

# **FREMONT ENVIRONMENTAL INC.**

May 20, 2022

Ms. Erica Zuniga  
Noble Energy Inc.  
2115 117<sup>th</sup> Avenue  
Greeley, CO 80634

Subject:           **Facility Closure Data Submittal**  
Rumsey 3-12i6 Facility and Flowline  
API # 05-123-17985  
NWSW Sec 3, T4N, R66W  
Weld County, Colorado  
Fremont Project No. C022-018  
Facility #329883, Remediation #20602 (Flowline), #20610 (Facility)

Dear Ms. Zuniga:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Facility Closure tasks for the Noble Energy Inc. (Noble) Rumsey 3-12i6 tank battery and flowline. Impacted soil and groundwater were not encountered during the facility closure process. Details of the facility removal activities are documented in the attached Closure Report.

Please contact me at (303) 956-8714 if you require any additional information. Fremont appreciates the opportunity to provide this service.

Sincerely,

**FREMONT ENVIRONMENTAL INC.**



Paul V. Henehan, P.E.  
Senior Consultant

Attachments:

Facility Closure Checklist  
Tables  
Figures  
Photos  
Laboratory Report

**1759 REDWING LANE, BROOMFIELD, CO 80020  
(303) 956-8714 (DIRECT)**

# Tank Battery Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Rumsey 3-12i6, #329883		Date:						Remediation Project #: 20610
Associated Wells:		Age of Site:						Number of Photos Attached: 8
Location: (GPS coordinates of southeaster berm)								Estimated Facility Size (acres): ~ 1 ac
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
<b>Tanks</b>								
Tank Contents								
Size (barrels)								
Age								
Construction Material								
Tank type (AST/DRU, etc.)								
Visual Integrity of Tank								
Condition of tank footprint								
PID Readings								
Soil impacts present at valves or hatches?								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding tanks:								
<b>Separators</b>								
Separator size								
Vertical or Horizontal								
Age								
Soil impacts								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding separators								
<b>Third Party Equipment</b>								
Type								
Age								

Third Party														
Removal Date														
Sample taken?														
PID Readings														
Photo Number(s)														
<b>Other Facility Equipment</b>														
Equipment type														
Equipment Condition														
Age														
Soil impacts														
PID Readings														
Sample taken?														
Photo Number(s)														
Other observations regarding other facility or third party equipment:														
<b>Summary</b>														
Was impacted soil identified?														
<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards														
Total number of samples field screened:					Total number of samples collected:									
Highest PID Reading:					Total number of samples submitted to lab for analysis: 2									
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 type="checkbox"/> No <input checked="" type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils														
Measured depth to groundwater:					Was remedial groundwater removal conducted?    Yes <input checked="" type="checkbox"/> No									
Date Groundwater was encountered:					Commencement date of removal:									
Sheen on groundwater?                      Yes <input checked="" type="checkbox"/> 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: 1														

## Buried or Partially Buried Vessel Closure Checklist

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

Additional attachments (optional):		Pit Closure		Wellhead Closure		Flowline Closure		Tank Battery Closure
Site Name & COGCC Facility Number: Rumsey 3-12i6, #329883		Date:						Remediation Project #: 20610
Associated Wells:		Age of Site:						Number of Photos Attached: 8
Location: (GPS coordinates of vault or southeastern tank berm for multiple)								Estimated Facility Size (acres): ~ 1 ac
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
<b>Buried or Partially Buried Vessels</b>								
Tank Contents								
Size (barrels)								
Age								
Construction Material								
Visual Integrity of Tank								
Condition of tank Foundation								
PID Readings								
Condition of Access Line								
PID Readings								
Sample taken? Location/Sample ID#								
Photo Number(s)								
Other observations regarding partially buried vessels:								
<b>Summary</b>								
Was impacted soil identified? <div style="display: flex; justify-content: space-between;"> <span>X No</span> <span>Yes - less than 10 cubic yards</span> <span>Yes - more than 10 cubic yards</span> </div>								
Total number of samples field screened:					Total number of samples collected:			
Highest PID Reading:					Total number of samples submitted to lab for analysis: 2			
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? <div style="display: flex; justify-content: space-between;"> <span>No</span> <span>X Yes - not impacted or in contact with impacted soils</span> <span>Yes - groundwater impacted and/or in contact with impacted soils</span> </div>								
Measured depth to groundwater:					Was remedial groundwater removal conducted?    Yes    X No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater?                      Yes                      X 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: 1								

# Flowline Closure Checklist

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

Additional Attachments:		Tank Battery Closure		Wellhead Closure		Pit Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Rumsey 3-12i6, #329883		Date:						Remediation Project #: 20602
Associated Wells:		Age of Site:						Number of Photos Attached: 8
Starting point: (GPS coordinates and descriptions)								
End point: (GPS coordinates and descriptions)								
USCS Soil Type:					Estimated Depth to Groundwater:			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
Flowlines								
Flowline type								
Depth								
Age								
Length								
Construction Material								
Were flowlines pulled?								
Visual Integrity of lines								
Visual impacts if trenched								
PID Readings if trenched								
Sample taken? Location/Sample ID#								
Photo Number(s)								
Other observations regarding on location flowlines:								
Summary								
Was impacted soil identified? X No                      Yes - less than 10 cubic yards                      Yes - more than 10 cubic yards								
Total number of samples field screened:					Total number of samples collected:			
Highest PID Reading:					Total number of samples submitted to lab for analysis: 0			
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? No                      X 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                      X No			
Date Groundwater was encountered:					Commencement date of removal:			
Sheen on groundwater?                      Yes                      X No					Volume of groundwater removed prior to sampling:			
Free product observed?                      Yes                      X 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: 0								

