



## **FIGURES**

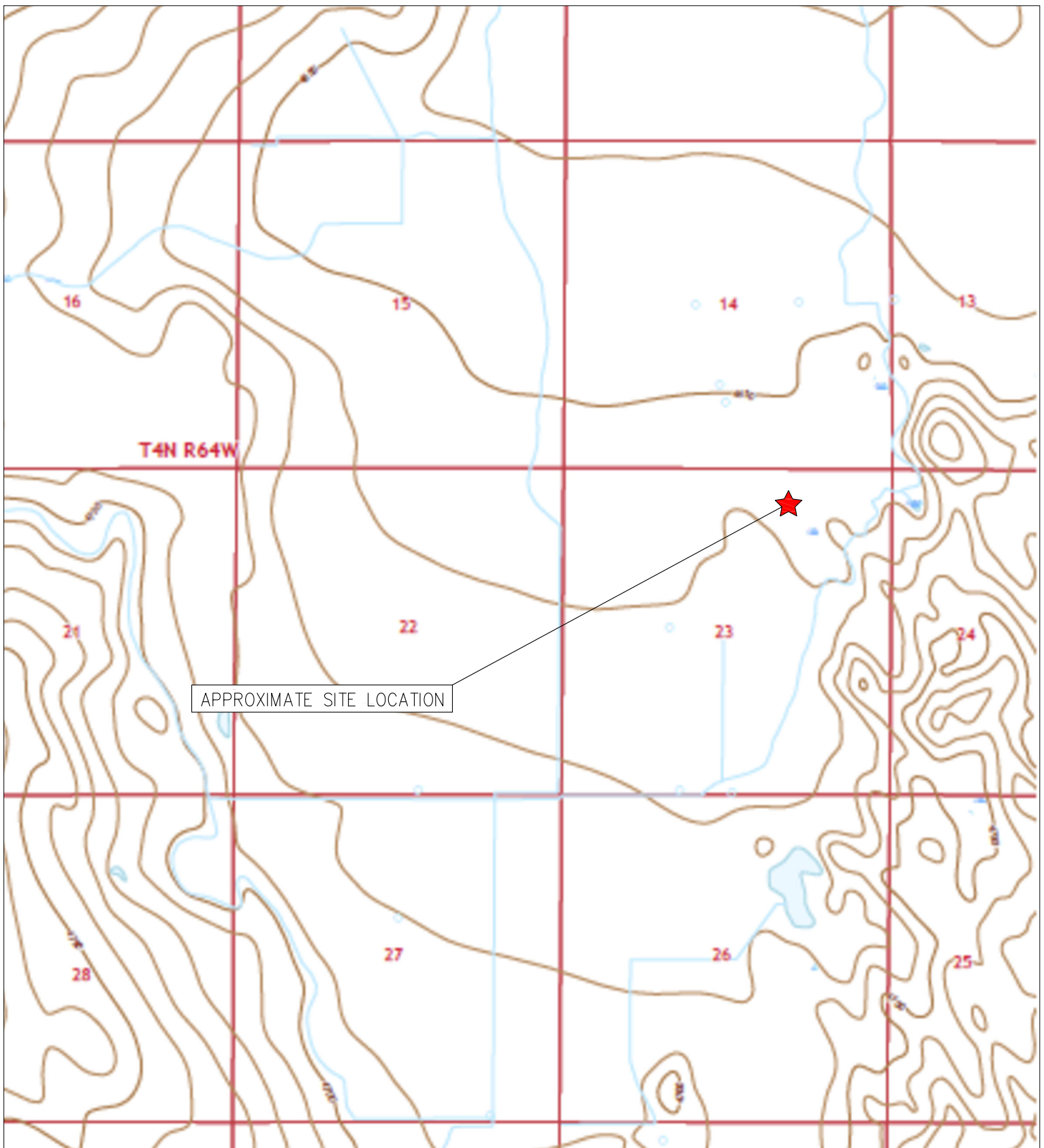
**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Sample Location Map**

**Figure 4: Soil Analytical Map**

**Figure 5: Polycyclic Aromatic Hydrocarbons Analytical Map**



TOPOGRAPHIC SITE LOCATION MAP  
 UPV #23-0214  
 CLOSURE ASSESSMENT  
 40.303030 / -104.514800  
 NW¼ NE¼ SEC.23 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-18051  
 REMEDIATION # 29488



**EAGLE**  
 ENVIRONMENTAL  
 CONSULTING, LLC

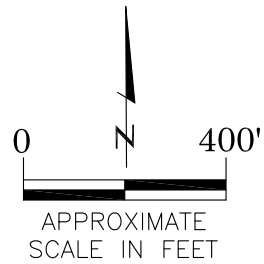
8000 W 44th Ave, Wheat Ridge, CO 80033  
 Ph: 303-433-0479 • F: 303-325-5449





**LEGEND**

- FORMER UPV #23-0214 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- ASSOCIATED FLOWLINE



AERIAL SITE LOCATION MAP  
UPV #23-0214  
CLOSURE ASSESSMENT  
40.303030 / -104.514800  
NW¼ NE¼ SEC.23 T4N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-18051  
REMEDATION # 29488

FIGURE NO.  
2

DRAWN BY:  
SL



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**LEGEND**

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

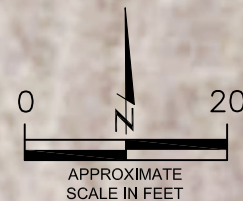
SAMPLE LOCATION MAP  
 UPV #23-0214  
 CLOSURE ASSESSMENT  
 40.303030 / -104.514800  
 NW¼ NE¼ SEC.23 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-18051  
 REMEDIATION # 29488

FIGURE NO.  
3

DRAWN BY:  
BU



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**LEGEND**

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

**PARAMETERS**

SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B = BENZENE (mg/kg)	
T = TOLUENE (mg/kg)	
E = ETHYLBENZENE (mg/kg)	
X = TOTAL XYLENES (mg/kg)	
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

