

Wellhead Closure Checklist						
COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form						
Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure
Site Name & COGCC Facility Number: Shelton H #01-24		Date: 04/19/23				Remediation Project #: 27003
Associated Wells: 05-123-29948		Age of Site: Years				Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.250795 / -104.611341	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)						
Good Condition						
USCS Soil Type: Clayey SAND				Estimated Depth to Groundwater: Approx. 10-20'		
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None observed.						
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)						
None observed.						
Wellhead(s)						
Well API	05-123-29948					
Age	Years					
Condition of surface around wellhead	Good - Per Crew					
PID Readings	N/A - Excavated Upon Arrival					
Condition of subsurface (staining present)	Good - No Staining or Odor					
PID Readings	0.5	0.6	0.4	0.7	0.8	
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	
Photo Number(s)	See photolog					
Other observations regarding wellheads:						
Well casing cut/capped following assessment.						
Summary						
Was impacted soil identified?						
<input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards						
Total number of samples field screened: 5				Total number of samples collected: 5		
Highest PID Reading: 0.8				Total number of samples submitted to lab for analysis: 1		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent: N/A				Volume of soil removed:		
Is additional investigation required?						
Was groundwater encountered during the investigation?						
<input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils						
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:		
Free product observed? Yes No				Volume of groundwater removed post sampling:		
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						

