

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: Webster B #6-7		Date: 02/17/23				Remediation Project #: 22758
Associated Wells: 05-123-24107		Age of Site: Years				Number of Photos Attached: 1
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)					40.428791 / -104.587504	
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	05-123-24107					
Age	Years					
Condition of surface around wellhead	Good - Per Crew					
PID Readings	N/A - Excavated Upon Arrival					
Condition of subsurface (staining present)	Good - No Odor/Staining					
PID Readings	1.9	1.6	1.7	1.9	2.0	
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: 2.0				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:				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:						

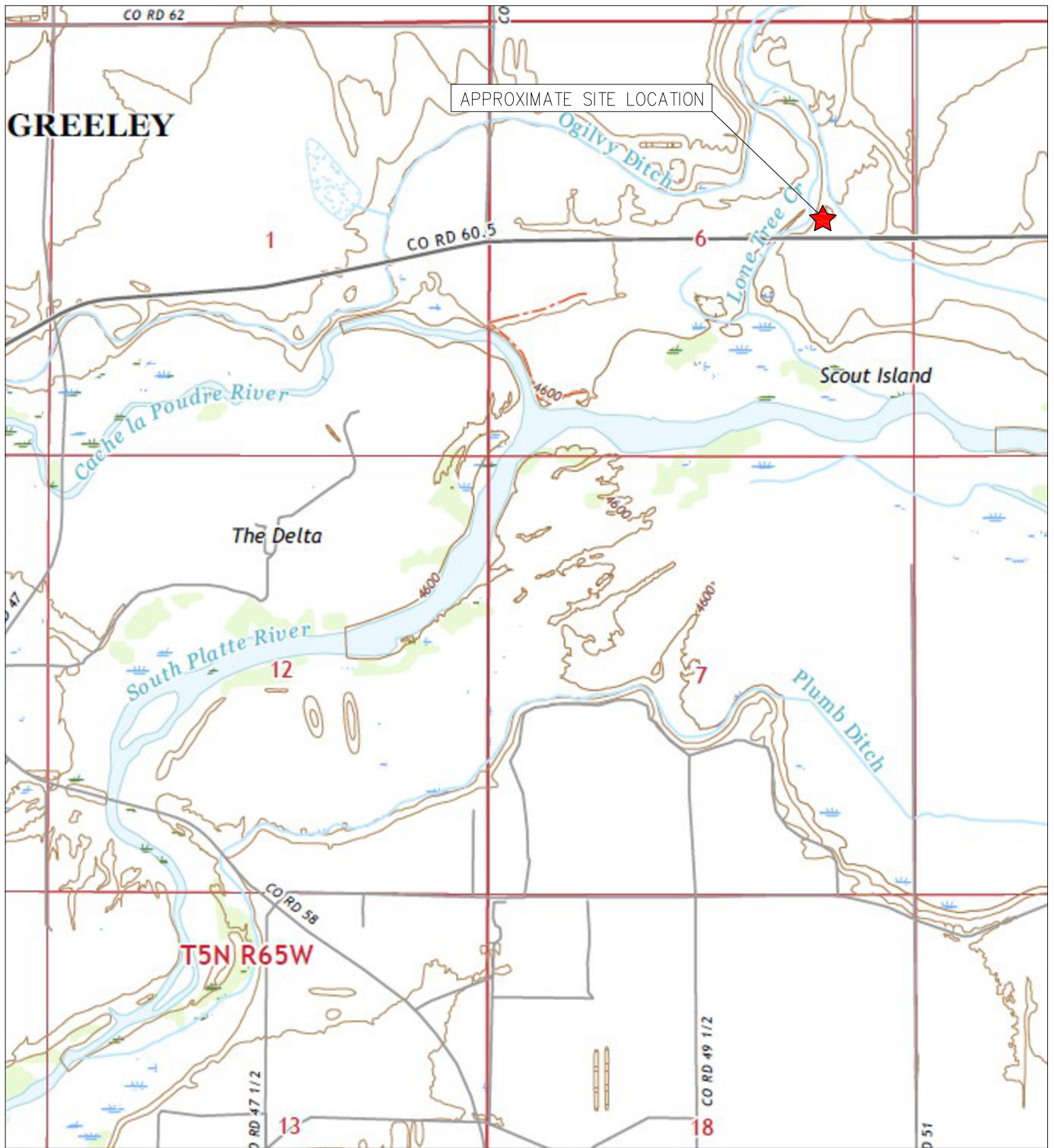


## **FIGURES**

**Figure 1: Topographic Site Location Map**

**Figure 2: Aerial Site Location Map**

**Figure 3: Soil Analytical Map**



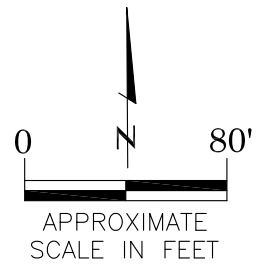
	<p>TOPOGRAPHIC SITE LOCATION MAP          WEBSTER B #6-7          CLOSURE ASSESSMENT          40.428791 / -104.587504          SE¼ NE¼ SEC.6 T5N R64W 6PM          WELD COUNTY, COLORADO          API # 05-123-24107          REMEDIATION # 22758</p>	<p><b>EAGLE</b>          ENVIRONMENTAL          CONSULTING, LLC</p> <p>8000 W 44th Ave, Wheat Ridge, CO 80033          Ph: 303-433-0479 • F: 303-325-5449</p>
<p>SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,          KERSEY, CO QUADRANGLE 2022</p>		<p>FIGURE 1</p>





# LEGEND

- FORMER WEBSTER B #6-7 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



## AERIAL SITE LOCATION MAP

WEBSTER B #6-7  
 CLOSURE ASSESSMENT  
 40.428791 / -104.587504  
 SE¼ NE¼ SEC.6 T5N R64W 6PM  
 WELD COUNTY, COLORADO  
 API # 05-123-24107  
 REMEDIATION # 22758

FIGURE NO.  
 2

DRAWN BY:  
 EL



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





#### LEGEND

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

#### PARAMETERS

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

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 COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP  
WEBSTER B #6-7  
CLOSURE ASSESSMENT  
