

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure <u> </u>		Partially Buried Vault Closure <u> </u>
Site Name & COGCC Facility Number: Timmerman #23-12		Date: 06/28/23					Remediation Project #: 29530	
Associated Wells: 05-123-22761		Age of Site: years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)							40.310575 / -104.612753	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Good condition								
USCS Soil Type: Clayey Sand					Estimated Depth to Groundwater: ~15-20'			
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	05-123-22761							
Age	years							
Condition of surface around wellhead	Good - No odor/no staining							
PID Readings								
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	1.0	1.9	1.2	1.1	3.3	1.5		
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01	Background-01		
Photo Number(s)	See photo log							
Other observations regarding wellheads:								
Summary								
Was impacted soil identified?								
<input checked="" type="radio"/> 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: 3.3				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="radio"/> 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:								

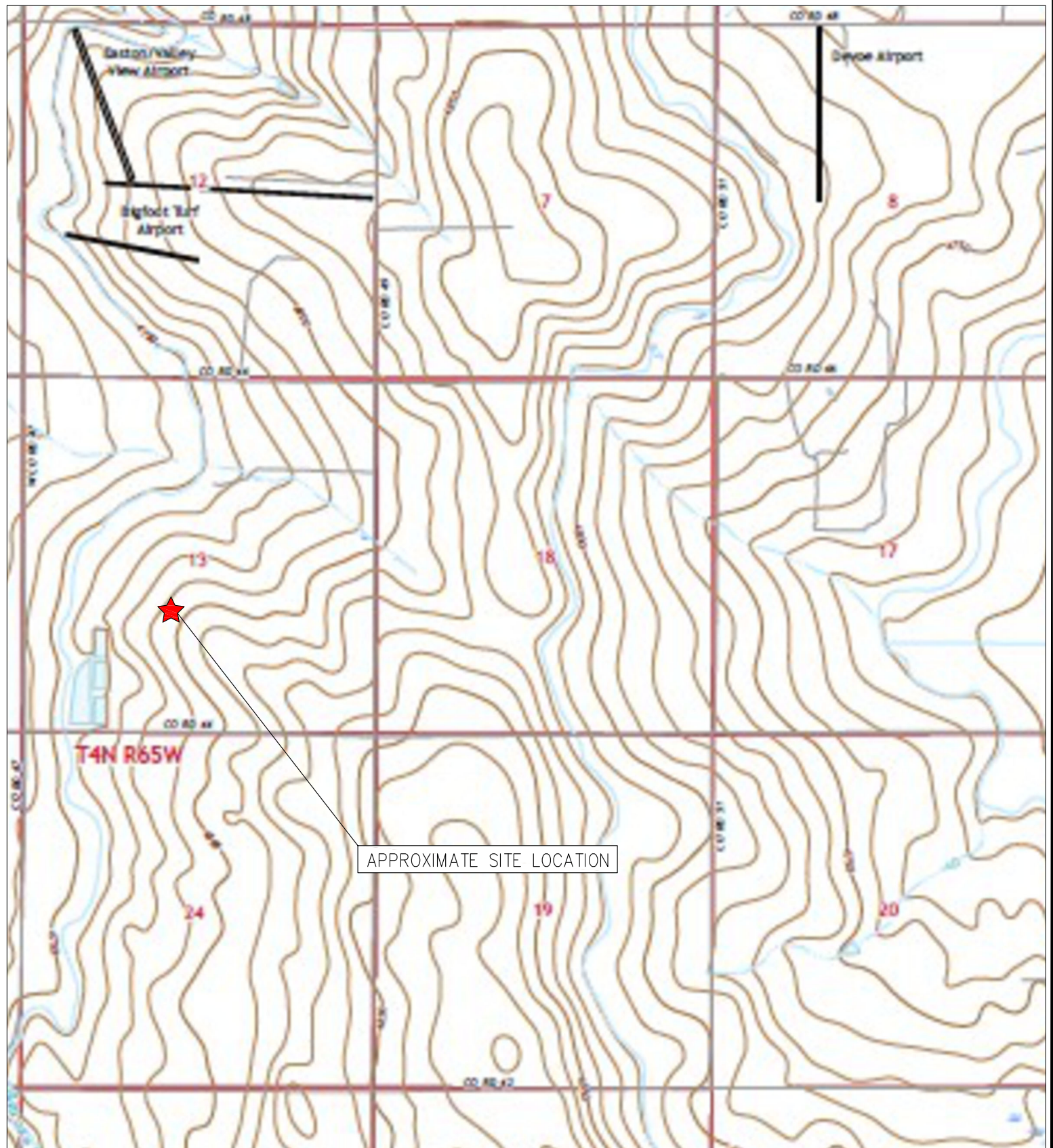


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 TIMMERMAN #23-13
 CLOSURE ASSESSMENT
 40.310575 / -104.612753
 NE¼ SW¼ SEC.13 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-22761
 REMEDIATION # 29530



