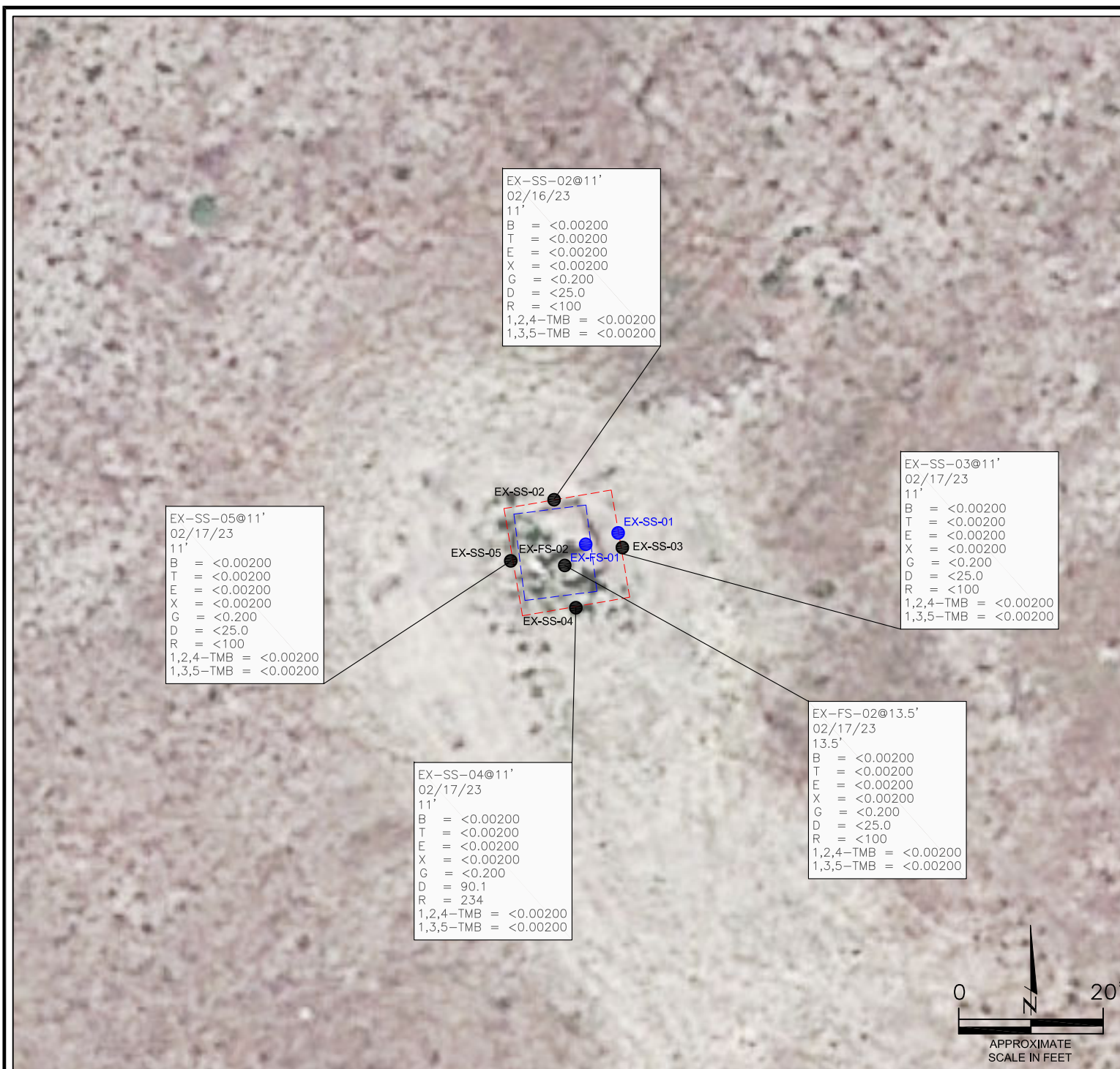




FIGURES

Figure 1: Excavation Soil Analytical Map

Figure 2: Excavation PAH Analytical Map



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

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

EXCAVATION SOIL ANALYTICAL MAP

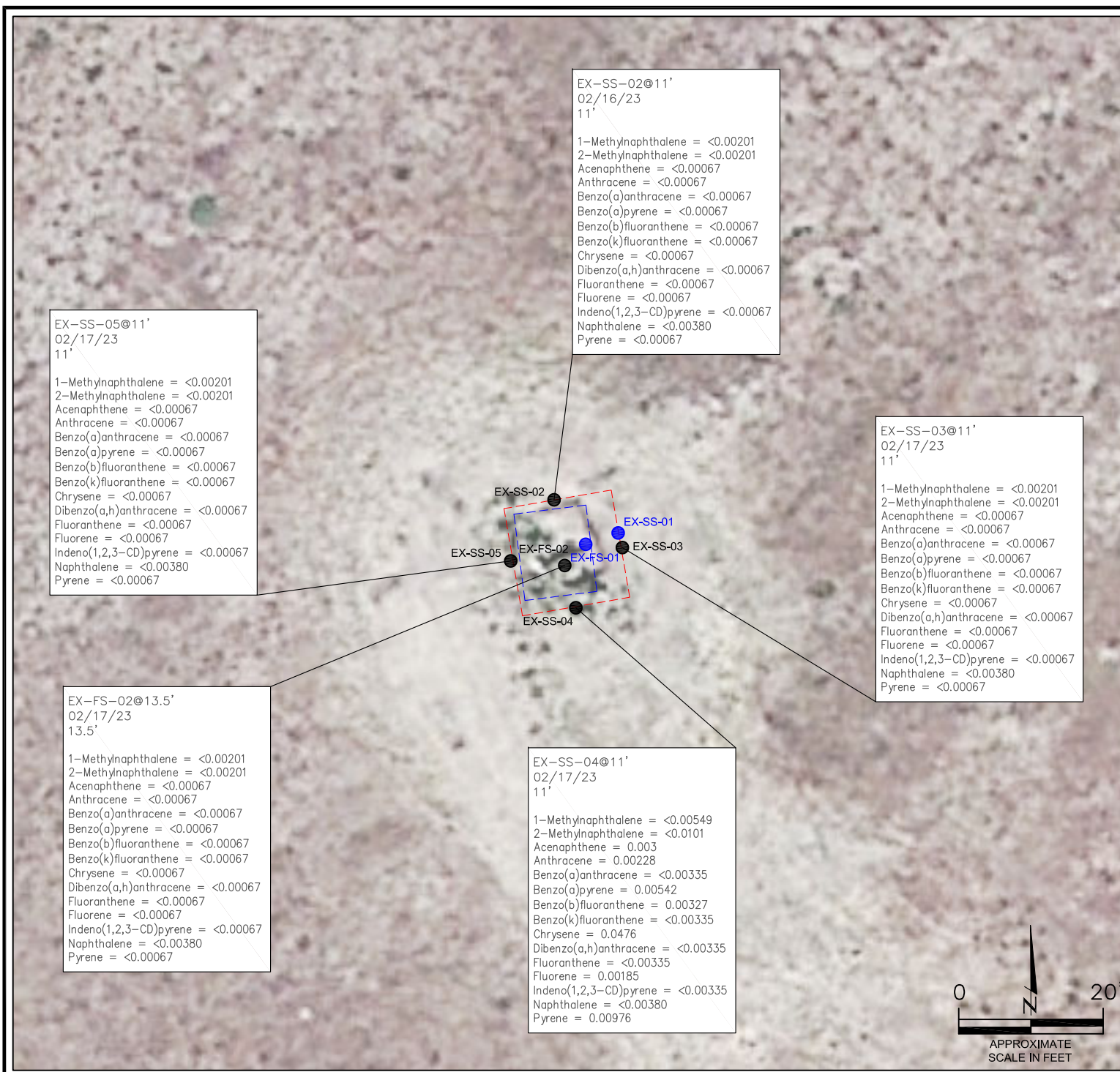
BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE¼ SW¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDIATION # 22098

FIGURE NO.
1

DRAWN BY:
GEC



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



LEGEND

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

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

NOTES:

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

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

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

EXCAVATION PAH ANALYTICAL MAP

BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE¼ SW¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDIATION # 22098

FIGURE NO.
2

DRAWN BY:
GEC



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



TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

Table 3: Polycyclic Aromatic Hydrocarbons Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE¼ SW¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDIAION # 22098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.252421 / -104.539527)	04/15/22	6	8.3	N
WH-SS-02 @ 6' (40.252420 / -104.539508)	04/15/22	6	2.8	N
WH-SS-03 @ 6' (40.252397 / -104.539523)	04/15/22	6	0.3	N
WH-SS-04 6' (40.252412 / -104.539525)	04/15/22	6	1.3	N
WH-FS-01 @ 7' (40.252416 / -104.539524)	04/15/22	7	13.2	Y
Background-01 @ 3' (40.252413 / -104.539517)	04/15/22	3	0.5	Y
