



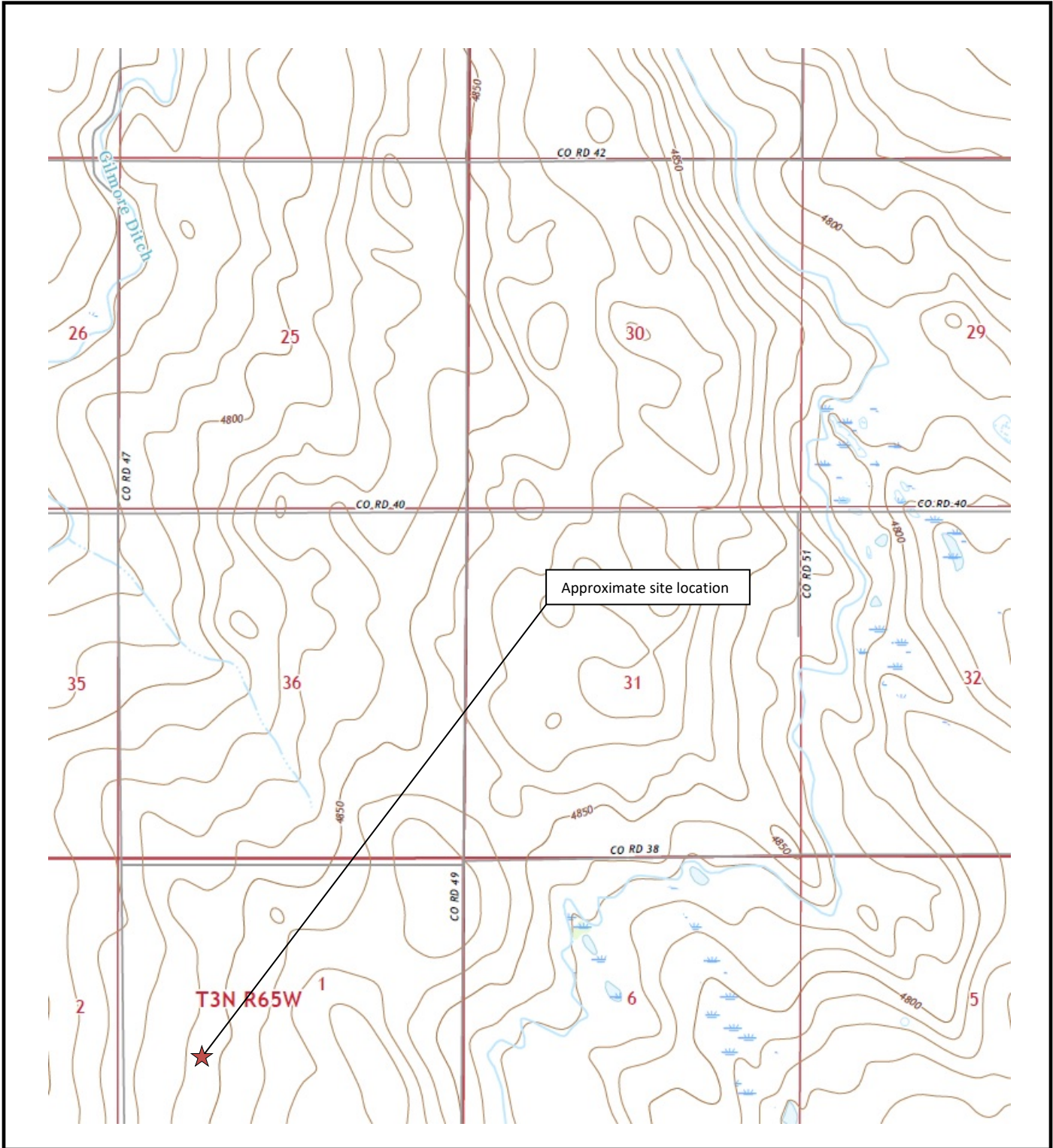
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Source Excavation Soil Analytical Map

Figure 4: Source Excavation Metals in Soil Map



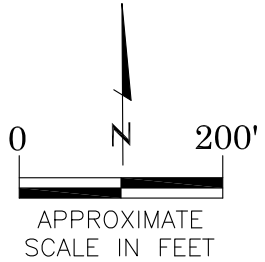
	<p style="text-align: center;">Topographic Site Location Map UPRR 39 Pan Am G #1 Historical Release 40.250650 / -104.616910 SW¼ SW¼ SEC.1 T3N R65W 6PM Weld County, Colorado API # 05-123-14467 Remediation # 21717</p>
<p>Source: USGS 7.5 Minute Topographic Map, Valley View School, CO Quadrangle 2022</p>	<p>Figure 1</p>

<p style="font-size: 2em; font-weight: bold; margin-top: 10px;">EAGLE</p> <p style="font-weight: bold; margin-top: 5px;">ENVIRONMENTAL CONSULTING, INC.</p>



LEGEND

- FORMER UPRR 39 PAN AM G #1 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION (REMOVED)



AERIAL SITE LOCATION MAP
 UPRR 39 PAN AM G #1
 HISTORICAL RELEASE
 40.250650 / -104.616910
 SW¼ SW¼ SEC.1 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14467
 REMEDIATION # 21717

DATE: 05/25/22

FIG. NO. 2 DRAWN BY: AMN



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LEGEND

- EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED ONLY, WITH PHOTONIZATION DETECTOR

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

mg/L = MILLIGRAMS PER LITER

mmhos/cm = MILLIMHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOURCE EXCAVATION SOIL ANALYTICAL MAP

UPRR 39 PAN AM G #1
 HISTORICAL RELEASE
 40.250650 / -104.616910
 SW¼ SW¼ SEC.1 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14467
 REMEDIATION # 21717

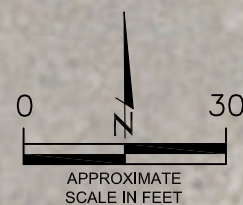


FIGURE NO.
3

DRAWN BY:
AG



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LEGEND

- EXCAVATION BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED ONLY, WITH PHOTIONIZATION DETECTOR

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
Arsenic = (mg/kg)
Barium = (mg/kg)
Cadmium = (mg/kg)
Chromium (VI) = (mg/kg)
Copper = (mg/kg)
Lead = (mg/kg)
Nickel = (mg/kg)
Selenium = (mg/kg)
Silver = (mg/kg)
Zinc = (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NA - NOT ANALYZED

(NS) - NOT SAMPLED

NOTES:

VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT/OR ABOVE LABORATORY REPORTING LIMITS AND/OR MINIMUM DETECTION LIMITS.

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

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

****ACHIEVABLE PRACTICAL QUANTITATIVE LIMITS FOR HEXAVALENT CHROMIUM (Cr VI) IN SOILS IS IN THE RANGE OF 0.1 TO 1 mg/kg. (1) SAMPLE REQUIRED DILUTION, RAISING LABORATORY REPORTING AND DETECTION LIMITS - SAMPLE NON-DETECT**

ELEVATED METALS ARE NATURALLY OCCURRING IN COLORADO. LOCAL CLEAN-UP LEVELS ARE 1.25*BACKGROUND

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOURCE EXCAVATION METALS IN SOIL MAP

UPRR 39 PAN AM G #1
 HISTORICAL RELEASE
 40.250650 / -104.616910
 SW¼ SW¼ SEC.1 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-14467
 REMEDIATION # 21717

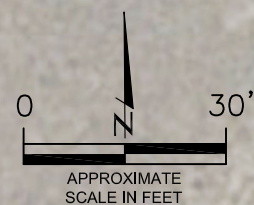


FIGURE NO.

4

DRAWN BY:

AG



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TABLES

Table 1: Field Data Summary

Table 2: Summary of Volatile Organic Soil Chemistry Data

Table 3: Summary of PAH Soil Chemistry Data

Table 4: Summary of Soil Suitability for Reclamation

Table 5: Summary of Metals in Soil Chemistry Data

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE ENERGY 100322
UPRR 39 PAN AM G #1, WELD COUNTY, COLORADO
REM # 21717

Sample ID	Sample Date	Depth (ft)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH-FS-01 @ 6'	4/12/2022	6	40.25066	-104.616926	4.5
FL-SS-10 @ 4'	5/17/2022	4	40.252342	-104.619373	0.8
FL-SS-11 @ 4'	5/17/2022	4	40.252486	-104.619582	0.4
FL-SS-14 @ 3'	5/17/2022	3	40.253069	-104.620433	4.9
Background-01 @ 4'	5/17/2022	4	40.253149	-104.620324	1.9
EX-SS-01 @ 3'	3/20/2023	3			36.8
EX-SS-02 @ 3'	3/20/2023	3	40.253103	-104.620410	1.1
EX-SS-03 @ 3'	3/20/2023	3	40.253062	-104.620430	0.5
EX-SS-04 @ 3'	3/20/2023	3	40.253102	-104.620450	0.5
EX-SS-05 @ 3'	3/20/2023	3	40.253134	-104.620440	5.3
EX-FS-01 @ 4'	3/20/2023	4	40.253101	-104.620433	3.1

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

PDOP = Position Dilution of Precision

ppm = Parts per million

in. = Inches

ft. = Feet

bgs = Below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
UPRR 39 PAN AM G #1, WELD COUNTY, COLORADO
REM # 21717

Sample ID	Sample Date	Depth (ft)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH-FS-01 @ 6'	4/12/2022	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<500	<0.200	<25.0	<100
FL-SS-10 @ 4'	5/17/2022	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<500	<0.200	<25.0	<100
FL-SS-11 @ 4'	5/17/2022	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<500	<0.200	<25.0	<100
FL-SS-14 @ 3'	5/17/2022	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<500	<0.200	<25.0	<100
EX-SS-02 @ 3'	3/20/2023	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201	<500	<0.200	<25.0	<100
EX-SS-03 @ 3'	3/20/2023	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201	<500	<0.200	<25.0	<100
EX-SS-04 @ 3'	3/20/2023	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201	<500	<0.200	<25.0	<100
EX-SS-05 @ 3'	3/20/2023	3	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201	<500	<0.200	<25.0	<100
EX-FS-01 @ 4'	3/20/2023	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00201	<500	0.499	<25.0	<100

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL
4. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
UPRR 39 PAN AM G #1, WELD COUNTY, COLORADO
REM # 21717