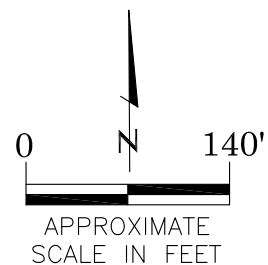
EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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



LEGEND

- FORMER TIMMERMAN #23-13 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

TIMMERMAN #23-13
CLOSURE ASSESSMENT
40.310575 / -104.612753
NE¼ SW¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-22761
REMEDATION # 29530

FIGURE NO.
2

DRAWN BY:
JF



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)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

BRL = 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

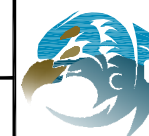
NOTES:
VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS

ECMC = ENERGY & CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
TIMMERMAN #23-13
CLOSURE ASSESSMENT
40.310575 / -104.612753
NE¼ SW¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-22761
REMEDATION # 29530

FIGURE NO.
3

DRAWN BY:
JF



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
TIMMERMAN #23-13
CLOSURE ASSESSMENT
40.310575 / -104.612753
NE¼ SW¼ SEC.12 T4N R64S 6PM
WELD COUNTY, COLORADO
API # 05-123-22761
REMEDATION # 29530

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 6' (40.310585 / -104.612764)	06/28/23	6	1.0	N
WH-SS-02 @ 6' (40.310579 / -104.612755)	06/28/23	6	1.9	N
WH-SS-03 @ 6' (40.310569 / -104.612764)	06/28/23	6	1.2	N
WH-SS-04 @ 6' (40.310578 / -104.612778)	06/28/23	6	1.1	N
WH-FS-01 @ 7' (40.310577 / -104.612763)	06/28/23	7	3.3	Y
Background-01 @ 2' (40.310535 / -104.612715)	06/28/23	2	1.5	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
TIMMERMAN #23-13
CLOSURE ASSESSMENT
40.310575 / -104.612753
NE¼ SW¼ SEC.13 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-22761
REMEDATION # 29530

Sample Location				WH-FS-01 @ 7'		Background-01 @ 2'	
(Latitude / Longitude)				(40.310577 / -104.612763)		(40.310535 / -104.612715)	
Sample Date				6/28/2023		6/28/2023	
Sample Depth				7'		2'	
PID Reading (ppm-v)				3.3		1.5	
Regulatory Limits							
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs	Local Clean-Up Level			
VOCs							
Benzene	mg/kg	1.2	0.0026	--	<0.00200	NA	
Toluene	mg/kg	490	0.69	--	<0.00200	NA	
Ethylbenzene	mg/kg	5.8	0.78	--	<0.00200	NA	
Total Xylenes	mg/kg	58	9.9	--	<0.00200	NA	
Naphthalene	mg/kg	2	0.0038	--	<0.00380	NA	
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	--	<0.00200	NA	
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	--	<0.00200	NA	
TOTAL PETROLEUM HYDROCARBONS							
TPH-GRO	mg/kg	500	--	--	<0.200	NA	
TPH-DRO	mg/kg		--	--	<25.0	NA	
TPH-RRO	mg/kg		--	--	<100	NA	
POLYCYCLIC AROMATIC HYDROCARBONS							
1-Methyl-naphthalene	mg/kg	18	0.006	--	<0.002	NA	
2-Methyl-naphthalene	mg/kg	24	0.019	--	<0.002	NA	
Acenaphthene	mg/kg	360	0.55	--	<0.020	NA	
Anthracene	mg/kg	1800	5.8	--	<0.020	NA	
Benzo(a)-anthracene	mg/kg	1.1	0.011	--	<0.005	NA	
Benzo(a)-pyrene	mg/kg	0.11	0.24	--	<0.002	NA	
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	--	<0.002	NA	
Benzo(k)-fluoranthene	mg/kg	11	2.9	--	<0.002	NA	
Chrysene	mg/kg	110	9	--	<0.002	NA	
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	--	<0.002	NA	
Fluoranthene	mg/kg	240	8.9	--	<0.002	NA	
Fluorene	mg/kg	240	0.54	--	<0.002	NA	
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	--	<0.002	NA	
Pyrene	mg/kg	180	1.3	--	<0.020	NA	
SOIL SUITABILITY (Inorganics)							
Boron	mg/L	2	--	--	0.521	NA	
pH	standard unit	6-8.3	--	9.48	8.47 (8.39 / 8.33)	7.90	
Sodium Adsorption Ratio (SAR)	--	<6	--	--	3.32	NA	
Specific Conductance (EC)	mmhos/cm	<4	--	--	2.300	NA	
ECMC = Energy & Carbon Management Commission		NA - Not Analyzed		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. Values presented with asterisk (*) exceed ECMC Table 915-1 GSSLs, only.							
Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.							



