

FREMONT ENVIRONMENTAL INC.

May 20, 2022

Ms. Erica Zuniga
Noble Energy Inc.
2115 117th 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

<i>Third Party Removal Date</i>									
<i>Sample taken? Location/ Sample</i>									
<i>PID Readings</i>									
<i>Photo Number(s)</i>									
Other Facility Equipment									
<i>Equipment type</i>									
<i>Equipment Condition Age</i>									
<i>Soil impacts</i>									
<i>PID Readings</i>									
<i>Sample taken? Location/ Sample</i>									
<i>Photo Number(s)</i>									
<i>Other observations regarding other facility or third party equipment:</i>									
Summary									
<i>Was impacted soil identified?</i> <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards									
<i>Total number of samples field screened:</i>					<i>Total number of samples collected:</i>				
<i>Highest PID Reading:</i>					<i>Total number of samples submitted to lab for analysis: 2</i>				
<i>If more than 10 cubic yards of impacted soil were observed:</i>									
<i>Vertical extent:</i>					<i>Estimated spill volume:</i>				
<i>Lateral extent:</i>					<i>Volume of soil removed:</i>				
<i>Is additional investigation required?</i>									
<i>Was groundwater encountered during the investigation?</i> <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									
<i>Measured depth to groundwater:</i>					<i>Was remedial groundwater removal conducted? Yes <input checked="" type="checkbox"/> No</i>				
<i>Date Groundwater was encountered:</i>					<i>Commencement date of removal:</i>				
<i>Sheen on groundwater? Yes <input checked="" type="checkbox"/> No</i>					<i>Volume of groundwater removed prior to sampling:</i>				
<i>Free product observed? Yes No</i>					<i>Volume of groundwater removed post sampling:</i>				
<i>Total number of samples collected:</i>					<i>Total Volume of groundwater removed:</i>				
<i>Total number of samples submitted to lab for analysis: 1</i>									

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)									
Buried or Partially Buried Vessels									
Tank Contents									
Size (barrels)									
Age									
Construction Material									
Visual Integrity of Tank									
Condition of tank Foundation									
PID Readings									
Condition of Jumps Lines									
PID Readings									
Sample taken? Location/Sample ID#									
Photo Number(s)									
Other observations regarding partially buried vessels:									
Summary									
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date Groundwater was encountered:					Commencement date of removal:				
Sheen on groundwater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					Volume of groundwater removed prior to sampling:				
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> 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									

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
RUMSEY 3-1216 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)	Naphthalene (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)	Fluoranthene (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	9.10	0.370	0.140
BG-1 2 Ft	4/19/2022	2	4.28	7.72	2.96	0.95
Table 915-1 Limits			<4	6-8.3	<6	2

