

FREMONT ENVIRONMENTAL INC.

February 9, 2021

Mr. Jacob Evans
Noble Energy
2115 117th Avenue
Greeley, CO 80634

Subject: **Excavation Report**
 Northrup C8-73HN
 API # 05-123-34287
 NWNE Sec 8, T4N, R64W
 Weld County, Colorado
 Fremont Project No. C020-101
 Facility #478799, Remediation #16173

Dear Mr. Evans:

Enclosed please find a copy of the above-referenced Excavation Report for the Northrup C8-73HN water vault release site in Weld County, Colorado. The enclosed report describes excavation actions to remove impacted soil from the site. Groundwater was not encountered at the site.

Since all impacted soil has been removed from the site, Noble Energy Inc. should request that a no further action (NFA) determination be provided by the COGCC.

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.

A handwritten signature in blue ink, appearing to read "Paul V. Henahan".

Paul V. Henahan, P.E.
Senior Consultant

Enclosure

EXCAVATION REPORT
NOBLE ENERGY INC.
NORTHROP C8-73HN
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-101
FACILITY #478799, REMEDIATION #16173

Prepared by:

Fremont Environmental Inc.
1759 Redwing Lane
Broomfield, CO 80020
(303) 956-8714

February 9, 2021

TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 BACKGROUND INFORMATION	1
2.1 Site Location	1
2.2 Site History	1
3.0 FIELD ACTIVITIES	1
4.0 DISCUSSION	3
5.0 REMARKS	3

Tables

Table 1:	Summary of Volatile Organic Petroleum Constituents in Soil Chemistry Data
Table 2:	Summary of Polycyclic Aromatic Hydrocarbons in Soil Chemistry Data
Table 3:	Summary of Inorganics in Soil Chemistry Data

Figures

Figure 1:	Site Location Map
Figure 2:	Site Map
Figure 3:	Excavation and Sample Locations for Laboratory Analyses

Appendix

Appendix A:	Laboratory Documentation
-------------	--------------------------

EXCAVATION REPORT
NOBLE ENERGY INC.
NORTHRUP C8-73HN
WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-101
FACILITY #478799, REMEDIATION #16173

1.0 INTRODUCTION

The purpose of this document is to present information collected during the four-day excavation of petroleum-impacted soil at the former Northrup C8-73HN facility in Weld County, Colorado. This excavation project was completed on January 29, 2021.

2.0 BACKGROUND INFORMATION

2.1 Site Location

The Northrup C8-73HN site is located approximately four miles south of Kersey, Colorado in Weld County as shown on Figure 1. The site is located in an agricultural area approximately 0.4 miles west of the intersection of County Road 48 and County Road 53. The location is further described as the NW $\frac{1}{4}$ of the NE $\frac{1}{4}$ of Section 8, Township 4N, Range 64W.

2.2 Site History

The site's excavation area consisted of the former Northrup C8-73HN water vaults. The Northrup C8-73HN well was drilled in 2011 to a vertical depth of 6,856 feet. Soil impacts were identified at the water vault location during its abandonment.

3.0 FIELD ACTIVITIES

Remediation efforts consisted of the excavation of petroleum-impacted soil at this site. The soil consisted of clay that extends to a depth of approximately nine feet. The clay is

underlain by a moist, fine sand. Groundwater was not encountered during the excavation work. The 60' x 40' x 10.5' deep excavated area is shown on Figure 3.

The excavation project was completed at the former water vault location on January 29, 2021. Soil impacts were removed from the area surrounding the former water vaults. The sidewall samples were collected as grab samples on the excavation wall at depth of nine feet and the floor samples were collected at approximately 10.5 feet. The sidewall and floor samples collected upon completion of the excavation indicated that no residual soil impacts were present.

The soil samples were analyzed by Summit Scientific Inc. of Golden, Colorado for benzene, toluene, ethylbenzene and total xylenes (BTEX), naphthalene, Total Petroleum Hydrocarbons - Gasoline Range Organics (TPH-GRO) by EPA method 8260B, TPH - Diesel Range Organics (TPH-DRO) and Extended Range Organics (TPH-ORO) by EPA method 8015. In addition, Polycyclic Aromatic Hydrocarbons (PAH) Acenaphthene, Anthracene, Benzo (a) anthracene, Benzo (a) pyrene, Benzo (b) flouroanthene, Chrysene, Dibenz (a,h) anthracene, Flouroanthene, Flourene, Indeno (1,2,3-cd) pyrene, Pyrene, 1-Methylnaphthalene, 2-Methylnaphthalene by EPA method 8270D were analyzed. The laboratory report and chain-of-custody documentation are included in Appendix A.

A summary of the laboratory data for the soil samples is included in Table 1. The laboratory analyses indicated that all 13 soil samples collected from the sidewalls and floor of the excavation achieved the COGCC Table 915-1 standards.

A total of 590 cubic yards of petroleum impacted soil was removed by 4X Industrial Services Inc. from the location. The impacted soil was disposed of at the North Weld

Landfill in Ault, Colorado as non-hazardous waste. Therefore, Noble should request a no further action (NFA) determination from the COGCC.

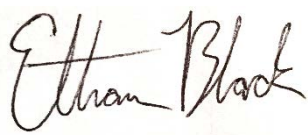
4.0 DISCUSSION

As demonstrated by the soil sampling, the petroleum impacted soil was removed from the site by excavation after abandonment of the facility. This was confirmed by the analyses of the soil samples collected from the exterior sidewalls and floor which were below the COGCC Table 910-1 standards. Approximately 590 cubic yards of impacted soil was removed and transported to the landfill. Therefore, Noble should request a no further action (NFA) determination from the COGCC.