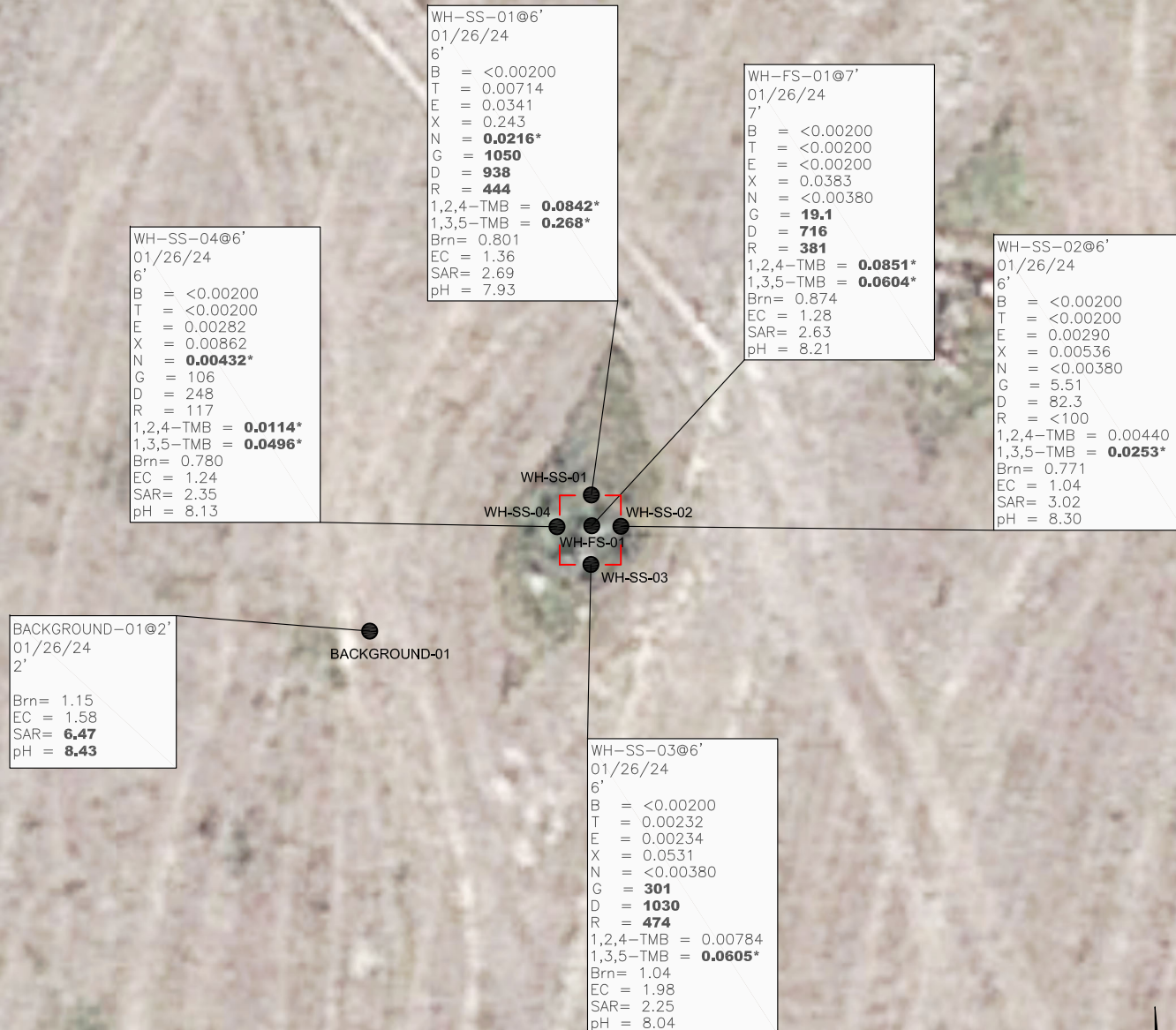
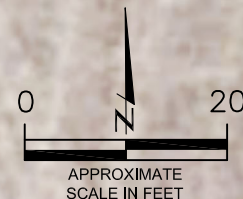
UPV #23-0214  
 CLOSURE ASSESSMENT  
 40.303030 / -104.514800  
 NW¼ NE¼ SEC.23 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-18051  
 REMEDIATION # 29488

FIGURE NO.  
4

DRAWN BY:  
BU



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WH-SS-01@6'  
 01/26/24  
 6'  
 B = <0.00200  
 T = 0.00714  
 E = 0.0341  
 X = 0.243  
 N = **0.0216\***  
 G = **1050**  
 D = **938**  
 R = **444**  
 1,2,4-TMB = **0.0842\***  
 1,3,5-TMB = **0.268\***  
 Brn= 0.801  
 EC = 1.36  
 SAR= 2.69  
 pH = 7.93

WH-FS-01@7'  
 01/26/24  
 7'  
 B = <0.00200  
 T = <0.00200  
 E = <0.00200  
 X = 0.0383  
 N = <0.00380  
 G = **19.1**  
 D = **716**  
 R = **381**  
 1,2,4-TMB = **0.0851\***  
 1,3,5-TMB = **0.0604\***  
 Brn= 0.874  
 EC = 1.28  
 SAR= 2.63  
 pH = 8.21

WH-SS-02@6'  
 01/26/24  
 6'  
 B = <0.00200  
 T = <0.00200  
 E = 0.00290  
 X = 0.00536  
 N = <0.00380  
 G = 5.51  
 D = 82.3  
 R = <100  
 1,2,4-TMB = 0.00440  
 1,3,5-TMB = **0.0253\***  
 Brn= 0.771  
 EC = 1.04  
 SAR= 3.02  
 pH = 8.30

WH-SS-04@6'  
 01/26/24  
 6'  
 B = <0.00200  
 T = <0.00200  
 E = 0.00282  
 X = 0.00862  
 N = **0.00432\***  
 G = 106  
 D = 248  
 R = 117  
 1,2,4-TMB = **0.0114\***  
 1,3,5-TMB = **0.0496\***  
 Brn= 0.780  
 EC = 1.24  
 SAR= 2.35  
 pH = 8.13

BACKGROUND-01@2'  
 01/26/24  
 2'  
 Brn= 1.15  
 EC = 1.58  
 SAR= **6.47**  
 pH = **8.43**

WH-SS-03@6'  
 01/26/24  
 6'  
 B = <0.00200  
 T = 0.00232  
 E = 0.00234  
 X = 0.0531  
 N = <0.00380  
 G = **301**  
 D = **1030**  
 R = **474**  
 1,2,4-TMB = 0.00784  
 1,3,5-TMB = **0.0605\***  
 Brn= 1.04  
 EC = 1.98  
 SAR= 2.25  
 pH = 8.04