40.428791 / -104.587504  
SE¼ NE¼ SEC.6 T5N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-24107  
REMEDATION # 22758

FIGURE NO.  
3

DRAWN BY:  
EL



**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 1**  
**PHOTOIONIZATION DETECTOR READING SUMMARY**  
**WEBSTER B #6-7**  
**CLOSURE ASSESSMENT**  
**40.428791 / -104.587504**  
**SE¼ NE¼ SEC.6 T5N R64W 6PM**  
**WELD COUNTY, COLORADO**  
**API # 05-123-24107**  
**REMEDIAION # 22758**

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.428809 / -104.587512)	02/17/23	5	1.9	N
WH-SS-02 @ 5' (40.428795 / -104.587497)	02/17/23	5	1.6	N
WH-SS-03 @ 5' (40.428780 / -104.587517)	02/17/23	5	1.7	N
WH-SS-04 @ 5' (40.428798 / -104.587534)	02/17/23	5	1.9	N
WH-FS-01 @ 6' (40.428794 / -104.587511)	02/17/23	6	2.0	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				

TABLE 2  
SOIL ANALYTICAL RESULTS SUMMARY  
WEBSTER B #6-7  
CLOSURE ASSESSMENT  
40.428791 / -104.587504  
SE¼ NE¼ SEC.6 T5N R64W 6PM  
WELD COUNTY, COLORADO  
API # 05-123-24107  
REMEDATION # 22758

Sample Location				WH-FS-01 @ 6'
(Latitude / Longitude)				(40.428794 / -104.587511)
Sample Date				2/17/2023
Sample Depth				6'
PID Reading (ppm-v)				2.0
Regulatory Limits				
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC 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	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	0.000407
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	<0.00067
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	<0.0993
pH	standard unit	6-8.3	--	8.13
Sodium Adsorption Ratio (SAR)	--	<6	--	0.210
Specific Conductance (EC)	mmhos/cm	<4	--	0.246
COGCC = Colorado Oil and Gas Conservation Commission		VOCs - Volatile Organic Compounds		
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels		
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels		
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics		
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics		
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics		
SAR = Sodium Adsoption Ratio				
Notes:				
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.				
Values presented in <b>BOLD</b> exceed COGCC Table 915-1 Regulatory Limits.				