5.0 REMARKS

The discussion and conclusions contained in this report represent our professional opinions. These opinions are based on currently available information and are arrived at in accordance with currently accepted hydrogeologic and engineering practices at this time and location. Other than this, no warranty is implied or intended.

This report was prepared by **FREMONT ENVIRONMENTAL INC.**



Ethan D. Black

Geologist

2/9/21
Date_____

Reviewed by:



2/9/21

Date_____

Paul V. Henahan, P.E.

Senior Consultant

TABLE

TABLE 1
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
NORTHRUP C8-73HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-101

Sample	Depth (ft)	Date Sampled	Location	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)
SS-01 9 Ft	9	1/25/2021	N Wall - E	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-02 9 Ft	9	1/25/2021	E Wall - N	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-03 9 Ft	9	1/25/2021	E Wall - S	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-04 9 Ft	9	1/25/2021	S Wall - E	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-05 10.5 Ft	10.5	1/25/2021	Floor - E	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-06 9 Ft	9	1/27/2021	S Wall - C	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-07 10.5 Ft	10.5	1/27/2021	Floor- C	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-08 9 Ft	9	1/27/2021	N Wall - C	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-09 9 Ft	9	1/29/2021	S Wall - W	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-10 10.5 Ft	10.5	1/29/2021	W Floor	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-11 9 Ft	9	1/29/2021	N Wall - W	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-12 9 Ft	9	1/29/2021	W Wall - S	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
SS-13 9 Ft	9	1/29/2021	W Wall - N	<0.0020	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.010	<0.50	<50	<50
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)

TABLE 2
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
NORTHROP C8-73HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-101

Sample	Depth (ft)	Date Sampled	Location	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 (1,2,3-cd) pyrene (mg/kg)	1-Methyl - naphthalene (mg/kg)	2-Methyl- naphthalene (mg/kg)	Pyrene (mg/kg)
SS-01 9 Ft	9	1/25/2021	N Wall - E	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-02 9 Ft	9	1/25/2021	E Wall - N	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-03 9 Ft	9	1/25/2021	E Wall - S	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-04 9 Ft	9	1/25/2021	S Wall - E	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-05 10.5 Ft	10.5	1/25/2021	Floor - E	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-06 9 Ft	9	1/27/2021	S Wall - C	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-07 10.5 Ft	10.5	1/27/2021	Floor - C	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-08 9 Ft	9	1/27/2021	N Wall - C	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-09 9 Ft	9	1/29/2021	S Wall - W	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-10 10.5 Ft	11	1/29/2021	W Floor	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-11 9 Ft	9	1/29/2021	N Wall - W	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-12 9 Ft	9	1/29/2021	W Wall - S	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
SS-13 9 Ft	9	1/29/2021	W Wall - N	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.010	<0.010	<0.010	<0.005
COGCC Table 915-1 Limits (Residential SSL)				360	360	360	360	360	360	360	360	360	360	360	360	360	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

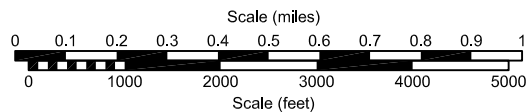
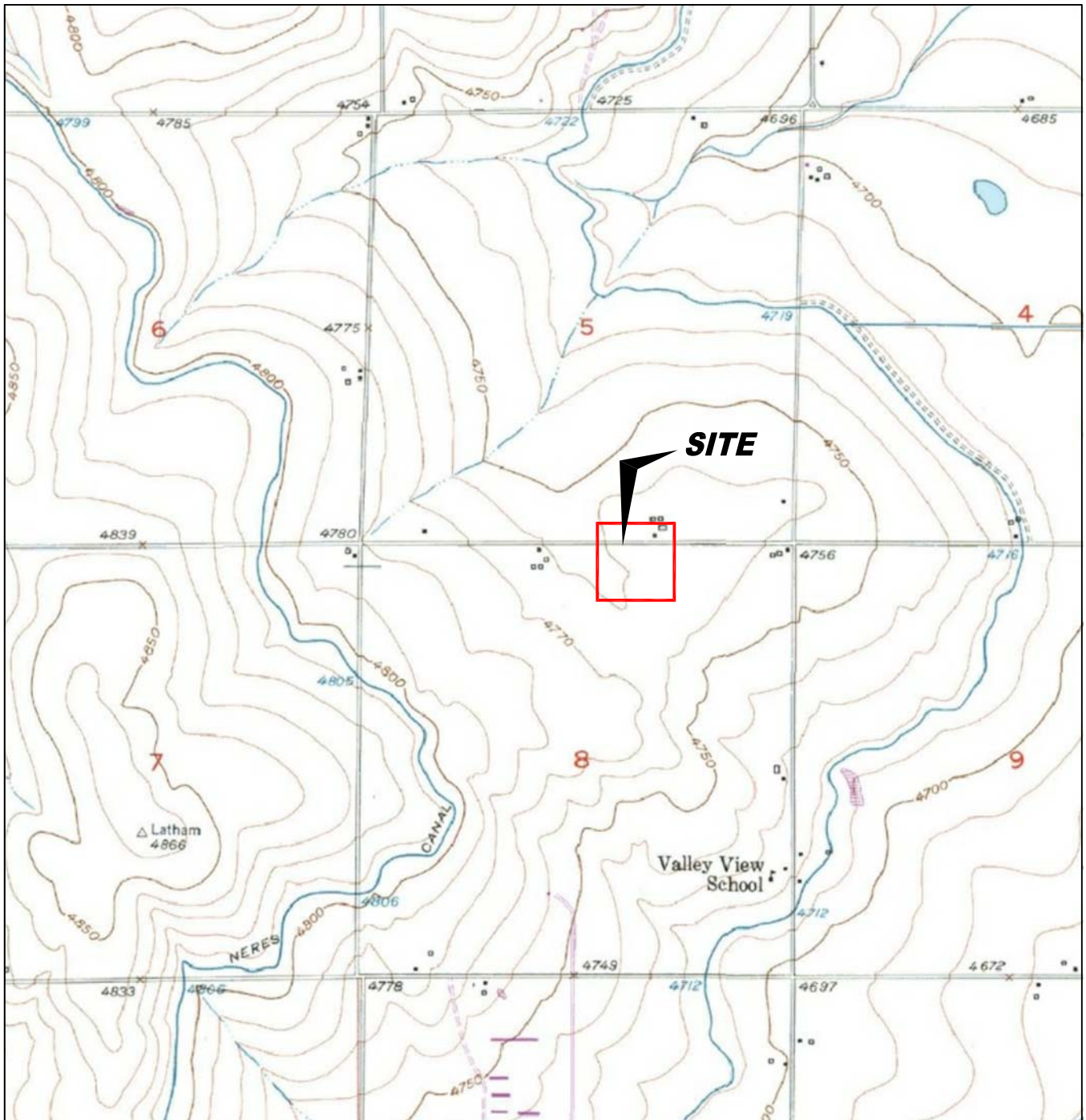
Bold faced values exceed the COGCC Table 915-1 concentrations
Blue highlighted 915-1 Limits indicate the referenced soil screening level (SSL)