FL-SS-01 @ 4' (40.248862 / -104.540574)	05/24/22	4	2.5	Y
FL-SS-02 @ 3' (40.250364 / -104.539784)	05/24/22	3	1.2	N
FL-SS-03 @ 3' (40.250568 / -104.539660)	05/24/22	3	1.1	N
FL-SS-04 @ 3' (40.250776 / -104.539538)	05/24/22	3	0.6	N
FL-SS-05 @ 3' (40.250982 / -104.539424)	05/24/22	3	0.3	N
FL-SS-06 @ 3' (40.251118 / -104.539332)	05/24/22	3	1.2	N
FL-SS-07 @ 3' (40.251380 / -104.539213)	05/24/22	3	1.5	N
FL-SS-08 @ 3' (40.251616 / -104.539280)	05/24/22	3	1.6	N
FL-SS-09 @ 3' (40.251915 / -104.5393717)	05/24/22	3	1.5	N
FL-SS-10 @ 3' (40.252131 / -104.539446)	05/24/22	3	0.1	N
FL-SS-11 @ 3' (40.252387 / -104.539523)	05/24/22	3	0.3	N
Background-02 @ 1' (40.248778 / -104.540625)	05/24/22	1	0.1	Y

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE¼ SW¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDATION # 22098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
MW-01 @ 10-13.5' (40.252406 / -104.539533)	10/21/22	10-13.5	113.2	Y
MW-02 @ 7.5-10' (40.252442 / -104.539536)	10/21/22	7.5-10	0.9	Y
MW-03 @ 10-13.5' (40.252389 / -104.539493)	10/21/22	10-13.5	0.6	Y
MW-04 @ 7.5-10' (40.252379 / -104.539556)	10/21/22	7.5-10	1.4	Y
EX-SS-01 @ 6' (40.252416 / -104.539494)	02/16/23	6	0.6	N
EX-SS-02 @ 11' (40.252428 / -104.539537)	02/16/23	11	0.1	Y
EX-SS-03 @ 11' (40.252411 / -104.539494)	02/17/23	11	0.1	Y
EX-SS-04 @ 11' (40.252387 / -104.539518)	02/17/23	11	1.6	Y
EX-SS-05 @ 11' (40.252400 / -104.539560)	02/17/23	11	0.1	Y
EX-FS-01 @ 13.5' (40.252412 / -104.539526)	02/17/23	13.5	0.2	N
EX-FS-02 @ 13.5' (40.252408 / -104.539534)	02/17/23	13.5	4.6	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = photoionization detector				

TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE¼ SW¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDATION # 22098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-RRO (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)	Boron (mg/L)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 915-1 Residential Screening Levels (mg/kg)				1.20	490	5.8	58	500			30	27	2	<4	6-8.3	<6
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.0026	0.69	0.78	9.9	--			0.0081	0.0087	--	--	--	--
WH-FS-01 @ 7' (40.252416 / -104.539524)	04/15/22	7	13.2	<0.00200	<0.00200	<0.00200	0.00744	0.295	<25.0	<100	<0.00200	0.0159*	0.119	0.602	8.66	2.90
FL-SS-01 @ 4' (40.248862 / -104.540574)	05/24/22	4	2.5	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	3.95	0.154	8.43	0.221
Background-02 @ 1' (40.248778 / -104.540625)	05/24/22	1	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.100	NA	7.50	NA
MW-01 @ 10-13.5' (40.252406 / -104.539533)	10/21/22	10-13.5	113.2	<0.00200	<0.00200	<0.00200	<0.00200	146	160	<100	<0.00200	<0.00200	NA	NA	NA	NA
MW-02 @ 7.5-10' (40.252442 / -104.539536)	10/21/22	7.5-10	0.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
MW-03 @ 10-13.5' (40.252389 / -104.539493)	10/21/22	10-13.5	0.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
MW-04 @ 7.5-10' (40.252379 / -104.539556)	10/21/22	7.5-10	1.4	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
EX-SS-02 @ 11' (40.252428 / -104.539537)	02/16/23	11	0.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
EX-SS-03 @ 11' (40.252411 / -104.539494)	02/17/23	11	0.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
EX-SS-04 @ 11' (40.252387 / -104.539518)	02/17/23	11	1.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	90.1	234	<0.00200	<0.00200	NA	NA	NA	NA
EX-SS-05 @ 11' (40.252400 / -104.539560)	02/17/23	11	0.1	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA
EX-FS-02 @ 13.5' (40.252408 / -104.539534)	02/17/23	13.5	4.6	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.00200	<0.00200	NA	NA	NA	NA

COGCC = Colorado Oil and Gas Conservation Commission

mg/kg = milligrams per kilogram

mmhos/cm = millimhos per centimeter

PID = Photoionization Detector

ppm-v = parts per million by volume

mg/L = milligrams per liter

SAR = Sodium Adsorption Ratio

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics

NA = Not Analyzed

1,2,4-TMB = 1,2,4-Trimethylbenzene

1,3,5-TMB = 1,3,5-Trimethylbenzene

MDL = Minimum Detection Limits

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory MDL and/or reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound

TABLE 3
POLYCYCLIC AROMATIC HYDROCARBONS ANALYTICAL RESULTS SUMMARY
BECCA #D 3-11
HISTORICAL RELEASE
40.252420 / -104.539510
NE¼ SW¼ SEC.3 T3N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-17286
REMEDATION # 22098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm- v)	1-Methyl- naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	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)	Naphthalene (mg/kg)	Pyrene (mg/kg)
COGCC Table 915-1 Residential Screening Levels				18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	2	180
COGCC Table 915-1 Protection of Groundwater Soil Screening Levels				0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	0.0038	1.3
WH-FS-01 @ 7' (40.252416 / -104.539524)	04/15/22	7	13.2	0.0106*	0.0108	0.00224	0.000382	<0.00067	0.00085	0.000677	<0.00067	0.00281	<0.00067	<0.00067	0.000575	<0.00067	0.00276	0.00333
FL-SS-01 @ 4' (40.248862 / -104.540574)	05/24/22	4	2.5	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-01 @ 10-13.5' (40.252406 / -104.539533)	10/21/22	10-13.5	113.2	<0.0335*	<0.0335*	0.0621	<0.0335	<0.0335*	<0.0335	<0.0335	<0.0335	0.0585	<0.0335	<0.0335	0.0223	<0.0335	<0.0335*	<0.0335
MW-02 @ 7.5-10' (40.252442 / -104.539536)	10/21/22	7.5-10	0.9	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-03 @ 10-13.5' (40.252389 / -104.539493)	10/21/22	10-13.5	0.6	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
MW-04 @ 7.5-10' (40.252379 / -104.539556)	10/21/22	7.5-10	1.4	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
EX-SS-02 @ 11' (40.252428 / -104.539537)	02/16/23	11	0.1	<0.00201	<0.00201	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00380	<0.00067
EX-SS-03 @ 11' (40.252411 / -104.539494)	02/17/23	11	0.1	<0.00201	<0.00201	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00380	<0.00067
EX-SS-04 @ 11' (40.252387 / -104.539518)	02/17/23	11	1.6	<0.00549	<0.0101	0.003	0.00228	<0.00335	0.00542	0.00327	<0.00335	0.0476	<0.00335	<0.00335	0.00185	<0.00335	<0.00380	0.00976
EX-SS-05 @ 11' (40.252400 / -104.539560)	02/17/23	11	0.1	<0.00201	<0.00201	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00380	<0.00067
EX-FS-02 @ 13.5' (40.252408 / -104.539534)	02/17/23	13.5	4.6	<0.00201	<0.00201	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00380	<0.00067

COGCC = Colorado Oil and Gas Conservation Commission PID = Photoionization Detector

mg/kg = milligrams per kilogram ppm-v = parts per million by volume

Note: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit.