**LEGEND**

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

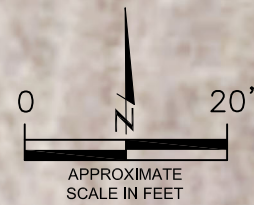
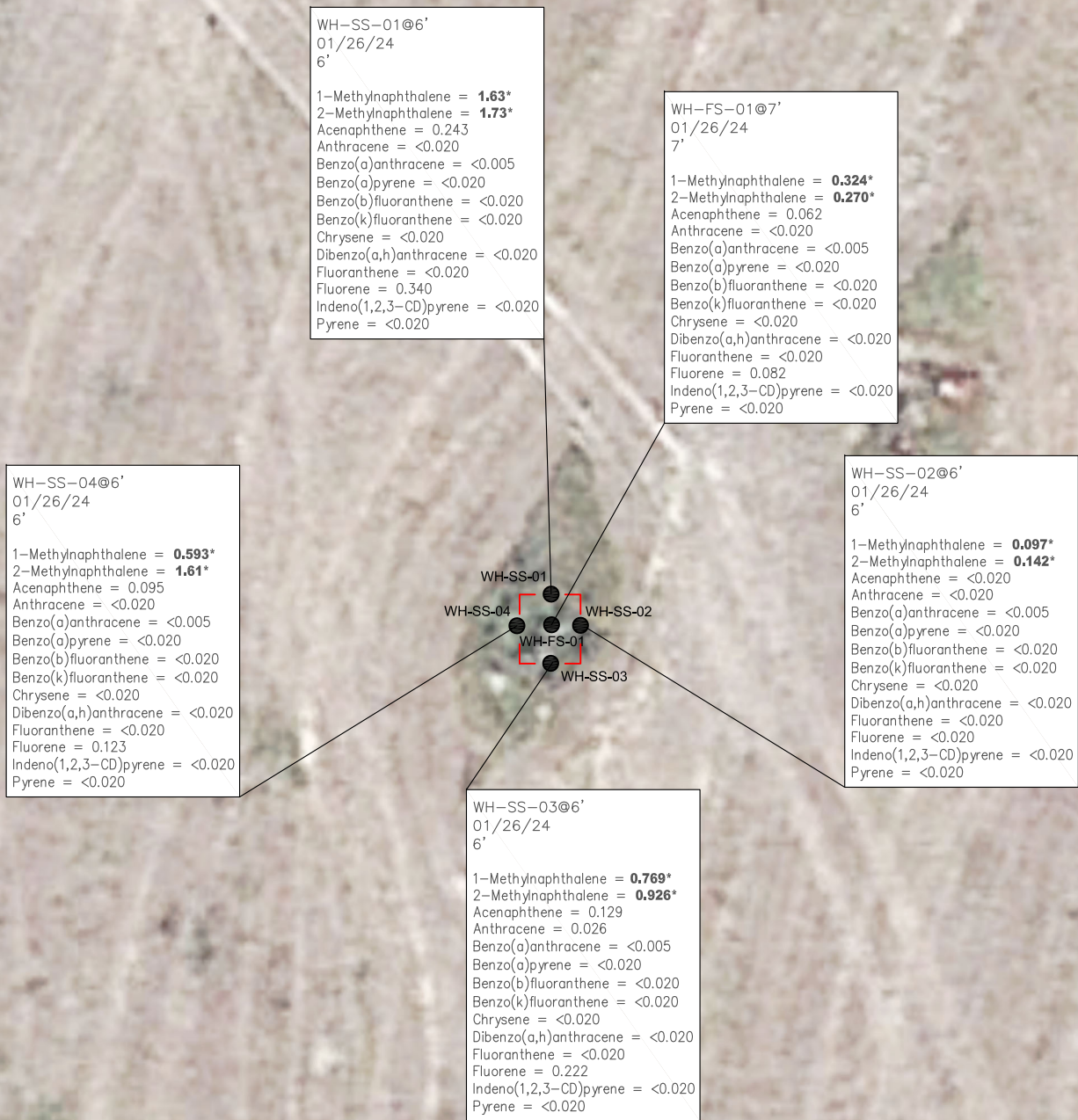
mg/kg = MILLIGRAMS PER KILOGRAM

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  
 UPV #23-0214  
 CLOSURE ASSESSMENT  
 40.303030 / -104.514800  
 NW¼ NE¼ SEC.23 T4N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-18051  
 REMEDIATION # 29488

