

FREMONT ENVIRONMENTAL INC.

May 30, 2022

Ms. Erica Zuniga
Noble Energy Inc.
2115 117th Avenue
Greeley, CO 80634

Subject: **Facility Closure Data Submittal**
Roth 12-30 Facility and Flowline
API # 05-123-13046
NWSW Sec 30, T6N, R64W
Weld County, Colorado
Fremont Project No. C022-052
Facility #323450, Remediation #22298

Dear Ms. Zuniga:

As you requested, Fremont Environmental Inc. (Fremont) personnel conducted Facility Closure tasks for the Noble Energy Inc. (Noble) Roth 12-30 tank battery and flowline. Impacted soil was not encountered during the facility closure process; further, groundwater was not present. 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: Roth 12-30, 323450		Date:						Remediation Project #: 22298
Associated Wells:		Age of Site:						Number of Photos Attached: 10
Location: (GPS coordinates of southeaster berm)								Estimated Facility Size (acres): 1
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)								
Tanks								
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:								
Separators								
Separator size								
Vertical or Horizontal								
Age								
Soil impacts								
PID Readings								
Sample taken? Location/ Sample ID#								
Photo Number(s)								
Other observations regarding separators								
Third Party Equipment								
Type								
Age								

Third Party <i>Owner</i>														
Removal Date														
Sample taken? <i>Location/ Sample</i>														
PID Readings														
Photo Number(s)														
Other Facility Equipment														
Equipment type														
Equipment <i>Condition</i>														
Age														
Soil impacts <i>Observed during</i>														
PID Readings														
Sample taken? <i>Location/ Sample</i>														
Photo Number(s)														
Other observations regarding other facility or third party equipment:														
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: 7									
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? X 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:														

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: Roth 12-30, 323450		Date:						Remediation Project #: 22298
Associated Wells:		Age of Site:						Number of Photos Attached: 10
Location: (GPS coordinates of vault or southeastern tank berm for multiple)								Estimated Facility Size (acres): 1
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)								
Buried or Partially Buried Vessels								
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:								
Summary								
Was impacted soil identified? <div style="display: flex; justify-content: space-between;"> X No Yes - less than 10 cubic yards Yes - more than 10 cubic yards </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;"> X No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils </div>								
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:								

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: Roth 12-30, 323450		Date:						Remediation Project #: 22298
Associated Wells:		Age of Site:						Number of Photos Attached: 10
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: 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? X 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:								

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
ROTH 12-30
FREMONT PROJECT NO. C022-054

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)
Separator 0.5 Ft	0.5	5/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
AST 0.5 Ft	0.5	5/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
PWV Floor 4 Ft	4	5/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	0.436	191	139
PWV E Wall 3 Ft	3	5/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
FL - Sep 3 Ft	3	5/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	<25.0	<100
FL-WH 3 Ft	3	5/12/2022	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00067	<0.200	31.3	<100
BG-1 1 Ft	1	5/12/2022	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.
ROTH 12-30
FREMONT PROJECT NO. C022-054

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)
Separator 0.5 Ft	0.5	5/12/2022	<0.00067	<0.00067	0.00082	0.000907	0.000512	0.000854	0.000772	<0.00067	0.00128	<0.00067	0.000897	<0.00067	<0.00067	0.00145
AST 0.5 Ft	0.5	5/12/2022	<0.00067	<0.00067	0.000744	0.000757	<0.00067	0.000712	0.000669	<0.00067	0.00113	<0.00067	<0.00067	<0.00067	0.00114	0.00101
PWV Floor 4 Ft	4	5/12/2022	<0.00067	<0.00067	0.00163	0.002	0.000778	0.00182	0.00216	<0.00067	0.00231	0.00137	0.00125	<0.00067	0.00121	0.00223
PWV E Wall 3 Ft	3	5/12/2022	<0.00067	<0.00067	0.00151	0.00127	0.000945	0.00151	0.00161	<0.00067	0.00261	<0.00067	0.00114	<0.00067	<0.00067	0.00237
FL - Sep 3 Ft	3	5/12/2022	<0.00067	<0.00067	0.000825	0.000771	<0.00067	0.000653	<0.00067	<0.00067	0.00145	<0.00067	<0.00067	<0.00067	<0.00067	0.00151
FL-WH 3 Ft	3	5/12/2022	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	<0.00067	0.000734	0.00102	<0.00067	<0.00067	0.00131	0.000651
BG-1 1 Ft	1	5/12/2022	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