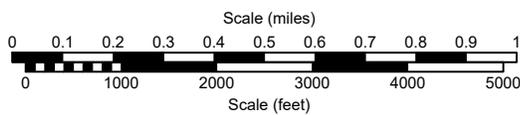
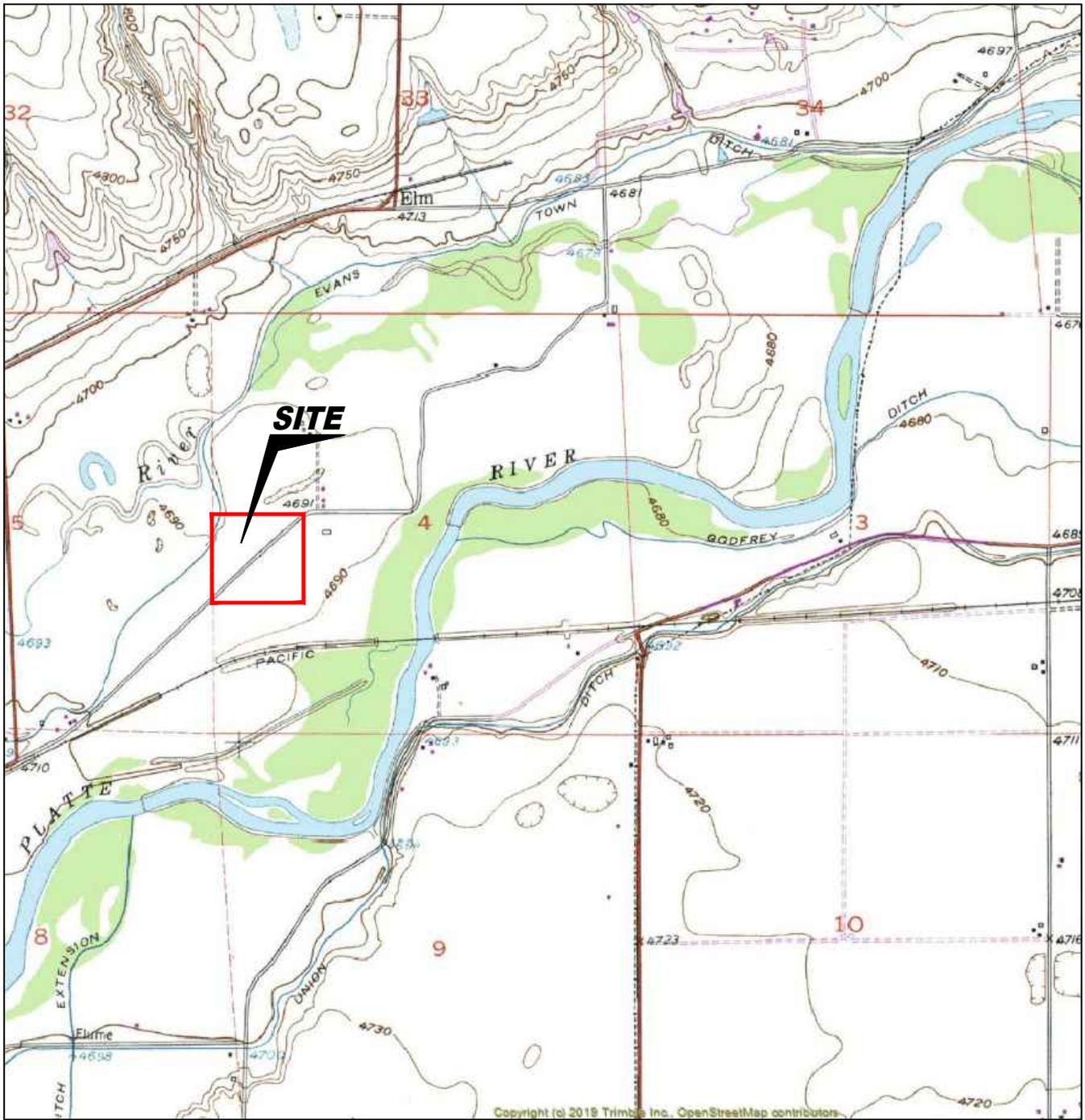
Bold face values exceed the COGCC Limits