Sample ID	Sample Date	Depth (ft)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH-FS-01 @ 6'	4/12/2022	6	0.000362	0.000987	0.00268	0.00257	0.00258	0.00104	0.00301	<0.00067	0.00703	0.000382	0.000754	0.00624	<0.00067	<0.00067
FL-SS-10 @ 4'	5/17/2022	4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000996	<0.00067	<0.00067	0.000847	<0.00067	<0.00067
FL-SS-11 @ 4'	5/17/2022	4	<0.00067	0.000361	0.000913	0.000476	0.00295	0.000687	0.0012	<0.00067	0.00384	<0.00067	0.00186	0.00315	<0.00067	<0.00067
FL-SS-14 @ 3'	5/17/2022	3	0.00687	0.0224	0.127	0.0313	0.154	0.0497	0.119	<0.00067	0.471	0.00652	0.135	0.361	<0.00067	<0.00067
EX-SS-02 @ 3'	3/20/2023	3	<0.00067	<0.00067	<0.00067	0.000522	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201
EX-SS-03 @ 3'	3/20/2023	3	<0.00067	<0.00067	<0.00067	0.000551	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201
EX-SS-04 @ 3'	3/20/2023	3	<0.00067	<0.00067	<0.00067	0.000747	<0.00067	<0.00067	<0.00067	<0.00067	0.000569	<0.00067	<0.00067	<0.00067	<0.00201	<0.00201
EX-SS-05 @ 3'	3/20/2023	3	<0.00067	<0.00067	0.00147	0.00211	0.00176	0.00141	0.00229	<0.00067	0.0044	0.00044	0.00123	0.00372	0.00113	0.00316
EX-FS-01 @ 4'	3/20/2023	4	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.0101	<0.0101

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
3. * Indicates laboratory minimum detection limit in excess of SSL

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE ENERGY 100322
UPRR 39 PAN AM G #1, WELD COUNTY, COLORADO
REM # 21717

Sample ID	Sample Date	Depth (ft)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH-FS-01 @ 6'	4/12/2022	6	8.03	0.649	4.14	0.462
FL-SS-10 @ 4'	5/17/2022	4	8.42	1.21	6.11	0.661
FL-SS-11 @ 4'	5/17/2022	4	8.51	1.360	6.44	0.704
FL-SS-14 @ 3'	5/17/2022	3	8.18	0.346	0.901	<0.100
Background-01 @ 4'	5/17/2022	4	8.33	NA	5.97	NA
Maximum Background Concentration						
Average Background Concentration						

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Blue highlighted soil analytical values indicate a regulatory exceedance
- NA - Not analyzed

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE ENERGY 100322
UPRR 39 PAN AM G #1, WELD COUNTY, COLORADO
REM # 21717

Sample ID	Sample Date	Depth (ft)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
FL-SS-14 @ 3'	5/17/2022	3	1.05	35.2	0.08	<0.244	3.42	3.62	3.35	0.36	0.0152	15.9
EX-SS-02 @ 3'	3/20/2023	3	NA	NA	NA	NA	NA	NA	NA	0.0918	NA	NA
EX-SS-03 @ 3'	3/20/2023	3	NA	NA	NA	NA	NA	NA	NA	<0.0882	NA	NA
EX-SS-04 @ 3'	3/20/2023	3	NA	NA	NA	NA	NA	NA	NA	<0.0925	NA	NA
EX-SS-05 @ 3'	3/20/2023	3	NA	NA	NA	NA	NA	NA	NA	<0.0950	NA	NA
EX-FS-01 @ 4'	3/20/2023	4	NA	NA	NA	NA	NA	NA	NA	<0.0937	NA	NA
Background-01 @ 4'	5/17/2022	4	2.31	NA	NA	NA	NA	NA	NA	0.0778	NA	NA
Maximum Background Concentration			2.31	0								
125% Maximum Background Concentration			2.89	0								

1. Bold values are equal to or exceed the ECMC Table 915-1 limit(s)
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
- * Indicates laboratory minimum detection limit in excess of SSL
NA - Not analyzed



ATTACHMENT A

Photolog

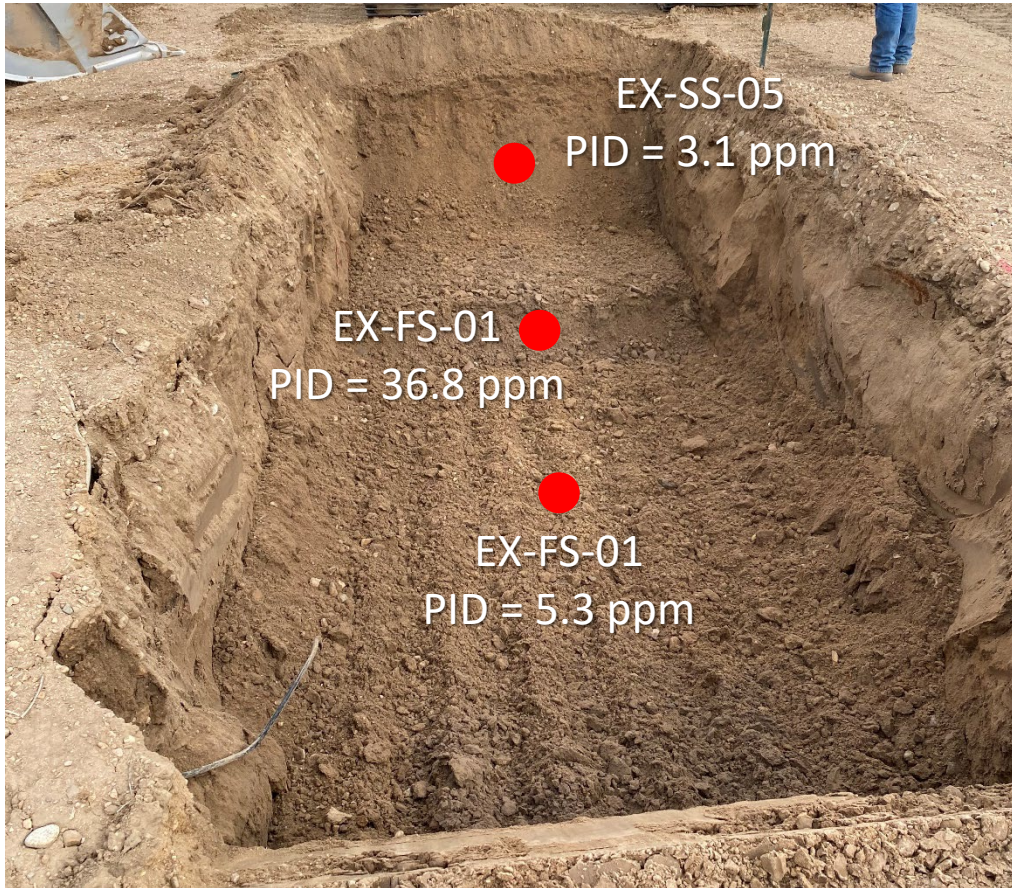
UPRR 39 Pan Am G #1
API # 05-123-14467
Remediation # 21717

Source Excavation

March 2023



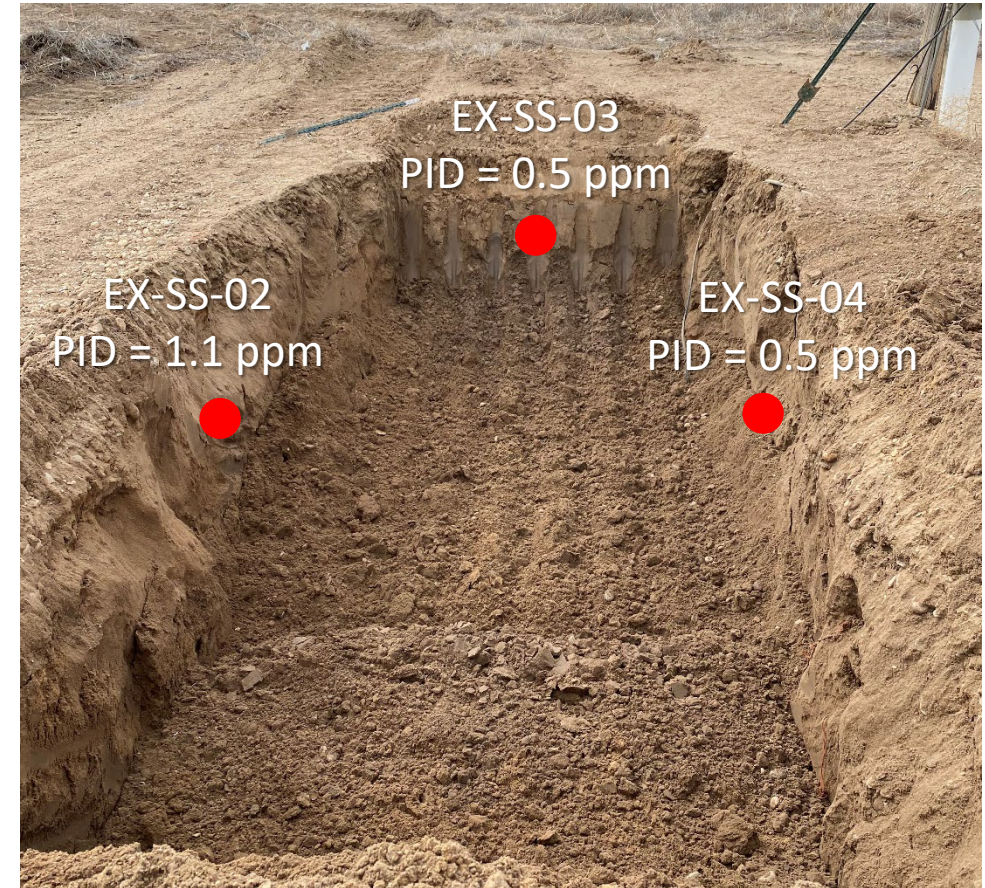
Excavation Oversight – 03/20/23



Looking north
Excavation completed adjacent to historical impacts observed during initial decommissioning assessment

Approximate total depth ~4'

No petroleum hydrocarbon staining or odor observed



Looking south
Excavation completed adjacent to historical impacts observed during initial decommissioning assessment

Approximate total depth ~4'

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



April 26, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRR 39 Pan Am G #1

Project Number - [none]

Attached are your analytical results for Noble - UPRR 39 Pan Am G #1 received by Origins Laboratory, Inc. April 12, 2022. This project is associated with Origins project number Y204247-01.