## **ATTACHMENT A**

### **Photo Log**

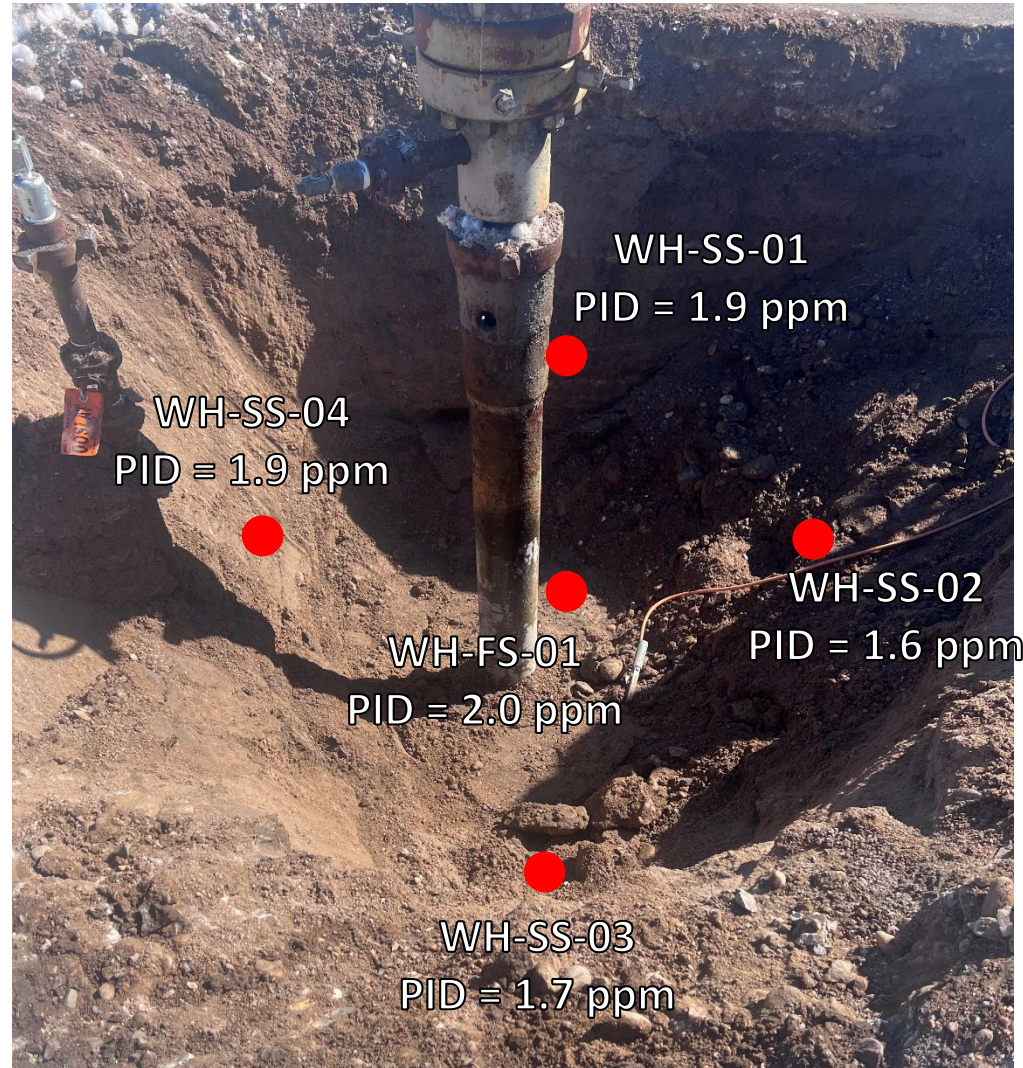
Webster B #6-7  
API # 05-123-24107  
Remediation # 22758

Closure Assessment

February 2023



## Wellhead Excavation – 02/17/23



Looking north

No petroleum hydrocarbon staining or odor observed



## **ATTACHMENT B**

### **Laboratory Analytical Report**





February 24, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Webster B #6-7

Project Number - [none]

Attached are your analytical results for Noble - Webster B #6-7 received by Origins Laboratory, Inc. February 17, 2023. This project is associated with Origins project number Y302358-01.