Note: Values presented in **BOLD** contained concentrations exceeding COGCC Table 915-1 Regulatory Limits. Values with asterisk (*) exceed COGCC Table 915-1 protection of groundwater soil screening levels for that compound



ATTACHMENT A

Photo Log

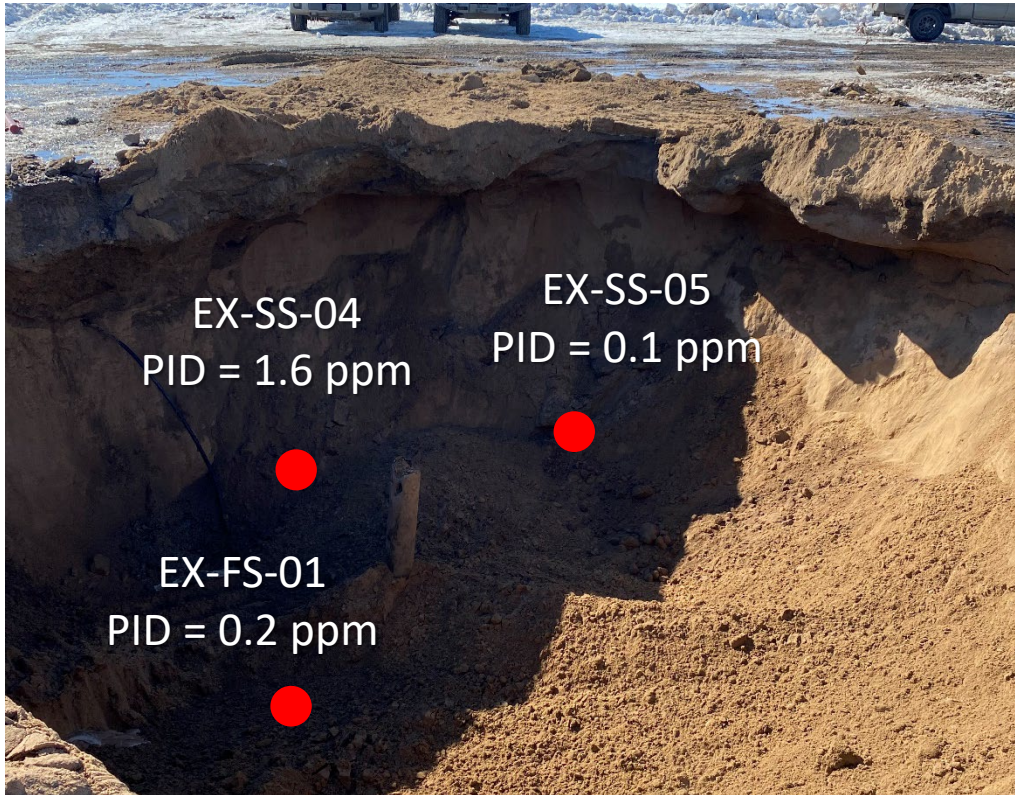
Becca #D 3-11
API # 05-123-17286
Remediation # 22098

Source Excavation

February 2023



Excavation Oversight – 02/16/23 & 02/17/23

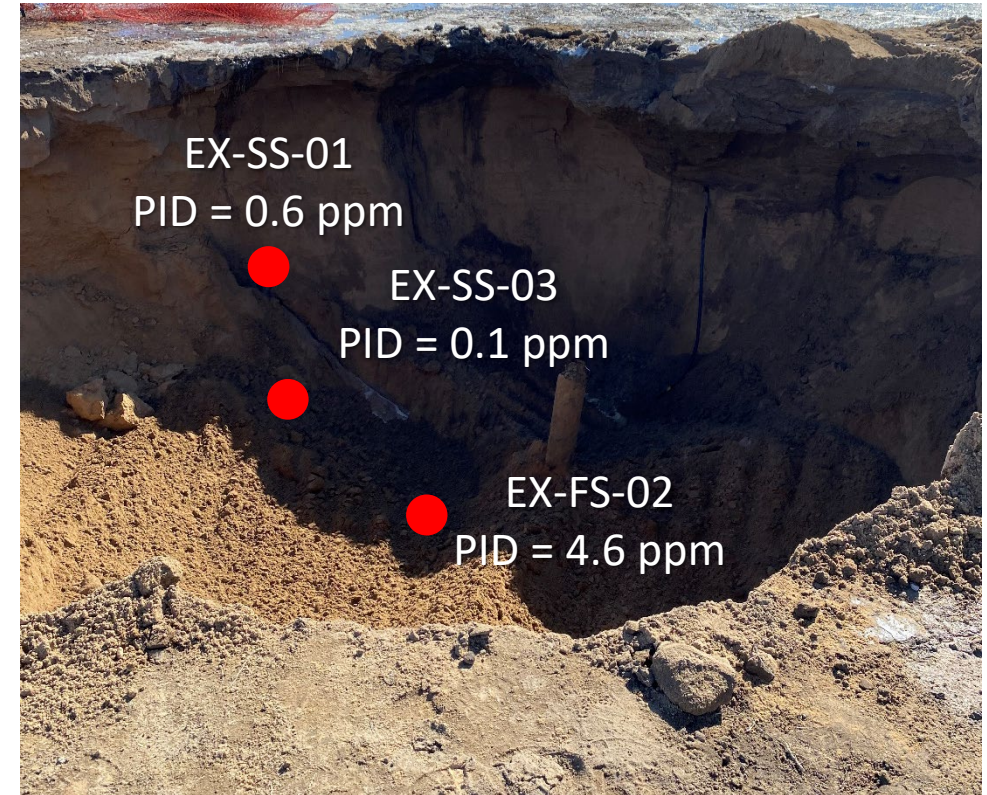


Looking southwest

Excavation completed adjacent to historical impacts observed during initial decommissioning assessment/well-installation

Approximate total depth ~13.5'

No petroleum hydrocarbon staining or odor observed



Looking southeast

Excavation completed adjacent to historical impacts observed during initial decommissioning assessment/well-installation

Approximate total depth ~13.5'

No petroleum hydrocarbon staining or odor observed

Excavation Oversight – 02/16/23 & 02/17/23



Looking northeast

Excavation completed adjacent to historical impacts observed during initial decommissioning assessment/well-installation

Approximate total depth ~13.5'

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



February 24, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Becca #D 3-11

Project Number - [none]

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. February 16, 2023. This project is associated with Origins project number Y302331-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-02@11'	Y302331-01	Soil	February 16, 2023 13:30	02/16/2023 15:03

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.