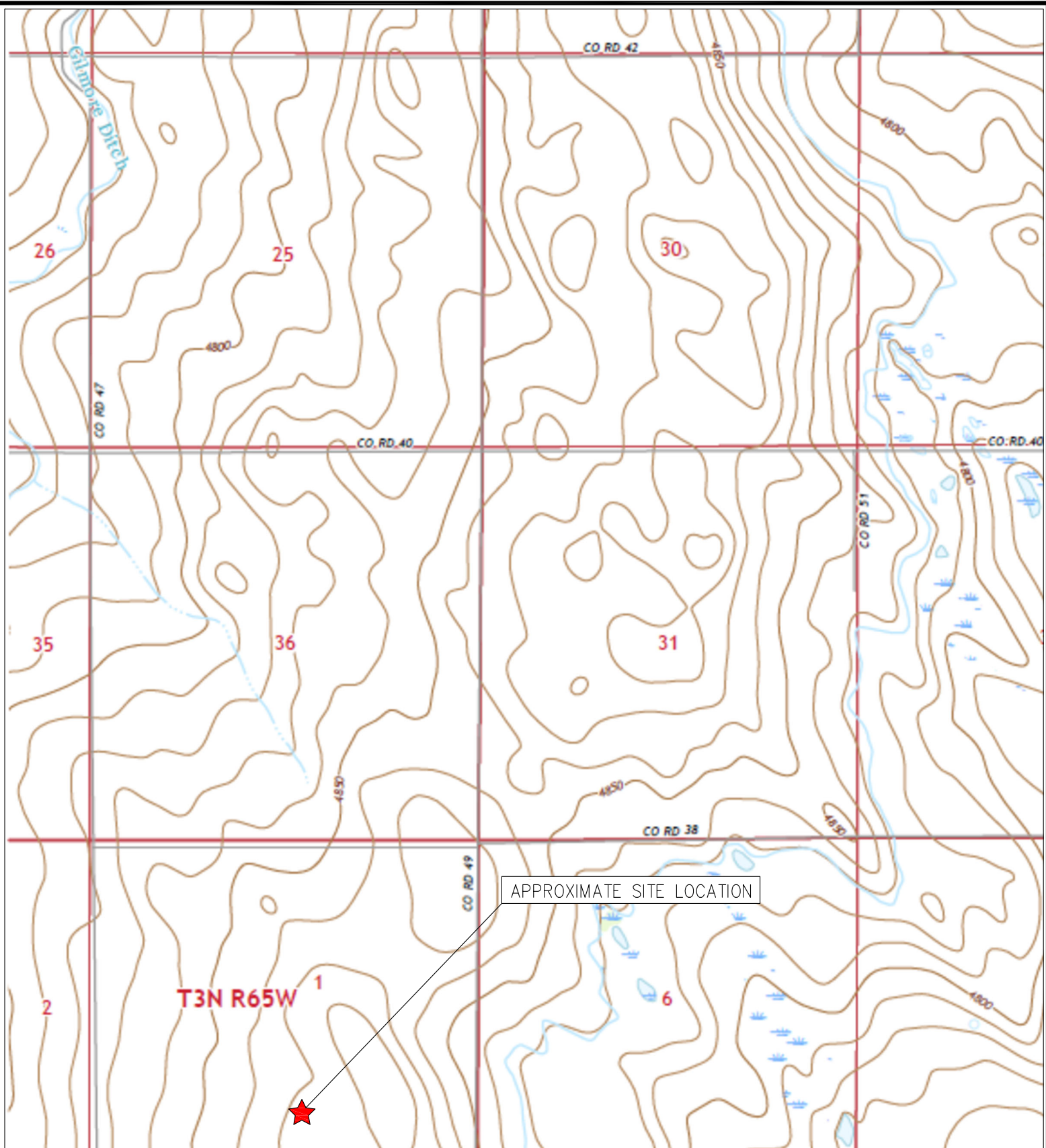


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 SHELTON H #01-24
 CLOSURE ASSESSMENT
 40.250795 / -104.611341
 NW¼ SE¼ SEC.1 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-29948
 REMEDIATION # 27003



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

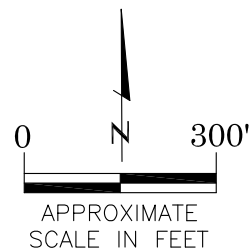
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

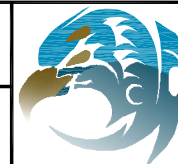
- FORMER SHELTON H #01-24 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 SHELTON H #01-24
 CLOSURE ASSESSMENT
 40.250795 / -104.611341
 NW¼ SE¼ SEC.1 T3N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-29948
 REMEDIATION # 27003

FIGURE NO.
2

DRAWN BY:
EL



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LEGEND

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

PARAMETERS

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

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

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

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

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
SHELTON H #01-24
CLOSURE ASSESSMENT
40.250795 / -104.611341
NW¼ SE¼ SEC.1 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29948
REMEDIATION # 27003

FIGURE NO.
3

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EL





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
SHELTON H #01-24
CLOSURE ASSESSMENT
40.250795 / -104.611341
NW¼ SE¼ SEC.1 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29948
REMEDIAION # 27003

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.250805 / -104.611338)	04/19/23	5	0.5	N
WH-SS-02 @ 5' (40.250789 / -104.611318)	04/19/23	5	0.6	N
WH-SS-03 @ 5' (40.250774 / -104.611338)	04/19/23	5	0.4	N
WH-SS-04 @ 5' (40.250789 / -104.611360)	04/19/23	5	0.7	N
WH-FS-01 @ 6' (40.250789 / -104.611338)	04/19/23	6	0.8	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
SHELTON H #01-24
CLOSURE ASSESSMENT
40.250795 / -104.611341
NW¼ SE¼ SEC.1 T3N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-29948
REMEDATION # 27003

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.250789 / -104.611338)
Sample Date				4/19/2023
Sample Depth				6'
PID Reading (ppm-v)				0.8
Regulatory Limits				
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	
VOCs				
Benzene	mg/kg	1.2	0.0026	<0.00200
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	0.0012
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	0.00091
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	0.000535
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	0.00138
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.311
pH	standard unit	6-8.3	--	8.25
Sodium Adsorption Ratio (SAR)	--	<6	--	3.22
Specific Conductance (EC)	mmhos/cm	<4	--	1.13
ECMC = Energy & Carbon Management Commission		VOCs - Volatile Organic Compounds		
mg/kg = milligrams per kilogram				
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels		
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels		
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics		
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics		
SAR = Sodium Adsoption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics		
Notes:				
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.				
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.				