FIGURE NO.  
5  
 DRAWN BY:  
BU

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



## **ATTACHMENT A**

### **Photolog**

UPV #23-0214  
API # 05-123-18051  
Remediation # 29488

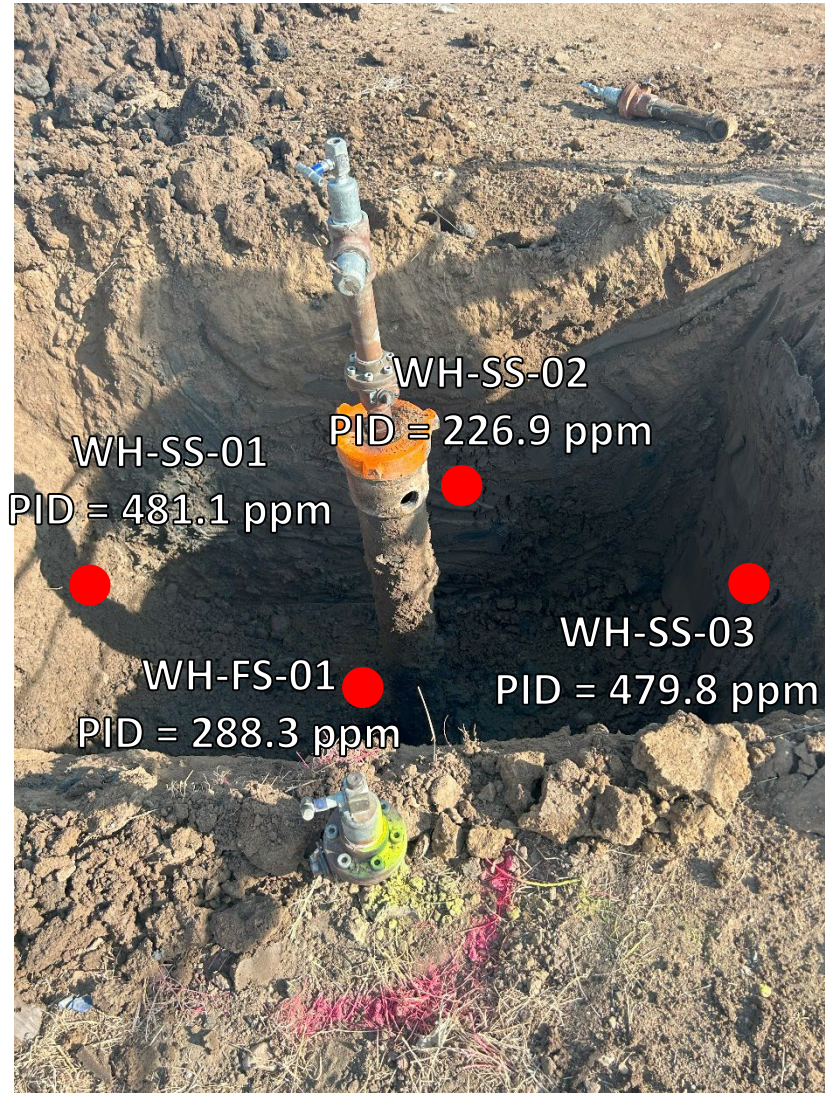
Closure Assessment

January 2024



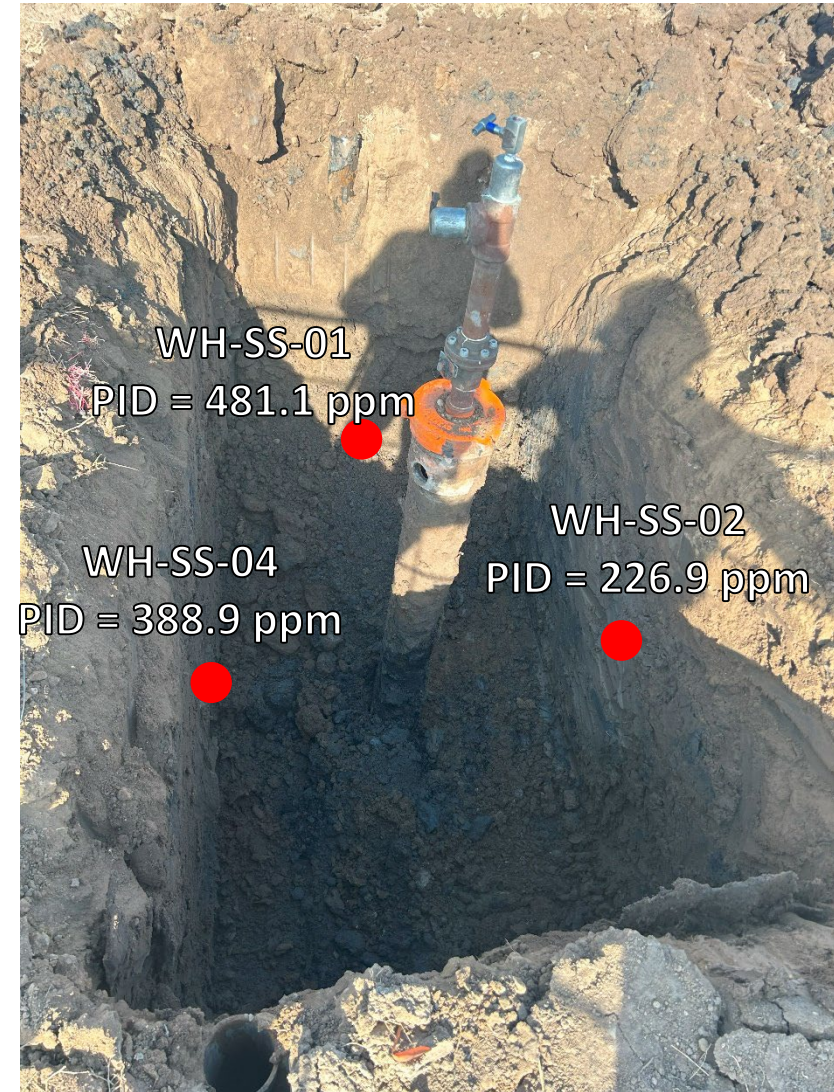


# Wellhead Excavation – 01/26/24



Looking east

Petroleum hydrocarbon staining and strong odor observed



Looking north

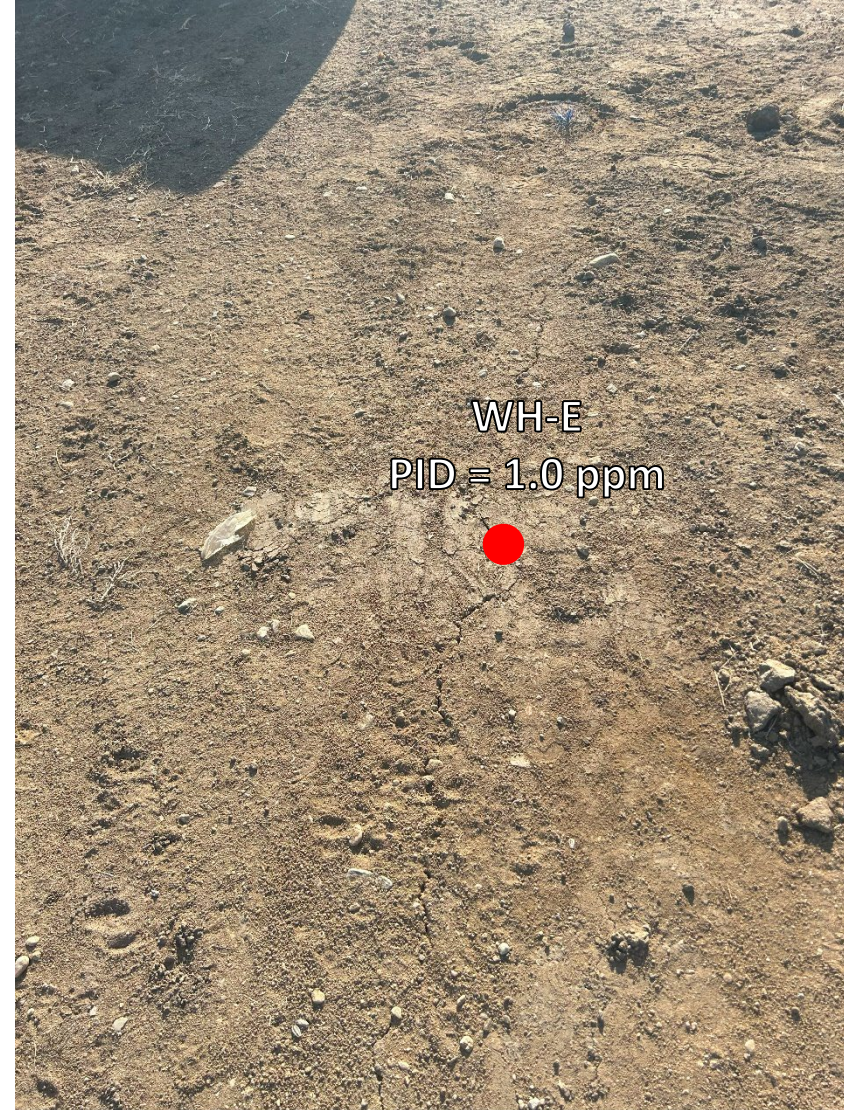
Petroleum hydrocarbon staining and strong odor observed

# Wellhead Surface – 01/26/24



Looking north

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



Looking east

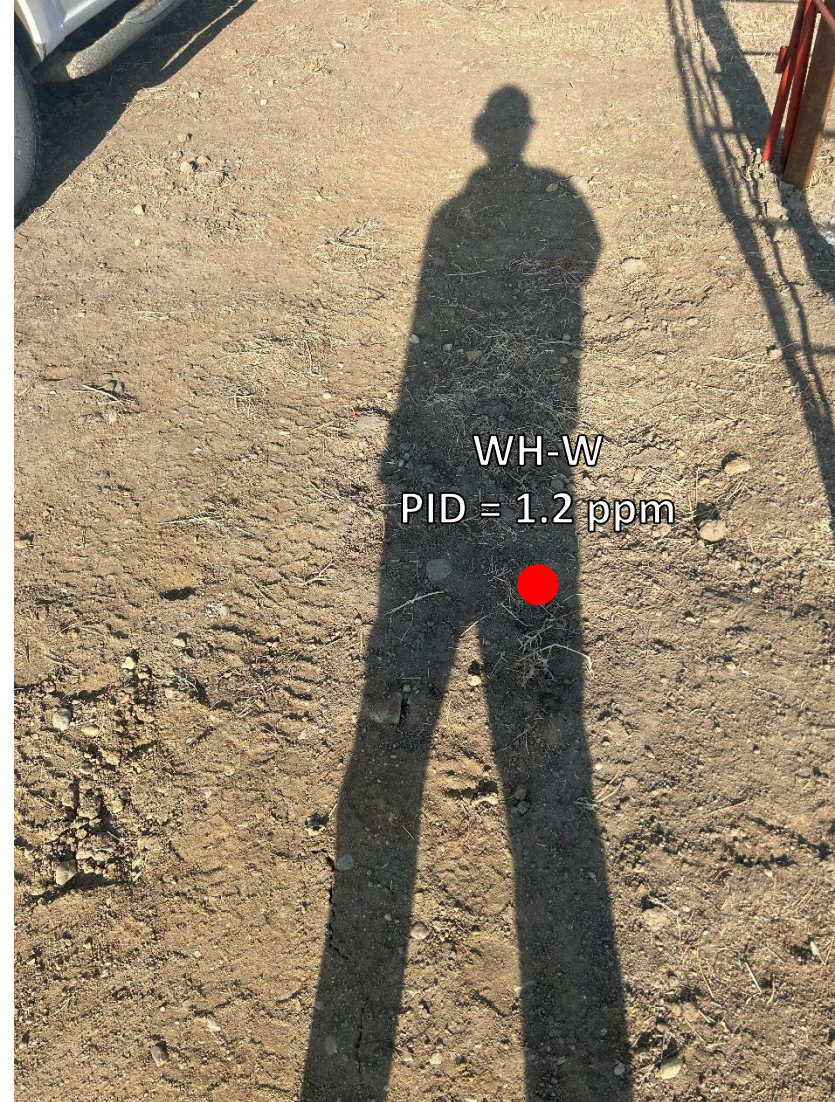
Site in good condition – no petroleum hydrocarbon staining or odor  
Observed on surface around wellhead