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

ORIGINS

LABORATORY, INC

www.originslaboratory.com

page 1 of 1

Fax: 303.265.9645

Client: EMPI ENVIRONMENTAL CONSULTING

Address: 8000 W 44th AVE

WHEAT RIDGE, CO 80033

Telephone Number: 303-433-1479

Email Address: WPC@EPI-ENV.CO.COM

Project Manager: MATTHEW ECKHART III

Project Name: BECCA D 3-11

Project Number: -

Samples Collected By: CT

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis		Sample Instructions		
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	As Summe #	Other	PAHs		ESTC/DIC	
EX-SS-02011	02/16/13	1330	2	X				X			X	X	X	1	MDLs needed
														2	
														3	
														4	
														5	
														6	
														7	
														8	
														9	
														10	
Relinquished By: <u>Carla</u>	Date: <u>02/16/13</u>	Time: <u>1503</u>	Received By: <u>DE</u>	Date: <u>02/16/13</u>	Time: <u>1503</u>	Turnaround Time: Same Day <input checked="" type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard									
Relinquished By:	Date:	Time:	Received By:	Date:	Time:										

* Bill to Dan

Temp Received- 2.3

Date Results Needed

* NOISE

Origins Laboratory, Inc.

Byron

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 - Becca #D 3-11

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4302331

Client: Eagle Environmental
Client Project ID: Becca D 3-11

Checklist Completed by: TSH/DE
Date/time completed: 2/16/23

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

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

Cooler Number/Temperature: 123 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: TS04

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 analysis 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) DE Date/Time Reviewed 02/16/2023

Origins Laboratory, Inc.

J. Bynon

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

EX-SS-02@11'
2/16/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302331-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B1601	02/16/2023	02/16/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 95.7 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1621	02/16/2023	02/16/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 84.0 % 70-130 " " "
Surrogate: Toluene-d8 97.0 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.5 % 70-130 " " "

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 - Becca #D 3-11

EX-SS-02@11'

2/16/2023 1:30:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302331-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L665476	02/21/2023	02/22/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	55.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	63.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.3 %	29-110	"	"	"

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 - Becca #D 3-11

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 B3B1601 - EPA 3580										
Blank (B3B1601-BLK1)					Prepared: 02/16/2023 Analyzed: 02/16/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		94.5	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 - Becca #D 3-11

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 B3B1601 - EPA 3580										
LCS (B3B1601-BS1)					Prepared: 02/16/2023 Analyzed: 02/16/2023					
Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	997	200	"	1000		99.7	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	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 - Becca #D 3-11


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 B3B1601 - EPA 3580

Matrix Spike (B3B1601-MS1)		Source: Y302312-01			Prepared: 02/16/2023 Analyzed: 02/16/2023					
Diesel (C10-C28)	984	50.0	mg/kg	1000	ND	98.4	70-130			
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130			
Surrogate: o-Terphenyl	43		"	49.8		85.9	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 - Becca #D 3-11

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 B3B1601 - EPA 3580										
Matrix Spike Dup (B3B1601-MSD1)		Source: Y302312-01			Prepared: 02/16/2023 Analyzed: 02/16/2023					
Diesel (C10-C28)	985	50.0	mg/kg	1000	ND	98.5	70-130	0.0766	35	
Residual Range Organics (C28-C40)	1120	200	"	1000	ND	112	70-130	1.72	35	
Surrogate: o-Terphenyl	42		"	49.8		84.9	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 - Becca #D 3-11

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 B3B1621 - EPA 5030 (soil)										
Blank (B3B1621-BLK1)					Prepared: 02/16/2023 Analyzed: 02/16/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.0	70-130			

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 - Becca #D 3-11

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 B3B1621 - EPA 5030 (soil)

LCS (B3B1621-BS1)

Prepared: 02/16/2023 Analyzed: 02/16/2023

1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100		118	70-130			
1,3,5-Trimethylbenzene	0.118	0.00200	"	0.100		118	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.105	0.00200	"	0.100		105	70-130			
o-Xylene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.219	0.00400	"	0.200		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		92.5	70-130			

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 - Becca #D 3-11

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 B3B1621 - EPA 5030 (soil)										
LCS Dup (B3B1621-BSD1)					Prepared: 02/16/2023 Analyzed: 02/16/2023					
1,2,4-Trimethylbenzene	0.120	0.00200	mg/kg	0.100		120	70-130	1.70	20	
1,3,5-Trimethylbenzene	0.120	0.00200	"	0.100		120	70-130	1.24	20	
Benzene	0.103	0.00200	"	0.100		103	70-130	0.310	20	
Ethylbenzene	0.116	0.00200	"	0.100		116	70-130	2.72	20	
Naphthalene	0.115	0.00380	"	0.100		115	70-130	3.39	20	
Toluene	0.106	0.00200	"	0.100		106	70-130	1.33	20	
o-Xylene	0.123	0.00200	"	0.100		123	70-130	4.44	20	
m,p-Xylene	0.227	0.00400	"	0.200		113	70-130	3.44	20	
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.9	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.2	70-130			

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 - Becca #D 3-11

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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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 L665476 - 3550B