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 - UPRR 39 Pan Am G #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y204247-01	Soil	April 12, 2022 8:23	04/12/2022 16:17

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 - UPRR 39 Pan Am G #1

www.originslaboratory.com

1204247

page 1 of 1

ORIGINS

LABORATORY, INC

Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0474
 Email Address: MCP@origins-lab.com

Project Manager: Martin Eckert III
 Project Name: UPRR 39 Pan Am G #1
 Project Number:
 Samples Collected by: RH

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #		
WH-FS-01 e v'	4/12/22	0803	2	X				X				GC, HR, pH Subtracted photo app 2
												MDOs involved

Relinquished By: [Signature] Date: 4/12/22 Time: 1617
 Received By: [Signature] Date: 4/12/22 Time: 1107
 Turnaround Time: 24 Hr 48 Hr 72 Hr Standard

Temp Received - 3.5
 Date Results Needed - Noble

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y204247

Client: Eagle

Client Project ID: UPRR 39 Pan Am G #1

Checklist Completed by: SG

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

Date/time completed: 4/13/22

Airbill #: N/A

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

Cooler Number/Temperature: 1, 3.5 °C _____ °C _____ °C _____ °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) JB

4-14-22
 Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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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 - UPRR 39 Pan Am G #1

WH-FS-01@6'
4/12/2022 8:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204247-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.462		0.101	mg/L	1	B2D1410	04/14/2022	04/15/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D1405	04/14/2022	04/23/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	88.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D1328	04/13/2022	04/17/2022	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	110 %		70-130			"	"	"	
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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 - UPRR 39 Pan Am G #1

WH-FS-01@6'

4/12/2022 8:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y204247-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.6 %		70-130			B2D13 28	04/13/2022	04/17/2022	
Surrogate: 4-Bromofluorobenzene	96.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.13		0.499	meq/L	10	[CALC]	04/13/2022	04/14/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.88		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L611114	04/15/2022	04/18/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.000362	0.000304	0.00067	"	"	"	"	"	J
Anthracene	0.000987	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00268	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00257	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00258	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00104	0.000437	0.00067	"	"	"	"	"	B
Chrysene	0.00301	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00703	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000382	0.000286	0.00067	"	"	"	"	"	J

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 - UPRR 39 Pan Am G #1

WH-FS-01@6'

4/12/2022 8:23:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y204247-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.000754	0.000627	0.00067	mg/Kg	1	L611114	04/15/2022	04/18/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00624	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	43.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.8 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	49.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.03			pH Units	1	B2D1327	04/13/2022	04/14/2022	
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SAR by 20B Saturated Paste

SAR	4.14			SAR	1	B2D1318	04/13/2022	04/14/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.649		0.00500	mmhos/cm	1	B2D1323	04/13/2022	04/14/2022	
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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 - UPRR 39 Pan Am G #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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Batch B2D1328 - EPA 5030 (soil)

Blank (B2D1328-BLK1)

Prepared: 04/13/2022 Analyzed: 04/17/2022

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	0.0100	"							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	0.12		"	0.125	97.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.8		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B2D1328 - EPA 5030 (soil)

LCS (B2D1328-BS1)

Prepared: 04/13/2022 Analyzed: 04/17/2022

1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100		115	70-130			
1,3,5-Trimethylbenzene	0.120	0.00200	"	0.100		120	70-130			
Benzene	0.0956	0.00200	"	0.100		95.6	70-130			
Ethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Naphthalene	0.0946	0.0100	"	0.100		94.6	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B2D1328 - EPA 5030 (soil)

Matrix Spike (B2D1328-MS1)	Source: Y204237-01			Prepared: 04/13/2022 Analyzed: 04/17/2022						
1,2,4-Trimethylbenzene	0.0420	0.00200	mg/kg	0.100	ND	42.0	70-130			QM-07
1,3,5-Trimethylbenzene	0.0419	0.00200	"	0.100	ND	41.9	70-130			QM-07
Benzene	0.0839	0.00200	"	0.100	ND	83.9	70-130			
Ethylbenzene	0.0463	0.00200	"	0.100	ND	46.3	70-130			QM-07
Naphthalene	0.0514	0.0100	"	0.100	ND	51.4	70-130			QM-07
Toluene	0.0816	0.00200	"	0.100	ND	81.6	70-130			
o-Xylene	0.0645	0.00200	"	0.100	ND	64.5	70-130			QM-07
m,p-Xylene	0.125	0.00400	"	0.200	ND	62.5	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	70-130			

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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B2D1328 - EPA 5030 (soil)

Matrix Spike Dup (B2D1328-MSD1)	Source: Y204237-01			Prepared: 04/13/2022 Analyzed: 04/17/2022						
1,2,4-Trimethylbenzene	0.0673	0.00200	mg/kg	0.100	ND	67.3	70-130	46.4	20	QM-07
1,3,5-Trimethylbenzene	0.0681	0.00200	"	0.100	ND	68.1	70-130	47.6	20	QM-07
Benzene	0.0845	0.00200	"	0.100	ND	84.5	70-130	0.665	20	
Ethylbenzene	0.0765	0.00200	"	0.100	ND	76.5	70-130	49.1	20	QM-07
Naphthalene	0.0593	0.0100	"	0.100	ND	59.3	70-130	14.2	20	QM-07
Toluene	0.0819	0.00200	"	0.100	ND	81.9	70-130	0.392	20	
o-Xylene	0.0744	0.00200	"	0.100	ND	74.4	70-130	14.2	20	
m,p-Xylene	0.152	0.00400	"	0.200	ND	75.8	70-130	19.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		104	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.4	70-130			

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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 - UPRR 39 Pan Am G #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
Batch B2D1405 - EPA 3550B										
Blank (B2D1405-BLK1)										
					Prepared: 04/14/2022 Analyzed: 04/25/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		94.8	50-150			

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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 - UPRR 39 Pan Am G #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 B2D1405 - EPA 3550B

LCS (B2D1405-BS1)

Prepared: 04/14/2022 Analyzed: 04/25/2022

Diesel (C10-C28)	1220	50.0	mg/kg	1000		122	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000		113	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2D1405 - EPA 3550B

Matrix Spike (B2D1405-MS1)	Source: Y204237-01			Prepared: 04/14/2022 Analyzed: 04/25/2022						
Diesel (C10-C28)	1230	50.0	mg/kg	1000	ND	123	70-130			
Residual Range Organics (C28-C40)	1110	200	"	1000	ND	111	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.1	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: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2D1405 - EPA 3550B										
Matrix Spike Dup (B2D1405-MSD1)					Source: Y204237-01					Prepared: 04/14/2022 Analyzed: 04/25/2022
Diesel (C10-C28)	1230	50.0	mg/kg	1000	ND	123	70-130	0.626	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	3.17	35	
Surrogate: o-Terphenyl	48		"	49.8		97.0	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: [none]
 Project: Noble - UPRR 39 Pan Am G #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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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 B2D1323 - NO PREP

Blank (B2D1323-BLK1)

Prepared: 04/13/2022 Analyzed: 04/14/2022

Specific Conductance (EC) 0.000800 0.00500 mmhos/cm

Duplicate (B2D1323-DUP1)

Source: Y204235-02

Prepared: 04/13/2022 Analyzed: 04/14/2022

Specific Conductance (EC) 1.44 0.00500 mmhos/cm 1.28 11.7 25

Batch B2D1327 - NO PREP

Duplicate (B2D1327-DUP1)

Source: Y204235-02

Prepared: 04/13/2022 Analyzed: 04/14/2022

pH 7.73 pH Units 7.65 1.04 25

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611114 - 3550B

MS (L 97814-MS-L611114)	Source: 97814			Prepared: 04/15/2022 Analyzed: 04/18/2022						
Dibenz(a,h)anthracene	0.115	0.00307	mg/Kg	0.166	<0.00307	69.2	30-130			
Pyrene	0.106	0.00322	"	0.166	<0.00322	63.8	30-130			
Naphthalene	0.0902	0.00242	"	0.166	<0.00242	54.3	30-130			
Indeno(1,2,3-cd)pyrene	0.0977	0.00314	"	0.166	<0.00314	58.8	30-130			
Fluoranthene	0.106	0.00197	"	0.166	<0.00197	63.8	30-130			
Chrysene	0.11	0.00312	"	0.166	<0.00312	66.2	30-130			
2-Methylnaphthalene	0.0869	0.00323	"	0.166	<0.00323	52.3	30-130			
1-Methylnaphthalene	0.0934	0.00182	"	0.166	<0.00182	56.2	30-130			
Fluorene	0.102	0.00143	"	0.166	<0.00143	61.4	30-130			
Benzo(k)fluoranthene	0.101	0.00219	"	0.166	<0.00219	60.8	30-130			
Acenaphthene	0.0961	0.00152	"	0.166	<0.00152	57.8	30-130			
Anthracene	0.103	0.00167	"	0.166	<0.00167	62	30-130			
Benzo(a)anthracene	0.11	0.00247	"	0.166	<0.00247	66.2	30-130			
Benzo(a)pyrene	0.107	0.00234	"	0.166	<0.00234	64.4	30-130			
Benzo(b)fluoranthene	0.0858	0.00293	"	0.166	<0.00293	51.6	30-130			
Surrogate: Nitrobenzene-d5	50.6		"	0.332	180	50.6	29-110			
Surrogate: 2-Fluorobiphenyl	46.9		"	0.332	165	46.9	33-115			
Surrogate: 4-Terphenyl-d14	59.9		"	0.332	204	59.9	33-122			

LCS (LCS-L611114)	Prepared: 04/15/2022 Analyzed: 04/18/2022									
Benzo(a)pyrene	0.106	0.000468	mg/Kg	0.167		63.4	30-130			
Naphthalene	0.0879	0.000484	"	0.167		52.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0993	0.000627	"	0.167		59.4	30-130			
Fluorene	0.0977	0.000286	"	0.167		58.5	30-130			
Fluoranthene	0.101	0.000394	"	0.167		60.4	30-130			
Dibenz(a,h)anthracene	0.112	0.000614	"	0.167		67	30-130			
Pyrene	0.104	0.000643	"	0.167		62.2	30-130			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611114 - 3550B

LCS (LCS-L611114)

Prepared: 04/15/2022 Analyzed: 04/18/2022

1-Methylnaphthalene	0.0859	0.000364	mg/Kg	0.167		51.4	30-130			
Benzo(b)fluoranthene	0.0876	0.000585	"	0.167		52.4	30-130			
Benzo(a)anthracene	0.105	0.000493	"	0.167		62.8	30-130			
Anthracene	0.0973	0.000334	"	0.167		58.2	30-130			
Acenaphthene	0.0914	0.000304	"	0.167		54.7	30-130			
2-Methylnaphthalene	0.0861	0.000645	"	0.167		51.5	30-130			
Benzo(k)fluoranthene	0.0949	0.000437	"	0.167		56.8	30-130			
Chrysene	0.103	0.000624	"	0.167		61.6	30-130			

Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

LRB (LRB-L611114)

Prepared: 04/15/2022 Analyzed: 04/18/2022

Fluoranthene	ND	0.00067	mg/Kg				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	0.00104	0.00067	"				-			*
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	0.000665	0.00067	"				-			J
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L611114 - 3550B

LRB (LRB-L611114)

Prepared: 04/15/2022 Analyzed: 04/18/2022

Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
Surrogate: Nitrobenzene-d5	62.1		"	0.333	62.1		29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333	70.2		33-122			
Surrogate: 2-Fluorobiphenyl	54.9		"	0.333	54.9		33-115			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #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.