ATTACHMENT A

Photo Log

Timmerman #23-13

API # 05-123-22761

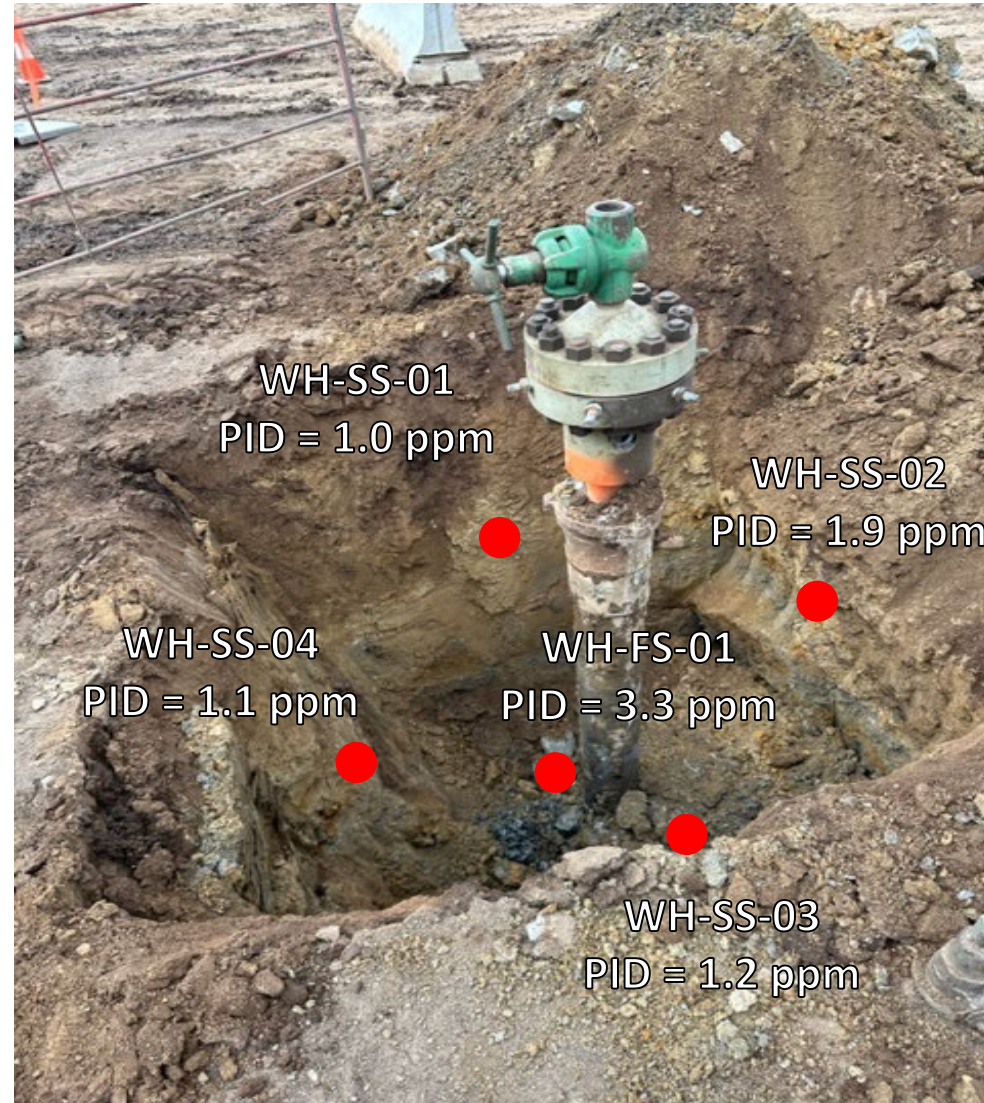
Remediation # 29530

Closure Assessment

June 2023



Wellhead Excavation – 06/28/23



Looking north

No petroleum hydrocarbon staining or odor observed



ATTACHMENT

Laboratory Analytical Data



July 19, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Timmerman 23-13

Project Number - [none]

Attached are your analytical results for Noble - Timmerman 23-13 received by Origins Laboratory, Inc. July 11, 2023. This project is associated with Origins project number Y307202-01.