ATTACHMENT A

Photo Log

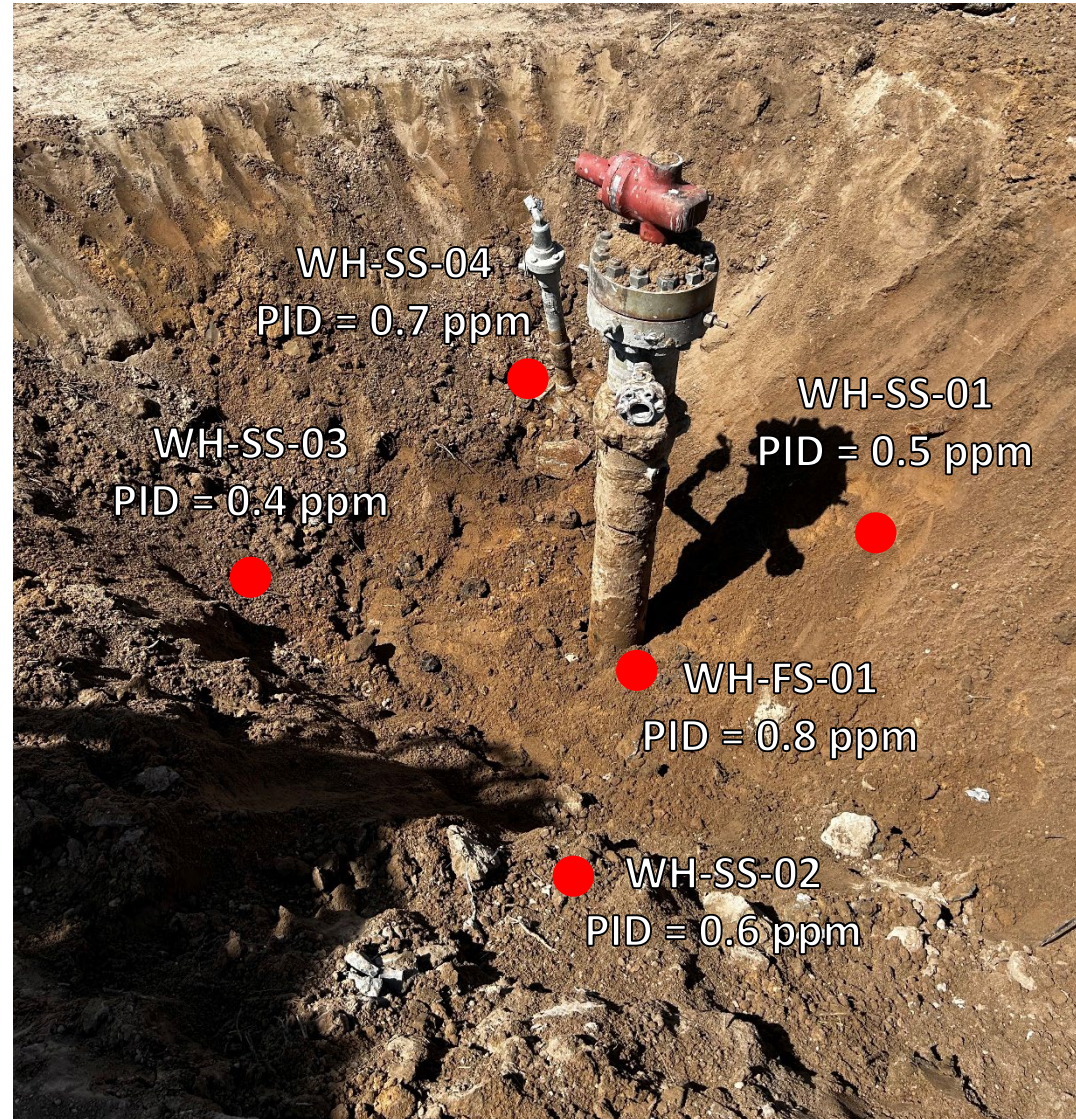
Shelton H #01-24
API # 05-123-29948
Remediation # 27003

Closure Assessment

April 2023



Wellhead Excavation – 04/19/23



Looking west

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



May 01, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Shelton H #01-24

Project Number - [none]

Attached are your analytical results for Noble - Shelton H #01-24 received by Origins Laboratory, Inc. April 19, 2023. This project is associated with Origins project number Y304455-01.

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 - Shelton H #01-24

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y304455-01	Soil	April 19, 2023 11:18	04/19/2023 15:33

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton H #01-24

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1804455

Client: Eagle Environ
Client Project ID: Shelton H #01-24

Checklist Completed by: JH/EHS

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

Date/time completed: 4/20/23

Airbill #: na

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

Cooler Number/Temperature: 1 / 23 °C / °C / °C (Describe) °C

Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
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)			/	
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)

Date/Time Reviewed 4/21/23

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton H #01-24

WH-FS-01@6'

4/19/2023 11:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304455-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.311	0.0980	mg/L	1	B3D2512	04/25/2023	04/26/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3D2033	04/20/2023	04/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	96.6 %	50-150			"	"	"
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3D2101	04/21/2023	04/21/2023	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	87.1 %	70-130			"	"	"
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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 - Shelton H #01-24

WH-FS-01@6'