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 - Webster B #6-7

### CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y302358-01	Soil	February 17, 2023 12:23	02/17/2023 13:57

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 - Webster B #6-7

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: 4302358

Client: Eagle

Client Project ID: Webster B #6-7

Checklist Completed by: EHS

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

Date/time completed: 2/17/23

Airbill #: NA

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

Cooler Number/Temperature: 1 1.8 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T004

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

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

Reviewed by (Project Manager) [Signature]

2/17/23  
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

WH-FS-01@6'

2/17/2023 12:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y302358-01 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	ND	0.0993	mg/L	1	B3B2006	02/20/2023	02/21/2023	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3B2002	02/20/2023	02/21/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	89.7 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3B2126	02/21/2023	02/22/2023	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	102 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

WH-FS-01@6'

2/17/2023 12:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y302358-01 (Soil)

## GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B3B21 26	02/21/2023	02/22/2023	
Surrogate: 4-Bromofluorobenzene	92.8 %		70-130			"	"	"	

## Metals by Saturated Paste by EPA 6010

Calcium	0.936		0.499	meq/L	10	[CALC]	02/21/2023	02/22/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

## PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L665507	02/22/2023	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	0.000407	0.000394	0.00067	"	"	"	"	"	J

Origins Laboratory, Inc.



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

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

WH-FS-01@6'

2/17/2023 12:23:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.  
Y302358-01 (Soil)

## PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L665507	02/22/2023	02/22/2023
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	56.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	59.5 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	59.2 %	29-110	"	"	"

## pH in Soil by 9045D

pH	8.13	pH Units	1	B3B2111	02/21/2023	02/22/2023
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## SAR by 20B Saturated Paste

SAR	0.210	SAR	1	B3B2105	02/21/2023	02/22/2023
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## Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.246	0.00500	mmhos/cm	1	B3B2111	02/21/2023	02/22/2023
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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 - Webster B #6-7

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 B3B2002 - EPA 3580										
Blank (B3B2002-BLK1)					Prepared: 02/20/2023 Analyzed: 02/20/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		103	50-150			

Origins Laboratory, Inc.



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8000 W 44th Ave  
Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

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 B3B2002 - EPA 3580										
LCS (B3B2002-BS1)					Prepared: 02/20/2023 Analyzed: 02/20/2023					
Diesel (C10-C28)	1120	50.0	mg/kg	1000		112	70-130			
Residual Range Organics (C28-C40)	1170	200	"	1000		117	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	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 - Webster B #6-7

## 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 B3B2002 - EPA 3580

Matrix Spike (B3B2002-MS1)		Source: Y302356-01			Prepared: 02/20/2023 Analyzed: 02/21/2023					
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1030	200	"	1000	ND	103	70-130			
Surrogate: o-Terphenyl	46		"	49.8		92.0	50-150			

Origins Laboratory, Inc.



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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

## 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 B3B2002 - EPA 3580										
Matrix Spike Dup (B3B2002-MSD1)		Source: Y302356-01			Prepared: 02/20/2023 Analyzed: 02/21/2023					
Diesel (C10-C28)	1050	50.0	mg/kg	1000	ND	105	70-130	3.40	35	
Residual Range Organics (C28-C40)	1100	200	"	1000	ND	110	70-130	5.84	35	
Surrogate: o-Terphenyl	47		"	49.8		95.2	50-150			

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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

## 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 B3B2126 - EPA 5030 (soil)										
Blank (B3B2126-BLK1)					Prepared: 02/21/2023 Analyzed: 02/22/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		91.9	70-130			

Origins Laboratory, Inc.



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Project Number: [none]  
Project: Noble - Webster B #6-7

**Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control**  
**Origins Laboratory, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2126 - EPA 5030 (soil)</b>										
<b>LCS (B3B2126-BS1)</b>					Prepared: 02/21/2023 Analyzed: 02/22/2023					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.106	0.00200	"	0.100		106	70-130			
Ethylbenzene	0.0984	0.00200	"	0.100		98.4	70-130			
Naphthalene	0.0960	0.00380	"	0.100		96.0	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

## 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 B3B2126 - EPA 5030 (soil)

Matrix Spike (B3B2126-MS1)		Source: Y302357-01			Prepared: 02/21/2023 Analyzed: 02/22/2023					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	0.00732	94.6	70-130			
1,3,5-Trimethylbenzene	0.0990	0.00200	"	0.100	0.00250	96.5	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0944	0.00200	"	0.100	0.00280	91.6	70-130			
Naphthalene	0.0973	0.00380	"	0.100	0.00304	94.3	70-130			
Toluene	0.0955	0.00200	"	0.100	0.00158	93.9	70-130			
o-Xylene	0.101	0.00200	"	0.100	0.00274	98.2	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	0.00384	95.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