TABLE 3
SUMMARY OF INORGANIC SOIL CHEMISTRY DATA
NOBLE ENERGY INC.
NORTHROP C8-73HN, WELD COUNTY, COLORADO
FREMONT PROJECT NO. C020-101

SAMPLE LOCATION	DEPTH (FT)	DATE SAMPLED	BORON (mg/L)
SS-01 9 Ft	9	1/25/2021	0.708
SS-02 9 Ft	9	1/25/2021	0.747
SS-03 9 Ft	9	1/25/2021	0.651
SS-04 9 Ft	9	1/25/2021	0.838
SS-05 10.5 Ft	10.5	1/25/2021	0.753
SS-06 9 Ft	9	1/27/2021	1.3
SS-07 10.5 Ft	10.5	1/27/2021	1.0
SS-08 9 Ft	9	1/27/2021	1.0
SS-09 9 Ft	9	1/29/2021	1.7
SS-10 10.5 Ft	11	1/29/2021	1.5
SS-11 9 Ft	9	1/29/2021	1.7
SS-12 9 Ft	9	1/29/2021	0.4
SS-13 9 Ft	9	1/29/2021	0.7
Table 915-1 Limits			2

Bold face values exceed the COGCC Limits

FIGURES



USGS 7.5 MINUTE SERIES (TOPOGRAPHIC)

Figure 1
SITE LOCATION MAP

Noble Energy, Inc. ~ Northrup C8-73HN
NWNE Sec. 8, T4N, R68W ~ 40.33379°, -104.571996°
Weld County, Colorado