J Estimated Value. Analyte below reported quantitation limit.

B Analyte detected in associated method blank.

* 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.

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.

June 08, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRR 39 Pan Am G #1

Project Number - [none]

Attached are your analytical results for Noble - UPRR 39 Pan Am G #1 received by Origins Laboratory, Inc. May 18, 2022. This project is associated with Origins project number Y205462-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL-SS-10@4'	Y205462-01	Soil	May 17, 2022 14:02	05/18/2022 09:30
FL-SS-11@4'	Y205462-02	Soil	May 17, 2022 15:48	05/18/2022 09:30
FL-SS-14@3'	Y205462-03	Soil	May 17, 2022 17:06	05/18/2022 09:30

Chain of Custody Modification Request

On 5/25/2022, Andrew Newberry from Eagle Environmental contacted Jennifer Pellegrini via email regarding Y205462 requesting that 915 metals and Cr VI be added to FL-SS-14@3'.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 5/25/2022.

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 - UPRR 39 Pan Am G #1

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YZ0546Z
 page 1 of 1

ORIGINS
 LABORATORY, INC

Client: Eagle Environmental Consulting
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-4738-0479
 Email Address: m.c.eckert@eagle-enviro.com

Project Manager: Martin Eckert III
 Project Name: UPRR 39 Pan Am G #1
 Project Number:
 Samples Collected By: EA

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 ₃	Other	Groundwater	Soil	Air Summa #	Other	Gr. Extr. MB	Dro MB		Phos MB	Metals MB
EL-55-10@4	05-17-22	1402	2	X				X				X	X	X	EL-55R AH by 1	
EL-55-11@4	↓	1548	↓	↓				↓				↓	↓	↓	Substituted Plastic Pipe 2	
EL-55-11@5	↓	1706	↓	↓				↓				↓	↓	↓	3	
															4	
															5	
															6	
															7	
															8	
															9	
															10	
Relinquished By: Eric Hughes	Date: 05-18-2022	Time: 0930	Time: 0930	Received By: [Signature]	Date: 5/18/22	Time: 970	Date: 5/18/22	Time: 970	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard							
Relinquished By:	Date:	Time:	Time:	Received By:	Date:	Time:	Date:	Time:								

Temp Received: 0.3
 Date Results Needed: Noble
 (B) to Cole

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 - UPRR 39 Pan Am G #1

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

Sample Receipt Checklist

Origins Work Order: Y20546C Client: Eagle
 Client Project ID: UPRR 39 Pan Am G #1

Checklist Completed by: MS Shipped Via: HD
 Date/time completed: 5/18/22 1149 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: NA

Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 1 0-3 °C / _____ °C / _____ °C / _____ °C (Describe)
 Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 5/19 1313

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-10@4'

5/17/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.661		0.100	mg/L	1	B2E1910	05/19/2022	05/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1801	05/18/2022	05/19/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1802	05/18/2022	05/18/2022	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	121 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-10@4'

5/17/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B2E18 02	05/18/2022	05/18/2022	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.51		0.499	meq/L	10	[CALC]	05/18/2022	05/19/2022	
Magnesium	0.922		0.823	"	"	"	"	"	
Sodium	6.73		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
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	0.000996	0.000394	0.00067	"	"	"	"	"	

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 - UPRR 39 Pan Am G #1

FL-SS-10@4'

5/17/2022 2:02:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205462-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.000847	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	67.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	86 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.42			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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SAR by 20B Saturated Paste

SAR	6.11			SAR	1	B2E1813	05/18/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.21		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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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 - UPRR 39 Pan Am G #1

FL-SS-11@4'
5/17/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.704		0.100	mg/L	1	B2E1910	05/19/2022	05/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1801	05/18/2022	05/19/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

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

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1802	05/18/2022	05/18/2022	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	118 %		70-130			"	"	"	
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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 - UPRR 39 Pan Am G #1

FL-SS-11@4'
5/17/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	103 %		70-130			B2E18 02	05/18/2022	05/18/2022	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.56		0.499	meq/L	10	[CALC]	05/18/2022	05/19/2022	
Magnesium	1.07		0.823	"	"	"	"	"	
Sodium	7.39		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000361	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.000913	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000476	0.000468	0.00067	"	"	"	"	"	J
Benzo(b)fluoranthene	0.00295	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.000687	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.0012	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00384	0.000394	0.00067	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	

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 - UPRR 39 Pan Am G #1

FL-SS-11@4'

5/17/2022 3:48:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205462-02 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.00186	0.000627	0.00067	mg/Kg	1	L617550	05/23/2022	05/24/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.00315	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	84.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	58.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.51			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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SAR by 20B Saturated Paste

SAR	6.44			SAR	1	B2E1813	05/18/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.36		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-14@3'

5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-03 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2E1910	05/19/2022	05/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2E1801	05/18/2022	05/19/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	98.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2E1802	05/18/2022	05/18/2022	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	120 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

FL-SS-14@3'

5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y205462-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.1 %		70-130			B2E18 02	05/18/2022	05/18/2022	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.40		0.499	meq/L	10	[CALC]	05/18/2022	05/19/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.857		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	0.00687	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.0224	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.127	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.0313	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.154	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.0497	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.119	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.471	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00652	0.000286	0.00067	"	"	"	"	"	

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 - UPRR 39 Pan Am G #1

FL-SS-14@3'

5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, Inc.
Y205462-03 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	0.135	0.000627	0.00067	mg/Kg	1	L617551	05/23/2022	05/24/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	0.361	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	68.9 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	99.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	56.9 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.18			pH Units	1	B2E1710	05/17/2022	05/19/2022	
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SAR by 20B Saturated Paste

SAR	0.901			SAR	1	B2E1813	05/18/2022	05/19/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.346		0.00500	mmhos/cm	1	B2E1710	05/17/2022	05/19/2022	
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Total Metals by 6020B

Arsenic	1.05	0.0855	0.25	mg/Kg	5	L619313	06/01/2022	06/03/2022	
Barium	35.2	0.042	0.25	"	"	"	"	"	

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 - UPRR 39 Pan Am G #1

FL-SS-14@3'

5/17/2022 5:06:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y205462-03 (Soil)

Total Metals by 6020B

Cadmium	0.08	0.0259	0.25	mg/Kg	5	L619313	06/01/2022	06/03/2022	J
Copper	3.42	0.0806	0.25	"	"	"	"	"	
Lead	3.62	0.031	0.25	"	"	"	"	"	
Nickel	3.35	0.0633	0.25	"	"	"	"	"	
Selenium	0.36	0.103	0.25	"	"	"	"	"	
Silver	0.0152	0.0067	0.25	"	"	"	"	"	J
Zinc	15.9	0.534	2.5	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L619726	05/17/2022	06/03/2022	
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2E1801 - EPA 3580										
Blank (B2E1801-BLK1)										
					Prepared: 05/18/2022 Analyzed: 05/19/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	25		"	24.9		99.1	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2E1801 - EPA 3580

LCS (B2E1801-BS1)

Prepared: 05/18/2022 Analyzed: 05/19/2022

Diesel (C10-C28)	987	50.0	mg/kg	1000		98.7	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2E1801 - EPA 3580

Matrix Spike (B2E1801-MS1)	Source: Y205434-01			Prepared: 05/18/2022 Analyzed: 05/19/2022						
Diesel (C10-C28)	977	50.0	mg/kg	1000	ND	97.7	70-130			
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130			
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2E1801 - EPA 3580										
Matrix Spike Dup (B2E1801-MSD1)		Source: Y205434-01			Prepared: 05/18/2022 Analyzed: 05/19/2022					
Diesel (C10-C28)	1020	50.0	mg/kg	1000	ND	102	70-130	4.63	35	
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130	0.462	35	
Surrogate: o-Terphenyl	47		"	49.8		93.7	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B2E1802 - EPA 5030 (soil)

Blank (B2E1802-BLK1)

Prepared: 05/18/2022 Analyzed: 05/18/2022

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	0.0100	"							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	114		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	100		70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B2E1802 - EPA 5030 (soil)

LCS (B2E1802-BS1)

Prepared: 05/18/2022 Analyzed: 05/18/2022

1,2,4-Trimethylbenzene	0.0992	0.00200	mg/kg	0.100		99.2	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.101	0.0100	"	0.100		101	70-130			
Toluene	0.110	0.00200	"	0.100		110	70-130			
o-Xylene	0.101	0.00200	"	0.100		101	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		99.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B2E1802 - EPA 5030 (soil)

Matrix Spike (B2E1802-MS1)	Source: Y205446-01			Prepared: 05/18/2022 Analyzed: 05/18/2022						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	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	0.106	0.00200	"	0.100	ND	106	70-130			
Naphthalene	0.0981	0.0100	"	0.100	ND	98.1	70-130			
Toluene	0.111	0.00200	"	0.100	ND	111	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.209	0.00400	"	0.200	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		115	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	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 - UPRR 39 Pan Am G #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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Batch B2E1802 - EPA 5030 (soil)