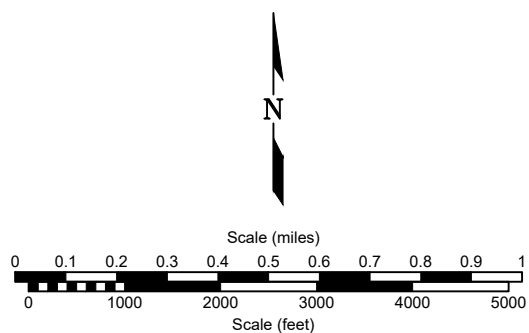
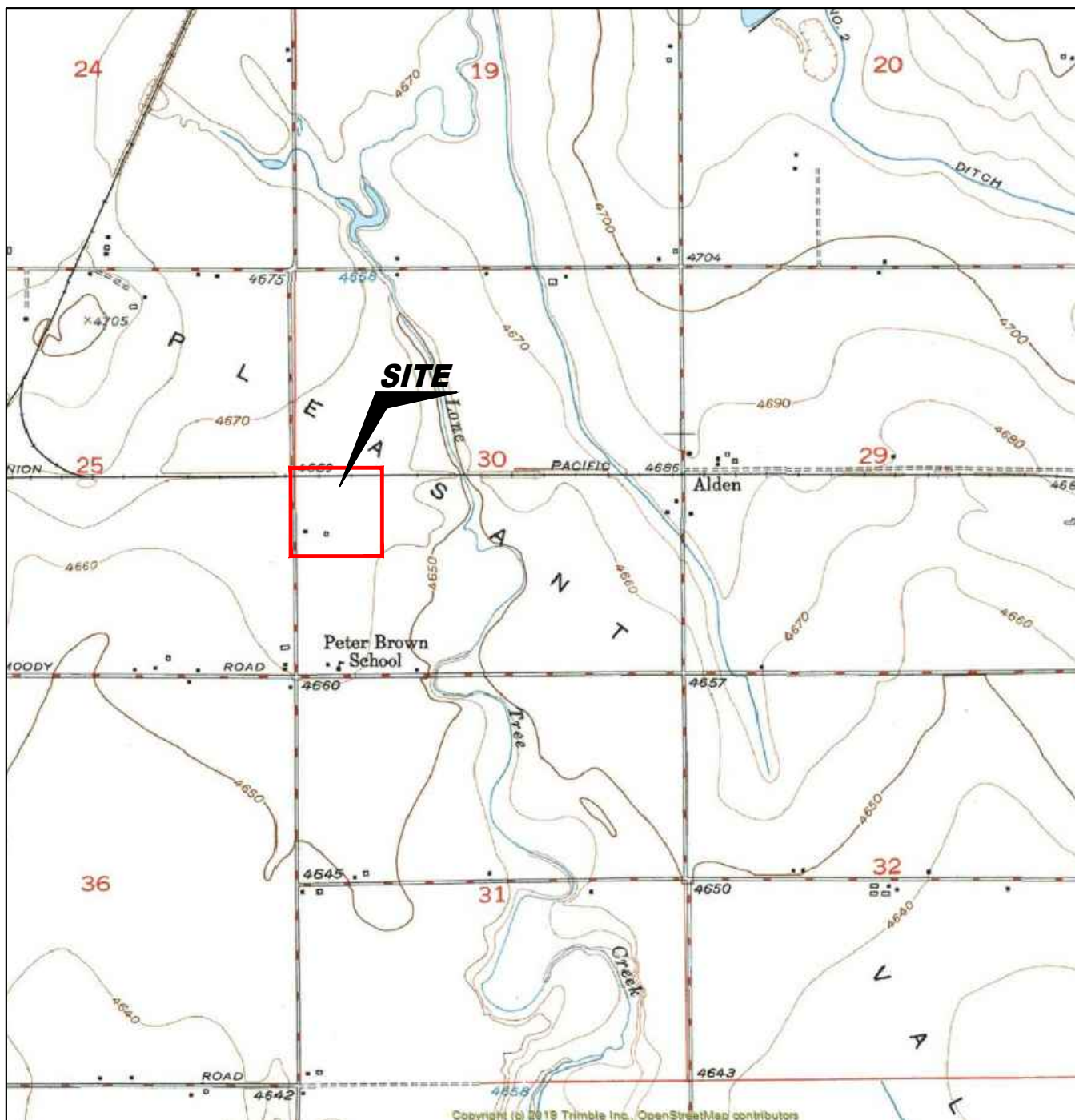
Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
ROTH 12-30
FREMONT PROJECT NO. C022-054

SAMPLE LOCATION	DATE SAMPLED	DEPTH ft	EC mmhos/cm	pH pH units	SAR units	BORON mg/L
PWV Floor 4 Ft	5/12/2022	4	0.498	7.98	0.947	0.95
BG-1 1 Ft	5/12/2022	1	0.325	8.31	0.250	0.595
Table 915-1 Limits			<4	6-8.3	<6	2

Bold face values exceed the COGCC Limits

NA - Not Analyzed



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

NOBLE ENERGY, INC. ~ ROTH 12-30
NWSW Sec. 30, T6N, R64W, 6th PM
Weld County, Colorado
40.4552025°, -104.599906°

Project # C022-054	API # 05-123-13046	Facility ID 323450
Date 05/31/22	Remediation # 22298	Filename 22054T





LEGEND

● RISER LOCATION	○ ABOVE GROUND STORAGE TANK	FORMER FORMER FACILITY	BUILDING BUILDING	CONTAINMENT BERM	FLOW LINE	DUMP LINES	FENCE LINE
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Figure 2
SITE MAP

NOBLE ENERGY, INC. ~ ROTH 12-30
NWSW Sec. 30, T6N, R64W, 6th PM
Weld County, Colorado
40.4552025°, -104.599906°

Project No. C022-054	API # 05-123-13046	Facility # 323450
Date 05/31/22	Reviewed By 22298	Filename 22054Q





LEGEND

- RISER LOCATION
- ⊗ SOIL SAMPLE LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- BUILDING
- CONTAINMENT BERM
- FLOW LINE
- DUMP LINES
- FENCE LINE

05/12/2022 Separator ~ 0.5'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	0.00062
BbF	0.000907
BbP	0.000512
Chr	0.000772
DBaHant	<0.00067
FLU	0.00128
FL	<0.00067
1,2,3cdPY	0.00067
1-MN	<0.00067
2-MN	<0.00067
PY	0.00145

05/12/2022 PWV E Wall ~ 3'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	0.00151
BbF	0.00127
BbP	0.000945
Chr	0.00151
DBaHant	<0.00067
FLU	<0.00067
FL	0.00114
1,2,3cdPY	0.00114
1-MN	<0.00067
2-MN	<0.00067
PY	0.00237

05/12/2022 PWV Floor ~ 4'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	0.00163
BbF	0.002
BbP	0.000778
Chr	0.00182
DBaHant	<0.00067
FLU	0.0021
FL	0.00137
1,2,3cdPY	0.00125
1-MN	<0.00067
2-MN	0.00121
PY	0.00223