Project No.
CO20-101

Prepared by

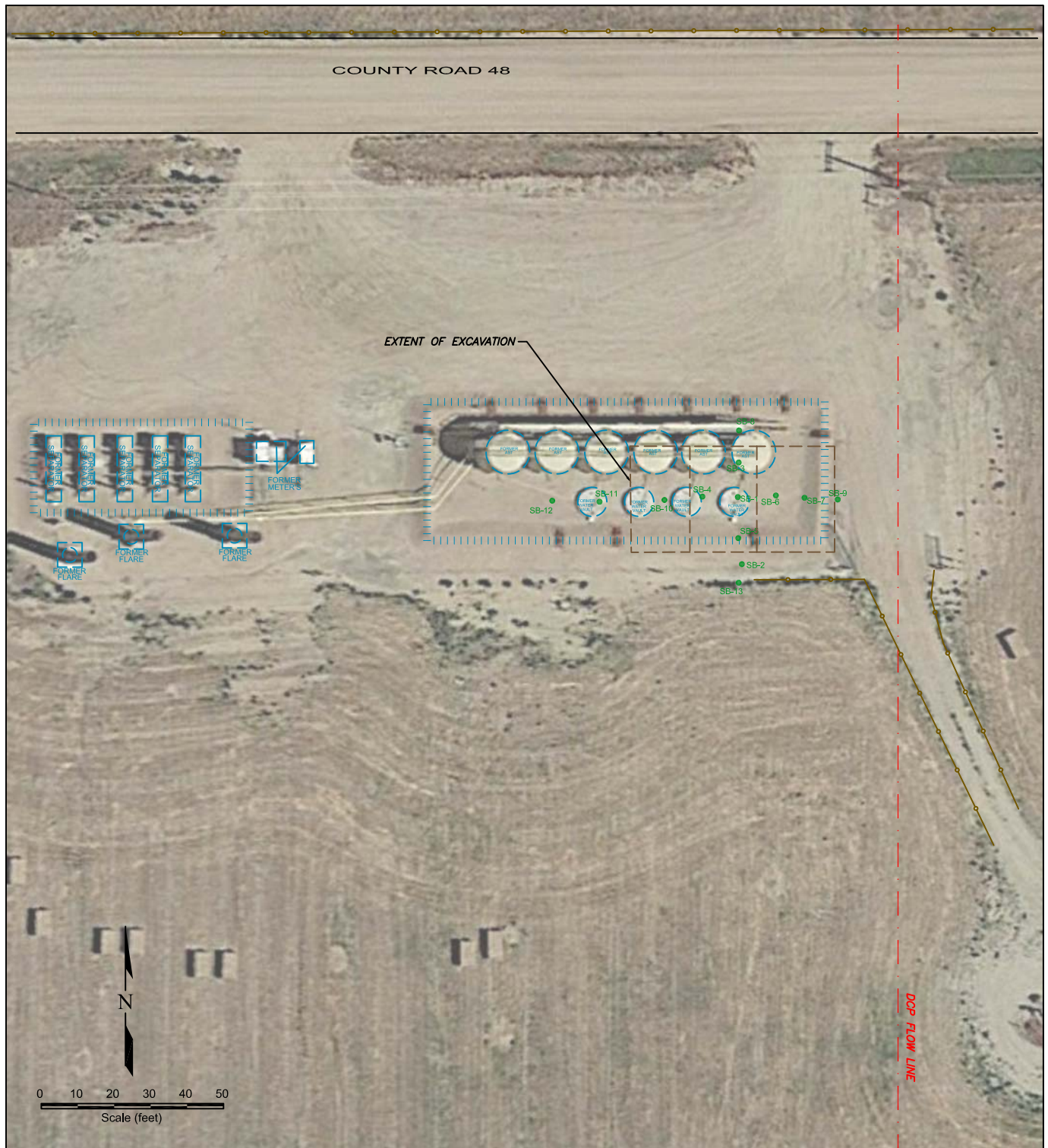
Drawn by
TA

Date
2/1/21

Reviewed by
EB

Filename
20101T





LEGEND

● SOIL BORING	FORMER ABOVE GROUND STORAGE TANK	--- DCP FLOW LINE
 CONTAINMENT BERM	FORMER FORMER FACILITY	—○— FENCE LINE
 EXTENT OF EXCAVATION		

**Figure 2
SITE MAP**

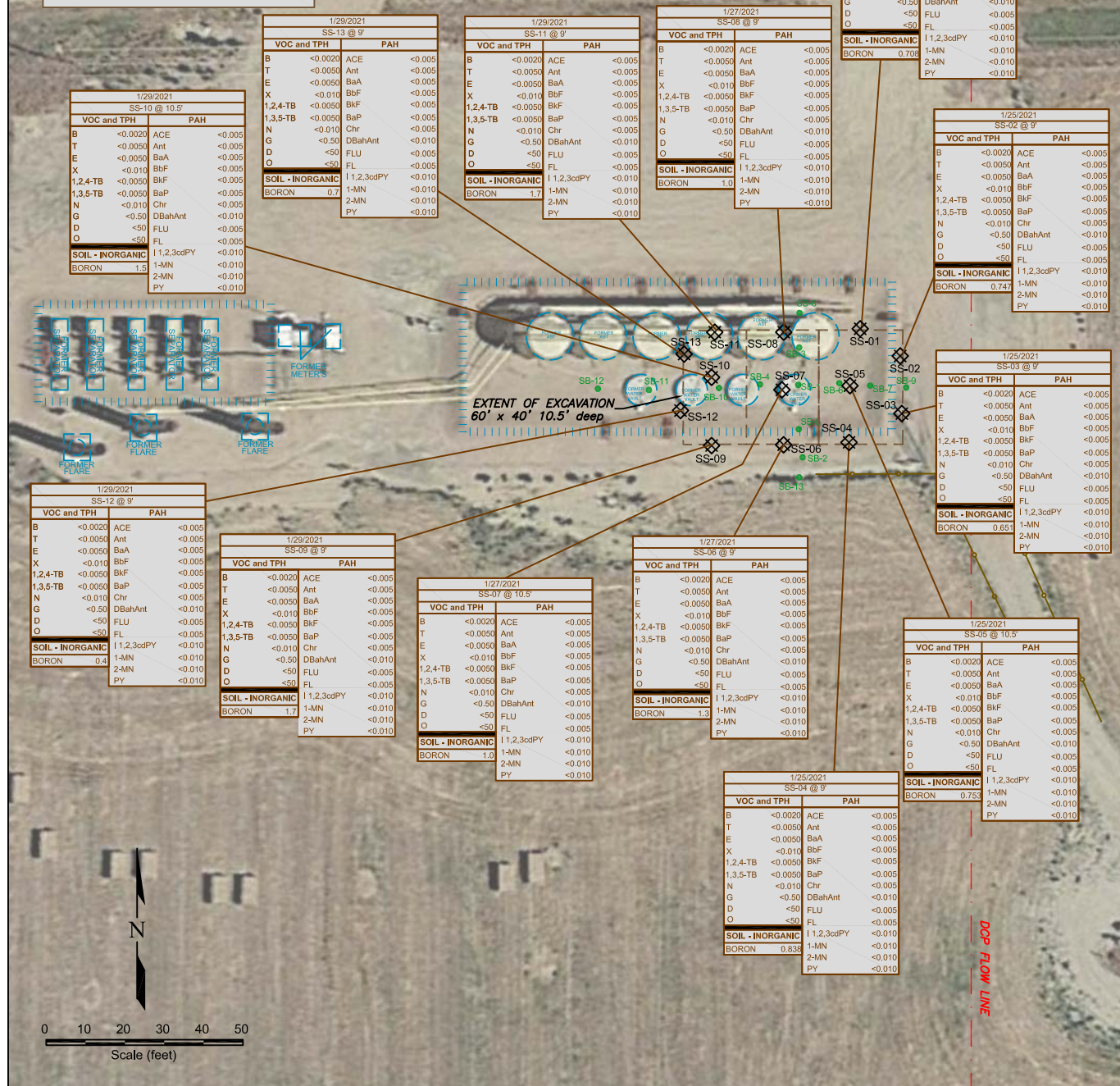
Noble Energy, Inc. ~ Northrup C8-73HN
 NWNE Sec. 8, T4N, R68W ~ 40.33379°, -104.571996°
 Weld County, Colorado