# Wellhead Surface – 01/26/24



Looking south

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



Looking west

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



## **ATTACHMENT B**

### **Laboratory Analytical Report**



February 07, 2024

Eagle Environmental Consulting, LLC

Andrew Newberry

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPV #23-0214

Project Number - [none]

Attached are your analytical results for Noble - UPV #23-0214 received by Origins Laboratory, Inc. January 26, 2024. This project is associated with Origins project number Y401684-01.

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

Andrew Newberry  
Project Number: [none]  
Project: Noble - UPV #23-0214

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@6'	Y401684-01	Soil	January 26, 2024 10:46	01/26/2024 16:28
WH-SS-02@6'	Y401684-02	Soil	January 26, 2024 10:48	01/26/2024 16:28
WH-SS-03@6'	Y401684-03	Soil	January 26, 2024 10:50	01/26/2024 16:28
WH-SS-04@6'	Y401684-04	Soil	January 26, 2024 10:52	01/26/2024 16:28
WH-FS-01@7'	Y401684-05	Soil	January 26, 2024 10:54	01/26/2024 16:28
Background-01@2'	Y401684-06	Soil	January 26, 2024 10:56	01/26/2024 16:28

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.*

# ORIGINS LABORATORY, INC

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

www.originslaboratory.com

page \_\_\_\_\_ of \_\_\_\_\_

44010284

Project Manager: Andrew Newberry  
 Project Name: UPV #23-0214  
 Project Number: \_\_\_\_\_  
 Samples Collected By: SL

Client: Eagle Environmental Consulting  
 Address: 8000 W 44th Ave  
Wheat Ridge, CO 80033  
 Telephone Number: 303-433-0114  
 Email Address: anewberry@eagle-envt.com

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

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 #		
WH-SS-0106	11/21/24	1046	3	X				X			EU SHA, PH =	1
WH-SS-0206		1048	1									2
WH-SS-0306		1050	1									3
WH-SS-0406		1052	1									4
WH-SS-0107		1054	1									5
Bioscience-0102		1056	2									6
												7
												8
												9
												10

Relinquished By: SL Date: 11/21/24 Time: 1058

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: SL Date: 12/02/24 Time: 1028

Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

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

Temp Received: \_\_\_\_\_ Date Results Needed: 12/16/24

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

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

Origins Laboratory

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

**Sample Receipt Checklist**

Origins Work Order: 1400004

Client: Eagle  
 Client Project ID: UPV 23-0214

Checklist Completed by: EHS  
 Date/time completed: 1/26/24

Shipped Via: HD  
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)  
 Airbill #: N/A

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

Cooler Number/Temperature: 1/6 °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 <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? <b>If yes, contact client and note in narrative.</b>			<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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+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) [Signature] Date/Time Reviewed 1/30/24

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-01@6'**

**1/26/2024 10:46:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.801	0.0991	mg/L	1	B4A3110	ACC	01/31/2024	02/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	938	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	
Residual Range Organics (C28-C40)	444	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	106 %	50-150			"	"		"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	1	B4A2922	HKS	01/29/2024	01/29/2024	
1,3,5-Trimethylbenzene	0.268	0.00200	"	"	"	HKS	"	"	
Benzene	ND	0.00200	"	"	"	HKS	"	"	U
Ethylbenzene	0.0341	0.00200	"	"	"	HKS	"	"	
Naphthalene	0.0216	0.00380	"	"	"	HKS	"	"	
Toluene	0.00714	0.00200	"	"	"	HKS	"	"	
Xylenes, total	0.243	0.00200	"	"	"	HKS	"	"	
Gasoline Range Hydrocarbons	1050	50.0	"	250	"	HK	"	02/02/2024	

Surrogate: 1,2-Dichloroethane-d4	115 %	70-130			"	"		01/29/2024	
Surrogate: Toluene-d8	125 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	98.7 %	70-130			"	"		"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-01@6'**

**1/26/2024 10:46:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y401684-01 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	6.47	0.499	meq/L	10	[CALC]	ACC	01/30/2024	01/31/2024	
Magnesium	2.50	0.823	"	"	"	ACC	"	"	
Sodium	5.70	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	1.63	0.020	mg/kg	10	B4A3028	Windo	01/30/2024	02/06/2024	
2-Methylnaphthalene	1.73	0.020	"	"	"	Windo	"	"	
Acenaphthene	0.243	0.020	"	1	"	Windo	"	02/02/2024	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.340	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 97.4 % 60-130 " " "

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC  
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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-01@6'**

**1/26/2024 10:46:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	---------	----------	----------	-------

**Origins Laboratory, Inc.**  
**Y401684-01 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	102 %	60-130			B4A30 28		01/30/2024	02/02/2024	
Surrogate: Pyrene-d10	91.1 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	7.93		pH Units	1	B4A3019	EAL	01/30/2024	01/31/2024	
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**SAR by 20B Saturated Paste**

SAR	2.69	0.0100	SAR	1	B4A3014	ACC	01/30/2024	01/31/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.36	0.00500	mmhos/cm	1	B4A3019	EAL	01/30/2024	01/31/2024	
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Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-02@6'**

**1/26/2024 10:48:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-02 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.771	0.0996	mg/L	1	B4A3110	ACC	01/31/2024	02/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	82.3	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl	87.7 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	0.00440	0.00200	mg/kg	1	B4A2922	JSM	01/29/2024	01/30/2024	
1,3,5-Trimethylbenzene	0.0253	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	0.00290	0.00200	"	"	"	JSM	"	"	
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	0.00536	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	5.51	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	106 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.6 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	96.0 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-02@6'**  
**1/26/2024 10:48:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-02 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	4.74	0.499	meq/L	10	[CALC]	ACC	01/30/2024	01/31/2024	
Magnesium	1.78	0.823	"	"	"	ACC	"	"	
Sodium	5.45	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.097	0.002	mg/kg	1	B4A3028	Windo	01/30/2024	02/02/2024	
2-Methylnaphthalene	0.142	0.002	"	"	"	Windo	"	"	
Acenaphthene	ND	0.020	"	"	"	Windo	"	"	U
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	ND	0.020	"	"	"	Windo	"	"	U
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 99.6 % 60-130 " " "