Matrix Spike Dup (B2E1802-MSD1)	Source: Y205446-01			Prepared: 05/18/2022 Analyzed: 05/18/2022						
1,2,4-Trimethylbenzene	0.0947	0.00200	mg/kg	0.100	ND	94.7	70-130	6.57	20	
1,3,5-Trimethylbenzene	0.0967	0.00200	"	0.100	ND	96.7	70-130	6.41	20	
Benzene	0.0983	0.00200	"	0.100	ND	98.3	70-130	0.669	20	
Ethylbenzene	0.0933	0.00200	"	0.100	ND	93.3	70-130	12.8	20	
Naphthalene	0.0955	0.0100	"	0.100	ND	95.5	70-130	2.64	20	
Toluene	0.106	0.00200	"	0.100	ND	106	70-130	4.31	20	
o-Xylene	0.0961	0.00200	"	0.100	ND	96.1	70-130	8.53	20	
m,p-Xylene	0.186	0.00400	"	0.200	ND	92.8	70-130	12.1	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.7	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 - UPRR 39 Pan Am G #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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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 B2E1710 - NO PREP

Blank (B2E1710-BLK1)

Prepared: 05/17/2022 Analyzed: 05/19/2022

Specific Conductance (EC)	0.00100	0.00500	mmhos/cm
pH	0.00		pH Units

Duplicate (B2E1710-DUP1)

Source: Y205046-03

Prepared: 05/17/2022 Analyzed: 05/19/2022

pH	8.44		pH Units	8.46		0.237	25
Specific Conductance (EC)	0.275	0.00500	mmhos/cm	0.299		8.28	25

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 - UPRR 39 Pan Am G #1

Total Metals by 6020B - 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 L619313 - 3050B

MSD (L 99705-MSD-L619313)		Source: 99705			Prepared: 06/01/2022 Analyzed: 06/03/2022					
Nickel	4.12	0.0633	mg/Kg	2.44	1.87	92	75-125	2.4	80	
Copper	4.32	0.0806	"	2.44	2.32	82	75-125	1.6	80	
Zinc	31.8	0.534	"	24.4	9.72	90	75-125	3.8	80	
Selenium	4.55	0.103	"	4.89	0.25	88	75-125	5.4	80	
Lead	5.58	0.031	"	2.44	2.48	127	75-125	17.7	80	*
Barium	68.9	0.171	"	4.89	147	NR	75-125	10.9	80	*
Silver	0.475	0.0067	"	0.489	<0.0067	97	75-125	6.5	80	
Cadmium	0.478	0.0259	"	0.489	0.0378	90	75-125	3.8	80	
Arsenic	3.32	0.0855	"	2.44	1.11	90	75-125	3.9	80	

MS (L 99705-MS-L619313)		Source: 99705			Prepared: 06/01/2022 Analyzed: 06/03/2022					
Cadmium	0.46	0.0259	mg/Kg	0.484	0.0378	87	75-125			
Silver	0.445	0.0067	"	0.484	<0.0067	92	75-125			
Selenium	4.31	0.103	"	4.84	0.25	84	75-125			
Nickel	4.02	0.0633	"	2.42	1.87	89	75-125			
Copper	4.39	0.0806	"	2.42	2.32	86	75-125			
Zinc	30.6	0.534	"	24.2	9.72	86	75-125			
Barium	76.9	0.171	"	4.84	147	NR	75-125			*
Arsenic	3.19	0.0855	"	2.42	1.11	86	75-125			
Lead	4.67	0.031	"	2.42	2.48	91	75-125			

LCS (LCS-L619313)		Prepared: 06/01/2022 Analyzed: 06/03/2022								
Copper	2.26	0.0806	mg/Kg	2.5		90	80-120			
Selenium	4.6	0.103	"	5		92	80-120			
Silver	0.473	0.0067	"	0.5		95	80-120			
Nickel	2.37	0.0633	"	2.5		95	80-120			
Zinc	23	0.534	"	25		92	80-120			

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 - UPRR 39 Pan Am G #1

Total Metals by 6020B - 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 L619313 - 3050B

LCS (LCS-L619313)

Prepared: 06/01/2022 Analyzed: 06/03/2022

Lead	2.29	0.031	mg/Kg	2.5		92	80-120			
Cadmium	0.442	0.0259	"	0.5		88	80-120			
Barium	4.82	0.042	"	5		96	80-120			
Arsenic	2.39	0.0855	"	2.5		96	80-120			

LRB (LRB-L619313)

Prepared: 06/01/2022 Analyzed: 06/03/2022

Lead	0.0483	0.25	mg/Kg				-			J
Zinc	ND	2.5	"				-			
Silver	ND	0.25	"				-			
Nickel	ND	0.25	"				-			
Arsenic	ND	0.25	"				-			
Barium	ND	0.25	"				-			
Cadmium	ND	0.25	"				-			
Copper	ND	0.25	"				-			
Selenium	ND	0.25	"				-			

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 - UPRR 39 Pan Am G #1

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L619726 -										
DUP (L 95064-DUP)		Source: Y205462-03			Prepared: Analyzed: 06/03/2022					
Chromium, Hexavalent	ND	0.244	mg/Kg		<0.500		-	0	20	
MS (L 95064-MS)		Source: Y205462-03			Prepared: Analyzed: 06/03/2022					
Chromium, Hexavalent	6.82	0.251	mg/Kg	8.25	<0.251	83	75-125			
LCS (LCS)		Prepared: Analyzed: 06/03/2022								
Chromium, Hexavalent	6.5	0.244	mg/Kg	8		81	75-125			
LRB (LRB)		Prepared: Analyzed: 06/03/2022								
Chromium, Hexavalent	ND	0.525	mg/Kg				-			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617550 - 3550B

MSD (L 93422-MSD-L617550)	Source: 93422		Prepared: 05/23/2022 Analyzed: 05/24/2022							
Benzo(b)fluoranthene	0.113	0.000585	mg/Kg	0.166	<0.000585	68	30-130	0.8	30	
Pyrene	0.135	0.000643	"	0.166	<0.000643	81.3	30-130	0	30	
Naphthalene	0.0971	0.000484	"	0.166	<0.000484	58.4	30-130	0.4	30	
Indeno(1,2,3-cd)pyrene	0.173	0.000627	"	0.166	<0.000627	104	30-130	21.7	30	
Fluorene	0.113	0.000286	"	0.166	<0.000286	68	30-130	0.8	30	
Fluoranthene	0.136	0.000394	"	0.166	<0.000394	81.9	30-130	0.7	30	
Dibenz(a,h)anthracene	0.149	0.000614	"	0.166	<0.000614	89.7	30-130	12.8	30	
Benzo(k)fluoranthene	0.107	0.000437	"	0.166	<0.000437	64.4	30-130	8.5	30	
Benzo(a)pyrene	0.118	0.000468	"	0.166	<0.000468	71	30-130	1.7	30	
Benzo(a)anthracene	0.118	0.000493	"	0.166	<0.000493	71	30-130	4.3	30	
Anthracene	0.127	0.000334	"	0.166	<0.000334	76.5	30-130	0	30	
Acenaphthene	0.118	0.000304	"	0.166	<0.000304	71	30-130	0.8	30	
2-Methylnaphthalene	0.0916	0.000645	"	0.166	<0.000645	55.1	30-130	0.4	30	
1-Methylnaphthalene	0.0994	0.000364	"	0.166	<0.000364	59.8	30-130	0	30	
Chrysene	0.103	0.000624	"	0.166	<0.000624	62	30-130	3.8	30	
<i>Surrogate: Nitrobenzene-d5</i>	57.5		"	0.332	175	57.5	29-110			
<i>Surrogate: 4-Terphenyl-d14</i>	88.2		"	0.332	270	88.2	33-122			
<i>Surrogate: 2-Fluorobiphenyl</i>	62.6		"	0.332	199	62.6	33-115			

MS (L 93422-MS-L617550)	Source: 93422		Prepared: 05/23/2022 Analyzed: 05/24/2022							
1-Methylnaphthalene	0.0994	0.000364	mg/Kg	0.166	<0.000364	59.8	30-130			
Acenaphthene	0.119	0.000304	"	0.166	<0.000304	71.6	30-130			
Indeno(1,2,3-cd)pyrene	0.139	0.000627	"	0.166	<0.000627	83.7	30-130			
2-Methylnaphthalene	0.0912	0.000645	"	0.166	<0.000645	54.9	30-130			
Pyrene	0.135	0.000643	"	0.166	<0.000643	81.3	30-130			
Naphthalene	0.0975	0.000484	"	0.166	<0.000484	58.7	30-130			
Fluorene	0.114	0.000286	"	0.166	<0.000286	68.6	30-130			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617550 - 3550B

MS (L 93422-MS-L617550)	Source: 93422			Prepared: 05/23/2022 Analyzed: 05/24/2022						
Fluoranthene	0.137	0.000394	mg/Kg	0.166	<0.000394	82.5	30-130			
Dibenz(a,h)anthracene	0.131	0.000614	"	0.166	<0.000614	78.9	30-130			
Chrysene	0.107	0.000624	"	0.166	<0.000624	64.4	30-130			
Benzo(k)fluoranthene	0.0982	0.000437	"	0.166	<0.000437	59.1	30-130			
Benzo(b)fluoranthene	0.114	0.000585	"	0.166	<0.000585	68.6	30-130			
Benzo(a)pyrene	0.116	0.000468	"	0.166	<0.000468	69.8	30-130			
Benzo(a)anthracene	0.113	0.000493	"	0.166	<0.000493	68	30-130			
Anthracene	0.127	0.000334	"	0.166	<0.000334	76.5	30-130			
Surrogate: 4-Terphenyl-d14	89.1		"	0.331	270	89.1	33-122			
Surrogate: 2-Fluorobiphenyl	63.1		"	0.331	199	63.1	33-115			
Surrogate: Nitrobenzene-d5	58		"	0.331	175	58	29-110			