LCSD (LCSD-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

2-Methylnaphthalene	0.121	0.00201	mg/Kg	0.167		72.4	30-130	13.2	30	
1-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130	12	30	
Fluorene	0.131	0.00067	"	0.167		78.4	30-130	11.2	30	
Pyrene	0.113	0.00067	"	0.167		67.6	30-130	10.2	30	
Indeno(1,2,3-cd)pyrene	0.157	0.00067	"	0.167		94	30-130	15	30	
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130	11.3	30	
Dibenz(a,h)anthracene	0.171	0.00067	"	0.167		102	30-130	16.4	30	
Chrysene	0.131	0.00067	"	0.167		78.4	30-130	14.7	30	
Benzo(k)fluoranthene	0.109	0.00067	"	0.167		65.2	30-130	13.8	30	
Benzo(b)fluoranthene	0.15	0.00067	"	0.167		89.8	30-130	15	30	
Benzo(a)pyrene	0.142	0.00067	"	0.167		85	30-130	14.3	30	
Benzo(a)anthracene	0.154	0.00067	"	0.167		92.2	30-130	16.1	30	
Anthracene	0.139	0.00067	"	0.167		83.2	30-130	15.5	30	
Acenaphthene	0.127	0.00067	"	0.167		76	30-130	10.7	30	
Surrogate: 4-Terphenyl-d14	63.3		"	0.333		63.3	33-122			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			

LCS (LCS-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Benzo(k)fluoranthene	0.0949	0.00067	mg/Kg	0.167		56.8	30-130			
Benzo(b)fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Pyrene	0.102	0.00067	"	0.167		61	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 - Becca #D 3-11

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 L665476 - 3550B

LCS (LCS-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Indeno(1,2,3-cd)pyrene	0.135	0.00067	mg/Kg	0.167		80.8	30-130
Fluorene	0.117	0.00067	"	0.167		70	30-130
Fluoranthene	0.108	0.00067	"	0.167		64.6	30-130
Chrysene	0.113	0.00067	"	0.167		67.6	30-130
Dibenz(a,h)anthracene	0.145	0.00067	"	0.167		86.8	30-130
Benzo(a)pyrene	0.123	0.00067	"	0.167		73.6	30-130
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130
2-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130
Acenaphthene	0.114	0.00067	"	0.167		68.2	30-130
Anthracene	0.119	0.00067	"	0.167		71.2	30-130
Benzo(a)anthracene	0.131	0.00067	"	0.167		78.4	30-130

Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122

LRB (LRB-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Benzo(k)fluoranthene	ND	0.00067	mg/Kg			-	
Fluorene	ND	0.00067	"			-	
Fluoranthene	ND	0.00067	"			-	
Dibenz(a,h)anthracene	ND	0.00067	"			-	
Chrysene	ND	0.00067	"			-	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"			-	
Benzo(b)fluoranthene	ND	0.00067	"			-	
Benzo(a)pyrene	ND	0.00067	"			-	
Benzo(a)anthracene	ND	0.00067	"			-	
Acenaphthene	ND	0.00067	"			-	
2-Methylnaphthalene	ND	0.00201	"			-	

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 - Becca #D 3-11

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 L665476 - 3550B

LRB (LRB-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

1-Methylnaphthalene	ND	0.00201	mg/Kg				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	69.6		33-122			
Surrogate: Nitrobenzene-d5	65.1		"	0.333	65.1		29-110			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333	61.2		33-115			

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, Inc.

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Becca #D 3-11

Notes and Definitions

U Sample is Non-Detect.

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.



February 24, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Becca #D 3-11

Project Number - [none]

Attached are your analytical results for Noble - Becca #D 3-11 received by Origins Laboratory, Inc. February 17, 2023. This project is associated with Origins project number Y302359-01.

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 - Becca #D 3-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EX-SS-03@11'	Y302359-01	Soil	February 17, 2023 10:20	02/17/2023 14:15
EX-SS-04@11'	Y302359-02	Soil	February 17, 2023 10:55	02/17/2023 14:15
EX-SS-05@11'	Y302359-03	Soil	February 17, 2023 11:15	02/17/2023 14:15
EX-FS-02@13.5'	Y302359-04	Soil	February 17, 2023 13:00	02/17/2023 14:15

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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

ORIGINS
LABORATORY, INC

Client: Eagle Environmental Consulting
Address: 8000 W 44th Ave
Wheat Ridge, CO 80033
Telephone Number: 303-433-0479
Email Address: MCE3@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Becca D 3-11
Project Number: -
Samples Collected By: CT

4302359

www.originslaboratory.com

page 1 of 1

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis	Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil		
EX-SS-03@11'	02/17/23	1055	2 X						X		
EX-SS-04@11'		1055							X		
EX-SS-05@11'		1115							X		
EX-FS-02@13.5'		1300							X		

Relinquished By: [Signature] Date: 02/17/23 Time: 1415
Received By: CHS Date: 2/17/23 Time: 1415

Temp Received: 5.4 Date Results Needed: Noble

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

MDLV needed

Origins Laboratory, Inc.

Jefe Pellegrini

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Becca #D 3-11

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4302359

Client: Eagle

Client Project ID: Becca D 3-11

Checklist Completed by: EHS

Shipped Via: HD

Date/time completed: 2/17/12

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

Airbill #: NA

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

Cooler Number/Temperature: 1 / 5.4 °C °C °C (Describe) °C

Thermometer ID: TOO4

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 type="checkbox"/>	<input checked="" 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 type="checkbox"/>	<input checked="" 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 checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<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 type="checkbox"/>	<input type="checkbox"/>	<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.