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 - Timmerman 23-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y307202-01	Soil	June 28, 2023 9:35	07/11/2023 16:00

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 - Timmerman 23-13

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Client: Engle Env. Consulting

Address: 8000 W 44th Ave

Wentworth Ridge, CO 80033

303-433-0439

Telephone Number: _____

Email Address: mic3e@eng-e.com

Project Manager: Martin Eckert III

Project Name: Timmerman #23-13

Project Number: _____

Samples Collected By: KM

page _____ of _____

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summer #	Other	Fe	Co	As	
Background - @ 2'	6/28/23	0935	1	X					X						Saturated paste prep
															2
															3
															4
															5
															6
															7
															8
															9
															10

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>Garrett</u>	<u>7/11/23</u>	<u>1600</u>	<u>[Signature]</u>	<u>7/11/23</u>	<u>1600</u>	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:	48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/>
						Standard <input checked="" type="checkbox"/>

Fax: 303.265.9645

Phone: 303.433.1322

Denver, CO 80211

1725 Elk Place

Bill to Cole

Temp Received: 3

Date Results Needed

11/23

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: UB07202 Client: Eagle
Client Project ID: Timmerman #23-13

Checklist Completed by: TSE/CHS Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
Date/time completed: 7/12/23 Airbill #: N/A

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

Cooler Number/Temperature: 1, 3 °C 1 °C 1 °C 1 °C
Thermometer ID: TOOH

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

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

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 7/13/23

Origins Laboratory, Inc.

[Signature]

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

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Timmerman 23-13

Background-01@2'

6/28/2023 9:35:00AM

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

Origins Laboratory, Inc.
Y307202-01 (Soil)

pH in Soil by 9045D

pH	7.90	pH Units	1	B3G1508	ACN	07/15/2023	07/16/2023
----	------	----------	---	---------	-----	------------	------------

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 - Timmerman 23-13

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch B3G1508 - Saturated Paste pH/EC

Duplicate (B3G1508-DUP1)		Source: Y307202-01			Prepared: 07/15/2023 Analyzed: 07/16/2023					
pH	7.89		pH Units		7.90			0.127	25	

Origins Laboratory, Inc.



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

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Timmerman 23-13

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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



July 14, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Timmerman 23-13

Project Number - [none]

Attached are your analytical results for Noble - Timmerman 23-13 received by Origins Laboratory, Inc. June 28, 2023. This project is associated with Origins project number Y306815-01.

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.

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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 - Timmerman 23-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@7'	Y306815-01	Soil	June 28, 2023 9:33	06/28/2023 17:15

A pH rerun was requested per Grace's email on 07/10/2023. No errors were found in the original data, all three results are reported. JAB

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 - Timmerman 23-13

Origins Laboratory

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

Origins Work Order: Y306815

Client: Eagle

Client Project ID: Timmerman 23-13

Checklist Completed by: EHS

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

Date/time completed: 6/29/23

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 10 °C 1 / _____ °C 1 / _____ °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⁾ ?		<input checked="" type="checkbox"/>		<u>SD</u>
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 analytes 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: db (Project Manager)

Date/Time Reviewed: 7-10-23

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 - Timmerman 23-13

WH-FS-01@7'
6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.521	0.101	mg/L	1	B3G0304	07/03/2023	07/05/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3F3001	06/30/2023	07/04/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	95.5 %	50-150	"	"	"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3F3042	06/30/2023	07/05/2023	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

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 - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130	B3F30 42	06/30/2023	07/05/2023
Surrogate: Toluene-d8	90.1 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	77.3 %	70-130	"	"	"

Metals by Saturated Paste by EPA 6010

Calcium	4.00	0.499	meq/L	10	[CALC]	06/30/2023	07/03/2023
Magnesium	6.91	0.823	"	"	"	"	"
Sodium	7.75	0.435	"	"	"	"	"