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-02@6'**

**1/26/2024 10:48:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-02 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	96.4 %	60-130			B4A30 28		01/30/2024	02/02/2024	
Surrogate: Pyrene-d10	98.8 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	99.5 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	<b>8.30</b>		pH Units	1	B4A3019	EAL	01/30/2024	01/31/2024	
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**SAR by 20B Saturated Paste**

SAR	<b>3.02</b>	0.0100	SAR	1	B4A3014	ACC	01/30/2024	01/31/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	<b>1.04</b>	0.00500	mmhos/cm	1	B4A3019	EAL	01/30/2024	01/31/2024	
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Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-03@6'**

**1/26/2024 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>1.04</b>	0.101	mg/L	1	B4A3110	ACC	01/31/2024	02/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>1030</b>	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	
Residual Range Organics (C28-C40)	<b>474</b>	100	"	"	"	ZZZ	"	"	

Surrogate: <i>o</i> -Terphenyl	91.6 %	50-150			"	"		"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>0.00784</b>	0.00200	mg/kg	1	B4A2922	JSM	01/29/2024	01/30/2024	
1,3,5-Trimethylbenzene	<b>0.0605</b>	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	<b>0.00234</b>	0.00200	"	"	"	JSM	"	"	
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	<b>0.00232</b>	0.00200	"	"	"	JSM	"	"	
Xylenes, total	<b>0.0531</b>	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	<b>301</b>	5.00	"	25	"	HK	"	02/02/2024	

Surrogate: 1,2-Dichloroethane-d4	105 %	70-130			"	"		01/30/2024	
Surrogate: Toluene-d8	101 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"		"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-03@6'**

**1/26/2024 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-03 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	14.2	0.499	meq/L	10	[CALC]	ACC	01/30/2024	01/31/2024	
Magnesium	4.35	0.823	"	"	"	ACC	"	"	
Sodium	6.85	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.769	0.002	mg/kg	1	B4A3028	Windo	01/30/2024	02/02/2024	
2-Methylnaphthalene	0.926	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.129	0.020	"	"	"	Windo	"	"	
Anthracene	0.026	0.020	"	"	"	Windo	"	"	
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.222	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 97.4 % 60-130 " " "  
 Surrogate: Anthracene-d10 103 % 60-130 " " "  
 Origins Laboratory, Inc.



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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-03@6'**

**1/26/2024 10:50:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.  
 Y401684-03 (Soil)**

**PAH by EPA 8270E**

Surrogate: Pyrene-d10	93.1 %		60-130		B4A30 28		01/30/2024	02/02/2024	
Surrogate: Benzo (a) pyrene-d12	104 %		60-130		"		"	"	

**pH in Soil by 9045D**

pH	8.04		pH Units	1	B4A3019	EAL	01/30/2024	01/31/2024	
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**SAR by 20B Saturated Paste**

SAR	2.25	0.0100	SAR	1	B4A3014	ACC	01/30/2024	01/31/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.98	0.00500	mmhos/cm	1	B4A3019	EAL	01/30/2024	01/31/2024	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-04@6'**

**1/26/2024 10:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-04 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>0.780</b>	0.100	mg/L	1	B4A3110	ACC	01/31/2024	02/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>248</b>	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	
Residual Range Organics (C28-C40)	<b>117</b>	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	93.9 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>0.0114</b>	0.00200	mg/kg	1	B4A2922	JSM	01/29/2024	01/30/2024	
1,3,5-Trimethylbenzene	<b>0.0496</b>	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	<b>0.00282</b>	0.00200	"	"	"	JSM	"	"	
Naphthalene	<b>0.00432</b>	0.00380	"	"	"	JSM	"	"	
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	<b>0.00862</b>	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	<b>106</b>	5.00	"	25	"	HK	"	02/02/2024	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"		01/30/2024	
Surrogate: Toluene-d8	103 %	70-130			"	"		"	
Surrogate: 4-Bromofluorobenzene	113 %	70-130			"	"		"	

**Metals by Saturated Paste by EPA 6010**

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-04@6'**

**1/26/2024 10:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-04 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	11.1	0.499	meq/L	10	[CALC]	ACC	01/30/2024	01/31/2024	
Magnesium	3.39	0.823	"	"	"	ACC	"	"	
Sodium	6.34	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.593	0.002	mg/kg	1	B4A3028	Windo	01/30/2024	02/02/2024	
2-Methylnaphthalene	1.61	0.020	"	10	"	Windo	"	02/07/2024	
Acenaphthene	0.095	0.020	"	1	"	Windo	"	02/02/2024	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.123	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 97.6 % 60-130 " " "

Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-SS-04@6'**

**1/26/2024 10:52:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-04 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	101 %	60-130			B4A30 28		01/30/2024	02/02/2024	
Surrogate: Pyrene-d10	95.8 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.13		pH Units	1	B4A3019	EAL	01/30/2024	01/31/2024	
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**SAR by 20B Saturated Paste**

SAR	2.35	0.0100	SAR	1	B4A3014	ACC	01/30/2024	01/31/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.24	0.00500	mmhos/cm	1	B4A3019	EAL	01/30/2024	01/31/2024	
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Origins Laboratory, Inc.



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 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-FS-01@7'**

**1/26/2024 10:54:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-05 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	<b>0.874</b>	0.101	mg/L	1	B4A3110	ACC	01/31/2024	02/01/2024	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	<b>716</b>	25.0	mg/kg	1	B4A3002	ZZZ	01/30/2024	02/03/2024	
Residual Range Organics (C28-C40)	<b>381</b>	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	112 %	50-150			"	"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	<b>0.0851</b>	0.00200	mg/kg	1	B4A2922	JSM	01/29/2024	01/30/2024	
1,3,5-Trimethylbenzene	<b>0.0604</b>	0.00200	"	"	"	JSM	"	"	
Benzene	ND	0.00200	"	"	"	JSM	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	U
Naphthalene	ND	0.00380	"	"	"	JSM	"	"	U
Toluene	ND	0.00200	"	"	"	JSM	"	"	U
Xylenes, total	<b>0.0383</b>	0.00200	"	"	"	JSM	"	"	
Gasoline Range Hydrocarbons	<b>19.1</b>	0.200	"	"	"	JSM	"	"	

Surrogate: 1,2-Dichloroethane-d4	107 %	70-130			"	"	"	"	
Surrogate: Toluene-d8	98.1 %	70-130			"	"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %	70-130			"	"	"	"	

Origins Laboratory, Inc.