LCS (LCS-L617550)	Prepared: 05/23/2022 Analyzed: 05/24/2022									
Pyrene	0.149	0.000643	mg/Kg	0.167		89.2	30-130			
Benzo(a)pyrene	0.128	0.000468	"	0.167		76.6	30-130			
2-Methylnaphthalene	0.105	0.000645	"	0.167		62.8	30-130			
Acenaphthene	0.134	0.000304	"	0.167		80.2	30-130			
Anthracene	0.144	0.000334	"	0.167		86.2	30-130			
Benzo(a)anthracene	0.131	0.000493	"	0.167		78.4	30-130			
Benzo(b)fluoranthene	0.122	0.000585	"	0.167		73	30-130			
Benzo(k)fluoranthene	0.118	0.000437	"	0.167		70.6	30-130			
Dibenz(a,h)anthracene	0.152	0.000614	"	0.167		91	30-130			
Fluorene	0.129	0.000286	"	0.167		77.2	30-130			
Indeno(1,2,3-cd)pyrene	0.168	0.000627	"	0.167		101	30-130			
1-Methylnaphthalene	0.114	0.000364	"	0.167		68.2	30-130			
Chrysene	0.111	0.000624	"	0.167		66.4	30-130			
Naphthalene	0.111	0.000484	"	0.167		66.4	30-130			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617550 - 3550B

LCS (LCS-L617550)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Fluoranthene	0.151	0.000394	mg/Kg	0.167		90.4	30-130			
Surrogate: 2-Fluorobiphenyl	80.7		"	0.333		80.7	33-115			
Surrogate: 4-Terphenyl-d14	106		"	0.333		106	33-122			
Surrogate: Nitrobenzene-d5	67.2		"	0.333		67.2	29-110			

LRB (LRB-L617550)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Dibenz(a,h)anthracene	ND	0.00067	mg/Kg				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	66.3		"	0.333		66.3	29-110			
Surrogate: 2-Fluorobiphenyl	84		"	0.333		84	33-115			
Surrogate: 4-Terphenyl-d14	93.9		"	0.333		93.9	33-122			

Batch L617551 - 3550B

MSD (L 95740-MSD-L617551)

Source: 95740

Prepared: 05/23/2022 Analyzed: 05/24/2022

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617551 - 3550B

MSD (L 95740-MSD-L617551)		Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022					
Benzo(a)anthracene	0.11	0.000493	mg/Kg	0.163	<0.000493	67.4	30-130	16.6	30	
Anthracene	0.117	0.000334	"	0.163	<0.000334	71.7	30-130	14.2	30	
Acenaphthene	0.113	0.000304	"	0.163	<0.000304	69.3	30-130	9.2	30	
2-Methylnaphthalene	0.0874	0.000645	"	0.163	<0.000645	53.6	30-130	9.6	30	
1-Methylnaphthalene	0.0955	0.000364	"	0.163	<0.000364	58.5	30-130	9.4	30	
Benzo(b)fluoranthene	0.0947	0.000585	"	0.163	<0.000585	58	30-130	17.6	30	
Pyrene	0.124	0.000643	"	0.163	<0.000643	76	30-130	14.2	30	
Benzo(k)fluoranthene	0.0872	0.000437	"	0.163	<0.000437	53.4	30-130	20.3	30	
Chrysene	0.0981	0.000624	"	0.163	<0.000624	60.1	30-130	14.9	30	
Dibenz(a,h)anthracene	0.104	0.000614	"	0.163	<0.000614	63.8	30-130	34.2	30	
Fluoranthene	0.128	0.000394	"	0.163	0.000736	78	30-130	13.1	30	
Fluorene	0.108	0.000286	"	0.163	<0.000286	66.2	30-130	10.5	30	
Indeno(1,2,3-cd)pyrene	0.0972	0.000627	"	0.163	<0.000627	59.6	30-130	48.2	30	
Naphthalene	0.0916	0.000484	"	0.163	<0.000484	56.1	30-130	11.7	30	
Benzo(a)pyrene	0.109	0.000468	"	0.163	<0.000468	66.8	30-130	15.2	30	
Surrogate: 4-Terphenyl-d14	82.5		"	0.326	269	82.5	33-122			
Surrogate: 2-Fluorobiphenyl	62.8		"	0.326	213	62.8	33-115			
Surrogate: Nitrobenzene-d5	54.6		"	0.326	223	54.6	29-110			

MS (L 95740-MS-L617551)		Source: 95740			Prepared: 05/23/2022 Analyzed: 05/24/2022					
Benzo(a)anthracene	0.13	0.000493	mg/Kg	0.164	<0.000493	79.2	30-130			
Anthracene	0.135	0.000334	"	0.164	<0.000334	82.3	30-130			
Acenaphthene	0.124	0.000304	"	0.164	<0.000304	75.6	30-130			
2-Methylnaphthalene	0.0963	0.000645	"	0.164	<0.000645	58.7	30-130			
Benzo(a)pyrene	0.127	0.000468	"	0.164	<0.000468	77.4	30-130			
1-Methylnaphthalene	0.105	0.000364	"	0.164	<0.000364	64	30-130			
Fluorene	0.12	0.000286	"	0.164	<0.000286	73.1	30-130			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617551 - 3550B

MS (L 95740-MS-L617551)	Source: 95740		Prepared: 05/23/2022 Analyzed: 05/24/2022							
Benzo(b)fluoranthene	0.113	0.000585	mg/Kg	0.164	<0.000585	68.9	30-130			
Benzo(k)fluoranthene	0.107	0.000437	"	0.164	<0.000437	65.2	30-130			
Chrysene	0.114	0.000624	"	0.164	<0.000624	69.5	30-130			
Fluoranthene	0.146	0.000394	"	0.164	0.000736	88.5	30-130			
Indeno(1,2,3-cd)pyrene	0.159	0.000627	"	0.164	<0.000627	96.9	30-130			
Naphthalene	0.103	0.000484	"	0.164	<0.000484	62.8	30-130			
Pyrene	0.143	0.000643	"	0.164	<0.000643	87.1	30-130			
Dibenz(a,h)anthracene	0.147	0.000614	"	0.164	<0.000614	89.6	30-130			
Surrogate: 4-Terphenyl-d14	97.5		"	0.328	269	97.5	33-122			
Surrogate: 2-Fluorobiphenyl	70.1		"	0.328	213	70.1	33-115			
Surrogate: Nitrobenzene-d5	64.6		"	0.328	223	64.6	29-110			

LCS (LCS-L617551)	Prepared: 05/23/2022 Analyzed: 05/24/2022									
Benzo(a)pyrene	0.115	0.000468	mg/Kg	0.167		68.8	30-130			
Benzo(k)fluoranthene	0.105	0.000437	"	0.167		62.8	30-130			
Pyrene	0.139	0.000643	"	0.167		83.2	30-130			
1-Methylnaphthalene	0.104	0.000364	"	0.167		62.2	30-130			
2-Methylnaphthalene	0.0954	0.000645	"	0.167		57.1	30-130			
Acenaphthene	0.125	0.000304	"	0.167		74.8	30-130			
Anthracene	0.13	0.000334	"	0.167		77.8	30-130			
Benzo(a)anthracene	0.117	0.000493	"	0.167		70	30-130			
Naphthalene	0.1	0.000484	"	0.167		59.8	30-130			
Benzo(b)fluoranthene	0.0999	0.000585	"	0.167		59.8	30-130			
Indeno(1,2,3-cd)pyrene	0.115	0.000627	"	0.167		68.8	30-130			
Fluorene	0.12	0.000286	"	0.167		71.8	30-130			
Fluoranthene	0.14	0.000394	"	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.107	0.000614	"	0.167		64	30-130			

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 - UPRR 39 Pan Am G #1

PAH by 8270D SIM - Quality Control
Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617551 - 3550B

LCS (LCS-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Chrysene	0.111	0.000624	mg/Kg	0.167		66.4	30-130			
Surrogate: 4-Terphenyl-d14	99.6		"	0.333		99.6	33-122			
Surrogate: 2-Fluorobiphenyl	79.8		"	0.333		79.8	33-115			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			

LRB (LRB-L617551)

Prepared: 05/23/2022 Analyzed: 05/24/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	57		"	0.333		57	29-110			
Surrogate: 4-Terphenyl-d14	81.3		"	0.333		81.3	33-122			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.333		66.9	33-115			

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 - UPRR 39 Pan Am G #1

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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.



July 05, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRR 39 Pan Am G #1

Project Number - [none]

Attached are your analytical results for Noble - UPRR 39 Pan Am G #1 received by Origins Laboratory, Inc. June 24, 2022. This project is associated with Origins project number Y206632-01.

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 - UPRR 39 Pan Am G #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@4'	Y206632-01	Soil	May 17, 2022 14:21	06/24/2022 14:18

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 - UPRR 39 Pan Am G #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y2506032 Client: Eagle/Noble
 Client Project ID: UPRR 39

Checklist Completed by: JB Shipped Via: HD
 Date/time completed: 6-28-12 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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


Cooler Number/Temperature: 145 °C / °C / °C (Describe)

Thermometer ID: T063

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

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

Reviewed by (Project Manager) JB Date/Time Reviewed 6/28/12

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 - UPRR 39 Pan Am G #1

Background-01@4'
5/17/2022 2:21:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y206632-01 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	0.954	0.499	meq/L	10	[CALC]	KAP	06/28/2022	06/29/2022	
Magnesium	ND	0.823	"	"	"	KAP	"	"	
Sodium	5.19	0.435	"	"	"	KAP	"	"	

pH in Soil by 9045D

pH	8.33		pH Units	1	B2F2812	ACC	06/28/2022	06/29/2022	
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SAR by 20B Saturated Paste

SAR	5.97		SAR	1	B2F2807	KAP	06/28/2022	06/29/2022	
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Table 915 metals by EPA 6020B

Arsenic	2.31	0.00100	mg/kg	1	B2F2724	CIH	06/27/2022	06/27/2022	
Selenium	0.0778	0.00100	"	"	"	CIH	"	"	

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 - UPRR 39 Pan Am G #1

Metals by SM 3500 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2724 - Default Prep Metals

Blank (B2F2724-BLK1)

Prepared: 06/27/2022 Analyzed: 06/27/2022

Arsenic	ND	0.00100	mg/kg							
Barium	ND	0.0100	"							
Cadmium	ND	0.00100	"							
Copper	ND	0.0100	"							
Lead	ND	0.00100	"							
Nickel	ND	0.00100	"							
Selenium	ND	0.00100	"							
Silver	ND	0.00100	"							
Zinc	ND	0.0100	"							

LCS (B2F2724-BS1)