## 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 B3B2126 - EPA 5030 (soil)										
Matrix Spike Dup (B3B2126-MSD1)			Source: Y302357-01		Prepared: 02/21/2023 Analyzed: 02/22/2023					
1,2,4-Trimethylbenzene	0.0936	0.00200	mg/kg	0.100	0.00732	86.3	70-130	8.47	20	
1,3,5-Trimethylbenzene	0.0928	0.00200	"	0.100	0.00250	90.3	70-130	6.47	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	2.52	20	
Ethylbenzene	0.0880	0.00200	"	0.100	0.00280	85.2	70-130	6.93	20	
Naphthalene	0.0993	0.00380	"	0.100	0.00304	96.2	70-130	1.99	20	
Toluene	0.0951	0.00200	"	0.100	0.00158	93.6	70-130	0.378	20	
o-Xylene	0.0964	0.00200	"	0.100	0.00274	93.6	70-130	4.62	20	
m,p-Xylene	0.184	0.00400	"	0.200	0.00384	90.3	70-130	5.51	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		95.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.6	70-130			

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

## 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 B3B2006 - DTPA Sorbitol Preparation

##### Blank (B3B2006-BLK1)

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron ND 0.100 mg/L

##### Duplicate (B3B2006-DUP1)

Source: Y302347-06

Prepared: 02/20/2023 Analyzed: 02/21/2023

Boron ND 0.0996 mg/L ND 50

#### Batch B3B2105 - Saturated Paste Metals

##### Blank (B3B2105-BLK1)

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

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

##### Duplicate (B3B2105-DUP1)

Source: Y302357-03

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

SAR 0.00 SAR 2.42 200 200

Calcium PPM 43.2 10.0 mg/L 43.4 0.286 50

Magnesium PPM 16.1 10.0 " 15.8 2.21 50

Sodium PPM 67.4 10.0 " 73.3 8.47 50

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B3B2111 - Saturated Paste pH/EC</b>										
<b>Blank (B3B2111-BLK1)</b>					Prepared: 02/21/2023 Analyzed: 02/22/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
<b>Duplicate (B3B2111-DUP1)</b>					<b>Source: Y302357-03</b> Prepared: 02/21/2023 Analyzed: 02/22/2023					
Specific Conductance (EC)	0.590	0.00500	mmhos/cm		0.565			4.33	25	
pH	7.89		pH Units		7.95			0.758	25	

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

**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 L665507 - 3550B**

MSD (L 89413-MSD-L665507)		Source: 89413			Prepared: 02/22/2023 Analyzed: 02/22/2023					
2-Methylnaphthalene	0.0896	0.00201	mg/Kg	0.165	<0.00194	54.3	30-130	4.3	30	
Fluorene	0.0988	0.00067	"	0.165	<0.000286	59.8	30-130	1.2	30	
Pyrene	0.105	0.00067	"	0.165	<0.000643	63.6	30-130	2.8	30	
Indeno(1,2,3-cd)pyrene	0.128	0.00067	"	0.165	<0.000627	77.5	30-130	6	30	
Fluoranthene	0.105	0.00067	"	0.165	<0.000394	63.6	30-130	2.8	30	
Dibenz(a,h)anthracene	0.141	0.00067	"	0.165	<0.000614	85.4	30-130	9.4	30	
Chrysene	0.0999	0.00067	"	0.165	<0.000624	60.5	30-130	4.6	30	
Naphthalene	0.0881	0.00201	"	0.165	<0.00145	53.3	30-130	4.1	30	
1-Methylnaphthalene	0.093	0.00201	"	0.165	<0.00109	56.3	30-130	4.7	30	
Benzo(k)fluoranthene	0.0907	0.00067	"	0.165	<0.000437	54.9	30-130	15	30	
Acenaphthene	0.0973	0.00067	"	0.165	<0.000304	58.9	30-130	2.9	30	
Anthracene	0.102	0.00067	"	0.165	<0.000334	61.8	30-130	2.7	30	
Benzo(a)anthracene	0.101	0.00067	"	0.165	<0.000493	61.2	30-130	0	30	
Benzo(a)pyrene	0.109	0.00067	"	0.165	<0.000468	66	30-130	0	30	
Benzo(b)fluoranthene	0.0855	0.00067	"	0.165	<0.000585	51.8	30-130	0.1	30	
Surrogate: 2-Fluorobiphenyl	50		"	0.33	169	50	33-115			
Surrogate: Nitrobenzene-d5	55.7		"	0.33	201	55.7	29-110			
Surrogate: 4-Terphenyl-d14	65.4		"	0.33	221	65.4	33-122			