4/19/2023 11:18:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y304455-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	91.7 %	70-130	B3D21 01	04/21/2023	04/21/2023
Surrogate: 4-Bromofluorobenzene	101 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	3.43	0.499	meq/L	10	[CALC]	04/25/2023	04/26/2023
Magnesium	1.34	0.823	"	"	"	"	"
Sodium	4.97	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L678043	04/25/2023	04/25/2023
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	0.0012	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00091	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.000535	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"

J

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 - Shelton H #01-24

WH-FS-01@6'

4/19/2023 11:18:00AM

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

Waypoint Analytical, LLC.
Y304455-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L678043	04/25/2023	04/25/2023
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	0.00138	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	53.8 %		33-115			"	"	"
Surrogate: 4-Terphenyl-d14	64.2 %		33-122			"	"	"
Surrogate: Nitrobenzene-d5	54.1 %		29-110			"	"	"

pH in Soil by 9045D

pH	8.25			pH Units	1	B3D2518	04/25/2023	04/26/2023
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SAR by 20B Saturated Paste

SAR	3.22			SAR	1	B3D2508	04/25/2023	04/26/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.13		0.00500	mmhos/cm	1	B3D2518	04/25/2023	04/26/2023
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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 - Shelton H #01-24

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 B3D2033 - EPA 3550B										
Blank (B3D2033-BLK1)					Prepared: 04/20/2023 Analyzed: 04/21/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	28		"	24.9		113	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 - Shelton H #01-24

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 B3D2033 - EPA 3550B										
LCS (B3D2033-BS1)					Prepared: 04/20/2023 Analyzed: 04/21/2023					
Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1010	200	"	1000		101	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.0	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 - Shelton H #01-24

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 B3D2033 - EPA 3550B

Matrix Spike (B3D2033-MS1)		Source: Y304427-01			Prepared: 04/20/2023 Analyzed: 04/21/2023					
Diesel (C10-C28)	1130	50.0	mg/kg	1000	97.7	103	70-130			
Residual Range Organics (C28-C40)	996	200	"	1000	ND	99.6	70-130			
Surrogate: o-Terphenyl	47		"	49.8		94.7	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 - Shelton H #01-24

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 B3D2033 - EPA 3550B

Matrix Spike Dup (B3D2033-MSD1)		Source: Y304427-01			Prepared: 04/20/2023 Analyzed: 04/21/2023					
Diesel (C10-C28)	1160	50.0	mg/kg	1000	97.7	106	70-130	2.63	35	
Residual Range Organics (C28-C40)	976	200	"	1000	ND	97.6	70-130	2.03	35	
Surrogate: o-Terphenyl	47		"	49.8		93.9	50-150			

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton H #01-24

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 B3D2101 - EPA 5030 (soil)										
Blank (B3D2101-BLK1)					Prepared: 04/21/2023 Analyzed: 04/21/2023					
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	0.096		"	0.125		76.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.6	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 - Shelton H #01-24

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 B3D2101 - EPA 5030 (soil)										
LCS (B3D2101-BS1)					Prepared: 04/21/2023 Analyzed: 04/21/2023					
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.0989	0.00200	"	0.100		98.9	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.0953	0.00200	"	0.100		95.3	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.0936	0.00200	"	0.100		93.6	70-130			
o-Xylene	0.108	0.00200	"	0.100		108	70-130			
m,p-Xylene	0.206	0.00400	"	0.200		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.095		"	0.125		75.7	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		94.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.0	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 - Shelton H #01-24

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 B3D2101 - EPA 5030 (soil)

Matrix Spike (B3D2101-MS1)		Source: Y304453-01			Prepared: 04/21/2023 Analyzed: 04/21/2023					
1,2,4-Trimethylbenzene	0.0832	0.00200	mg/kg	0.100	ND	83.2	70-130			
1,3,5-Trimethylbenzene	0.0805	0.00200	"	0.100	ND	80.5	70-130			
Benzene	0.0861	0.00200	"	0.100	ND	86.1	70-130			
Ethylbenzene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
Naphthalene	0.0841	0.00380	"	0.100	0.000800	83.3	70-130			
Toluene	0.0787	0.00200	"	0.100	ND	78.7	70-130			
o-Xylene	0.0876	0.00200	"	0.100	ND	87.6	70-130			
m,p-Xylene	0.174	0.00400	"	0.200	ND	87.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.3	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton H #01-24