Prepared: 06/27/2022 Analyzed: 06/27/2022

Arsenic	0.0472	0.00100	mg/kg	0.0500		94.3	80-120			
Barium	4.92	0.0100	"	5.00		98.5	80-120			
Cadmium	0.0503	0.00100	"	0.0500		101	80-120			
Copper	0.472	0.0100	"	0.500		94.5	80-120			
Lead	0.0493	0.00100	"	0.0500		98.6	80-120			
Nickel	0.0463	0.00100	"	0.0500		92.6	80-120			
Selenium	0.0490	0.00100	"	0.0500		97.9	80-120			
Silver	0.0516	0.00100	"	0.0500		103	80-120			
Zinc	0.475	0.0100	"	0.500		95.1	80-120			

Matrix Spike (B2F2724-MS1)

Source: Y206630-10

Prepared: 06/27/2022 Analyzed: 06/27/2022

Arsenic	6.44	0.00100	mg/kg	5.21	5.56	16.9	75-125			QM-07
Barium	565	0.0100	"	521	64.6	96.0	75-125			
Cadmium	5.03	0.00100	"	5.21	0.0879	95.0	75-125			
Copper	54.1	0.0100	"	52.1	5.40	93.5	75-125			
Lead	7.82	0.00100	"	5.21	3.86	76.0	75-125			

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 - UPRR 39 Pan Am G #1

Metals by SM 3500 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2F2724 - Default Prep Metals

Matrix Spike (B2F2724-MS1)		Source: Y206630-10			Prepared: 06/27/2022 Analyzed: 06/27/2022					
Nickel	7.79	0.00100	mg/kg	5.21	4.78	57.9	75-125			QM-07
Selenium	5.53	0.00100	"	5.21	0.166	103	75-125			
Silver	5.38	0.00100	"	5.21	0.0168	103	75-125			
Zinc	47.6	0.0100	"	52.1	13.2	66.0	75-125			QM-07
Matrix Spike Dup (B2F2724-MSD1)		Source: Y206630-10			Prepared: 06/27/2022 Analyzed: 06/27/2022					
Arsenic	6.00	0.00100	mg/kg	4.84	5.56	9.23	75-125	6.96	20	QM-07
Barium	537	0.0100	"	484	64.6	97.6	75-125	4.96	20	
Cadmium	4.77	0.00100	"	4.84	0.0879	96.6	75-125	5.44	20	
Copper	51.3	0.0100	"	48.4	5.40	94.7	75-125	5.36	20	
Lead	7.58	0.00100	"	4.84	3.86	76.8	75-125	3.10	20	
Nickel	7.86	0.00100	"	4.84	4.78	63.7	75-125	0.919	20	QM-07
Selenium	4.72	0.00100	"	4.84	0.166	94.1	75-125	15.8	20	
Silver	4.94	0.00100	"	4.84	0.0168	102	75-125	8.42	20	
Zinc	47.2	0.0100	"	48.4	13.2	70.1	75-125	0.907	20	QM-07

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2F2812 - NO PREP										
Blank (B2F2812-BLK1)					Prepared: 06/28/2022 Analyzed: 06/29/2022					
pH	0.00		pH Units							
Duplicate (B2F2812-DUP1)					Source: Y206630-07 Prepared: 06/28/2022 Analyzed: 06/29/2022					
pH	8.10		pH Units		8.13			0.370	25	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - UPRR 39 Pan Am G #1

Notes and Definitions

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.

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.



March 27, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - UPRR 39 Pan Am G #1

Project Number - [none]

Attached are your analytical results for Noble - UPRR 39 Pan Am G #1 received by Origins Laboratory, Inc. March 20, 2023. This project is associated with Origins project number Y303469-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-02@3'	Y303469-01	Soil	March 20, 2023 10:12	03/20/2023 12:24
EX-SS-03@3'	Y303469-02	Soil	March 20, 2023 10:13	03/20/2023 12:24
EX-SS-04@3'	Y303469-03	Soil	March 20, 2023 10:14	03/20/2023 12:24
EX-SS-05@3'	Y303469-04	Soil	March 20, 2023 10:25	03/20/2023 12:24
EX-FS-01@4'	Y303469-05	Soil	March 20, 2023 10:15	03/20/2023 12:24

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

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

ORIGINS
LABORATORY, INC

1303HQ

www.originslaboratory.com

page 1 of 1

Client: EAGLE ENVIRONMENTAL CONSULTING
 Address: 8000 W 44TH AVE
WHEAT RIDGE, CO 80033
 Telephone Number: 303-433-0479
 Email Address: MCE@EAGLE-ENVIRO.COM
 Project Manager: MARTIN ECKERT III
 Project Name: UPRR 39 PAN AM G #1
 Project Number: -
 Samples Collected By: CT

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix		Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
EX-SS-02@3'	03/20/23	1012	2	X					X	0.81EX, TM, B, S, Waph 0.2600 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100 0.0100	
EX-SS-03@3'		1013	1						X		
EX-SS-04@3'		1014	1						X		
EX-SS-05@3'		1025	1						X		
EX-PS-01@4'		1015	1						X		

Relinquished By: [Signature] Date: 03/20/23 Time: 1224
 Received By: [Signature] Date: 3/20/23 Time: 1224
 Turnaround Time: Same Day 24 Hr 48 Hr 72 Hr Standard

Bill to DAN

Temp Received: 5

Date Results Needed

Noble

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4303469

Client: Eagle

Client/Project ID: UPRR 39 Pan Am G #1

Checklist Completed by: EHS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 3/20/23

Airbill #: NA

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

Cooler Number/Temperature: 115.0 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

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

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

[Signature]
 Reviewed by (Project Manager)

3/20/23
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-02@3'

3/20/2023 10:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	89.8 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-02@3'

3/20/2023 10:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303469-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000522	0.000468	0.00067	"	"	"	"	"	J
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	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
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	49.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	64.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	52.3 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #1

EX-SS-02@3'

3/20/2023 10:12:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-01 (Soil)

Table 915 metals by EPA 6020B

Selenium	0.0918		0.0858	mg/kg	10	B3C2020	03/20/2023	03/20/2023	
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-03@3'

3/20/2023 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	88.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-03@3'

3/20/2023 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303469-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000551	0.000468	0.00067	"	"	"	"	"	J
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	"	"	"	"	"	
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
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	52.6 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	62.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	53.2 %		29-110			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-03@3'

3/20/2023 10:13:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-02 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND		0.0882	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-04@3'

3/20/2023 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	94.7 %		70-130			"	"	"	
Surrogate: Toluene-d8	97.8 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-04@3'

3/20/2023 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303469-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.000747	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	0.000569	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
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	53.7 %		33-115		"	"	"	"	
Surrogate: 4-Terphenyl-d14	59.8 %		33-122		"	"	"	"	
Surrogate: Nitrobenzene-d5	53.7 %		29-110		"	"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #1

EX-SS-04@3'

3/20/2023 10:14:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-03 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND		0.0925	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-05@3'

3/20/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	87.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	95.1 %		70-130			"	"	"	
Surrogate: Toluene-d8	98.7 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-SS-05@3'

3/20/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303469-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	0.00113	0.00109	0.00201	mg/Kg	1	L671519	03/23/2023	03/23/2023	J
2-Methylnaphthalene	0.00316	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	0.00147	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00211	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00176	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00141	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00229	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.0044	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00044	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	0.00123	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	0.00372	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.9 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	51.8 %	29-110	"	"	"

Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #1

EX-SS-05@3'

3/20/2023 10:25:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-04 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND		0.0950	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-FS-01@4'

3/20/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-05 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3C2022	03/20/2023	03/20/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	86.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3C2023	03/20/2023	03/21/2023	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Naphthalene	ND		0.00380	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	0.499		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	94.0 %		70-130			"	"	"	
Surrogate: Toluene-d8	99.0 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %		70-130			"	"	"	

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-FS-01@4'

3/20/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y303469-05 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L671519	03/23/2023	03/23/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"	
Anthracene	ND	0.00167	0.00335	"	"	"	"	"	
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	ND	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	ND	0.00143	0.00335	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	ND	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	69.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	75 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	64.5 %	29-110	"	"	"

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

EX-FS-01@4'

3/20/2023 10:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y303469-05 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND		0.0937	mg/kg	10	B3C2020	03/20/2023	03/20/2023	U
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Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B3C2022 - EPA 3580										
Blank (B3C2022-BLK1)										
					Prepared: 03/20/2023 Analyzed: 03/20/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		93.9	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B3C2022 - EPA 3580

LCS (B3C2022-BS1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

Diesel (C10-C28)	919	50.0	mg/kg	1000		91.9	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	48		"	49.8		96.5	50-150			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B3C2022 - EPA 3580

Matrix Spike (B3C2022-MS1)	Source: Y303470-01			Prepared: 03/20/2023 Analyzed: 03/20/2023						
Diesel (C10-C28)	1040	50.0	mg/kg	1000	ND	104	70-130			
Residual Range Organics (C28-C40)	982	200	"	1000	ND	98.2	70-130			
Surrogate: o-Terphenyl	44		"	49.8		87.7	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B3C2022 - EPA 3580

Matrix Spike Dup (B3C2022-MSD1)	Source: Y303470-01			Prepared: 03/20/2023 Analyzed: 03/20/2023						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130	15.1	35	
Residual Range Organics (C28-C40)	980	200	"	1000	ND	98.0	70-130	0.186	35	
Surrogate: o-Terphenyl	42		"	49.8		84.6	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 B3C2023 - EPA 5030 (soil)

Blank (B3C2023-BLK1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.0		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B3C2023 - EPA 5030 (soil)

LCS (B3C2023-BS1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

1,2,4-Trimethylbenzene	0.0842	0.00200	mg/kg	0.100		84.2	70-130			
1,3,5-Trimethylbenzene	0.0851	0.00200	"	0.100		85.1	70-130			
Benzene	0.109	0.00200	"	0.100		109	70-130			
Ethylbenzene	0.0972	0.00200	"	0.100		97.2	70-130			
Naphthalene	0.0881	0.00380	"	0.100		88.1	70-130			
Toluene	0.0910	0.00200	"	0.100		91.0	70-130			
o-Xylene	0.0841	0.00200	"	0.100		84.1	70-130			
m,p-Xylene	0.179	0.00400	"	0.200		89.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.6	70-130			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B3C2023 - EPA 5030 (soil)

Matrix Spike (B3C2023-MS1)	Source: Y303468-01			Prepared: 03/20/2023 Analyzed: 03/20/2023						
1,2,4-Trimethylbenzene	0.112	0.00200	mg/kg	0.100	ND	112	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100	ND	110	70-130			
Benzene	0.0890	0.00200	"	0.100	ND	89.0	70-130			
Ethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Naphthalene	0.0857	0.00380	"	0.100	ND	85.7	70-130			
Toluene	0.0889	0.00200	"	0.100	ND	88.9	70-130			
o-Xylene	0.106	0.00200	"	0.100	ND	106	70-130			
m,p-Xylene	0.217	0.00400	"	0.200	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.9	70-130			

Origins Laboratory, Inc.