MS (L 89413-MS-L665507)		Source: 89413			Prepared: 02/22/2023 Analyzed: 02/22/2023					
Benzo(k)fluoranthene	0.078	0.00067	mg/Kg	0.164	<0.000437	47.5	30-130			
Acenaphthene	0.0945	0.00067	"	0.164	<0.000304	57.6	30-130			
Naphthalene	0.0845	0.00201	"	0.164	<0.00145	51.5	30-130			
Indeno(1,2,3-cd)pyrene	0.136	0.00067	"	0.164	<0.000627	82.9	30-130			
Fluorene	0.0976	0.00067	"	0.164	<0.000286	59.5	30-130			
Fluoranthene	0.102	0.00067	"	0.164	<0.000394	62.1	30-130			
Dibenz(a,h)anthracene	0.155	0.00067	"	0.164	<0.000614	94.5	30-130			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

**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 L665507 - 3550B**

MS (L 89413-MS-L665507)		Source: 89413			Prepared: 02/22/2023 Analyzed: 02/22/2023					
Chrysene	0.0954	0.00067	mg/Kg	0.164	<0.000624	58.1	30-130			
1-Methylnaphthalene	0.0887	0.00201	"	0.164	<0.00109	54	30-130			
Benzo(a)pyrene	0.109	0.00067	"	0.164	<0.000468	66.4	30-130			
Anthracene	0.0992	0.00067	"	0.164	<0.000334	60.4	30-130			
Pyrene	0.102	0.00067	"	0.164	<0.000643	62.1	30-130			
2-Methylnaphthalene	0.0858	0.00201	"	0.164	<0.00194	52.3	30-130			
Benzo(b)fluoranthene	0.0854	0.00067	"	0.164	<0.000585	52	30-130			
Benzo(a)anthracene	0.101	0.00067	"	0.164	<0.000493	61.5	30-130			
Surrogate: Nitrobenzene-d5	55.6		"	0.329	201	55.6	29-110			
Surrogate: 4-Terphenyl-d14	64.7		"	0.329	221	64.7	33-122			
Surrogate: 2-Fluorobiphenyl	48.9		"	0.329	169	48.9	33-115			

LCS (LCS-L665507)		Prepared: 02/22/2023 Analyzed: 02/22/2023								
Chrysene	0.104	0.00067	mg/Kg	0.167		62.2	30-130			
Dibenz(a,h)anthracene	0.142	0.00067	"	0.167		85	30-130			
Fluoranthene	0.11	0.00067	"	0.167		65.8	30-130			
Fluorene	0.102	0.00067	"	0.167		61	30-130			
Indeno(1,2,3-cd)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Naphthalene	0.0915	0.00201	"	0.167		54.7	30-130			
Benzo(k)fluoranthene	0.0883	0.00067	"	0.167		52.8	30-130			
Pyrene	0.11	0.00067	"	0.167		65.8	30-130			
Benzo(a)pyrene	0.113	0.00067	"	0.167		67.6	30-130			
Benzo(a)anthracene	0.107	0.00067	"	0.167		64	30-130			
Anthracene	0.107	0.00067	"	0.167		64	30-130			
Acenaphthene	0.0979	0.00067	"	0.167		58.6	30-130			
2-Methylnaphthalene	0.0923	0.00201	"	0.167		55.2	30-130			
1-Methylnaphthalene	0.0954	0.00201	"	0.167		57.1	30-130			

Origins Laboratory, Inc.



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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

**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 L665507 - 3550B**

**LCS (LCS-L665507)**

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

Benzo(b)fluoranthene	0.0905	0.00067	mg/Kg	0.167		54.1	30-130			
Surrogate: Nitrobenzene-d5	64.5		"	0.333		64.5	29-110			
Surrogate: 4-Terphenyl-d14	75.3		"	0.333		75.3	33-122			
Surrogate: 2-Fluorobiphenyl	55.5		"	0.333		55.5	33-115			

**LRB (LRB-L665507)**

Prepared: 02/22/2023 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	"				-			
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	72.9		"	0.333		72.9	33-122			
Surrogate: 2-Fluorobiphenyl	53.7		"	0.333		53.7	33-115			

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Martin C Eckert III  
Project Number: [none]  
Project: Noble - Webster B #6-7

### Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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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