**TABLE 1**  
**SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**RUMSEY 3-12I6 TANK BATTERY**  
**FREMONT PROJECT NO. C022-042**

Sample	Depth (ft)	Date Sampled	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl- Benzene (mg/kg)	1,3,5-Trimethyl- Benzene (mg/kg)	Naphth- alene (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
Flowline WH 3 Ft	3	4/19/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00335	<0.200	<25.0	<100
Separator 0.5 Ft	0.5	4/19/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
PWV N Wall 3 Ft	3	4/19/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
AST 0.5 Ft	0.5	4/19/2022	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.00067	<0.200	<25.0	<100
BG-1 2 Ft	2	4/19/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500	500
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500*	500*	500*

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

\* Summation of GRO+DRO+ORO must be less than 500 mg/kg

NA - Not analyzed

TABLE 2  
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
RUMSEY 3-1216 TANK BATTERY  
FREMONT PROJECT NO. C022-042

Sample	Depth (ft)	Date Sampled	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo (b) fluoranthene (mg/kg)	Benzo (k) fluoranthene (mg/kg)	Benzo (a) pyrene (mg/kg)	Chrysene (mg/kg)	Dibenz (a,h) anthracene (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Indeno pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
Flowline WH 3 Ft	3	4/19/2022	<0.00067	0.000433	0.00227	0.00239	0.00156	0.00369	0.00398	0.000806	0.00336	0.000289	0.00178	0.000618	0.000678	0.00466
Separator 0.5 Ft	0.5	4/19/2022	<0.00067	<0.00067	0.000968	0.00142	0.000841	0.00182	0.00146	<0.00067	0.00148	<0.00067	0.00111	<0.00067	<0.00067	0.00195
PWV N Wall 3 Ft	3	4/19/2022	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335	<0.00335
AST 0.5 Ft	0.5	4/19/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000433	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067
BG-1 2 Ft	2	4/19/2022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
COGCC Table 915-1 Limits (Residential SSL)			360	1800	1.1	1.1	11	0.11	110	0.11	240	240	1.1	18	24	180
COGCC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.3	2.9	0.24	9	0.096	8.9	0.54	0.98	0.006	0.019	1.3

Bold faced values exceed the COGCC Table 915-1 concentrations

Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3  
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA  
NOBLE ENERGY INC.  
FEIT MARLEY TANK BATTERY  
FREMONT PROJECT NO. C022-028

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
Flowline WH 3 Ft	4/19/2022	3	2.72	7.52	5.12	1.37
PWV N Wall 3Ft	4/19/2022	3	0.35	<b>9.10</b>	0.370	0.140
BG-1 2 Ft	4/19/2022	2	<b>4.28</b>	7.72	2.96	0.95
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

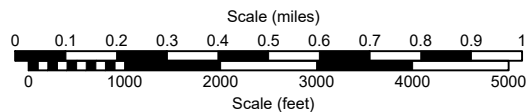
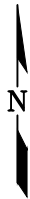
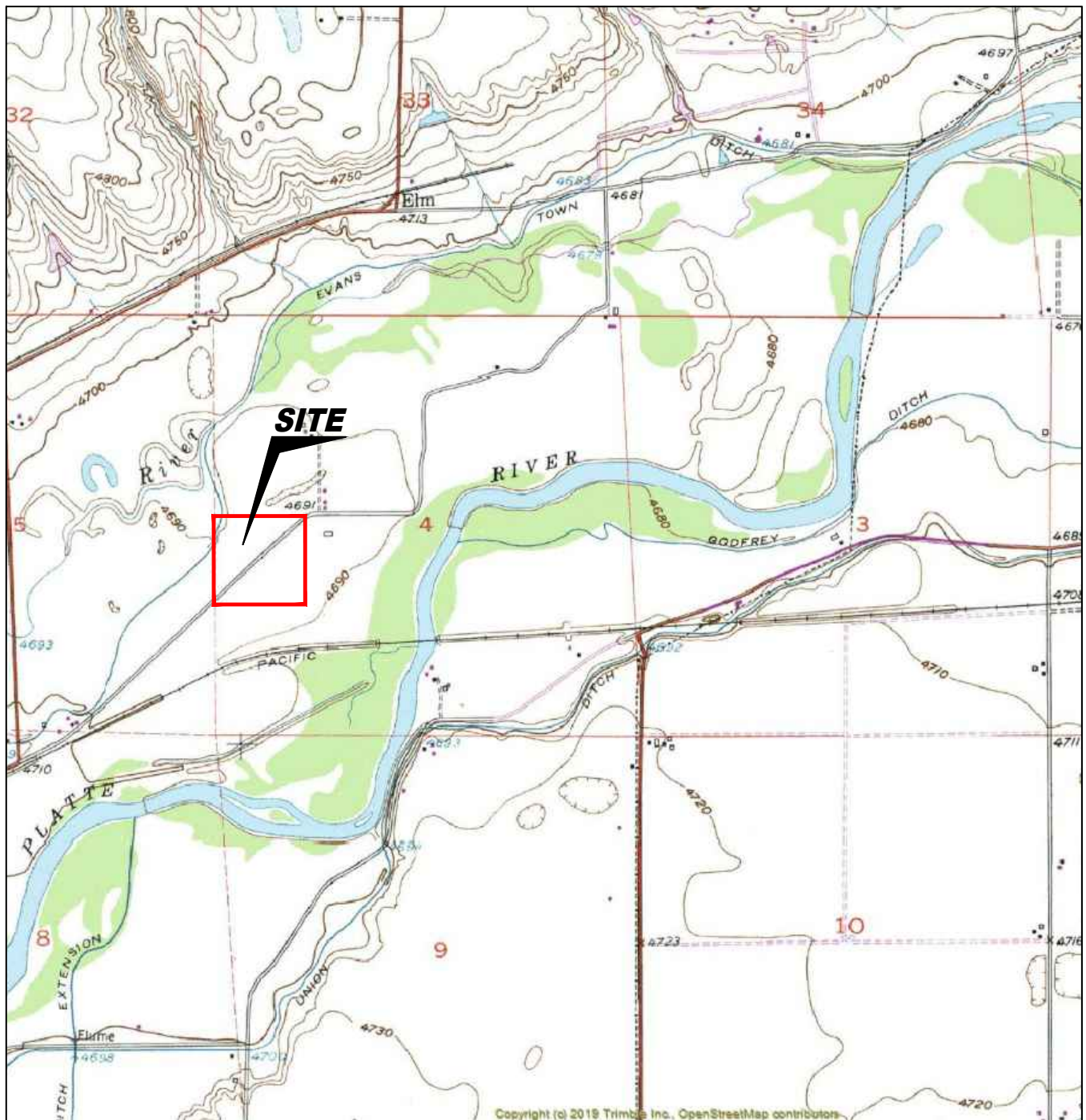
NA - Not Analyzed



