1)</b>		<b>Source: Y211018-13</b>			Prepared: 11/04/2022 Analyzed: 11/08/2022					
Specific Conductance (EC)	0.920	0.00500	mmhos/cm		0.940			2.20	25	

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Project: Noble - UPRC #7-10Q

**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 L647051 - 3550B**

MSD (L 86388-MSD-L647051)		Source: 86388			Prepared: 11/04/2022 Analyzed: 11/07/2022					
2-Methylnaphthalene	0.0877	0.00201	mg/Kg	0.166	<0.00194	52.8	30-130	12.3	30	
Fluorene	0.121	0.00067	"	0.166	<0.000286	72.8	30-130	36.7	30	*
Pyrene	0.0816	0.00067	"	0.166	<0.000643	49.1	30-130	39.6	30	*
Indeno(1,2,3-cd)pyrene	0.11	0.00067	"	0.166	<0.000627	66.2	30-130	9.8	30	
Fluoranthene	0.0823	0.00067	"	0.166	<0.000394	49.5	30-130	33.1	30	*
Dibenz(a,h)anthracene	0.121	0.00067	"	0.166	<0.000614	72.8	30-130	4.2	30	
Chrysene	0.0985	0.00067	"	0.166	<0.000624	59.3	30-130	8.7	30	
Naphthalene	0.0832	0.00201	"	0.166	<0.00145	50.1	30-130	11.7	30	
1-Methylnaphthalene	0.0889	0.00201	"	0.166	<0.00109	53.5	30-130	13.8	30	
Benzo(k)fluoranthene	0.0952	0.00067	"	0.166	<0.000437	57.3	30-130	6.9	30	
Acenaphthene	0.0901	0.00067	"	0.166	<0.000304	54.2	30-130	12.6	30	
Anthracene	0.0921	0.00067	"	0.166	<0.000334	55.4	30-130	5.1	30	
Benzo(a)anthracene	0.0969	0.00067	"	0.166	<0.000493	58.3	30-130	7.6	30	
Benzo(a)pyrene	0.122	0.00067	"	0.166	<0.000468	73.4	30-130	11.2	30	
Benzo(b)fluoranthene	0.0937	0.00067	"	0.166	<0.000585	56.4	30-130	5.4	30	
Surrogate: 2-Fluorobiphenyl	51.8		"	0.332	161	51.8	33-115			
Surrogate: Nitrobenzene-d5	50		"	0.332	143	50	29-110			
Surrogate: 4-Terphenyl-d14	46.3		"	0.332	182	46.3	33-122			

MS (L 86388-MS-L647051)		Source: 86388			Prepared: 11/04/2022 Analyzed: 11/07/2022					
Benzo(k)fluoranthene	0.0888	0.00067	mg/Kg	0.164	<0.000437	54.1	30-130			
Acenaphthene	0.0794	0.00067	"	0.164	<0.000304	48.4	30-130			
Naphthalene	0.074	0.00201	"	0.164	<0.00145	45.1	30-130			
Indeno(1,2,3-cd)pyrene	0.0997	0.00067	"	0.164	<0.000627	60.7	30-130			
Fluorene	0.0834	0.00067	"	0.164	<0.000286	50.8	30-130			
Fluoranthene	0.115	0.00067	"	0.164	<0.000394	70.1	30-130			
Dibenz(a,h)anthracene	0.116	0.00067	"	0.164	<0.000614	70.7	30-130			

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Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

**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 L647051 - 3550B**

MS (L 86388-MS-L647051)		Source: 86388			Prepared: 11/04/2022 Analyzed: 11/07/2022					
Chrysene	0.0902	0.00067	mg/Kg	0.164	<0.000624	55	30-130			
1-Methylnaphthalene	0.0774	0.00201	"	0.164	<0.00109	47.1	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.164	<0.000468	66.4	30-130			
Anthracene	0.0875	0.00067	"	0.164	<0.000334	53.3	30-130			
Pyrene	0.122	0.00067	"	0.164	<0.000643	74.3	30-130			
2-Methylnaphthalene	0.0775	0.00201	"	0.164	<0.00194	47.2	30-130			
Benzo(b)fluoranthene	0.0887	0.00067	"	0.164	<0.000585	54	30-130			
Benzo(a)anthracene	0.0898	0.00067	"	0.164	<0.000493	54.7	30-130			
Surrogate: Nitrobenzene-d5	40.8		"	0.328	143	40.8	29-110			
Surrogate: 4-Terphenyl-d14	71.6		"	0.328	182	71.6	33-122			
Surrogate: 2-Fluorobiphenyl	45.4		"	0.328	161	45.4	33-115			

LCS (LCS-L647051)		Prepared: 11/04/2022 Analyzed: 11/07/2022								
Chrysene	0.102	0.00067	mg/Kg	0.167		61	30-130			
Dibenz(a,h)anthracene	0.127	0.00067	"	0.167		76	30-130			
Fluoranthene	0.104	0.00067	"	0.167		62.2	30-130			
Fluorene	0.0943	0.00067	"	0.167		56.4	30-130			
Indeno(1,2,3-cd)pyrene	0.109	0.00067	"	0.167		65.2	30-130			
Naphthalene	0.0857	0.00201	"	0.167		51.3	30-130			
Benzo(k)fluoranthene	0.0978	0.00067	"	0.167		58.5	30-130			
Pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.118	0.00067	"	0.167		70.6	30-130			
Benzo(a)anthracene	0.0963	0.00067	"	0.167		57.6	30-130			
Anthracene	0.0986	0.00067	"	0.167		59	30-130			
Acenaphthene	0.0874	0.00067	"	0.167		52.3	30-130			
2-Methylnaphthalene	0.0874	0.00201	"	0.167		52.3	30-130			
1-Methylnaphthalene	0.0882	0.00201	"	0.167		52.8	30-130			

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Martin C Eckert III  
Project Number: -  
Project: Noble - UPRC #7-10Q

**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 L647051 - 3550B**

**LCS (LCS-L647051)**

Prepared: 11/04/2022 Analyzed: 11/07/2022

Benzo(b)fluoranthene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	48.6		"	0.333	48.6		29-110			
Surrogate: 4-Terphenyl-d14	63		"	0.333	63		33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333	53.7		33-115			

**LRB (LRB-L647051)**

Prepared: 11/04/2022 Analyzed: 11/07/2022

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	0.00201	"				-			
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	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	48		"	0.333	48		29-110			
Surrogate: 4-Terphenyl-d14	58.2		"	0.333	58.2		33-122			
Surrogate: 2-Fluorobiphenyl	53.4		"	0.333	53.4		33-115			

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Project: Noble - UPRC #7-10Q

### Notes and Definitions

U Sample is Non-Detect.

\* 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.

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