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





LEGEND

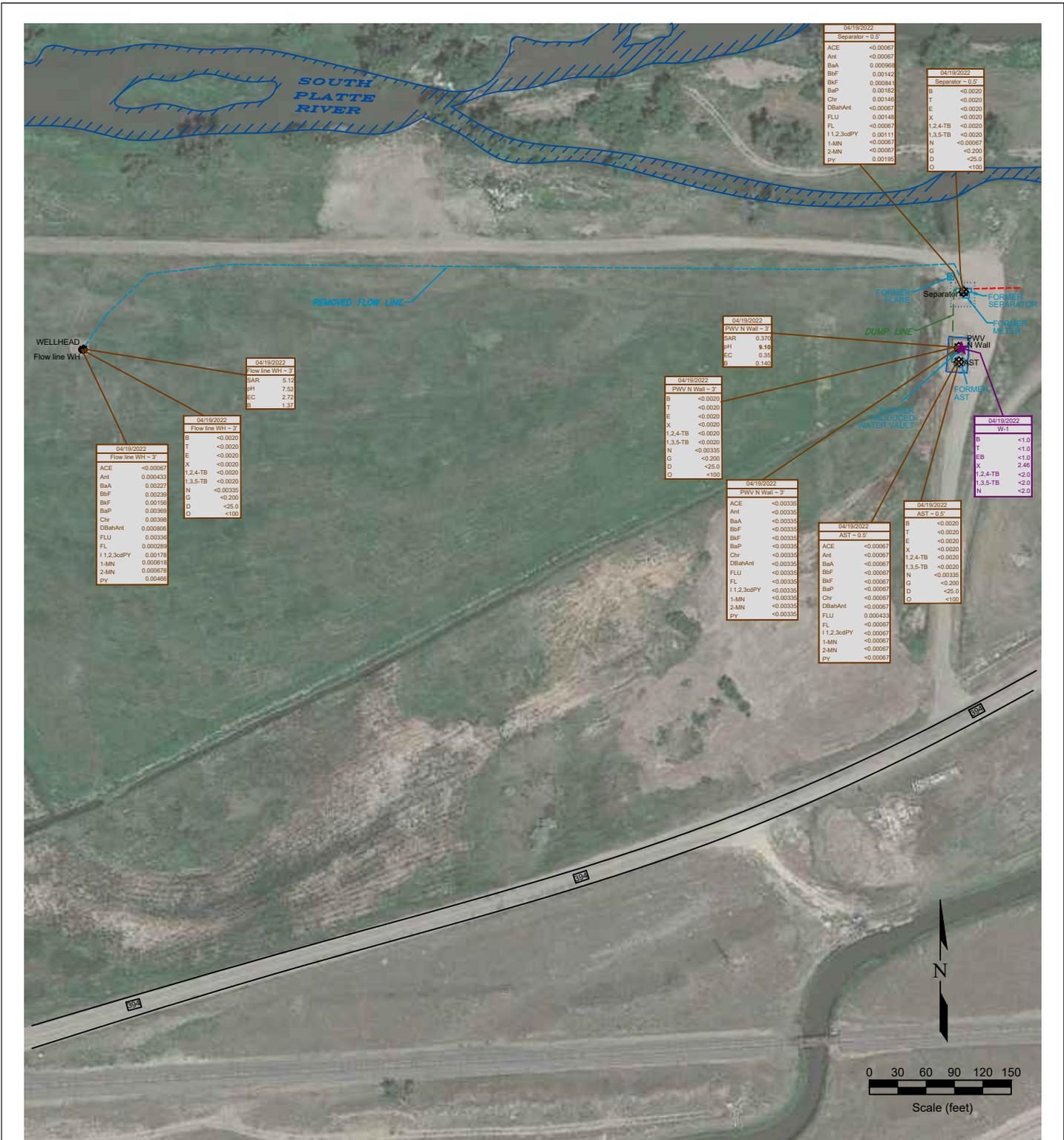
- WELL HEAD LOCATION
- ABOVE GROUND STORAGE TANK
- FORMER FACILITY
- FLOW LINE
- CONTAINMENT BERM
- CONTAINMENT WALL
- FENCE LINE

**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. C022-042	API #	Facility # 329883
Date 5/24/22	Remediation # 20610	Filename 22042Q





04/19/2022	
Separator - 1.5'	
ACE	<0.00067
Ant	<0.00067
BaA	0.000968
BbF	0.00142
BkF	0.00084
BaP	0.00182
Chr	0.00148
DBahAnt	<0.00067
FLU	0.00148
FL	<0.00067
1,1,2,3cdPY	0.00111
1-MN	<0.00067
2-MN	<0.00067
Py	0.00195