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L691186	07/06/2023	07/06/2023
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	"	"	"	"	"

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 - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y306815-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L691186	07/06/2023	07/06/2023
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	48.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	49.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	40.7 %	29-110	"	"	"

pH in Soil by 9045D

pH	8.47	pH Units	1	B3F3015	06/30/2023	07/01/2023
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SAR by 20B Saturated Paste

SAR	3.32	SAR	1	B3F3007	06/30/2023	07/03/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.30	0.00500	mmhos/cm	1	B3F3015	06/30/2023	07/01/2023
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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 - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01RE1 (Soil)

pH in Soil by 9045D

pH	8.39			pH Units	1	B3G1116	06/30/2023	07/12/2023	
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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 - Timmerman 23-13

WH-FS-01@7'

6/28/2023 9:33:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y306815-01RE2 (Soil)

pH in Soil by 9045D

pH	8.33			pH Units	1	B3G1116	06/30/2023	07/12/2023	
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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 - Timmerman 23-13

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 B3F3001 - EPA 3550B										
Blank (B3F3001-BLK1)					Prepared: 06/30/2023 Analyzed: 07/03/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	26		"	24.9		105	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 - Timmerman 23-13

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 B3F3001 - EPA 3550B

LCS (B3F3001-BS1)

Prepared: 06/30/2023 Analyzed: 07/03/2023

Diesel (C10-C28)	1010	50.0	mg/kg	1000		101	70-130			
Residual Range Organics (C28-C40)	1220	200	"	1000		122	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	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 - Timmerman 23-13

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 B3F3001 - EPA 3550B

Matrix Spike (B3F3001-MS1)		Source: Y306751-01			Prepared: 06/30/2023 Analyzed: 07/03/2023					
Diesel (C10-C28)	813	50.0	mg/kg	1000	ND	81.3	70-130			
Residual Range Organics (C28-C40)	999	200	"	1000	ND	99.9	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.8	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 - Timmerman 23-13

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 B3F3001 - EPA 3550B										
Matrix Spike Dup (B3F3001-MSD1)			Source: Y306751-01			Prepared: 06/30/2023 Analyzed: 07/03/2023				
Diesel (C10-C28)	968	50.0	mg/kg	1000	ND	96.8	70-130	17.5	35	
Residual Range Organics (C28-C40)	1210	200	"	1000	ND	121	70-130	18.9	35	
Surrogate: o-Terphenyl	51		"	49.8		103	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 - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)										
Blank (B3F3042-BLK1)					Prepared: 06/30/2023 Analyzed: 07/05/2023					
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	0.13		"	0.125	104		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	88.2		70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125	80.5		70-130			

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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 - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)										
LCS (B3F3042-BS1)					Prepared: 06/30/2023 Analyzed: 07/05/2023					
1,2,4-Trimethylbenzene	0.0905	0.00200	mg/kg	0.100		90.5	70-130			
1,3,5-Trimethylbenzene	0.0922	0.00200	"	0.100		92.2	70-130			
Benzene	0.107	0.00200	"	0.100		107	70-130			
Ethylbenzene	0.0890	0.00200	"	0.100		89.0	70-130			
Naphthalene	0.0747	0.00380	"	0.100		74.7	70-130			
Toluene	0.0920	0.00200	"	0.100		92.0	70-130			
o-Xylene	0.0901	0.00200	"	0.100		90.1	70-130			
m,p-Xylene	0.181	0.00400	"	0.200		90.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.7	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 - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)										
Matrix Spike (B3F3042-MS1)		Source: Y306805-01			Prepared: 06/30/2023 Analyzed: 07/05/2023					
1,2,4-Trimethylbenzene	0.0893	0.00200	mg/kg	0.100	ND	89.3	70-130			
1,3,5-Trimethylbenzene	0.0884	0.00200	"	0.100	ND	88.4	70-130			
Benzene	0.0900	0.00200	"	0.100	ND	90.0	70-130			
Ethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
Naphthalene	0.0756	0.00380	"	0.100	ND	75.6	70-130			
Toluene	0.0836	0.00200	"	0.100	ND	83.6	70-130			
o-Xylene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
m,p-Xylene	0.175	0.00400	"	0.200	ND	87.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.0	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		91.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.2	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 - Timmerman 23-13