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 B3D2101 - EPA 5030 (soil)										
Matrix Spike Dup (B3D2101-MSD1)		Source: Y304453-01			Prepared: 04/21/2023 Analyzed: 04/21/2023					
1,2,4-Trimethylbenzene	0.0485	0.00200	mg/kg	0.0500	ND	97.0	70-130	52.7	20	QR-02
1,3,5-Trimethylbenzene	0.0473	0.00200	"	0.0500	ND	94.6	70-130	52.0	20	QR-02
Benzene	0.0578	0.00200	"	0.0500	ND	116	70-130	39.3	20	QR-02
Ethylbenzene	0.0503	0.00200	"	0.0500	ND	101	70-130	46.5	20	QR-02
Naphthalene	0.0545	0.00380	"	0.0500	0.000800	107	70-130	42.7	20	QR-02
Toluene	0.0509	0.00200	"	0.0500	ND	102	70-130	42.9	20	QR-02
o-Xylene	0.0549	0.00200	"	0.0500	ND	110	70-130	45.8	20	QR-02
m,p-Xylene	0.108	0.00400	"	0.100	ND	108	70-130	47.2	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		81.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	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 - Shelton H #01-24

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3D2508 - Saturated Paste Metals

Blank (B3D2508-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

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

Duplicate (B3D2508-DUP1)

Source: Y304451-05

Prepared: 04/25/2023 Analyzed: 04/26/2023

Calcium PPM	159	10.0	mg/L	222	32.6	50
SAR	0.00		SAR	1.41	200	200
Magnesium PPM	151	10.0	mg/L	183	19.3	50
Sodium PPM	104	10.0	"	117	11.9	50

Batch B3D2512 - DTPA Sorbitol Preparation

Blank (B3D2512-BLK1)

Prepared: 04/25/2023 Analyzed: 04/26/2023

Boron	ND	0.100	mg/L
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Duplicate (B3D2512-DUP1)

Source: Y304451-06

Prepared: 04/25/2023 Analyzed: 04/26/2023

Boron	0.880	0.100	mg/L	1.02	15.2	50
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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton H #01-24

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3D2518 - Saturated Paste pH/EC										
Blank (B3D2518-BLK1)					Prepared: 04/25/2023 Analyzed: 04/26/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3D2518-DUP1)					Source: Y304451-05 Prepared: 04/25/2023 Analyzed: 04/26/2023					
pH	7.94		pH Units		7.95			0.126	25	
Specific Conductance (EC)	1.98	0.00500	mmhos/cm		2.33			16.6	25	

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 - Shelton H #01-24

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 L678043 - 3550B

MSD (L 81642-MSD-L678043)		Source: 81642			Prepared: 04/25/2023 Analyzed: 04/25/2023					
2-Methylnaphthalene	0.0931	0.00201	mg/Kg	0.165	<0.00194	56.4	30-130	4.2	30	
Fluorene	0.103	0.00067	"	0.165	<0.000286	62.4	30-130	3.8	30	
Pyrene	0.107	0.00067	"	0.165	<0.000643	64.8	30-130	2.8	30	
Indeno(1,2,3-cd)pyrene	0.0954	0.00067	"	0.165	0.000791	57.3	30-130	10.1	30	
Fluoranthene	0.113	0.00067	"	0.165	<0.000394	68.4	30-130	2.6	30	
Dibenz(a,h)anthracene	0.0994	0.00067	"	0.165	<0.000614	60.2	30-130	11	30	
Chrysene	0.0956	0.00067	"	0.165	<0.000624	57.9	30-130	1.5	30	
Naphthalene	0.093	0.00201	"	0.165	<0.00145	56.3	30-130	3.6	30	
1-Methylnaphthalene	0.0946	0.00201	"	0.165	<0.00109	57.3	30-130	7.1	30	
Benzo(k)fluoranthene	0.0833	0.00067	"	0.165	<0.000437	50.4	30-130	10.3	30	
Acenaphthene	0.0975	0.00067	"	0.165	<0.000304	59	30-130	3.5	30	
Anthracene	0.101	0.00067	"	0.165	<0.000334	61.2	30-130	1.3	30	
Benzo(a)anthracene	0.114	0.00067	"	0.165	<0.000493	69	30-130	0	30	
Benzo(a)pyrene	0.11	0.00067	"	0.165	<0.000468	66.6	30-130	4.6	30	
Benzo(b)fluoranthene	0.0647	0.00067	"	0.165	<0.000585	39.2	30-130	14	30	
Surrogate: 2-Fluorobiphenyl	47.5		"	0.33	163	47.5	33-115			
Surrogate: Nitrobenzene-d5	46.6		"	0.33	163	46.6	29-110			
Surrogate: 4-Terphenyl-d14	56		"	0.33	189	56	33-122			