04/19/2022	
Separator - 0.5'	
B	<0.0020
T	<0.0020
E	<0.0020
X	<0.0020
1,2,4-TB	<0.0020
1,3,5-TB	<0.0020
N	<0.0007
G	<0.200
D	<25.0
O	<100

04/19/2022	
Flow line WH - 3'	
SAR	5.12
pH	7.52
EC	2.72
B	1.37

04/19/2022	
Flow line WH - 3'	
ACE	<0.00067
Ant	0.000433
BaA	0.00227
BbF	0.00239
BkF	0.00156
BaP	0.00369
Chr	0.00398
DBahAnt	0.000806
FLU	0.00336
FL	0.00289
1,1,2,3cdPY	0.00178
1-MN	0.000618
2-MN	0.000678
Py	0.00466

04/19/2022	
Flow line WH - 3'	
B	<0.0020
T	<0.0020
E	<0.0020
X	<0.0020
1,2,4-TB	<0.0020
1,3,5-TB	<0.0020
N	<0.0035
G	<0.200
D	<25.0
O	<100

04/19/2022	
PWV N Wall - 5'	
SAR	0.370
pH	9.16
EC	0.35
B	0.140

04/19/2022	
PWV N Wall - 3'	
B	<0.0020
T	<0.0020
E	<0.0020
X	<0.0020
1,2,4-TB	<0.0020
1,3,5-TB	<0.0020
N	<0.0035
G	<0.200
D	<25.0
O	<100

04/19/2022	
PWV N Wall - 3'	
ACE	<0.00336
Ant	<0.00336
BaA	<0.00336
BbF	<0.00336
BkF	<0.00336
BaP	<0.00336
Chr	<0.00336
DBahAnt	<0.00336
FLU	<0.00336
FL	<0.00336
1,1,2,3cdPY	<0.00336
1-MN	<0.00336
2-MN	<0.00336
Py	<0.00336

04/19/2022	
AST - 0.5'	
ACE	<0.00067
Ant	<0.00067
BaA	<0.00067
BbF	<0.00067
BkF	<0.00067
BaP	<0.00067
Chr	<0.00067
DBahAnt	<0.00067
FLU	0.000433
FL	<0.00067
1,1,2,3cdPY	<0.00067
1-MN	<0.00067
2-MN	<0.00067
Py	<0.00067

04/19/2022	
AST - 0.5'	
B	<0.0020
T	<0.0020
E	<0.0020
X	<0.0020
1,2,4-TB	<0.0020
1,3,5-TB	<0.0020
N	<0.0035
G	<0.200
D	<25.0
O	<100