**TABLE 4**  
**SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA**  
**NOBLE ENERGY INC.**  
**RUMSEY 3-1216 FACILITY**  
**FREMONT PROJECT NO. C022-042**

SAMPLE LOCATION	DATE	BENZENE (µg/L)	TOLUENE (µg/L)	ETHYL BENZENE (µg/L)	TOTAL XYLENES (µg/L)	NAPH- THALENE (µg/L)	1,2,4 TMB (µg/L)	1,3,5 TMB (µg/L)
W-1	04/19/22	<1.0	<1.0	<1.0	2.46	<2.0	<2.0	<2.0
Table 915-1 Limits		5	560	700	1,400	140	67	67

Bold face values exceed the COGCC limits



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1  
**SITE LOCATION MAP**

**Noble Energy, Inc.**  
**Rumsey 3-12i6 Tank Battery**  
 NSW Sec. 3, T4N, R66W, 6th PM  
 Weld County, Colorado  
 40.33982°, -104.77205°

Project # <b>C022-042</b>	API #	Facility # <b>329883</b>
Date <b>5/24/22</b>	Remediation # <b>20610</b>	Filename <b>22042T</b>





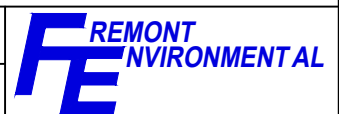
**LEGEND**

- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FORMER FACILITY
- FLOW LINE
- ||||| CONTAINMENT BERM
- ==== CONTAINMENT WALL
- FENCE LINE

**Figure 2  
SITE MAP**

**Noble Energy, Inc.**  
**Rumsey 3-12i6 Tank Battery**  
 NWSW Sec. 3, T4N, R66W, 6th PM  
 Weld County, Colorado  
 40.33982°, -104.77205°

Project No. <b>C022-042</b>	API #	Facility # <b>329883</b>
Date <b>5/24/22</b>	Remediation # <b>20610</b>	Filename <b>22042Q</b>









#### LEGEND


●	WELL HEAD LOCATION	○	ABOVE GROUND STORAGE TANK	FORMER FACILITY	---	FLOW LINE
▲	PID READING LOCATION	FORMER	FORMER FACILITY	---	---	DUMP LINE
				---	---	CONTAINMENT BERM
				---	---	CONTAINMENT WALL
				---	---	FENCE LINE

PID = photo ionization detection  
ppm = parts per million

Figure 4

#### TANK BATTERY PID READINGS

**Noble Energy, Inc.**  
**Rumsey 3-12i6 Tank Battery**  
 NWSW Sec. 3, T4N, R66W, 6th PM  
 Weld County, Colorado  
 40.33982°, -104.77205°

Project No. <b>C022-042</b>	API #	Facility # <b>329883</b>	
Date <b>5/24/22</b>	Remediation # <b>20610</b>	Filename <b>22042QQ</b>	





**#1 – Facility Signage on April 19, 2022**



**#2 -Looking Southeast at Former Water Vault Location**





**#3 - Looking North at Former Separator Location**



**#4 – Looking Southeast at Meter House and Former Separator Location**





**#5 - Looking Northeast at Former Separator Location**



**#6 – Cutting Flowline Prior to Pulling It Out**





**#7 – Steel 2" Diameter Flowline with Tape Coating**



**#8 – Pulled Flowline Allows Inspection**



April 27, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

**Project Name - Noble - Rumsey 3-12i6**

**Project Number - C022-042**

Attached are your analytical results for Noble - Rumsey 3-12i6 received by Origins Laboratory, Inc. April 20, 2022. This project is associated with Origins project number Y204430-01.