Project No. CO20-101	Prepared by TA	Drawn by TA
Date 2/1/21	Reviewed by EB	Filename 20101QQ



**Total ~ 590 cubic yards
Transported to Buffalo Ridge**

COUNTY ROAD 48



 ABOVE GROUND STORAGE TANK
 FORMER FACILITY

DATE SAMPLED
SAMPLE ID and DEPTH
LABORATORY ANALYSIS


DATE			
ID and Depth			
VOC and TPH		PAH	
B	<0.0020	ACE	0.55
T	<0.0050	Ant	5.8
E	<0.0050	BaA	0.011
X	<0.01	BbF	0.03
1,2,4-TB	<0.0050	BkF	2.9
1,3,5-TB	<0.0050	BaP	2.9
N	<0.010	Chr	2.9
G	<0.50	BahAnt	0.096
I	<50	FLU	8.9
O	<50	FLU	0.54
SOIL - INORGANIC		1,1,2,3cdPY	0.98
BORON	1.3	1-MN	0.006
		2-MN	0.019
		PMY	1.3

DATE SAMPLED
SAMPLE ID and DEPTH
LABORATORY ANALYSIS

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)
DIBENZO (A,H) ANTHRACENE (mg/kg)
FLUORANTHENE (mg/kg)
FLUORENE (mg/kg)
INDENO (1,2,3-CD) PYRENE (mg/kg)
1-METHYLNAPHTHALENE (mg/kg)
2-METHYLNAPHTHALENE (mg/kg)
PYRENE (mg/kg)

Figure 3
EXTENT OF EXCAVATION WITH
SOIL-VOC and TPH and PAH CHEMISTRY MAP
January 29, 2021

Noble Energy, Inc. ~ Northrup C8-73HN
NWNE Sec. 8, T4N, R68W ~ 40.33379°, -104.571996°
Weld County, Colorado

Project No. CO20-101	Prepared by	Drawn by TA	
Date 2/9/21	Reviewed by EB	Filename 20101QQA	

APPENDIX A

LABORATORY DOCUMENTATION

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 09, 2021

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Northrup C8-73HN

Enclosed are the results of analyses for samples received by Summit Scientific on 01/25/21 16:59. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light blue background. The signature is written in a cursive style and appears to read "Muri Premier".

Muri Premier For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01@9'	2101229-01	Soil	01/25/21 00:00	01/25/21 16:59
SS-02@9'	2101229-02	Soil	01/25/21 00:00	01/25/21 16:59
SS-03@9'	2101229-03	Soil	01/25/21 00:00	01/25/21 16:59
SS-04@9'	2101229-04	Soil	01/25/21 00:00	01/25/21 16:59
SS-05@10.5'	2101229-05	Soil	01/25/21 00:00	01/25/21 16:59

Summit Scientific

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.

2101229

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Noble - Northrup CB-73HN

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions			
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	Boron	EC	pH		Full Table 915		
1	SS-01	1/25/21		1			X			X				X	X	X	X	X				X	
2	SS-02	↓		1						↓				↓	↓	↓	↓	↓				↓	
3	SS-03	↓		1						↓				↓	↓	↓	↓	↓				↓	
4	SS-04	↓		1						↓				↓	↓	↓	↓	↓				↓	
5	SS-05	↓		1						↓				↓	↓	↓	↓	↓				↓	
6																							
7																							
8																							
9																							
10																							

Relinquished by: <i>Ethan Black</i>	Date/Time: 1/25/21 1557	Received by: <i>[Signature]</i>	Date/Time: 01/25/2021 1557	Turn Around Time (Check): Same Day <input checked="" type="checkbox"/> 24 hours <input type="checkbox"/> 48 hours <input type="checkbox"/>	72 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/>	Notes: Please send results as soon as possible they're available.
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 2.5 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No		
Relinquished by:	Date/Time:	Received by:	Date/Time:			

Sample Receipt Checklist

S2 Work Order 210229

Client: FREMONT ENVIRONMENTAL Client Project ID: NOBLE - NORTHROP C8-734N

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____ (Describe)

Temp (°C)	<u>2.5</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<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 in case narrative.

BB
Custodian Printed Name or Initials

[Signature]
Signature of Custodian

01/25/2021
Date/Time



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-01@9'
2101229-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0277	01/25/21	01/25/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0278	01/25/21	01/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		94.0 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-01@9'
2101229-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0267	01/25/21	01/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		53.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		52.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.708	0.0200	0.0138	mg/L	1	BEB0096	02/05/21	02/05/21	EPA 6020B	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-02@9'
2101229-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0277	01/25/21	01/25/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		101 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		102 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.9 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0278	01/25/21	01/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		88.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-02@9'
2101229-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0267	01/25/21	01/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		49.7 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		49.6 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.747	0.0200	0.0138	mg/L	1	BEB0096	02/05/21	02/05/21	EPA 6020B	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-03@9'
2101229-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0277	01/25/21	01/25/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.7 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.5 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0278	01/25/21	01/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		94.4 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-03@9'
2101229-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0267	01/25/21	01/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.6 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.9 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.651	0.0200	0.0138	mg/L	1	BEB0096	02/05/21	02/05/21	EPA 6020B	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-04@9'
2101229-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0277	01/25/21	01/25/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.4 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.9 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0278	01/25/21	01/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		92.7 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-04@9'
2101229-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0267	01/25/21	01/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.0 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.3 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.838	0.0200	0.0138	mg/L	1	BEB0096	02/05/21	02/05/21	EPA 6020B	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-05@10.5'
2101229-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0277	01/25/21	01/25/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		103 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		104 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0278	01/25/21	01/25/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		90.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