[Signature]
Reviewed by (Project Manager)

2/17/12
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Becca #D 3-11

EX-SS-03@11'

2/17/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302359-01 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B1721	02/17/2023	02/17/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 93.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1727	02/17/2023	02/17/2023	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 90.1 % 70-130 " " "
Surrogate: Toluene-d8 95.5 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.8 % 70-130 " " "

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

EX-SS-03@11'

2/17/2023 10:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302359-01 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L665476	02/21/2023	02/22/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
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	59.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	66 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	62.3 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

EX-SS-04@11'

2/17/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302359-02 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	90.1	25.0	mg/kg	1	B3B1721	02/17/2023	02/17/2023
Residual Range Organics (C28-C40)	234	100	"	"	"	"	"

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1727	02/17/2023	02/18/2023	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	95.9 %	70-130	"	"	"
Surrogate: Toluene-d8	96.0 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

EX-SS-04@11'

2/17/2023 10:55:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302359-02 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00549	0.0101	mg/Kg	5	L665476	02/21/2023	02/22/2023	
2-Methylnaphthalene	ND	0.00972	0.0101	"	"	"	"	"	
Acenaphthene	0.003	0.00152	0.00335	"	"	"	"	"	J
Anthracene	0.00228	0.00167	0.00335	"	"	"	"	"	J
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"	
Benzo(a)pyrene	0.00542	0.00234	0.00335	"	"	"	"	"	
Benzo(b)fluoranthene	0.00327	0.00293	0.00335	"	"	"	"	"	J
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"	
Chrysene	0.0476	0.00312	0.00335	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"	
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"	
Fluorene	0.00185	0.00143	0.00335	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"	
Naphthalene	ND	0.0073	0.0101	"	"	"	"	"	
Pyrene	0.00976	0.00322	0.00335	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	63.9 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	82.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	67.5 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

EX-SS-05@11'

2/17/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302359-03 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B1721	02/17/2023	02/17/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.6 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1727	02/17/2023	02/18/2023	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 88.9 % 70-130 " " "
Surrogate: Toluene-d8 94.7 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 92.9 % 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 - Becca #D 3-11

EX-SS-05@11'

2/17/2023 11:15:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302359-03 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L665476	02/21/2023	02/22/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
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	56.7 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	56.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

EX-FS-02@13.5'
2/17/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y302359-04 (Soil)

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B1721	02/17/2023	02/17/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 94.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B1727	02/17/2023	02/18/2023	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 88.5 % 70-130 " " "
Surrogate: Toluene-d8 95.2 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 94.4 % 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 - Becca #D 3-11

EX-FS-02@13.5'

2/17/2023 1:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y302359-04 (Soil)

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L665476	02/21/2023	02/22/2023
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	ND	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
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	57.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	61.2 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.2 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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 B3B1721 - EPA 3580										
Blank (B3B1721-BLK1)					Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		94.4	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Becca #D 3-11

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 B3B1721 - EPA 3580

LCS (B3B1721-BS1)

Prepared: 02/17/2023 Analyzed: 02/17/2023

Diesel (C10-C28)	738	50.0	mg/kg	1000		73.8	70-130			
Residual Range Organics (C28-C40)	806	200	"	1000		80.6	70-130			
Surrogate: o-Terphenyl	46		"	49.8		93.3	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Becca #D 3-11

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 B3B1721 - EPA 3580

Matrix Spike (B3B1721-MS1)		Source: Y302355-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	759	50.0	mg/kg	1000	ND	75.9	70-130			
Residual Range Organics (C28-C40)	894	200	"	1000	128	76.7	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.8	50-150			

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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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 - Becca #D 3-11

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 B3B1721 - EPA 3580

Matrix Spike Dup (B3B1721-MSD1)		Source: Y302355-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
Diesel (C10-C28)	754	50.0	mg/kg	1000	ND	75.4	70-130	0.538	35	
Residual Range Organics (C28-C40)	898	200	"	1000	128	77.1	70-130	0.458	35	
Surrogate: o-Terphenyl	46		"	49.8		91.8	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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 B3B1727 - EPA 5030 (soil)										
Blank (B3B1727-BLK1)					Prepared: 02/17/2023 Analyzed: 02/17/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.7	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 - Becca #D 3-11

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 B3B1727 - EPA 5030 (soil)

LCS (B3B1727-BS1)

Prepared: 02/17/2023 Analyzed: 02/17/2023

1,2,4-Trimethylbenzene	0.117	0.00200	mg/kg	0.100		117	70-130			
1,3,5-Trimethylbenzene	0.117	0.00200	"	0.100		117	70-130			
Benzene	0.105	0.00200	"	0.100		105	70-130			
Ethylbenzene	0.113	0.00200	"	0.100		113	70-130			
Naphthalene	0.113	0.00380	"	0.100		113	70-130			
Toluene	0.103	0.00200	"	0.100		103	70-130			
o-Xylene	0.118	0.00200	"	0.100		118	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	84.4		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	94.7		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	93.1		70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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 B3B1727 - EPA 5030 (soil)