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

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Flowline-WH 3F	Y204430-01	Soil	April 19, 2022 0:00	04/20/2022 12:15
Separator-0.5FT	Y204430-02	Soil	April 19, 2022 0:00	04/20/2022 12:15
PWV, N Wall 3FT	Y204430-03	Soil	April 19, 2022 0:00	04/20/2022 12:15
AST 0.5FT	Y204430-04	Soil	April 19, 2022 0:00	04/20/2022 12:15
BG-1 2FT	Y204430-05	Soil	April 19, 2022 0:00	04/20/2022 12:15
W1	Y204430-06	Water	April 19, 2022 0:00	04/20/2022 12:15

Origins Laboratory, Inc.



Jen Pellegrini For Noelle Doyle Mathis, President

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



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

**ORIGINS**  
LABORATORY, INC

www.originslaboratory.com

17204430

page 1 of 1

Client: Fremont Environmental Inc.  
Address:  
Telephone Number:  
Email Address:

Project Manager: Henehan  
Project Name: NOBLE - RUMSEY 3-12i6  
Project Number: C022-042  
Samples Collected By: PHT

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis				Sample Instructions						
				Unpreserved	HCl	HNO <sub>3</sub>	Other	Groundwater	Soil	At Summa	Other	GTENX+TMB	DRO/ORO	PATs	PHT, HCSAR	Fluor	915 metals	Arsenic	RTEEN+TMB	TDS, Cl, So
FLUWINE - WH 3 FT	4/19/22		2	✓								✓	✓	✓	✓					1
SEPTACROD - 0.5 FT												✓	✓	✓	✓					2
PWV N WH 3 FT												✓	✓	✓	✓					3
AST 0.5 FT												✓	✓	✓	✓					4
BG-1 2 FT												✓	✓	✓	✓					5
W1			3																	6
																				7
																				8
																				9
																				10

Relinquished By: [Signature] Date: 4/20/22 Time: 12:15  
Relinquished By: [Signature] Date: 4/20/22 Time: 12:15

Received By: [Signature] Date: 4/20/22 Time: 12:15  
Received By: [Signature] Date: 4/20/22 Time: 12:15

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

Date Results Needed

54

Origins Laboratory, Inc.

*Jefe Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

Origins Laboratory

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

## Sample Receipt Checklist

Origins Work Order: y204430

Client: Fremont

Client Project ID: Noble Rumsey 3-12i6

Checklist Completed by: JS

Shipped Via: FD

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

Date/time completed: 4/20/22

Airbill #: N/A

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

☒ Water

Other: \_\_\_\_\_

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

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C <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 checked="" type="checkbox"/>	<input type="checkbox"/>	No volume to run TDS/anions for sample - 06
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"/>	No sample times
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 type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any): cannot run TDS/anions on WL-did not receive the poly				

<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) JS

Date/Time Reviewed 4-21-22

Origins Laboratory, Inc.

*Jen Pellegrini*

Jen Pellegrini For Noelle Doyle Mathis, President

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

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## Flowline-WH 3F

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y204430-01 (Soil)

### Boron (DTPA Sorbitol)

Boron	1.37	0.0991	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2203	04/22/2022	04/26/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	82.6 %	50-150	"	"	"	"	"
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### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2111	04/21/2022	04/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130	"	"	"	"	"
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## Flowline-WH 3F

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y204430-01 (Soil)

### GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.6 %	70-130	B2D21 11	04/21/2022	04/23/2022
Surrogate: 4-Bromofluorobenzene	99.5 %	70-130	"	"	"

### Metals by Saturated Paste by EPA 6010

Calcium	9.22	0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022
Magnesium	6.01	0.823	"	"	"	"	"
Sodium	14.1	0.435	"	"	"	"	"

### PAH by 8270D SIM

1-Methylnaphthalene	0.000618	0.000364	0.00067	mg/Kg	1	L612221	04/22/2022	04/25/2022	J
2-Methylnaphthalene	0.000678	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	0.000433	0.000334	0.00067	"	"	"	"	"	J
Benzo(a)anthracene	0.00227	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	0.00369	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	0.00239	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	0.00156	0.000437	0.00067	"	"	"	"	"	
Chrysene	0.00398	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	0.000806	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	0.00336	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.000289	0.000286	0.00067	"	"	"	"	"	J
Indeno(1,2,3-cd)pyrene	0.00178	0.000627	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-042

Project: Noble - Rumsey 3-12i6

## Flowline-WH 3F

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc.

Y204430-01 (Soil)

### PAH by 8270D SIM

Naphthalene	ND	0.000484	0.00067	mg/Kg	1	L612221	04/22/2022	04/25/2022	
Pyrene	0.00466	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.5 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.6 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	60.1 %		29-110			"	"	"	

### pH in Soil by 9045D

pH	7.52			pH Units	1	B2D2103	04/21/2022	04/22/2022	
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### SAR by 20B Saturated Paste

SAR	5.12			SAR	1	B2D2101	04/21/2022	04/22/2022	
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	2.72		0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## Separator-0.5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y204430-02 (Soil)

### DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2D2203	04/22/2022	04/26/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl 79.7 % 50-150 " " "

### GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2D2111	04/21/2022	04/23/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 95.6 % 70-130 " " "  
Surrogate: Toluene-d8 97.6 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.1 % 70-130 " " "

### PAH by 8270D SIM

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## Separator-0.5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204430-02 (Soil)

### PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612221	04/22/2022	04/25/2022
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"
Anthracene	ND	0.000334	0.00067	"	"	"	"	"
Benzo(a)anthracene	0.000968	0.000493	0.00067	"	"	"	"	"
Benzo(a)pyrene	0.00182	0.000468	0.00067	"	"	"	"	"
Benzo(b)fluoranthene	0.00142	0.000585	0.00067	"	"	"	"	"
Benzo(k)fluoranthene	0.000841	0.000437	0.00067	"	"	"	"	"
Chrysene	0.00146	0.000624	0.00067	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"
Fluoranthene	0.00148	0.000394	0.00067	"	"	"	"	"
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	0.00111	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"
Pyrene	0.00195	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.8 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	64 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	57.1 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

**PWV. N Wall 3FT**

**4/19/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204430-03 (Soil)**

**Boron (DTPA Sorbitol)**

Boron	0.140	0.0998	mg/L	1	B2D2102	04/21/2022	04/22/2022	
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**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2203	04/22/2022	04/26/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	87.4 %	50-150			"	"	"	
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**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2111	04/21/2022	04/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130			"	"	"	
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

**PWV. N Wall 3FT**

**4/19/2022 12:00:00AM**

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204430-03 (Soil)**

**GBTEX+TMBs by 8260D**

Surrogate: Toluene-d8	97.1 %	70-130	B2D21 11	04/21/2022	04/23/2022
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130	"	"	"

**Metals by Saturated Paste by EPA 6010**

Calcium	2.16	0.499	meq/L	10	[CALC]	04/21/2022	04/22/2022
Magnesium	ND	0.823	"	"	"	"	"
Sodium	ND	0.435	"	"	"	"	"

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.00182	0.00335	mg/Kg	5	L612221	04/22/2022	04/25/2022
2-Methylnaphthalene	ND	0.00323	0.00335	"	"	"	"	"
Acenaphthene	ND	0.00152	0.00335	"	"	"	"	"
Anthracene	ND	0.00167	0.00335	"	"	"	"	"
Benzo(a)anthracene	ND	0.00247	0.00335	"	"	"	"	"
Benzo(a)pyrene	ND	0.00234	0.00335	"	"	"	"	"
Benzo(b)fluoranthene	ND	0.00293	0.00335	"	"	"	"	"
Benzo(k)fluoranthene	ND	0.00219	0.00335	"	"	"	"	"
Chrysene	ND	0.00312	0.00335	"	"	"	"	"
Dibenz(a,h)anthracene	ND	0.00307	0.00335	"	"	"	"	"
Fluoranthene	ND	0.00197	0.00335	"	"	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## PWV. N Wall 3FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Waypoint Analytical, Inc. Y204430-03 (Soil)

### PAH by 8270D SIM

Fluorene	ND	0.00143	0.00335	mg/Kg	5	L612221	04/22/2022	04/25/2022
Indeno(1,2,3-cd)pyrene	ND	0.00314	0.00335	"	"	"	"	"
Naphthalene	ND	0.00242	0.00335	"	"	"	"	"
Pyrene	ND	0.00322	0.00335	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.2 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	62.8 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	58.6 %	29-110	"	"	"

### pH in Soil by 9045D

pH	9.10	pH Units	1	B2D2103	04/21/2022	04/22/2022
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### SAR by 20B Saturated Paste

SAR	0.370	SAR	1	B2D2101	04/21/2022	04/22/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.348	0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

AST 0.5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Origins Laboratory, Inc.**  
**Y204430-04 (Soil)**

**DRO/ORO by EPA 8015D**

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2D2203	04/22/2022	04/26/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl 75.5 % 50-150 " " "

**GBTEX+TMBs by 8260D**

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2D2111	04/21/2022	04/23/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4 97.8 % 70-130 " " "  
Surrogate: Toluene-d8 96.8 % 70-130 " " "  
Surrogate: 4-Bromofluorobenzene 95.9 % 70-130 " " "

**PAH by 8270D SIM**

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

AST 0.5FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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**Waypoint Analytical, Inc.**  
**Y204430-04 (Soil)**

**PAH by 8270D SIM**

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L612221	04/22/2022	04/25/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	<b>0.000433</b>	<b>0.000394</b>	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	0.00067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	53.3 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	69.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	61.2 %	29-110	"	"	"

Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

## BG-1 2FT

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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## Origins Laboratory, Inc. Y204430-05 (Soil)

### Boron (DTPA Sorbitol)

Boron	0.952	0.0992	mg/L	1	B2D2102	04/21/2022	04/22/2022
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### Metals by Saturated Paste by EPA 6010

Calcium	30.0	0.499	meq/L	10	[CALC]	"	04/22/2022
Magnesium	16.4	0.823	"	"	"	"	"
Sodium	14.2	0.435	"	"	"	"	"

### pH in Soil by 9045D

pH	7.72		pH Units	1	B2D2103	04/21/2022	04/22/2022
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### SAR by 20B Saturated Paste

SAR	2.96		SAR	1	B2D2101	04/21/2022	04/22/2022
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### Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.28	0.00500	mmhos/cm	1	B2D2104	04/21/2022	04/22/2022
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Origins Laboratory, Inc.