SS-05@10.5'
2101229-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0267	01/25/21	01/27/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		47.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		46.5 %		40-150		"	"	"	"	

Total Metals by EPA 6020B

Date Sampled: **01/25/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Boron	0.753	0.0200	0.0138	mg/L	1	BEB0096	02/05/21	02/05/21	EPA 6020B	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEA0277 - EPA 5030 Soil MS

Blank (BEA0277-BLK1)

Prepared & Analyzed: 01/25/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.7	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.3	21-167			

LCS (BEA0277-BS1)

Prepared & Analyzed: 01/25/21

Benzene	0.125	0.0020	mg/kg	0.100		125	70-130			
Toluene	0.120	0.0050	"	0.100		120	70-130			
Ethylbenzene	0.111	0.0050	"	0.100		111	70-130			
m,p-Xylene	0.227	0.010	"	0.200		113	70-130			
o-Xylene	0.110	0.0050	"	0.100		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0400		99.4	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0410		"	0.0400		102	21-167			

Matrix Spike (BEA0277-MS1)

Source: 2101229-01

Prepared & Analyzed: 01/25/21

Benzene	0.126	0.0020	mg/kg	0.100	ND	126	70-130			
Toluene	0.125	0.0050	"	0.100	ND	125	70-130			
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130			
m,p-Xylene	0.229	0.010	"	0.200	ND	114	70-130			
o-Xylene	0.112	0.0050	"	0.100	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0400		"	0.0400		99.9	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0397		"	0.0400		99.2	21-167			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEA0277 - EPA 5030 Soil MS

Matrix Spike Dup (BEA0277-MSD1)		Source: 2101229-01			Prepared: 01/25/21 Analyzed: 01/26/21					
Benzene	0.128	0.0020	mg/kg	0.100	ND	128	70-130	1.98	30	
Toluene	0.129	0.0050	"	0.100	ND	129	70-130	3.45	30	
Ethylbenzene	0.111	0.0050	"	0.100	ND	111	70-130	0.618	30	
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130	0.289	30	
o-Xylene	0.111	0.0050	"	0.100	ND	111	70-130	0.915	30	
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0405		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEA0278 - EPA 3550A

Blank (BEA0278-BLK1)

Prepared & Analyzed: 01/25/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEA0278-BS1)

Prepared & Analyzed: 01/25/21

C10-C28 (DRO)	484	50	mg/kg	500	96.8	70-130
---------------	-----	----	-------	-----	------	--------

Matrix Spike (BEA0278-MS1)

Source: 2101229-01

Prepared & Analyzed: 01/25/21

C10-C28 (DRO)	449	50	mg/kg	500	15.4	86.7	70-130
---------------	-----	----	-------	-----	------	------	--------

Matrix Spike Dup (BEA0278-MSD1)

Source: 2101229-01

Prepared & Analyzed: 01/25/21

C10-C28 (DRO)	433	50	mg/kg	500	15.4	83.5	70-130	3.68	20
---------------	-----	----	-------	-----	------	------	--------	------	----

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEA0267 - EPA 5030 Soil MS

Blank (BEA0267-BLK1)

Prepared & Analyzed: 01/25/21

Acenaphthene	ND	0.00500	mg/kg								
Anthracene	ND	0.00500	"								
Benzo (a) anthracene	ND	0.00500	"								
Benzo (a) pyrene	ND	0.00500	"								
Benzo (b) fluoranthene	ND	0.00500	"								
Benzo (k) fluoranthene	ND	0.00500	"								
Chrysene	ND	0.00500	"								
Dibenz (a,h) anthracene	ND	0.0100	"								
Fluoranthene	ND	0.00500	"								
Fluorene	ND	0.00500	"								
Indeno (1,2,3-cd) pyrene	ND	0.0100	"								
Pyrene	ND	0.00500	"								
1-Methylnaphthalene	ND	0.0100	"								
2-Methylnaphthalene	ND	0.0100	"								
Surrogate: 2-Methylnaphthalene-d10	0.0237		"	0.0333		71.0		40-150			
Surrogate: Fluoranthene-d10	0.0196		"	0.0333		58.9		40-150			

LCS (BEA0267-BS1)

Prepared & Analyzed: 01/25/21

Acenaphthene	0.0277	0.00500	mg/kg	0.0333		83.0		31-137			
Anthracene	0.0301	0.00500	"	0.0333		90.4		30-120			
Benzo (a) anthracene	0.0295	0.00500	"	0.0333		88.6		30-120			
Benzo (a) pyrene	0.0312	0.00500	"	0.0333		93.6		30-120			
Benzo (b) fluoranthene	0.0311	0.00500	"	0.0333		93.3		30-120			
Benzo (k) fluoranthene	0.0312	0.00500	"	0.0333		93.5		30-120			
Benzo (g,h,i) perylene	0.0304	0.00500	"	0.0333		91.3		30-120			
Chrysene	0.0289	0.00500	"	0.0333		86.8		30-120			
Dibenz (a,h) anthracene	0.0306	0.0100	"	0.0333		91.8		30-120			
Fluoranthene	0.0294	0.00500	"	0.0333		88.3		30-120			
Fluorene	0.0285	0.00500	"	0.0333		85.6		30-120			
Indeno (1,2,3-cd) pyrene	0.0224	0.0100	"	0.0333		67.3		30-120			
Pyrene	0.0276	0.00500	"	0.0333		82.8		35-142			
1-Methylnaphthalene	0.0314	0.0100	"	0.0333		94.2		35-142			
2-Methylnaphthalene	0.0298	0.0100	"	0.0333		89.5		35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0275		"	0.0333		82.5		40-150			
Surrogate: Fluoranthene-d10	0.0283		"	0.0333		84.9		40-150			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEA0267 - EPA 5030 Soil MS