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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-FS-01@7'**

**1/26/2024 10:54:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-05 (Soil)**

**Metals by Saturated Paste by EPA 6010**

Calcium	5.91	0.499	meq/L	10	[CALC]	ACC	01/30/2024	01/31/2024	
Magnesium	2.14	0.823	"	"	"	ACC	"	"	
Sodium	5.27	0.435	"	"	"	ACC	"	"	

**PAH by EPA 8270E**

1-Methylnaphthalene	0.324	0.002	mg/kg	1	B4A3028	Windo	01/30/2024	02/02/2024	
2-Methylnaphthalene	0.270	0.002	"	"	"	Windo	"	"	
Acenaphthene	0.062	0.020	"	"	"	Windo	"	"	
Anthracene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	Windo	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Chrysene	ND	0.020	"	"	"	Windo	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Windo	"	"	U
Fluoranthene	ND	0.020	"	"	"	Windo	"	"	U
Fluorene	0.082	0.020	"	"	"	Windo	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Windo	"	"	U
Pyrene	ND	0.020	"	"	"	Windo	"	"	U

Surrogate: Fluorene-d10 98.8 % 60-130 " " "

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 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**WH-FS-01@7'**

**1/26/2024 10:54:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-05 (Soil)**

**PAH by EPA 8270E**

Surrogate: Anthracene-d10	101 %	60-130			B4A30 28		01/30/2024	02/02/2024	
Surrogate: Pyrene-d10	95.7 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	102 %	60-130			"		"	"	

**pH in Soil by 9045D**

pH	8.21		pH Units	1	B4A3019	EAL	01/30/2024	01/31/2024	
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**SAR by 20B Saturated Paste**

SAR	2.63	0.0100	SAR	1	B4A3014	ACC	01/30/2024	01/31/2024	
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.28	0.00500	mmhos/cm	1	B4A3019	EAL	01/30/2024	01/31/2024	
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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**Background-01@2'**  
**1/26/2024 10:56:00AM**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y401684-06 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	1.15	0.100	mg/L	1	B4A3110	ACC	01/31/2024	02/01/2024
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**Metals by Saturated Paste by EPA 6010**

Calcium	3.15	0.499	meq/L	10	[CALC]	ACC	01/30/2024	01/31/2024
Magnesium	1.79	0.823	"	"	"	ACC	"	"
Sodium	10.2	0.435	"	"	"	ACC	"	"

**pH in Soil by 9045D**

pH	8.43		pH Units	1	B4A3019	EAL	01/30/2024	01/31/2024
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**SAR by 20B Saturated Paste**

SAR	6.47	0.0100	SAR	1	B4A3014	ACC	01/30/2024	01/31/2024
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**Specific Conductance Mod. 9050A**

Specific Conductance (EC)	1.58	0.00500	mmhos/cm	1	B4A3019	EAL	01/30/2024	01/31/2024
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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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**Batch B4A2922 - EPA 5030 (soil)**

**Blank (B4A2922-BLK1)**

Prepared: 01/29/2024 Analyzed: 01/29/2024

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	0.14		"	0.125	111		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.1		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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**Batch B4A2922 - EPA 5030 (soil)**

**LCS (B4A2922-BS1)**

Prepared: 01/29/2024 Analyzed: 01/29/2024

1,2,4-Trimethylbenzene	0.113	0.00200	mg/kg	0.100		113	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Benzene	0.0961	0.00200	"	0.100		96.1	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.0957	0.00200	"	0.100		95.7	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.1	70-130			

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 Project: Noble - UPV #23-0214

**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 B4A2922 - EPA 5030 (soil)

Matrix Spike (B4A2922-MS1)	Source: Y401641-14			Prepared: 01/29/2024 Analyzed: 01/29/2024						
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130			
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Benzene	0.0965	0.00200	"	0.100	ND	96.5	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130			
Toluene	0.0969	0.00200	"	0.100	ND	96.9	70-130			
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130			
m,p-Xylene	0.201	0.00400	"	0.200	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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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Batch B4A2922 - EPA 5030 (soil)

Matrix Spike Dup (B4A2922-MSD1)	Source: Y401641-14			Prepared: 01/29/2024 Analyzed: 01/29/2024						
1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100	ND	110	70-130	3.48	20	
1,3,5-Trimethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130	0.198	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	5.42	20	
Ethylbenzene	0.103	0.00200	"	0.100	ND	103	70-130	4.08	20	
Naphthalene	0.112	0.00380	"	0.100	ND	112	70-130	0.232	20	
Toluene	0.111	0.00200	"	0.100	ND	111	70-130	13.2	20	
o-Xylene	0.0975	0.00200	"	0.100	ND	97.5	70-130	0.103	20	
m,p-Xylene	0.193	0.00400	"	0.200	ND	96.5	70-130	4.27	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		116	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.7	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
<b>Batch B4A3002 - EPA 3550B</b>										
<b>Blank (B4A3002-BLK1)</b>										
					Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.6	50-150			

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 Project: Noble - UPV #23-0214

**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 B4A3002 - EPA 3550B**

**LCS (B4A3002-BS1)**

Prepared: 01/30/2024 Analyzed: 02/03/2024

Diesel (C10-C28)	907	50.0	mg/kg	1000		90.7	70-130			
Residual Range Organics (C28-C40)	985	200	"	1000		98.5	70-130			
Surrogate: o-Terphenyl	63		"	49.8		126	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**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 B4A3002 - EPA 3550B**

<b>Matrix Spike (B4A3002-MS1)</b>	<b>Source: Y401673-05</b>			Prepared: 01/30/2024 Analyzed: 02/03/2024						
Diesel (C10-C28)	890	50.0	mg/kg	1000	ND	89.0	70-130			
Residual Range Organics (C28-C40)	958	200	"	1000	ND	95.8	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**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 B4A3002 - EPA 3550B</b>										
<b>Matrix Spike Dup (B4A3002-MSD1)</b>		<b>Source: Y401673-05</b>			Prepared: 01/30/2024 Analyzed: 02/03/2024					
Diesel (C10-C28)	914	50.0	mg/kg	1000	ND	91.4	70-130	2.62	35	
Residual Range Organics (C28-C40)	921	200	"	1000	ND	92.1	70-130	3.93	35	
Surrogate: o-Terphenyl	47		"	49.8		94.7	50-150			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**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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**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A3028 - EPA 3580**

**Blank (B4A3028-BLK1)**

Prepared: 01/30/2024 Analyzed: 02/02/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	180		"	200		92.1	60-130			
Surrogate: Pyrene-d10	200		"	200		98.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A3028 - EPA 3580**

**LCS (B4A3028-BS1)**

Prepared: 01/30/2024 Analyzed: 02/02/2024

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200		112	70-130			
2-Methylnaphthalene	0.225	0.002	"	0.200		113	70-130			
Acenaphthene	0.219	0.020	"	0.200		109	70-130			
Anthracene	0.198	0.020	"	0.200		98.9	70-130			
Benzo (a) anthracene	0.205	0.005	"	0.200		103	70-130			
Benzo (a) pyrene	0.229	0.020	"	0.200		115	70-130			
Benzo (b) fluoranthene	0.228	0.020	"	0.200		114	70-130			
Benzo (g,h,i) perylene	0.231	0.020	"	0.200		115	70-130			
Benzo (k) fluoranthene	0.242	0.020	"	0.200		121	70-130			
Chrysene	0.219	0.020	"	0.200		110	70-130			
Dibenz (a,h) anthracene	0.235	0.020	"	0.200		118	70-130			
Fluoranthene	0.213	0.020	"	0.200		106	70-130			
Fluorene	0.219	0.020	"	0.200		110	70-130			
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130			
Naphthalene	0.225	0.002	"	0.200		112	70-130			
Phenanthrene	0.207	0.020	"	0.200		103	70-130			
Pyrene	0.206	0.020	"	0.200		103	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