05/12/2022 PWV Floor ~ 4'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	0.00062
BbF	0.000907
BbP	0.000512
Chr	0.000772
DBaHant	<0.00067
FLU	0.00128
FL	<0.00067
1,2,3cdPY	0.00067
1-MN	<0.00067
2-MN	<0.00067
PY	0.00145

05/12/2022 FL Separator ~ 3'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	<0.00067
BbF	<0.00067
BbP	<0.00067
Chr	<0.00067
DBaHant	<0.00067
FLU	0.000734
FL	0.00102
1,2,3cdPY	<0.00067
1-MN	<0.00067
2-MN	0.00131
PY	0.000651

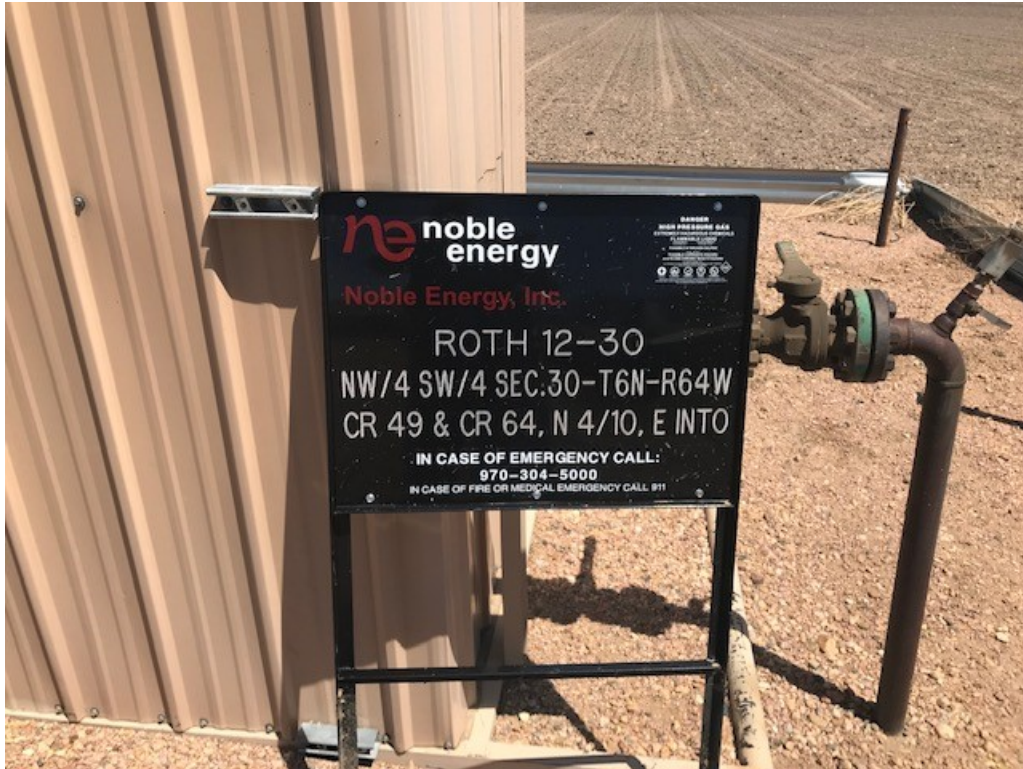
05/12/2022 FL WH ~ 3'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	<0.00067
BbF	<0.00067
BbP	<0.00067
Chr	<0.00067
DBaHant	<0.00067
FLU	0.000734
FL	0.00102
1,2,3cdPY	<0.00067
1-MN	<0.00067
2-MN	0.00131
PY	0.000651

05/12/2022 BG-1 ~ 1'	DATE SAMPLED SAMPLE ID and DEPTH (ft)
ACE	<0.00067
Ant	<0.00067
BaA	0.00062
BbF	0.000907
BbP	0.000512
Chr	0.000772
DBaHant	<0.00067
FLU	0.00128
FL	<0.00067
1,2,3cdPY	0.00067
1-MN	<0.00067
2-MN	<0.00067
PY	0.00145

Figure 3
SOIL CHEMISTRY MAP
May 12, 2022

NOBLE ENERGY, INC. ~ ROTH 12-30
NWSW Sec. 30, T6N, R64W, 6th PM
Weld County, Colorado
40.4552025°, -104.599906°

Project No. C022-054	API # 05-123-13046	Facility # 323450	
Date 05/31/22	Reviewed By 22298	Filename 22054Q	



#1- Looking South at Thin Layer of Impacted Soil at Former Site



#2 – Looking West at Former Separator Location and Meter Building



#3 – Looking East at Former Water Vault and AST Location



#4 – Looking Southeast at Former Water Vault Location



#5 – Looking South at Former AST and Water Vault Location



#6 – Looking East at Former Separator Location



#7 – Flowline at Separator



#8 – Looking East at Wellhead/Flowline Location Prior to Excavation and Plugging of Flowline



#9- Former Flowline at Wellhead Now Plugged with Cement



#10 – Former Flowline at Separator Just Before Filling with Cement



May 26, 2022

Fremont Environmental

Paul Henehan

8305 6th St, PO Box 1289

Wellington CO 80549

Project Name - Noble - Roth 12-30

Project Number - C022-054

Attached are your analytical results for Noble - Roth 12-30 received by Origins Laboratory, Inc. May 13, 2022. This project is associated with Origins project number Y205388-01.