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 B3F3042 - EPA 5030 (soil)										
Matrix Spike Dup (B3F3042-MSD1)			Source: Y306805-01		Prepared: 06/30/2023 Analyzed: 07/05/2023					
1,2,4-Trimethylbenzene	0.0850	0.00200	mg/kg	0.100	ND	85.0	70-130	4.98	20	
1,3,5-Trimethylbenzene	0.0848	0.00200	"	0.100	ND	84.8	70-130	4.16	20	
Benzene	0.0888	0.00200	"	0.100	ND	88.8	70-130	1.36	20	
Ethylbenzene	0.0791	0.00200	"	0.100	ND	79.1	70-130	6.77	20	
Naphthalene	0.0805	0.00380	"	0.100	ND	80.5	70-130	6.36	20	
Toluene	0.0773	0.00200	"	0.100	ND	77.3	70-130	7.78	20	
o-Xylene	0.0828	0.00200	"	0.100	ND	82.8	70-130	5.04	20	
m,p-Xylene	0.161	0.00400	"	0.200	ND	80.6	70-130	7.92	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		85.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		87.7	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 - Timmerman 23-13

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 B3F3007 - Saturated Paste Metals

Blank (B3F3007-BLK1)

Prepared: 06/30/2023 Analyzed: 07/03/2023

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

Duplicate (B3F3007-DUP1)

Source: Y306805-01

Prepared: 06/30/2023 Analyzed: 07/03/2023

SAR	0.00		SAR	1.92	200	200
Calcium PPM	17.2	10.0	mg/L	20.0	15.4	50
Magnesium PPM	4.83	10.0	"	5.44	11.9	50
Sodium PPM	36.0	10.0	"	37.5	4.22	50

Batch B3G0304 - DTPA Sorbitol Preparation

Blank (B3G0304-BLK1)

Prepared: 07/03/2023 Analyzed: 07/05/2023

Boron	ND	0.100	mg/L
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Duplicate (B3G0304-DUP1)

Source: Y306809-01

Prepared: 07/03/2023 Analyzed: 07/05/2023

Boron	0.376	0.0994	mg/L	0.407	7.81	50
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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 - Timmerman 23-13

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3F3015 - Saturated Paste pH/EC										
Blank (B3F3015-BLK1)					Prepared: 06/30/2023 Analyzed: 07/01/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3F3015-DUP1)					Source: Y306805-01 Prepared: 06/30/2023 Analyzed: 07/01/2023					
Specific Conductance (EC)	0.292	0.00500	mmhos/cm		0.301			3.17	25	
pH	8.41		pH Units		8.43			0.238	25	
Batch B3G1116 - Saturated Paste pH/EC										
Duplicate (B3G1116-DUP1)					Source: Y307143-01 Prepared: 07/11/2023 Analyzed: 07/12/2023					
pH	7.36		pH Units		7.56			2.68	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 - Timmerman 23-13

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 L691186 - 3550B

MSD (L 94678-MSD-L691186)		Source: 94678			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Fluoranthene	0.0833	0.00067	mg/Kg	0.164	<0.000394	50.7	30-130	12.8	30	
Pyrene	0.0802	0.00067	"	0.164	<0.000643	48.9	30-130	9.7	30	
Fluorene	0.106	0.00067	"	0.164	<0.000286	64.6	30-130	7.2	30	
Dibenz(a,h)anthracene	0.114	0.00067	"	0.164	<0.000614	69.5	30-130	3.4	30	
Chrysene	0.0961	0.00067	"	0.164	<0.000624	58.5	30-130	12.5	30	
Acenaphthene	0.0963	0.00067	"	0.164	<0.000304	58.7	30-130	5.7	30	
1-Methylnaphthalene	0.0919	0.00201	"	0.164	<0.00109	56	30-130	4.6	30	
Indeno(1,2,3-cd)pyrene	0.0724	0.00067	"	0.164	0.000638	43.7	30-130	9.7	30	
Benzo(k)fluoranthene	0.067	0.00067	"	0.164	<0.000437	40.8	30-130	29.8	30	
Anthracene	0.103	0.00067	"	0.164	<0.000334	62.8	30-130	9.2	30	
Benzo(a)anthracene	0.0949	0.00067	"	0.164	<0.000493	57.8	30-130	4.6	30	
Benzo(a)pyrene	0.108	0.00067	"	0.164	<0.000468	65.8	30-130	3.6	30	
Benzo(b)fluoranthene	0.0639	0.00067	"	0.164	<0.000585	38.9	30-130	10.5	30	
2-Methylnaphthalene	0.0954	0.00201	"	0.164	<0.00194	58.1	30-130	4.2	30	
Surrogate: 2-Fluorobiphenyl	51		"	0.329	180	51	33-115			
Surrogate: Nitrobenzene-d5	41		"	0.329	148	41	29-110			
Surrogate: 4-Terphenyl-d14	44.6		"	0.329	163	44.6	33-122			