04/19/2022	
W-1	
B	<1.0
T	<1.0
E	<1.0
X	2.46
1,2,4-TB	<2.0
1,3,5-TB	<2.0
N	<2.0

LEGEND

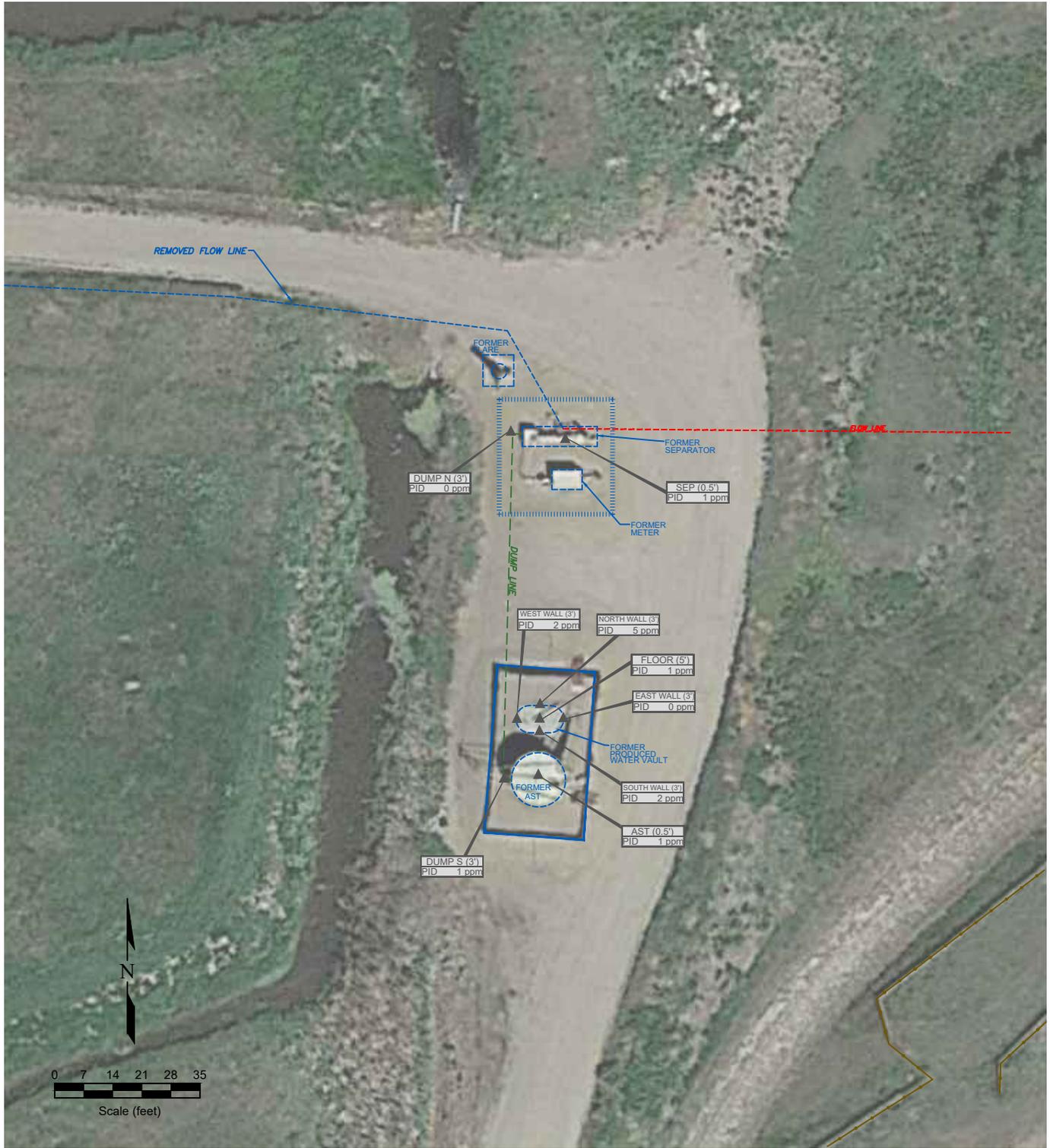
WELL HEAD LOCATION (star icon)
 WATER SAMPLE LOCATION (circle icon)
 SOIL SAMPLE LOCATION (square icon)
 ABOVE GROUND STORAGE TANK (dashed line icon)
 FORMER FACILITY (dotted line icon)
 FLOW LINE (solid line icon)
 CONTAINMENT BERM (dashed line icon)
 FENCE LINE (solid line icon)

04/19/2022	DATE SAMPLED	04/19/2022	DATE SAMPLED
Flow line WH - 3'	SAMPLE ID and DEPTH (ft)	AST - 0.5'	SAMPLE ID and DEPTH (ft)
ACE	<0.00067	B	<0.0020
Ant	0.000433	T	<0.0020
BaA	0.00227	E	<0.0020
BbF	0.00239	X	<0.0020
BkF	0.00156	1,2,4-TB	<0.0020
BaP	0.00369	1,3,5-TB	<0.0020
Chr	0.00398	N	<0.0035
DBahAnt	0.000806	G	<0.200
FLU	0.00336	D	<25.0
FL	0.00289	O	<100
1,1,2,3cdPY	0.00178		
1-MN	0.000618		
2-MN	0.000678		
Py	0.00466		