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: C022-054

Project: Noble - Roth 12-30

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Separator 0.5ft	Y205388-01	Soil	May 12, 2022 0:00	05/13/2022 13:30
AST 0.5ft	Y205388-02	Soil	May 12, 2022 0:00	05/13/2022 13:30
PWV Floor 4ft	Y205388-03	Soil	May 12, 2022 0:00	05/13/2022 13:30
PWV E. Wall 3ft	Y205388-04	Soil	May 12, 2022 0:00	05/13/2022 13:30
FL-SEP 3ft	Y205388-05	Soil	May 12, 2022 0:00	05/13/2022 13:30
FL-WH 3ft	Y205388-06	Soil	May 12, 2022 0:00	05/13/2022 13:30
BG-1 1ft	Y205388-07	Soil	May 12, 2022 0:00	05/13/2022 13:30

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.

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

Paul Henahan
Project Number: C022-054
Project: Noble - Roth 12-30

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

Project Manager: Henahan
Project Name: Noble - Roth 12-30
Project Number: C022-054
Samples Collected By: HENAHAN

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis				Sample Instructions				
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summ	Other	GTENX+TNB	DRO/ORO	PAHs	PET, HCSAR	Boron	915 metals	Arctic	BTEXN+TNB
SEPARATOR 0.5 FT	5/12/22		2																
AST 0.5 FT																			
PWV Floor 4 FT																			
PWV E. WHL 3 FT																			
FL-SEP 3 FT																			
FL-WH 3 FT																			
BG-1 1 FT																			
Relinquished By: [Signature]	Date: 5/13/22	Time:	Received By: [Signature]	Date: 5/13/22	Time: 1330	Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input checked="" type="checkbox"/> Standard													
Relinquished By:	Date:	Time:	Received By:	Date:	Time:														

Date Results Needed

5.7

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.

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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

Sample Receipt Checklist

Origins Work Order: 7205388 Client: Fremont
Client Project ID: Noble Roth 12-30

Checklist Completed by: JB Shipped Via: HB
Date/time completed: 5/16/22 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
Airbill #: N/A

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

Cooler Number/Temperature: 1 / 5.7°c / _____ °c / _____ °c (Describe) _____ °c

Thermometer ID: 1004

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

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

Reviewed by: JB (Project Manager) Date/Time Reviewed: 5-17-22

Origins Laboratory, Inc.

J. Bynon

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

Separator 0.5ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-01 (Soil) Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1701	ZZZ	05/17/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 86.5 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	ZZZ	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 102 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
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Origins Laboratory, Inc.

J. Bynon

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-054

Project: Noble - Roth 12-30

Separator 0.5ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-01 (Soil)

Waypoint Analytical, Inc.

PAH by 8270D SIM

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00082	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000854	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000907	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.000512	0.00067	"	"	"		"	"	J
Chrysene	0.000772	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00128	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.000897	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00145	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl

61.8 % 33-115

"

"

"

Surrogate: 4-Terphenyl-d14

73.4 % 33-122

"

"

"

Surrogate: Nitrobenzene-d5

64.8 % 29-110

"

"

"

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-054

Project: Noble - Roth 12-30

AST 0.5ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-02 (Soil)

Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1701	ZZZ	05/17/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 90.2 % 50-150 " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	ZZZ	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 116 % 70-130 " "
 Surrogate: Toluene-d8 103 % 70-130 " "
 Surrogate: 4-Bromofluorobenzene 107 % 70-130 " "

Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
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Origins Laboratory, Inc.

J. Bynon

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

AST 0.5ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-02 (Soil)
Waypoint Analytical, Inc.

PAH by 8270D SIM

2-Methylnaphthalene	0.00114	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.000744	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000712	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.000757	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	0.000669	0.00067	"	"	"		"	"	J
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00113	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00101	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	55.4 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	62.7 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	54.1 %	29-110			"		"	"	

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

PWV Floor 4ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-03 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.951	0.0991	mg/L	1	B2E1709	KAP	05/17/2022	05/18/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	191	25.0	mg/kg	1	B2E1701	ZZZ	05/17/2022	05/18/2022	
Residual Range Organics (C28-C40)	139	100	"	"	"	ZZZ	"	"	

Surrogate: o-Terphenyl	78.3 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	ZZZ	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	0.436	0.200	"	"	"	ZZZ	"	"	

Surrogate: 1,2-Dichloroethane-d4	122 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	106 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-054

Project: Noble - Roth 12-30

PWV Floor 4ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-03 (Soil)

Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	2.05	0.499	meq/L	10	[CALC]	KAP	05/17/2022	05/18/2022
Magnesium	ND	0.823	"	"	"	KAP	"	"
Sodium	1.08	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	7.98		pH Units	1	B2E1708	ACC	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.947		SAR	1	B2E1707	KAP	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.498	0.00500	mmhos/cm	1	B2E1708	ACC	05/17/2022	05/18/2022
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Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022
2-Methylnaphthalene	0.00121	0.00067	"	"	"		"	"
Acenaphthene	ND	0.00067	"	"	"		"	"
Anthracene	ND	0.00067	"	"	"		"	"
Benzo(a)anthracene	0.00163	0.00067	"	"	"		"	"

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

PWV Floor 4ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-03 (Soil)

Waypoint Analytical, Inc.

PAH by 8270D SIM

Benzo(a)pyrene	0.00182	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
Benzo(b)fluoranthene	0.002	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.000778	0.00067	"	"	"		"	"	
Chrysene	0.00216	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00231	0.00067	"	"	"		"	"	
Fluorene	0.00137	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00125	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00223	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	59.3 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	65.3 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	59.9 %	29-110		"	"	"

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

PWV E. Wall 3ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-04 (Soil) Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1701	ZZZ	05/17/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 86.9 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	ZZZ	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 117 % 70-130 " " "
Surrogate: Toluene-d8 104 % 70-130 " " "
Surrogate: 4-Bromofluorobenzene 102 % 70-130 " " "

Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
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Origins Laboratory, Inc.

J. Bynon

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

PWV E. Wall 3ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-04 (Soil)

Waypoint Analytical, Inc.