MS (L 94678-MS-L691186)		Source: 94678			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Dibenz(a,h)anthracene	0.118	0.00067	mg/Kg	0.166	<0.000614	71	30-130			
Pyrene	0.0884	0.00067	"	0.166	<0.000643	53.2	30-130			
Indeno(1,2,3-cd)pyrene	0.0798	0.00067	"	0.166	0.000638	47.6	30-130			
Fluorene	0.114	0.00067	"	0.166	<0.000286	68.6	30-130			
Fluoranthene	0.0947	0.00067	"	0.166	<0.000394	57	30-130			
2-Methylnaphthalene	0.0995	0.00201	"	0.166	<0.00194	59.9	30-130			
Benzo(k)fluoranthene	0.0905	0.00067	"	0.166	<0.000437	54.5	30-130			
Benzo(b)fluoranthene	0.071	0.00067	"	0.166	<0.000585	42.7	30-130			

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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 - Timmerman 23-13

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 L691186 - 3550B

MS (L 94678-MS-L691186)		Source: 94678			Prepared: 07/06/2023 Analyzed: 07/06/2023					
Benzo(a)pyrene	0.112	0.00067	mg/Kg	0.166	<0.000468	67.4	30-130			
Benzo(a)anthracene	0.0994	0.00067	"	0.166	<0.000493	59.8	30-130			
Acenaphthene	0.102	0.00067	"	0.166	<0.000304	61.4	30-130			
Chrysene	0.109	0.00067	"	0.166	<0.000624	65.6	30-130			
Anthracene	0.113	0.00067	"	0.166	<0.000334	68	30-130			
1-Methylnaphthalene	0.0963	0.00201	"	0.166	<0.00109	58	30-130			
Surrogate: 4-Terphenyl-d14	47.8		"	0.332	163	47.8	33-122			
Surrogate: Nitrobenzene-d5	40.3		"	0.332	148	40.3	29-110			
Surrogate: 2-Fluorobiphenyl	50.3		"	0.332	180	50.3	33-115			

LCS (LCS-L691186)		Prepared: 07/06/2023 Analyzed: 07/06/2023								
Fluoranthene	0.1	0.00067	mg/Kg	0.167		59.8	30-130			
Fluorene	0.111	0.00067	"	0.167		66.4	30-130			
Pyrene	0.0964	0.00067	"	0.167		57.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0954	0.00067	"	0.167		57.1	30-130			
1-Methylnaphthalene	0.0913	0.00201	"	0.167		54.6	30-130			
Dibenz(a,h)anthracene	0.134	0.00067	"	0.167		80.2	30-130			
Benzo(k)fluoranthene	0.0864	0.00067	"	0.167		51.7	30-130			
Benzo(b)fluoranthene	0.0745	0.00067	"	0.167		44.6	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Benzo(a)anthracene	0.104	0.00067	"	0.167		62.2	30-130			
Anthracene	0.116	0.00067	"	0.167		69.4	30-130			
Acenaphthene	0.0963	0.00067	"	0.167		57.6	30-130			
2-Methylnaphthalene	0.0947	0.00201	"	0.167		56.7	30-130			
Chrysene	0.115	0.00067	"	0.167		68.8	30-130			
Surrogate: Nitrobenzene-d5	42.9		"	0.333		42.9	29-110			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

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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
Batch L691186 - 3550B										
LCS (LCS-L691186)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
Surrogate: 4-Terphenyl-d14	56.1		mg/Kg	0.333		56.1	33-122			
LRB (LRB-L691186)					Prepared: 07/06/2023 Analyzed: 07/06/2023					
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	"				-			
2-Methylnaphthalene	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	"				-			
Anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	29.5		"	0.333		29.5	29-110			
Surrogate: 4-Terphenyl-d14	36.6		"	0.333		36.6	33-122			
Surrogate: 2-Fluorobiphenyl	34.2		"	0.333		34.2	33-115			

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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.

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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