Matrix Spike (BEA0267-MS1)

Source: 2101216-01

Prepared & Analyzed: 01/25/21

Acenaphthene	0.0236	0.00500	mg/kg	0.0333	ND	70.7	31-137		
Anthracene	0.0254	0.00500	"	0.0333	ND	76.3	30-120		
Benzo (a) anthracene	0.0244	0.00500	"	0.0333	ND	73.3	30-120		
Benzo (a) pyrene	0.0258	0.00500	"	0.0333	ND	77.5	30-120		
Benzo (b) fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120		
Benzo (k) fluoranthene	0.0260	0.00500	"	0.0333	ND	77.9	30-120		
Benzo (g,h,i) perylene	0.0223	0.00500	"	0.0333	ND	67.0	30-120		
Chrysene	0.0243	0.00500	"	0.0333	ND	73.0	30-120		
Dibenz (a,h) anthracene	0.0227	0.0100	"	0.0333	ND	68.2	30-120		
Fluoranthene	0.0256	0.00500	"	0.0333	0.00322	67.1	30-120		
Fluorene	0.0247	0.00500	"	0.0333	ND	74.0	30-120		
Indeno (1,2,3-cd) pyrene	0.0164	0.0100	"	0.0333	ND	49.2	30-120		
Pyrene	0.0245	0.00500	"	0.0333	0.00312	64.0	35-142		
1-Methylnaphthalene	0.0252	0.0100	"	0.0333	ND	75.8	15-130		
2-Methylnaphthalene	0.0265	0.0100	"	0.0333	ND	79.4	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0263		"	0.0333		78.8	40-150		
Surrogate: Fluoranthene-d10	0.0278		"	0.0333		83.5	40-150		

Matrix Spike Dup (BEA0267-MSD1)

Source: 2101216-01

Prepared & Analyzed: 01/25/21

Acenaphthene	0.0239	0.00500	mg/kg	0.0333	ND	71.7	31-137	1.39	30
Anthracene	0.0256	0.00500	"	0.0333	ND	76.7	30-120	0.536	30
Benzo (a) anthracene	0.0250	0.00500	"	0.0333	ND	75.0	30-120	2.32	30
Benzo (a) pyrene	0.0266	0.00500	"	0.0333	ND	79.8	30-120	2.99	30
Benzo (b) fluoranthene	0.0267	0.00500	"	0.0333	ND	80.0	30-120	2.70	30
Benzo (k) fluoranthene	0.0267	0.00500	"	0.0333	ND	80.1	30-120	2.77	30
Benzo (g,h,i) perylene	0.0224	0.00500	"	0.0333	ND	67.2	30-120	0.283	30
Chrysene	0.0247	0.00500	"	0.0333	ND	74.0	30-120	1.31	30
Dibenz (a,h) anthracene	0.0231	0.0100	"	0.0333	ND	69.3	30-120	1.62	30
Fluoranthene	0.0256	0.00500	"	0.0333	0.00322	67.0	30-120	0.00262	30
Fluorene	0.0253	0.00500	"	0.0333	ND	76.0	30-120	2.69	30
Indeno (1,2,3-cd) pyrene	0.0169	0.0100	"	0.0333	ND	50.6	30-120	2.78	30
Pyrene	0.0242	0.00500	"	0.0333	0.00312	63.1	35-142	1.28	30
1-Methylnaphthalene	0.0269	0.0100	"	0.0333	ND	80.6	15-130	6.20	50
2-Methylnaphthalene	0.0266	0.0100	"	0.0333	ND	79.7	15-130	0.443	50
Surrogate: 2-Methylnaphthalene-d10	0.0258		"	0.0333		77.3	40-150		
Surrogate: Fluoranthene-d10	0.0250		"	0.0333		75.1	40-150		

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

Total Metals by EPA 6020B - Quality Control
Summit Scientific

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

Batch BEB0096 - EPA 3050B

Blank (BEB0096-BLK1)

Prepared & Analyzed: 02/05/21

Boron ND 0.0200 mg/L

LCS (BEB0096-BS1)

Prepared & Analyzed: 02/05/21

Boron 5.32 0.0200 mg/L 5.00 106 80-120

Duplicate (BEB0096-DUP1)

Source: 2101229-01

Prepared & Analyzed: 02/05/21

Boron 0.616 0.0200 mg/L 0.708 13.9 20

Matrix Spike (BEB0096-MS1)

Source: 2101229-01

Prepared & Analyzed: 02/05/21

Boron 5.23 0.0200 mg/L 5.00 0.708 90.4 75-125

Matrix Spike Dup (BEB0096-MSD1)

Source: 2101229-01

Prepared & Analyzed: 02/05/21

Boron 5.19 0.0200 mg/L 5.00 0.708 89.6 75-125 0.701 25

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/09/21 10:13

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 01, 2021

Paul Henehan

Fremont Environmental

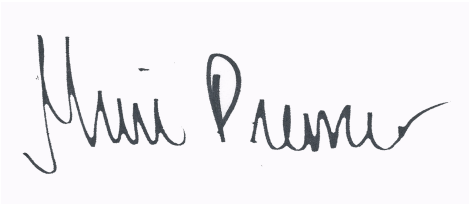
PO Box 1289

Wellington, CO 80549

RE: Noble - Northrup C8-73HN

Enclosed are the results of analyses for samples received by Summit Scientific on 01/27/21 17:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premier". The signature is written in a cursive, flowing style. The first name "Muri" is written with a large, stylized 'M' and 'u'. The last name "Premier" is written with a large 'P' and a long, sweeping tail that extends to the right.