PAH by 8270D SIM

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.00151	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.00151	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	0.00127	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	0.000945	0.00067	"	"	"		"	"	
Chrysene	0.00161	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00261	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	0.00114	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00237	0.00067	"	"	"		"	"	

Surrogate: 2-Fluorobiphenyl	60 %	33-115		"	"	"
Surrogate: 4-Terphenyl-d14	73 %	33-122		"	"	"
Surrogate: Nitrobenzene-d5	61.2 %	29-110		"	"	"

Origins Laboratory, Inc.



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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-054

Project: Noble - Roth 12-30

FL-SEP 3ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-05 (Soil)
Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B2E1701	ZZZ	05/17/2022	05/18/2022	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 87.2 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	ZZZ	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 120 % 70-130 " " "
 Surrogate: Toluene-d8 104 % 70-130 " " "
 Surrogate: 4-Bromofluorobenzene 98.8 % 70-130 " " "

Waypoint Analytical, Inc.

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
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Origins Laboratory, Inc.

J. Bynon

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

FL-SEP 3ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-05 (Soil) Waypoint Analytical, Inc.

PAH by 8270D SIM

2-Methylnaphthalene	ND	0.00067	mg/Kg	1	L616936		05/18/2022	05/19/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	0.000825	0.00067	"	"	"		"	"	
Benzo(a)pyrene	0.000653	0.00067	"	"	"		"	"	J
Benzo(b)fluoranthene	0.000771	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.00145	0.00067	"	"	"		"	"	
Fluorene	ND	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.00151	0.00067	"	"	"		"	"	
Surrogate: 2-Fluorobiphenyl	56.3 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	66.6 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	56.9 %	29-110			"		"	"	

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-054

Project: Noble - Roth 12-30

FL-WH 3ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-06 (Soil)

Origins Laboratory, Inc.

DRO/ORO by EPA 8015D

Diesel (C10-C28)	31.3	25.0	mg/kg	1	B2E1701	ZZZ	05/17/2022	05/18/2022	
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	U

Surrogate: o-Terphenyl 92.4 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B2E1620	ZZZ	05/16/2022	05/17/2022	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Benzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	ZZZ	"	"	U
Toluene	ND	0.00200	"	"	"	ZZZ	"	"	U
Xylenes, total	ND	0.00200	"	"	"	ZZZ	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	ZZZ	"	"	U

Surrogate: 1,2-Dichloroethane-d4 121 % 70-130 " " "

Surrogate: Toluene-d8 102 % 70-130 " " "

Surrogate: 4-Bromofluorobenzene 105 % 70-130 " " "

Waypoint Analytical, Inc.

PAH by 8270D-SIM

1-Methylnaphthalene	ND	0.00067	mg/Kg	1	L617027		05/19/2022	05/19/2022	
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Origins Laboratory, Inc.

J. Bynon

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

FL-WH 3ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-06 (Soil) Waypoint Analytical, Inc.

PAH by 8270D-SIM

2-Methylnaphthalene	0.00131	0.00067	mg/Kg	1	L617027		05/19/2022	05/19/2022	
Acenaphthene	ND	0.00067	"	"	"		"	"	
Anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)anthracene	ND	0.00067	"	"	"		"	"	
Benzo(a)pyrene	ND	0.00067	"	"	"		"	"	
Benzo(b)fluoranthene	ND	0.00067	"	"	"		"	"	
Benzo(k)fluoranthene	ND	0.00067	"	"	"		"	"	
Chrysene	ND	0.00067	"	"	"		"	"	
Dibenz(a,h)anthracene	ND	0.00067	"	"	"		"	"	
Fluoranthene	0.000734	0.00067	"	"	"		"	"	
Fluorene	0.00102	0.00067	"	"	"		"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00067	"	"	"		"	"	
Naphthalene	ND	0.00067	"	"	"		"	"	
Pyrene	0.000651	0.00067	"	"	"		"	"	J
Surrogate: 2-Fluorobiphenyl	58.2 %	33-115			"		"	"	
Surrogate: 4-Terphenyl-d14	74.8 %	33-122			"		"	"	
Surrogate: Nitrobenzene-d5	61.8 %	29-110			"		"	"	

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

BG-1 1ft

5/12/2022 12:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y205388-07 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.595	0.0991	mg/L	1	B2E1709	KAP	05/17/2022	05/18/2022
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Metals by Saturated Paste by EPA 6010

Calcium	2.01	0.499	meq/L	10	[CALC]	KAP	05/17/2022	05/18/2022
Magnesium	1.23	0.823	"	"	"	KAP	"	"
Sodium	ND	0.435	"	"	"	KAP	"	"

pH in Soil by 9045D

pH	8.31		pH Units	1	B2E1708	ACC	05/17/2022	05/18/2022
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SAR by 20B Saturated Paste

SAR	0.250		SAR	1	B2E1707	KAP	05/17/2022	05/18/2022
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.325	0.00500	mmhos/cm	1	B2E1708	ACC	05/17/2022	05/18/2022
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Fremont Environmental
8305 6th St, PO Box 1289
Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1620 - EPA 5030 (soil)										
Blank (B2E1620-BLK1)					Prepared: 05/16/2022 Analyzed: 05/17/2022					
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	0.14		"	0.125		114	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

Origins Laboratory, Inc.