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Jen Pellegrini For Noelle Doyle Mathis, President



Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

W1

4/19/2022 12:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.  
Y204430-06 (Water)

## BTEX+N+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	2.00	ug/L	1	B2D2025	04/20/2022	04/20/2022	U
1,3,5-Trimethylbenzene	ND	2.00	"	"	"	"	"	U
Benzene	ND	1.00	"	"	"	"	"	U
Ethylbenzene	ND	1.00	"	"	"	"	"	U
Naphthalene	ND	2.00	"	"	"	"	"	U
Toluene	ND	1.00	"	"	"	"	"	U
Xylenes, total	2.46	1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %	70-130	"	"	"
Surrogate: Toluene-d8	102 %	70-130	"	"	"
Surrogate: 4-Bromofluorobenzene	96.9 %	70-130	"	"	"

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Jen Pellegrini For Noelle Doyle Mathis, President

Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

**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 B2D2025 - EPA 5030B (Water)</b>										
<b>Blank (B2D2025-BLK1)</b>					Prepared: 04/20/2022 Analyzed: 04/20/2022					
1,2,4-Trimethylbenzene	ND	2.00	ug/L							U
1,3,5-Trimethylbenzene	ND	2.00	"							U
Benzene	ND	1.00	"							U
Ethylbenzene	ND	1.00	"							U
Naphthalene	ND	2.00	"							U
Toluene	ND	1.00	"							U
Xylenes, total	ND	1.00	"							U
Surrogate: 1,2-Dichloroethane-d4	62		"	62.5		99.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.8	70-130			

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Paul Henehan  
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**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 B2D2025 - EPA 5030B (Water)</b>										
<b>LCS (B2D2025-BS1)</b>					Prepared: 04/20/2022 Analyzed: 04/20/2022					
1,2,4-Trimethylbenzene	45.7	2.00	ug/L	50.0		91.3	70-130			
1,3,5-Trimethylbenzene	46.3	2.00	"	50.0		92.7	70-130			
Benzene	44.4	1.00	"	50.0		88.8	70-130			
Ethylbenzene	47.0	1.00	"	50.0		94.1	70-130			
m,p-Xylene	95.9	2.00	"	100		95.9	70-130			
Naphthalene	48.3	2.00	"	50.0		96.6	70-130			
o-Xylene	46.0	1.00	"	50.0		92.0	70-130			
Toluene	45.2	1.00	"	50.0		90.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		"	62.5		101	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		98.3	70-130			

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**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 B2D2025 - EPA 5030B (Water)</b>										
<b>Matrix Spike (B2D2025-MS1)</b>		<b>Source: Y204386-02</b>			Prepared: 04/20/2022 Analyzed: 04/20/2022					
1,2,4-Trimethylbenzene	51.1	2.00	ug/L	50.0	0.170	102	70-130			
1,3,5-Trimethylbenzene	49.5	2.00	"	50.0	ND	98.9	70-130			
Benzene	46.0	1.00	"	50.0	ND	92.1	70-130			
Ethylbenzene	48.6	1.00	"	50.0	0.140	96.9	70-130			
m,p-Xylene	103	2.00	"	100	0.270	103	70-130			
Naphthalene	54.1	2.00	"	50.0	0.250	108	70-130			
o-Xylene	50.0	1.00	"	50.0	ND	99.9	70-130			
Toluene	47.0	1.00	"	50.0	ND	94.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	60		"	62.5		95.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

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**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 B2D2025 - EPA 5030B (Water)</b>										
<b>Matrix Spike Dup (B2D2025-MSD1)</b>			<b>Source: Y204386-02</b>		Prepared: 04/20/2022 Analyzed: 04/20/2022					
1,2,4-Trimethylbenzene	53.3	2.00	ug/L	50.0	0.170	106	70-130	4.29	20	
1,3,5-Trimethylbenzene	49.5	2.00	"	50.0	ND	99.1	70-130	0.121	20	
Benzene	48.6	1.00	"	50.0	ND	97.2	70-130	5.39	20	
Ethylbenzene	50.2	1.00	"	50.0	0.140	100	70-130	3.32	20	
m,p-Xylene	106	2.00	"	100	0.270	106	70-130	2.89	20	
Naphthalene	52.7	2.00	"	50.0	0.250	105	70-130	2.62	20	
o-Xylene	49.3	1.00	"	50.0	ND	98.7	70-130	1.25	20	
Toluene	46.7	1.00	"	50.0	ND	93.5	70-130	0.640	20	
Surrogate: 1,2-Dichloroethane-d4	61		"	62.5		97.8	70-130			
Surrogate: Toluene-d8	65		"	62.5		104	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.4	70-130			

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**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 B2D2111 - EPA 5030 (soil)</b>										
<b>Blank (B2D2111-BLK1)</b>					Prepared: 04/21/2022 Analyzed: 04/23/2022					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.0100	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.3	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.3	70-130			