MS (L 81642-MS-L678043)		Source: 81642			Prepared: 04/25/2023 Analyzed: 04/25/2023					
Benzo(k)fluoranthene	0.0924	0.00067	mg/Kg	0.164	<0.000437	56.3	30-130			
Acenaphthene	0.0941	0.00067	"	0.164	<0.000304	57.3	30-130			
Naphthalene	0.0897	0.00201	"	0.164	<0.00145	54.6	30-130			
Indeno(1,2,3-cd)pyrene	0.0862	0.00067	"	0.164	0.000791	52	30-130			
Fluorene	0.0991	0.00067	"	0.164	<0.000286	60.4	30-130			
Fluoranthene	0.11	0.00067	"	0.164	<0.000394	67	30-130			
Dibenz(a,h)anthracene	0.089	0.00067	"	0.164	<0.000614	54.2	30-130			

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 - Shelton H #01-24

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 L678043 - 3550B

MS (L 81642-MS-L678043)		Source: 81642			Prepared: 04/25/2023 Analyzed: 04/25/2023					
Chrysene	0.0941	0.00067	mg/Kg	0.164	<0.000624	57.3	30-130			
1-Methylnaphthalene	0.0881	0.00201	"	0.164	<0.00109	53.7	30-130			
Benzo(a)pyrene	0.105	0.00067	"	0.164	<0.000468	64	30-130			
Anthracene	0.0996	0.00067	"	0.164	<0.000334	60.7	30-130			
Pyrene	0.104	0.00067	"	0.164	<0.000643	63.4	30-130			
2-Methylnaphthalene	0.0892	0.00201	"	0.164	<0.00194	54.3	30-130			
Benzo(b)fluoranthene	0.0745	0.00067	"	0.164	<0.000585	45.4	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.164	<0.000493	69.5	30-130			
Surrogate: Nitrobenzene-d5	45.7		"	0.328	163	45.7	29-110			
Surrogate: 4-Terphenyl-d14	56.7		"	0.328	189	56.7	33-122			
Surrogate: 2-Fluorobiphenyl	46.3		"	0.328	163	46.3	33-115			

LCS (LCS-L678043)		Prepared: 04/25/2023 Analyzed: 04/25/2023								
Chrysene	0.122	0.00067	mg/Kg	0.167		73	30-130			
Dibenz(a,h)anthracene	0.117	0.00067	"	0.167		70	30-130			
Fluoranthene	0.139	0.00067	"	0.167		83.2	30-130			
Fluorene	0.128	0.00067	"	0.167		76.6	30-130			
Indeno(1,2,3-cd)pyrene	0.114	0.00067	"	0.167		68.2	30-130			
Naphthalene	0.119	0.00201	"	0.167		71.2	30-130			
Benzo(k)fluoranthene	0.111	0.00067	"	0.167		66.4	30-130			
Pyrene	0.132	0.00067	"	0.167		79	30-130			
Benzo(a)pyrene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(a)anthracene	0.146	0.00067	"	0.167		87.4	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Acenaphthene	0.121	0.00067	"	0.167		72.4	30-130			
2-Methylnaphthalene	0.121	0.00201	"	0.167		72.4	30-130			
1-Methylnaphthalene	0.12	0.00201	"	0.167		71.8	30-130			

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 - Shelton H #01-24

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 L678043 - 3550B										
LCS (LCS-L678043)					Prepared: 04/25/2023 Analyzed: 04/25/2023					
Benzo(b)fluoranthene	0.0912	0.00067	mg/Kg	0.167		54.6	30-130			
Surrogate: Nitrobenzene-d5	66		"	0.333		66	29-110			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			
Surrogate: 2-Fluorobiphenyl	66		"	0.333		66	33-115			
LRB (LRB-L678043)					Prepared: 04/25/2023 Analyzed: 04/25/2023					
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	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.7		"	0.333		59.7	29-110			
Surrogate: 4-Terphenyl-d14	64.5		"	0.333		64.5	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	33-115			

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
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Martin C Eckert III
Project Number: [none]
Project: Noble - Shelton H #01-24

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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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