04/19/2022	DATE SAMPLED	04/19/2022	DATE SAMPLED
Flow line WH - 3'	SAMPLE ID & DEPTH (ft)	W-1	DATE SAMPLED
SAR	5.12	B	<1.0
pH	7.52	T	<1.0
EC	2.72	E	<1.0
B	1.37	X	2.46
		1,2,4-TB	<2.0
		1,3,5-TB	<2.0
		N	<2.0

Figure 3
SOIL CHEMISTRY WITH GROUNDWATER CHEMISTRY MAP
 April 19, 2022
 Noble Energy, Inc.
 Rumsey 3-12i6 Tank Battery
 NWSW Sec. 3, T4N, R66W, 6th PM
 Weld County, Colorado
 40.33982°, -104.77205°

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



LEGEND

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

PID
 0.8 ppm
 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. C022-042	API #	Facility # 329883
Date 5/24/22	Remediation # 20610	Filename 22042QQ





#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

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 ^{(1)?}	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ^{(1)?}	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ^{(1)?}	<input checked="" type="checkbox"/>	<input checked="" 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 ^{(1)?}		<input checked="" type="checkbox"/>		No Sample times
Is a chain-of-custody (COC) present and filled out completely ^{(1)?}	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ^{(1)?}	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ^{(1)?}	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ^{(1)?}	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.		<input checked="" type="checkbox"/>		
Are samples preserved that require preservation and was it checked ^{(1)?} (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	

Additional Comments (if any):
cannot run TDS/anions on W1-did not receive the poly

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

Reviewed by (Project Manager) JS

Date/Time Reviewed 4-21-22

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

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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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.



Jen Pellegrini For Noelle Doyle Mathis, President

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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

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: <i>o</i> -Terphenyl	79.7 %		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	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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Fremont Environmental
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 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.



Jen Pellegrini For Noelle Doyle Mathis, President

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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

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			"	"	"	
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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	97.8 %		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	0.000433	0.000394	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.



Jen Pellegrini For Noelle Doyle Mathis, President

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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

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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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
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Batch B2D2025 - EPA 5030B (Water)

Blank (B2D2025-BLK1)

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B2D2025 - EPA 5030B (Water)

LCS (B2D2025-BS1)

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
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Batch B2D2025 - EPA 5030B (Water)

Matrix Spike (B2D2025-MS1)	Source: Y204386-02			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
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Batch B2D2025 - EPA 5030B (Water)

Matrix Spike Dup (B2D2025-MSD1)	Source: Y204386-02			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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 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
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Batch B2D2111 - EPA 5030 (soil)

Blank (B2D2111-BLK1)

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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 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
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Batch B2D2111 - EPA 5030 (soil)

LCS (B2D2111-BS1)

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
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Batch B2D2111 - EPA 5030 (soil)

Matrix Spike (B2D2111-MS1)	Source: Y204430-01			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
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Batch B2D2111 - EPA 5030 (soil)

Matrix Spike Dup (B2D2111-MSD1)	Source: Y204430-01			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			

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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
Batch B2D2203 - EPA 3550B										
Blank (B2D2203-BLK1)										
					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			

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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
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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Paul Henehan
 Project Number: C022-042
 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
Batch B2D2103 - NO PREP										
Duplicate (B2D2103-DUP1)		Source: Y204206-01			Prepared: 04/21/2022 Analyzed: 04/22/2022					
pH	7.86		pH Units		7.92			0.760	25	
Batch B2D2104 - NO PREP										
Blank (B2D2104-BLK1)		Prepared: 04/21/2022 Analyzed: 04/22/2022								
Specific Conductance (EC)	ND	0.00500	mmhos/cm							U
Duplicate (B2D2104-DUP1)		Source: Y204206-01			Prepared: 04/21/2022 Analyzed: 04/22/2022					
Specific Conductance (EC)	0.530	0.00500	mmhos/cm		0.524			1.25	25	

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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

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
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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 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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