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Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1620 - EPA 5030 (soil)										
LCS (B2E1620-BS1)					Prepared: 05/16/2022 Analyzed: 05/17/2022					
1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.0972	0.0100	"	0.100		97.2	70-130			
Toluene	0.109	0.00200	"	0.100		109	70-130			
o-Xylene	0.106	0.00200	"	0.100		106	70-130			
m,p-Xylene	0.213	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		106	70-130			

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Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1620 - EPA 5030 (soil)										
Matrix Spike (B2E1620-MS1)		Source: Y205377-01			Prepared: 05/16/2022 Analyzed: 05/17/2022					
1,2,4-Trimethylbenzene	0.0901	0.00200	mg/kg	0.100	ND	90.1	70-130			
1,3,5-Trimethylbenzene	0.0916	0.00200	"	0.100	ND	91.6	70-130			
Benzene	0.0941	0.00200	"	0.100	ND	94.1	70-130			
Ethylbenzene	0.0987	0.00200	"	0.100	ND	98.7	70-130			
Naphthalene	0.0855	0.0100	"	0.100	ND	85.5	70-130			
Toluene	0.0990	0.00200	"	0.100	ND	99.0	70-130			
o-Xylene	0.0972	0.00200	"	0.100	ND	97.2	70-130			
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		118	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1620 - EPA 5030 (soil)										
Matrix Spike Dup (B2E1620-MSD1)		Source: Y205377-01			Prepared: 05/16/2022 Analyzed: 05/17/2022					
1,2,4-Trimethylbenzene	0.0937	0.00200	mg/kg	0.100	ND	93.7	70-130	3.85	20	
1,3,5-Trimethylbenzene	0.0946	0.00200	"	0.100	ND	94.6	70-130	3.20	20	
Benzene	0.0962	0.00200	"	0.100	ND	96.2	70-130	2.25	20	
Ethylbenzene	0.0981	0.00200	"	0.100	ND	98.1	70-130	0.569	20	
Naphthalene	0.0941	0.0100	"	0.100	ND	94.1	70-130	9.56	20	
Toluene	0.101	0.00200	"	0.100	ND	101	70-130	1.98	20	
o-Xylene	0.0976	0.00200	"	0.100	ND	97.6	70-130	0.370	20	
m,p-Xylene	0.195	0.00400	"	0.200	ND	97.5	70-130	0.0616	20	
Surrogate: 1,2-Dichloroethane-d4	0.15		"	0.125		119	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		105	70-130			

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Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1701 - EPA 3580										
Blank (B2E1701-BLK1)					Prepared: 05/17/2022 Analyzed: 05/18/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	24		"	24.9		95.6	50-150			

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1701 - EPA 3580										
LCS (B2E1701-BS1)					Prepared: 05/17/2022 Analyzed: 05/18/2022					
Diesel (C10-C28)	948	50.0	mg/kg	1000		94.8	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000		116	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	50-150			

Origins Laboratory, Inc.



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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1701 - EPA 3580

Matrix Spike (B2E1701-MS1)		Source: Y205376-10			Prepared: 05/17/2022 Analyzed: 05/18/2022					
Diesel (C10-C28)	921	50.0	mg/kg	1000	ND	92.1	70-130			
Residual Range Organics (C28-C40)	1200	200	"	1000	ND	120	70-130			
Surrogate: o-Terphenyl	59		"	49.8		119	50-150			

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Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 B2E1701 - EPA 3580										
Matrix Spike Dup (B2E1701-MSD1)										
					Source: Y205376-10					Prepared: 05/17/2022 Analyzed: 05/18/2022
Diesel (C10-C28)	824	50.0	mg/kg	1000	ND	82.4	70-130	11.1	35	
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130	15.8	35	
Surrogate: o-Terphenyl	40		"	49.8		79.5	50-150			

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Fremont Environmental

8305 6th St, PO Box 1289

Wellington CO 80549

Paul Henehan

Project Number: C022-054

Project: Noble - Roth 12-30

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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Saturated Paste - 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 B2E1708 - NO PREP

Blank (B2E1708-BLK1)

Prepared: 05/17/2022 Analyzed: 05/18/2022

pH	0.00		pH Units
Specific Conductance (EC)	ND	0.0300	mmhos/cm

Duplicate (B2E1708-DUP1)

Source: Y205376-01

Prepared: 05/17/2022 Analyzed: 05/18/2022

Specific Conductance (EC)	0.512	0.0300	mmhos/cm	0.447	13.4	25
pH	8.19		pH Units	8.16	0.367	25

Origins Laboratory, Inc.



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Fremont Environmental
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Wellington CO 80549

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 L616936 - 3550B

MSD (L 93334-MSD-L616936)		Source: 93334			Prepared: 05/18/2022 Analyzed: 05/19/2022					
Benzo(b)fluoranthene	0.0724	0.000585	mg/Kg	0.166	<0.000585	43.6	30-130	5.5	30	
Naphthalene	0.0874	0.000484	"	0.166	<0.000484	52.6	30-130	6.6	30	
Indeno(1,2,3-cd)pyrene	0.0937	0.000627	"	0.166	<0.000627	56.4	30-130	3.6	30	
Fluorene	0.104	0.000286	"	0.166	<0.000286	62.6	30-130	1.9	30	
Fluoranthene	0.102	0.000394	"	0.166	<0.000394	61.4	30-130	2	30	
Dibenz(a,h)anthracene	0.111	0.000614	"	0.166	<0.000614	66.8	30-130	0	30	
Benzo(k)fluoranthene	0.0849	0.000437	"	0.166	<0.000437	51.1	30-130	3.2	30	
Benzo(a)anthracene	0.117	0.000493	"	0.166	<0.000493	70.4	30-130	6.1	30	
Pyrene	0.0968	0.000643	"	0.166	<0.000643	58.3	30-130	0.9	30	
Acenaphthene	0.0946	0.000304	"	0.166	<0.000304	56.9	30-130	1.9	30	
2-Methylnaphthalene	0.097	0.000645	"	0.166	<0.000645	58.4	30-130	5.1	30	
1-Methylnaphthalene	0.0846	0.000364	"	0.166	<0.000364	50.9	30-130	2.7	30	
Benzo(a)pyrene	0.102	0.000468	"	0.166	<0.000468	61.4	30-130	2.6	30	
Chrysene	0.104	0.000624	"	0.166	<0.000624	62.6	30-130	7.7	30	
Anthracene	0.0978	0.000334	"	0.166	<0.000334	58.9	30-130	1.9	30	
Surrogate: Nitrobenzene-d5	59.6		"	0.332	211	59.6	29-110			
Surrogate: 4-Terphenyl-d14	74		"	0.332	238	74	33-122			
Surrogate: 2-Fluorobiphenyl	55.1		"	0.332	200	55.1	33-115			