Matrix Spike (B3B1727-MS1)		Source: Y302355-01			Prepared: 02/17/2023 Analyzed: 02/17/2023					
1,2,4-Trimethylbenzene	0.0920	0.00200	mg/kg	0.100	ND	92.0	70-130			
1,3,5-Trimethylbenzene	0.0914	0.00200	"	0.100	ND	91.4	70-130			
Benzene	0.0921	0.00200	"	0.100	ND	92.1	70-130			
Ethylbenzene	0.0957	0.00200	"	0.100	ND	95.7	70-130			
Naphthalene	0.0760	0.00380	"	0.100	0.00104	75.0	70-130			
Toluene	0.0886	0.00200	"	0.100	ND	88.6	70-130			
o-Xylene	0.100	0.00200	"	0.100	ND	100	70-130			
m,p-Xylene	0.181	0.00400	"	0.200	0.00214	89.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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 B3B1727 - EPA 5030 (soil)										
Matrix Spike Dup (B3B1727-MSD1)	Source: Y302355-01				Prepared: 02/17/2023 Analyzed: 02/17/2023					
1,2,4-Trimethylbenzene	0.0765	0.00200	mg/kg	0.100	ND	76.5	70-130	18.4	20	
1,3,5-Trimethylbenzene	0.0754	0.00200	"	0.100	ND	75.4	70-130	19.2	20	
Benzene	0.0885	0.00200	"	0.100	ND	88.5	70-130	4.03	20	
Ethylbenzene	0.0850	0.00200	"	0.100	ND	85.0	70-130	11.8	20	
Naphthalene	0.0696	0.00380	"	0.100	0.00104	68.5	70-130	8.90	20	QM-07
Toluene	0.0833	0.00200	"	0.100	ND	83.3	70-130	6.17	20	
o-Xylene	0.0898	0.00200	"	0.100	ND	89.8	70-130	11.2	20	
m,p-Xylene	0.156	0.00400	"	0.200	0.00214	76.7	70-130	14.9	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.2	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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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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 L665476 - 3550B

LCSD (LCSD-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Fluoranthene	0.121	0.00067	mg/Kg	0.167		72.4	30-130	11.3	30	
Pyrene	0.113	0.00067	"	0.167		67.6	30-130	10.2	30	
Naphthalene	0.117	0.00201	"	0.167		70	30-130	14.6	30	
Fluorene	0.131	0.00067	"	0.167		78.4	30-130	11.2	30	
Dibenz(a,h)anthracene	0.171	0.00067	"	0.167		102	30-130	16.4	30	
Chrysene	0.131	0.00067	"	0.167		78.4	30-130	14.7	30	
Benzo(k)fluoranthene	0.109	0.00067	"	0.167		65.2	30-130	13.8	30	
Indeno(1,2,3-cd)pyrene	0.157	0.00067	"	0.167		94	30-130	15	30	
1-Methylnaphthalene	0.114	0.00201	"	0.167		68.2	30-130	12	30	
Benzo(b)fluoranthene	0.15	0.00067	"	0.167		89.8	30-130	15	30	
2-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130	13.2	30	
Acenaphthene	0.127	0.00067	"	0.167		76	30-130	10.7	30	
Anthracene	0.139	0.00067	"	0.167		83.2	30-130	15.5	30	
Benzo(a)anthracene	0.154	0.00067	"	0.167		92.2	30-130	16.1	30	
Benzo(a)pyrene	0.142	0.00067	"	0.167		85	30-130	14.3	30	
Surrogate: Nitrobenzene-d5	68.7		"	0.333		68.7	29-110			
Surrogate: 2-Fluorobiphenyl	63.9		"	0.333		63.9	33-115			
Surrogate: 4-Terphenyl-d14	63.3		"	0.333		63.3	33-122			

LCS (LCS-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Benzo(a)pyrene	0.123	0.00067	mg/Kg	0.167		73.6	30-130			
Naphthalene	0.101	0.00201	"	0.167		60.4	30-130			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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 L665476 - 3550B

LCS (LCS-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Indeno(1,2,3-cd)pyrene	0.135	0.00067	mg/Kg	0.167		80.8	30-130			
Fluorene	0.117	0.00067	"	0.167		70	30-130			
Fluoranthene	0.108	0.00067	"	0.167		64.6	30-130			
Dibenz(a,h)anthracene	0.145	0.00067	"	0.167		86.8	30-130			
Chrysene	0.113	0.00067	"	0.167		67.6	30-130			
Pyrene	0.102	0.00067	"	0.167		61	30-130			
1-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
Benzo(a)anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Anthracene	0.119	0.00067	"	0.167		71.2	30-130			
Acenaphthene	0.114	0.00067	"	0.167		68.2	30-130			
2-Methylnaphthalene	0.106	0.00201	"	0.167		63.4	30-130			
Benzo(k)fluoranthene	0.0949	0.00067	"	0.167		56.8	30-130			
Benzo(b)fluoranthene	0.129	0.00067	"	0.167		77.2	30-130			
Surrogate: Nitrobenzene-d5	69.9		"	0.333		69.9	29-110			
Surrogate: 4-Terphenyl-d14	66.3		"	0.333		66.3	33-122			
Surrogate: 2-Fluorobiphenyl	66.3		"	0.333		66.3	33-115			

LRB (LRB-L665476)

Prepared: 02/21/2023 Analyzed: 02/22/2023

Chrysene	ND	0.00067	mg/Kg			-				
Dibenz(a,h)anthracene	ND	0.00067	"			-				
Fluoranthene	ND	0.00067	"			-				
Fluorene	ND	0.00067	"			-				
Benzo(k)fluoranthene	ND	0.00067	"			-				
Naphthalene	ND	0.00201	"			-				
Indeno(1,2,3-cd)pyrene	ND	0.00067	"			-				
Benzo(b)fluoranthene	ND	0.00067	"			-				
Benzo(a)pyrene	ND	0.00067	"			-				

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Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L665476 - 3550B										
LRB (LRB-L665476)					Prepared: 02/21/2023 Analyzed: 02/22/2023					
Benzo(a)anthracene	ND	0.00067	mg/Kg				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: 4-Terphenyl-d14	69.6		"	0.333	69.6		33-122			
Surrogate: Nitrobenzene-d5	65.1		"	0.333	65.1		29-110			
Surrogate: 2-Fluorobiphenyl	61.2		"	0.333	61.2		33-115			

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Martin C Eckert III
Project Number: [none]
Project: Noble - Becca #D 3-11

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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

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