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**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 B2D2111 - EPA 5030 (soil)</b>										
<b>LCS (B2D2111-BS1)</b>					Prepared: 04/21/2022 Analyzed: 04/23/2022					
1,2,4-Trimethylbenzene	0.0958	0.00200	mg/kg	0.100		95.8	70-130			
1,3,5-Trimethylbenzene	0.0959	0.00200	"	0.100		95.9	70-130			
Benzene	0.0932	0.00200	"	0.100		93.2	70-130			
Ethylbenzene	0.100	0.00200	"	0.100		100	70-130			
Naphthalene	0.0827	0.0100	"	0.100		82.7	70-130			
Toluene	0.0890	0.00200	"	0.100		89.0	70-130			
o-Xylene	0.0954	0.00200	"	0.100		95.4	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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**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 B2D2111 - EPA 5030 (soil)</b>										
<b>Matrix Spike (B2D2111-MS1)</b>		<b>Source: Y204430-01</b>			Prepared: 04/21/2022 Analyzed: 04/23/2022					
1,2,4-Trimethylbenzene	0.0996	0.00200	mg/kg	0.100	ND	99.6	70-130			
1,3,5-Trimethylbenzene	0.102	0.00200	"	0.100	ND	102	70-130			
Benzene	0.0923	0.00200	"	0.100	ND	92.3	70-130			
Ethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Naphthalene	0.0619	0.0100	"	0.100	ND	61.9	70-130			QM-07
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
o-Xylene	0.105	0.00200	"	0.100	ND	105	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		86.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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**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 B2D2111 - EPA 5030 (soil)</b>										
<b>Matrix Spike Dup (B2D2111-MSD1)</b>			<b>Source: Y204430-01</b>		Prepared: 04/21/2022 Analyzed: 04/23/2022					
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130	9.93	20	
1,3,5-Trimethylbenzene	0.0917	0.00200	"	0.100	ND	91.7	70-130	11.0	20	
Benzene	0.0924	0.00200	"	0.100	ND	92.4	70-130	0.0866	20	
Ethylbenzene	0.0991	0.00200	"	0.100	ND	99.1	70-130	12.3	20	
Naphthalene	0.0678	0.0100	"	0.100	ND	67.8	70-130	9.16	20	QM-07
Toluene	0.0881	0.00200	"	0.100	ND	88.1	70-130	2.91	20	
o-Xylene	0.0954	0.00200	"	0.100	ND	95.4	70-130	9.49	20	
m,p-Xylene	0.198	0.00400	"	0.200	ND	98.9	70-130	11.5	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

Origins Laboratory, Inc.



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Project: Noble - Rumsey 3-12i6

**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 B2D2203 - EPA 3550B</b>										
<b>Blank (B2D2203-BLK1)</b>					Prepared: 04/22/2022 Analyzed: 04/25/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	21		"	24.9		85.0	50-150			

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Project: Noble - Rumsey 3-12i6

## 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 B2D2203 - EPA 3550B

### LCS (B2D2203-BS1)

Prepared: 04/22/2022 Analyzed: 04/25/2022

Diesel (C10-C28)	977	50.0	mg/kg	1000		97.7	70-130			
Residual Range Organics (C28-C40)	884	200	"	1000		88.4	70-130			
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

**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 B2D2203 - EPA 3550B**

Matrix Spike (B2D2203-MS1)		Source: Y204405-01			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Diesel (C10-C28)	825	50.0	mg/kg	1000	ND	82.5	70-130			
Residual Range Organics (C28-C40)	819	200	"	1000	ND	81.9	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.8	50-150			

Origins Laboratory, Inc.



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**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 B2D2203 - EPA 3550B										
Matrix Spike Dup (B2D2203-MSD1)		Source: Y204405-01			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Diesel (C10-C28)	965	50.0	mg/kg	1000	ND	96.5	70-130	15.7	35	
Residual Range Organics (C28-C40)	909	200	"	1000	ND	90.9	70-130	10.4	35	
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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## 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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## 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 B2D2102 - Default Prep Metals

##### Blank (B2D2102-BLK1)

Prepared: 04/21/2022 Analyzed: 04/22/2022

Boron	ND	0.100	mg/L							U
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##### Duplicate (B2D2102-DUP1)

Source: Y204206-01

Prepared: 04/21/2022 Analyzed: 04/22/2022

Boron	0.276	0.0987	mg/L		0.279			0.992	50	
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Origins Laboratory, Inc.



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Project: Noble - Rumsey 3-12i6

## 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 B2D2103 - NO PREP</b>										
<b>Duplicate (B2D2103-DUP1)</b>		<b>Source: Y204206-01</b>			Prepared: 04/21/2022 Analyzed: 04/22/2022					
pH	7.86		pH Units		7.92			0.760	25	
<b>Batch B2D2104 - NO PREP</b>										
<b>Blank (B2D2104-BLK1)</b>		Prepared: 04/21/2022 Analyzed: 04/22/2022								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
<b>Duplicate (B2D2104-DUP1)</b>		<b>Source: Y204206-01</b>			Prepared: 04/21/2022 Analyzed: 04/22/2022					
Specific Conductance (EC)	0.530	0.00500	mmhos/cm		0.524			1.25	25	

Origins Laboratory, Inc.



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Project: Noble - Rumsey 3-12i6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L612221 - 3550B**

MSD (L 95724-MSD-L612221)		Source: 95724			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Benzo(b)fluoranthene	0.0352	0.00293	mg/Kg	0.166	<0.00293	21.2	30-130	7.3	30	*
Fluoranthene	0.0898	0.00197	"	0.166	<0.00197	54	30-130	15.4	30	
Pyrene	0.0876	0.00322	"	0.166	<0.00322	52.7	30-130	16.5	30	
Naphthalene	0.0616	0.00242	"	0.166	<0.00242	37.1	30-130	0.9	30	
Indeno(1,2,3-cd)pyrene	0.0569	0.00314	"	0.166	<0.00314	34.2	30-130	14.9	30	
Fluorene	0.0729	0.00143	"	0.166	<0.00143	43.9	30-130	5.2	30	
Chrysene	0.0951	0.00312	"	0.166	<0.00312	57.2	30-130	15.8	30	
1-Methylnaphthalene	0.0701	0.00182	"	0.166	<0.00182	42.2	30-130	2.1	30	
Dibenz(a,h)anthracene	0.0815	0.00307	"	0.166	<0.00307	49	30-130	16.3	30	
2-Methylnaphthalene	0.0608	0.00323	"	0.166	<0.00323	36.6	30-130	2.7	30	
Acenaphthene	0.0712	0.00152	"	0.166	<0.00152	42.8	30-130	3.7	30	
Anthracene	0.0847	0.00167	"	0.166	<0.00167	51	30-130	8.7	30	
Benzo(a)anthracene	0.0868	0.00247	"	0.166	<0.00247	52.2	30-130	12.6	30	
Benzo(a)pyrene	0.102	0.00234	"	0.166	<0.00234	61.4	30-130	22.2	30	
Benzo(k)fluoranthene	0.0738	0.00219	"	0.166	<0.00219	44.4	30-130	8.9	30	
Surrogate: Nitrobenzene-d5	44.5		"	0.332	187	44.5	29-110			
Surrogate: 2-Fluorobiphenyl	37.6		"	0.332	158	37.6	33-115			
Surrogate: 4-Terphenyl-d14	59		"	0.332	195	59	33-122			