**Matrix Spike (B4A3028-MS1)**

**Source: Y401659-01**

Prepared: 01/30/2024 Analyzed: 02/02/2024

1-Methylnaphthalene	28.9	0.100	mg/kg	0.200	30.5	NR	70-130			QM-07
2-Methylnaphthalene	47.9	0.100	"	0.200	49.6	NR	70-130			QM-07
Acenaphthene	3.56	1.00	"	0.200	2.16	697	70-130			QM-07

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A3028 - EPA 3580**

<b>Matrix Spike (B4A3028-MS1)</b>		<b>Source: Y401659-01</b>			<b>Prepared: 01/30/2024 Analyzed: 02/02/2024</b>					
Anthracene	0.340	1.00	mg/kg	0.200	ND	170	70-130			QM-07, U
Benzo (a) anthracene	0.307	0.005	"	0.200	0.213	47.1	70-130			QM-07
Benzo (a) pyrene	0.244	0.020	"	0.200	0.144	50.1	70-130			QM-07
Benzo (b) fluoranthene	0.238	0.020	"	0.200	0.201	18.3	70-130			QM-07
Benzo (g,h,i) perylene	0.241	0.020	"	0.200	0.125	58.4	70-130			QM-07
Benzo (k) fluoranthene	0.207	0.020	"	0.200	0.024	91.7	70-130			
Chrysene	0.625	0.020	"	0.200	0.559	33.2	70-130			QM-07
Dibenz (a,h) anthracene	0.223	0.020	"	0.200	0.026	98.4	70-130			
Fluoranthene	0.345	0.020	"	0.200	0.496	NR	70-130			QM-07
Fluorene	4.17	1.00	"	0.200	4.42	NR	70-130			QM-07
Indeno (1,2,3-cd) pyrene	0.217	0.020	"	0.200	0.055	81.2	70-130			
Naphthalene	20.1	0.100	"	0.200	21.0	NR	70-130			QM-07
Phenanthrene	5.52	1.00	"	0.200	5.45	35.2	70-130			QM-07
Pyrene	0.403	0.020	"	0.200	0.495	NR	70-130			QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		95.1	60-130			
Surrogate: Anthracene-d10	250		"	200		124	60-130			
Surrogate: Pyrene-d10	140		"	200		68.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

<b>Matrix Spike Dup (B4A3028-MSD1)</b>		<b>Source: Y401659-01</b>			<b>Prepared: 01/30/2024 Analyzed: 02/02/2024</b>					
1-Methylnaphthalene	28.1	0.100	mg/kg	0.200	30.5	NR	70-130	3.05	20	QM-07
2-Methylnaphthalene	45.7	0.100	"	0.200	49.6	NR	70-130	4.72	20	QM-07
Acenaphthene	3.39	1.00	"	0.200	2.16	614	70-130	4.76	20	QM-07
Anthracene	0.327	1.00	"	0.200	ND	164	70-130	3.66	20	QM-07, U
Benzo (a) anthracene	0.368	0.005	"	0.200	0.213	77.6	70-130	18.1	20	
Benzo (a) pyrene	0.259	0.020	"	0.200	0.144	57.2	70-130	5.65	20	QM-07

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Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4A3028 - EPA 3580**

<b>Matrix Spike Dup (B4A3028-MSD1)</b>		<b>Source: Y401659-01</b>			<b>Prepared: 01/30/2024 Analyzed: 02/02/2024</b>					
Benzo (b) fluoranthene	0.269	0.020	mg/kg	0.200	0.201	34.1	70-130	12.5	20	QM-07
Benzo (g,h,i) perylene	0.268	0.020	"	0.200	0.125	71.5	70-130	10.3	20	
Benzo (k) fluoranthene	0.242	0.020	"	0.200	0.024	109	70-130	15.7	20	
Chrysene	0.703	0.020	"	0.200	0.559	71.9	70-130	11.7	20	
Dibenz (a,h) anthracene	0.216	0.020	"	0.200	0.026	94.9	70-130	3.21	20	
Fluoranthene	0.437	0.020	"	0.200	0.496	NR	70-130	23.5	20	QM-07, QR-03
Fluorene	5.15	1.00	"	0.200	4.42	368	70-130	21.1	20	QM-07, QR-03
Indeno (1,2,3-cd) pyrene	0.231	0.020	"	0.200	0.055	87.9	70-130	5.98	20	
Naphthalene	18.9	0.100	"	0.200	21.0	NR	70-130	6.22	20	QM-07
Phenanthrene	5.27	1.00	"	0.200	5.45	NR	70-130	4.66	20	QM-07
Pyrene	0.399	0.020	"	0.200	0.495	NR	70-130	0.965	20	QM-07
Surrogate: Fluorene-d10	190		ug/kg	200		93.1	60-130			
Surrogate: Anthracene-d10	250		"	200		126	60-130			
Surrogate: Pyrene-d10	140		"	200		70.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

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

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**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 B4A3014 - Saturated Paste Metals**

**Blank (B4A3014-BLK1)**

Prepared: 01/30/2024 Analyzed: 01/31/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

**Duplicate (B4A3014-DUP1)**

**Source: Y401683-01**

Prepared: 01/30/2024 Analyzed: 01/31/2024

Calcium PPM	539	10.0	mg/L		550			2.04	50	
SAR	ND	0.0100	SAR		0.432				200	
Magnesium PPM	65.5	10.0	mg/L		68.7			4.74	50	
Sodium PPM	46.5	10.0	"		40.4			14.1	50	

**Batch B4A3110 - DTPA Sorbitol Preparation**

**Blank (B4A3110-BLK1)**

Prepared: 01/31/2024 Analyzed: 02/01/2024

Boron	ND	0.100	mg/L							
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**Duplicate (B4A3110-DUP1)**

**Source: Y401682-02**

Prepared: 01/31/2024 Analyzed: 02/01/2024

Boron	0.0855	0.100	mg/L		0.0910			6.16	50	
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Eagle Environmental Consulting, LLC  
 8000 W 44th Ave  
 Wheat Ridge CO 80033

Andrew Newberry  
 Project Number: [none]  
 Project: Noble - UPV #23-0214

**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 B4A3019 - Saturated Paste pH/EC</b>										
<b>Blank (B4A3019-BLK1)</b>					Prepared: 01/30/2024 Analyzed: 01/31/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B4A3019-DUP1)</b>		<b>Source: Y401683-01</b>			Prepared: 01/30/2024 Analyzed: 01/31/2024					
pH	8.16		pH Units		8.20			0.489	25	
Specific Conductance (EC)	2.25	0.00500	mmhos/cm		2.25			0.258	25	

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Wheat Ridge CO 80033

Andrew Newberry  
Project Number: [none]  
Project: Noble - UPV #23-0214

### Notes and Definitions

U Sample is Non-Detect.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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