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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Batch B3C2023 - EPA 5030 (soil)

Matrix Spike Dup (B3C2023-MSD1)	Source: Y303468-01			Prepared: 03/20/2023 Analyzed: 03/20/2023						
1,2,4-Trimethylbenzene	0.105	0.00200	mg/kg	0.100	ND	105	70-130	5.99	20	
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100	ND	106	70-130	4.39	20	
Benzene	0.0906	0.00200	"	0.100	ND	90.6	70-130	1.78	20	
Ethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130	4.87	20	
Naphthalene	0.0928	0.00380	"	0.100	ND	92.8	70-130	7.91	20	
Toluene	0.0844	0.00200	"	0.100	ND	84.4	70-130	5.15	20	
o-Xylene	0.101	0.00200	"	0.100	ND	101	70-130	4.74	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	7.12	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		110	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.1	70-130			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2020 - EPA 3050B

Blank (B3C2020-BLK1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

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

LCS (B3C2020-BS1)

Prepared: 03/20/2023 Analyzed: 03/20/2023

Arsenic	0.0517	0.000100	mg/kg	0.0500		103	80-120			
Barium	5.10	0.0100	"	5.00		102	80-120			
Cadmium	0.0493	0.000100	"	0.0500		98.7	80-120			
Copper	0.509	0.0100	"	0.500		102	80-120			
Lead	0.0509	0.0100	"	0.0500		102	80-120			
Nickel	0.0583	0.0100	"	0.0500		117	80-120			
Selenium	0.0478	0.000100	"	0.0500		95.6	80-120			
Silver	0.0498	0.000100	"	0.0500		99.5	80-120			
Zinc	0.530	0.100	"	0.500		106	80-120			

Matrix Spike (B3C2020-MS1)

Source: Y303469-01

Prepared: 03/20/2023 Analyzed: 03/20/2023

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #1

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3C2020 - EPA 3050B

Matrix Spike (B3C2020-MS1)		Source: Y303469-01			Prepared: 03/20/2023 Analyzed: 03/20/2023					
Arsenic	6.30	0.0949	mg/kg	4.75	1.92	92.4	75-125			
Barium	527	9.49	"	475	67.8	96.8	75-125			
Cadmium	4.65	0.0949	"	4.75	0.0858	96.1	75-125			
Copper	50.4	9.49	"	47.5	4.81	96.1	75-125			
Lead	9.30	9.49	"	4.75	4.81	94.5	75-125			U
Nickel	9.26	9.49	"	4.75	4.85	92.8	75-125			U
Selenium	4.35	0.0949	"	4.75	0.0918	89.7	75-125			
Silver	4.66	0.0949	"	4.75	0.0369	97.4	75-125			
Zinc	68.5	94.9	"	47.5	23.1	95.8	75-125			U

Matrix Spike Dup (B3C2020-MSD1)		Source: Y303469-01			Prepared: 03/20/2023 Analyzed: 03/20/2023					
Arsenic	6.59	0.0983	mg/kg	4.91	1.92	95.0	75-125	4.45	20	
Barium	550	9.83	"	491	67.8	98.1	75-125	4.22	20	
Cadmium	4.76	0.0983	"	4.91	0.0858	95.2	75-125	2.45	20	
Copper	51.2	9.83	"	49.1	4.81	94.5	75-125	1.62	20	
Lead	9.65	9.83	"	4.91	4.81	98.5	75-125	3.75	20	U
Nickel	9.31	9.83	"	4.91	4.85	90.6	75-125	0.512	20	U
Selenium	4.54	0.0983	"	4.91	0.0918	90.6	75-125	4.37	20	
Silver	4.84	0.0983	"	4.91	0.0369	97.6	75-125	3.66	20	
Zinc	70.9	98.3	"	49.1	23.1	97.3	75-125	3.39	20	U

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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 L671519 - 3550B

MSD (L 84165-MSD-L671519)		Source: 84165			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Chrysene	0.117	0.00067	mg/Kg	0.162	<0.000624	72.2	30-130	15	30	
Dibenz(a,h)anthracene	0.136	0.00067	"	0.162	<0.000614	83.9	30-130	14.9	30	
Fluoranthene	0.124	0.00067	"	0.162	<0.000394	76.5	30-130	12.1	30	
Fluorene	0.119	0.00067	"	0.162	<0.000286	73.4	30-130	11.8	30	
Benzo(k)fluoranthene	0.119	0.00067	"	0.162	<0.000437	73.4	30-130	0.8	30	
Naphthalene	0.104	0.00201	"	0.162	<0.00145	64.1	30-130	11.7	30	
2-Methylnaphthalene	0.108	0.00201	"	0.162	<0.00194	66.6	30-130	12.9	30	
Indeno(1,2,3-cd)pyrene	0.112	0.00067	"	0.162	<0.000627	69.1	30-130	18.6	30	
Benzo(b)fluoranthene	0.0825	0.00067	"	0.162	<0.000585	50.9	30-130	22.1	30	
Benzo(a)pyrene	0.118	0.00067	"	0.162	<0.000468	72.8	30-130	11.9	30	
Benzo(a)anthracene	0.117	0.00067	"	0.162	<0.000493	72.2	30-130	11.2	30	
Anthracene	0.125	0.00067	"	0.162	<0.000334	77.1	30-130	13.4	30	
1-Methylnaphthalene	0.108	0.00201	"	0.162	<0.00109	66.6	30-130	12.1	30	
Pyrene	0.123	0.00067	"	0.162	<0.000643	75.9	30-130	12.2	30	
Acenaphthene	0.107	0.00067	"	0.162	<0.000304	66	30-130	12.2	30	
Surrogate: Nitrobenzene-d5	56.9		"	0.325	184	56.9	29-110			
Surrogate: 4-Terphenyl-d14	63.6		"	0.325	205	63.6	33-122			
Surrogate: 2-Fluorobiphenyl	56.6		"	0.325	181	56.6	33-115			

MS (L 84165-MS-L671519)		Source: 84165			Prepared: 03/23/2023 Analyzed: 03/23/2023					
Benzo(k)fluoranthene	0.12	0.00067	mg/Kg	0.165	<0.000437	72.7	30-130			
1-Methylnaphthalene	0.122	0.00201	"	0.165	<0.00109	73.9	30-130			
2-Methylnaphthalene	0.123	0.00201	"	0.165	<0.00194	74.5	30-130			
Acenaphthene	0.121	0.00067	"	0.165	<0.000304	73.3	30-130			
Anthracene	0.143	0.00067	"	0.165	<0.000334	86.6	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.165	<0.000493	79.3	30-130			
Pyrene	0.139	0.00067	"	0.165	<0.000643	84.2	30-130			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - UPRR 39 Pan Am G #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 L671519 - 3550B

MS (L 84165-MS-L671519)	Source: 84165			Prepared: 03/23/2023 Analyzed: 03/23/2023						
Benzo(b)fluoranthene	0.103	0.00067	mg/Kg	0.165	<0.000585	62.4	30-130			
Chrysene	0.136	0.00067	"	0.165	<0.000624	82.4	30-130			
Dibenz(a,h)anthracene	0.158	0.00067	"	0.165	<0.000614	95.7	30-130			
Fluoranthene	0.14	0.00067	"	0.165	<0.000394	84.8	30-130			
Fluorene	0.134	0.00067	"	0.165	<0.000286	81.2	30-130			
Indeno(1,2,3-cd)pyrene	0.135	0.00067	"	0.165	<0.000627	81.8	30-130			
Naphthalene	0.117	0.00201	"	0.165	<0.00145	70.9	30-130			
Benzo(a)pyrene	0.133	0.00067	"	0.165	<0.000468	80.6	30-130			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.33	181	61.2	33-115			
Surrogate: 4-Terphenyl-d14	69		"	0.33	205	69	33-122			
Surrogate: Nitrobenzene-d5	61.8		"	0.33	184	61.8	29-110			

LCS (LCS-L671519)	Prepared: 03/23/2023 Analyzed: 03/23/2023									
Naphthalene	0.115	0.00201	mg/Kg	0.167		68.8	30-130			
Benzo(a)anthracene	0.132	0.00067	"	0.167		79	30-130			
Pyrene	0.137	0.00067	"	0.167		82	30-130			
Fluorene	0.136	0.00067	"	0.167		81.4	30-130			
Fluoranthene	0.14	0.00067	"	0.167		83.8	30-130			
Dibenz(a,h)anthracene	0.16	0.00067	"	0.167		95.8	30-130			
Chrysene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(k)fluoranthene	0.139	0.00067	"	0.167		83.2	30-130			
Indeno(1,2,3-cd)pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(a)pyrene	0.128	0.00067	"	0.167		76.6	30-130			
Anthracene	0.143	0.00067	"	0.167		85.6	30-130			
Acenaphthene	0.122	0.00067	"	0.167		73	30-130			
2-Methylnaphthalene	0.122	0.00201	"	0.167		73	30-130			
1-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130			

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Martin C Eckert III
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 Project: Noble - UPRR 39 Pan Am G #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 L671519 - 3550B

LCS (LCS-L671519)

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

Benzo(b)fluoranthene	0.0804	0.00067	mg/Kg	0.167		48.1	30-130			
Surrogate: Nitrobenzene-d5	65.1		"	0.333		65.1	29-110			
Surrogate: 4-Terphenyl-d14	74.4		"	0.333		74.4	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

LRB (LRB-L671519)

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

Benzo(b)fluoranthene	ND	0.00067	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
Chrysene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.8		"	0.333		61.8	29-110			
Surrogate: 4-Terphenyl-d14	77.4		"	0.333		77.4	33-122			
Surrogate: 2-Fluorobiphenyl	64.5		"	0.333		64.5	33-115			

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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - UPRR 39 Pan Am G #1

Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Origins Laboratory, Inc.



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