MS (L 95724-MS-L612221)		Source: 95724			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Benzo(a)pyrene	0.0816	0.00234	mg/Kg	0.163	<0.00234	50	30-130			
Naphthalene	0.061	0.00242	"	0.163	<0.00242	37.4	30-130			
Indeno(1,2,3-cd)pyrene	0.049	0.00314	"	0.163	<0.00314	30	30-130			
Fluorene	0.0692	0.00143	"	0.163	<0.00143	42.4	30-130			
Fluoranthene	0.0769	0.00197	"	0.163	<0.00197	47.1	30-130			
Dibenz(a,h)anthracene	0.0692	0.00307	"	0.163	<0.00307	42.4	30-130			
Chrysene	0.0811	0.00312	"	0.163	<0.00312	49.7	30-130			

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Fremont Environmental  
8305 6th St, PO Box 1289  
Wellington CO 80549

Paul Henehan  
Project Number: C022-042  
Project: Noble - Rumsey 3-12i6

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L612221 - 3550B**

MS (L 95724-MS-L612221)		Source: 95724			Prepared: 04/22/2022 Analyzed: 04/25/2022					
Pyrene	0.0742	0.00322	mg/Kg	0.163	<0.00322	45.5	30-130			
1-Methylnaphthalene	0.0686	0.00182	"	0.163	<0.00182	42	30-130			
Benzo(a)anthracene	0.0765	0.00247	"	0.163	<0.00247	46.9	30-130			
Anthracene	0.0776	0.00167	"	0.163	<0.00167	47.6	30-130			
Acenaphthene	0.0686	0.00152	"	0.163	<0.00152	42	30-130			
2-Methylnaphthalene	0.0625	0.00323	"	0.163	<0.00323	38.3	30-130			
Benzo(b)fluoranthene	0.0327	0.00293	"	0.163	<0.00293	20	30-130			*
Benzo(k)fluoranthene	0.0675	0.00219	"	0.163	<0.00219	41.4	30-130			
Surrogate: Nitrobenzene-d5	45.7		"	0.326	187	45.7	29-110			
Surrogate: 4-Terphenyl-d14	52.4		"	0.326	195	52.4	33-122			
Surrogate: 2-Fluorobiphenyl	39.8		"	0.326	158	39.8	33-115			

LCS (LCS-L612221)		Prepared: 04/22/2022 Analyzed: 04/25/2022								
Chrysene	0.1	0.000624	mg/Kg	0.167		59.8	30-130			
Dibenz(a,h)anthracene	0.0988	0.000614	"	0.167		59.1	30-130			
Fluorene	0.0879	0.000286	"	0.167		52.6	30-130			
Naphthalene	0.0765	0.000484	"	0.167		45.8	30-130			
Benzo(k)fluoranthene	0.0838	0.000437	"	0.167		50.1	30-130			
Pyrene	0.0957	0.000643	"	0.167		57.3	30-130			
Fluoranthene	0.0959	0.000394	"	0.167		57.4	30-130			
1-Methylnaphthalene	0.0821	0.000364	"	0.167		49.1	30-130			
Benzo(a)pyrene	0.0999	0.000468	"	0.167		59.8	30-130			
Benzo(a)anthracene	0.1	0.000493	"	0.167		59.8	30-130			
Anthracene	0.0904	0.000334	"	0.167		54.1	30-130			
Acenaphthene	0.083	0.000304	"	0.167		49.7	30-130			
2-Methylnaphthalene	0.0819	0.000645	"	0.167		49	30-130			
Indeno(1,2,3-cd)pyrene	0.0806	0.000627	"	0.167		48.2	30-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch L612221 - 3550B**

**LCS (LCS-L612221)**

Prepared: 04/22/2022 Analyzed: 04/25/2022

Benzo(b)fluoranthene	0.07	0.000585	mg/Kg	0.167		41.9	30-130			
Surrogate: Nitrobenzene-d5	57.3		"	0.333		57.3	29-110			
Surrogate: 4-Terphenyl-d14	70.2		"	0.333		70.2	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

**LRB (LRB-L612221)**

Prepared: 04/22/2022 Analyzed: 04/25/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	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	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 4-Terphenyl-d14	72		"	0.333		72	33-122			
Surrogate: 2-Fluorobiphenyl	51.9		"	0.333		51.9	33-115			

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## Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

J Estimated Value. Analyte below reported quantitation limit.

\* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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