MS (L 93334-MS-L616936)		Source: 93334			Prepared: 05/18/2022 Analyzed: 05/19/2022					
Fluorene	0.102	0.000286	mg/Kg	0.163	<0.000286	62.5	30-130			
Pyrene	0.0959	0.000643	"	0.163	<0.000643	58.8	30-130			
Naphthalene	0.0818	0.000484	"	0.163	<0.000484	50.1	30-130			
1-Methylnaphthalene	0.087	0.000364	"	0.163	<0.000364	53.3	30-130			
2-Methylnaphthalene	0.0921	0.000645	"	0.163	<0.000645	56.5	30-130			
Chrysene	0.0962	0.000624	"	0.163	<0.000624	59	30-130			
Fluoranthene	0.0999	0.000394	"	0.163	<0.000394	61.2	30-130			

Origins Laboratory, Inc.



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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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 L616936 - 3550B

MS (L 93334-MS-L616936)		Source: 93334			Prepared: 05/18/2022 Analyzed: 05/19/2022					
Indeno(1,2,3-cd)pyrene	0.0903	0.000627	mg/Kg	0.163	<0.000627	55.3	30-130			
Dibenz(a,h)anthracene	0.111	0.000614	"	0.163	<0.000614	68	30-130			
Acenaphthene	0.0928	0.000304	"	0.163	<0.000304	56.9	30-130			
Benzo(k)fluoranthene	0.0822	0.000437	"	0.163	<0.000437	50.4	30-130			
Benzo(b)fluoranthene	0.0765	0.000585	"	0.163	<0.000585	46.9	30-130			
Benzo(a)pyrene	0.0993	0.000468	"	0.163	<0.000468	60.9	30-130			
Benzo(a)anthracene	0.11	0.000493	"	0.163	<0.000493	67.4	30-130			
Anthracene	0.0959	0.000334	"	0.163	<0.000334	58.8	30-130			
Surrogate: 2-Fluorobiphenyl	49.3		"	0.326	200	49.3	33-115			
Surrogate: Nitrobenzene-d5	53		"	0.326	211	53	29-110			
Surrogate: 4-Terphenyl-d14	71.7		"	0.326	238	71.7	33-122			

LCS (LCS-L616936)		Prepared: 05/18/2022 Analyzed: 05/19/2022								
Benzo(k)fluoranthene	0.0956	0.000437	mg/Kg	0.167		57.2	30-130			
Dibenz(a,h)anthracene	0.126	0.000614	"	0.167		75.4	30-130			
Pyrene	0.128	0.000643	"	0.167		76.6	30-130			
Naphthalene	0.101	0.000484	"	0.167		60.4	30-130			
Indeno(1,2,3-cd)pyrene	0.123	0.000627	"	0.167		73.6	30-130			
Fluoranthene	0.14	0.000394	"	0.167		83.8	30-130			
Chrysene	0.123	0.000624	"	0.167		73.6	30-130			
Fluorene	0.125	0.000286	"	0.167		74.8	30-130			
Benzo(b)fluoranthene	0.104	0.000585	"	0.167		62.2	30-130			
2-Methylnaphthalene	0.114	0.000645	"	0.167		68.2	30-130			
Acenaphthene	0.115	0.000304	"	0.167		68.8	30-130			
Anthracene	0.116	0.000334	"	0.167		69.4	30-130			
1-Methylnaphthalene	0.105	0.000364	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.148	0.000493	"	0.167		88.6	30-130			

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

Paul Henehan
Project Number: C022-054
Project: Noble - Roth 12-30

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
Batch L616936 - 3550B										
LCS (LCS-L616936)					Prepared: 05/18/2022 Analyzed: 05/19/2022					
Benzo(a)pyrene	0.129	0.000468	mg/Kg	0.167		77.2	30-130			
Surrogate: Nitrobenzene-d5	68.4		"	0.333		68.4	29-110			
Surrogate: 4-Terphenyl-d14	84		"	0.333		84	33-122			
Surrogate: 2-Fluorobiphenyl	68.4		"	0.333		68.4	33-115			
LRB (LRB-L616936)					Prepared: 05/18/2022 Analyzed: 05/19/2022					
Benzo(a)pyrene	ND	0.00067	mg/Kg				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			
Surrogate: 4-Terphenyl-d14	63.9		"	0.333		63.9	33-122			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617027 - 3550B

MSD (L 91099-MSD-L617027)		Source: 91099			Prepared: 05/19/2022 Analyzed: 05/19/2022					
2-Methylnaphthalene	0.0861	0.00323	mg/Kg	0.166	<0.00323	51.8	30-130	4	30	
Acenaphthene	0.107	0.00152	"	0.166	<0.00152	64.4	30-130	3.8	30	
Anthracene	0.112	0.00167	"	0.166	<0.00167	67.4	30-130	0	30	
Benzo(b)fluoranthene	0.0684	0.00293	"	0.166	<0.00293	41.2	30-130	23.3	30	
Benzo(a)pyrene	0.11	0.00234	"	0.166	<0.00234	66.2	30-130	1.8	30	
1-Methylnaphthalene	0.0857	0.00182	"	0.166	<0.00182	51.6	30-130	4.6	30	
Benzo(a)anthracene	0.104	0.00247	"	0.166	<0.00247	62.6	30-130	0.9	30	
Benzo(k)fluoranthene	0.0751	0.00219	"	0.166	<0.00219	45.2	30-130	8.4	30	
Pyrene	0.128	0.00322	"	0.166	<0.00322	77.1	30-130	0.7	30	
Naphthalene	0.0833	0.00242	"	0.166	<0.00242	50.1	30-130	6.9	30	
Indeno(1,2,3-cd)pyrene	0.0973	0.00314	"	0.166	<0.00314	58.6	30-130	0.4	30	
Fluorene	0.0988	0.00143	"	0.166	<0.00143	59.5	30-130	1.4	30	
Fluoranthene	0.107	0.00197	"	0.166	<0.00197	64.4	30-130	1.8	30	
Dibenz(a,h)anthracene	0.0873	0.00307	"	0.166	<0.00307	52.5	30-130	1.9	30	
Chrysene	0.0953	0.00312	"	0.166	<0.00312	57.4	30-130	4.5	30	
Surrogate: 2-Fluorobiphenyl	54.9		"	0.331	188	54.9	33-115			
Surrogate: 4-Terphenyl-d14	77.3		"	0.331	249	77.3	33-122			
Surrogate: Nitrobenzene-d5	51		"	0.331	175	51	29-110			

MS (L 91099-MS-L617027)		Source: 91099			Prepared: 05/19/2022 Analyzed: 05/19/2022					
Indeno(1,2,3-cd)pyrene	0.0969	0.00314	mg/Kg	0.164	<0.00314	59	30-130			
Benzo(k)fluoranthene	0.069	0.00219	"	0.164	<0.00219	42	30-130			
Anthracene	0.112	0.00167	"	0.164	<0.00167	68.2	30-130			
Benzo(a)pyrene	0.108	0.00234	"	0.164	<0.00234	65.8	30-130			
Benzo(b)fluoranthene	0.0865	0.00293	"	0.164	<0.00293	52.7	30-130			
2-Methylnaphthalene	0.0827	0.00323	"	0.164	<0.00323	50.4	30-130			
Chrysene	0.0997	0.00312	"	0.164	<0.00312	60.7	30-130			

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Project: Noble - Roth 12-30

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Waypoint Analytical, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617027 - 3550B

MS (L 91099-MS-L617027)		Source: 91099			Prepared: 05/19/2022 Analyzed: 05/19/2022					
Dibenz(a,h)anthracene	0.0856	0.00307	mg/Kg	0.164	<0.00307	52.1	30-130			
Fluorene	0.0974	0.00143	"	0.164	<0.00143	59.3	30-130			
Acenaphthene	0.103	0.00152	"	0.164	<0.00152	62.8	30-130			
Naphthalene	0.0777	0.00242	"	0.164	<0.00242	47.3	30-130			
Pyrene	0.127	0.00322	"	0.164	<0.00322	77.4	30-130			
Fluoranthene	0.105	0.00197	"	0.164	<0.00197	64	30-130			
Benzo(a)anthracene	0.105	0.00247	"	0.164	<0.00247	64	30-130			
1-Methylnaphthalene	0.0818	0.00182	"	0.164	<0.00182	49.8	30-130			
Surrogate: 4-Terphenyl-d14	80.7		"	0.328	249	80.7	33-122			
Surrogate: 2-Fluorobiphenyl	53		"	0.328	188	53	33-115			
Surrogate: Nitrobenzene-d5	46.6		"	0.328	175	46.6	29-110			

LCS (LCS-L617027)		Prepared: 05/19/2022 Analyzed: 05/19/2022								
Acenaphthene	0.0897	0.000304	mg/Kg	0.167		53.7	30-130			
1-Methylnaphthalene	0.0864	0.000364	"	0.167		51.7	30-130			
Anthracene	0.0914	0.000334	"	0.167		54.7	30-130			
Benzo(a)anthracene	0.115	0.000493	"	0.167		68.8	30-130			
Benzo(a)pyrene	0.102	0.000468	"	0.167		61	30-130			
Naphthalene	0.0878	0.000484	"	0.167		52.5	30-130			
2-Methylnaphthalene	0.094	0.000645	"	0.167		56.2	30-130			
Pyrene	0.0961	0.000643	"	0.167		57.5	30-130			
Benzo(b)fluoranthene	0.0873	0.000585	"	0.167		52.2	30-130			
Indeno(1,2,3-cd)pyrene	0.126	0.000627	"	0.167		75.4	30-130			
Fluorene	0.0894	0.000286	"	0.167		53.5	30-130			
Fluoranthene	0.1	0.000394	"	0.167		59.8	30-130			
Dibenz(a,h)anthracene	0.137	0.000614	"	0.167		82	30-130			
Chrysene	0.101	0.000624	"	0.167		60.4	30-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L617027 - 3550B

LCS (LCS-L617027)

Prepared: 05/19/2022 Analyzed: 05/19/2022

Benzo(k)fluoranthene	0.0949	0.000437	mg/Kg	0.167		56.8	30-130			
Surrogate: Nitrobenzene-d5	60.3		"	0.333		60.3	29-110			
Surrogate: 2-Fluorobiphenyl	56.7		"	0.333		56.7	33-115			
Surrogate: 4-Terphenyl-d14	73.5		"	0.333		73.5	33-122			

LRB (LRB-L617027)

Prepared: 05/19/2022 Analyzed: 05/19/2022

Benzo(k)fluoranthene	ND	0.00067	mg/Kg				-			
Naphthalene	ND	0.00067	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Chrysene	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	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	61.5		"	0.333		61.5	29-110			
Surrogate: 4-Terphenyl-d14	71.1		"	0.333		71.1	33-122			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			

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Notes and Definitions

U Sample is Non-Detect.

J Estimated Value. Analyte below reported quantitation limit.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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