Muri Premier For Paul Shrewsbury
President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-06 9ft	2101258-01	Soil	01/27/21 00:00	01/27/21 17:15
SS-07 10.5ft	2101258-02	Soil	01/27/21 00:00	01/27/21 17:15
SS-08 9ft	2101258-03	Soil	01/27/21 00:00	01/27/21 17:15

Summit Scientific

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.

2101258

Summit Scientific

S₂

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Northrup CB-FB HW

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions		
					HCl	HNO ₃	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN - 915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH	Boron		PAH - 915	
1	SS-06 9FT	1/27/21		2			X			X				X		X	X				X	X	
2	SS-07 10.5FT	↓		↓			X			X				X		X	X				X	X	
3	SS-08 9FT	↓		↓			X			X				X		X	X				X	X	
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Relinquished by: <u>Ethan Black</u>	Date/Time: <u>1/27/21 1426</u>	Received by: <u>[Signature]</u>	Date/Time: <u>01/27/2021 1426</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: <u>4.7</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: • Please send results as soon as they are available • Please report MDL
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2101288

Client: Facemont Environmental Client Project ID: ~~2101288~~ Northrup C8-734W

Shipped Via: ☐ H.D./P.U./FedEx/UPS/USPS/Other ☒ Airbill #: _____

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____ (Describe)

Temp (°C) 4.7

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<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 in case narrative.

Custodian Printed Name or Initials TCB

Signature of Custodian [Signature]

Date/Time 01/27/2021



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

SS-06 9ft
2101258-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0311	01/27/21	01/27/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		105 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.1 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0312	01/27/21	01/27/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		108 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

SS-06 9ft
2101258-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0301	01/27/21	01/29/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		47.3 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

SS-07 10.5ft
2101258-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0311	01/27/21	01/27/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		98.0 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0312	01/27/21	01/27/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		97.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

SS-07 10.5ft
2101258-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0301	01/27/21	01/29/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		48.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.3 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

SS-08 9ft
2101258-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0311	01/27/21	01/27/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		100 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0312	01/27/21	01/27/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		94.8 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

SS-08 9ft
2101258-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEA0301	01/27/21	01/29/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/27/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		49.1 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		54.8 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEA0311 - EPA 5030 Soil MS

Blank (BEA0311-BLK1)

Prepared & Analyzed: 01/27/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0400		97.8	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.8	21-167			

LCS (BEA0311-BS1)

Prepared & Analyzed: 01/27/21

Benzene	0.106	0.0020	mg/kg	0.100		106	70-130			
Toluene	0.110	0.0050	"	0.100		110	70-130			
Ethylbenzene	0.108	0.0050	"	0.100		108	70-130			
m,p-Xylene	0.214	0.010	"	0.200		107	70-130			
o-Xylene	0.105	0.0050	"	0.100		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0397		"	0.0400		99.2	23-173			
Surrogate: Toluene-d8	0.0404		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0404		"	0.0400		101	21-167			

Matrix Spike (BEA0311-MS1)

Source: 2101259-01

Prepared & Analyzed: 01/27/21

Benzene	0.106	0.0020	mg/kg	0.100	ND	106	70-130			
Toluene	0.109	0.0050	"	0.100	ND	109	70-130			
Ethylbenzene	0.105	0.0050	"	0.100	ND	105	70-130			
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130			
o-Xylene	0.101	0.0050	"	0.100	ND	101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0405		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0408		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0508		"	0.0400		127	21-167			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEA0311 - EPA 5030 Soil MS

Matrix Spike Dup (BEA0311-MSD1)	Source: 2101259-01			Prepared & Analyzed: 01/27/21						
Benzene	0.105	0.0020	mg/kg	0.100	ND	105	70-130	0.681	30	
Toluene	0.109	0.0050	"	0.100	ND	109	70-130	0.247	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	1.25	30	
m,p-Xylene	0.208	0.010	"	0.200	ND	104	70-130	0.202	30	
o-Xylene	0.103	0.0050	"	0.100	ND	103	70-130	1.55	30	
Surrogate: 1,2-Dichloroethane-d4	0.0393		"	0.0400		98.2	23-173			
Surrogate: Toluene-d8	0.0407		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0557		"	0.0400		139	21-167			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEA0312 - EPA 3550A

Blank (BEA0312-BLK1)

Prepared & Analyzed: 01/27/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEA0312-BS1)

Prepared & Analyzed: 01/27/21

C10-C28 (DRO)	505	50	mg/kg	500	101	70-130
---------------	-----	----	-------	-----	-----	--------

Matrix Spike (BEA0312-MS1)

Source: 2101259-01

Prepared & Analyzed: 01/27/21

C10-C28 (DRO)	1450	50	mg/kg	500	890	111	70-130
---------------	------	----	-------	-----	-----	-----	--------

Matrix Spike Dup (BEA0312-MSD1)

Source: 2101259-01

Prepared & Analyzed: 01/27/21

C10-C28 (DRO)	1590	50	mg/kg	500	890	140	70-130	9.50	20	QM-07
---------------	------	----	-------	-----	-----	-----	--------	------	----	-------

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEA0301 - EPA 5030 Soil MS

Blank (BEA0301-BLK1)

Prepared: 01/27/21 Analyzed: 01/28/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
Surrogate: 2-Methylnaphthalene-d10	0.0171		"	0.0333		51.2	40-150			
Surrogate: Fluoranthene-d10	0.0185		"	0.0333		55.4	40-150			

LCS (BEA0301-BS1)

Prepared: 01/27/21 Analyzed: 01/28/21

Acenaphthene	0.0284	0.00500	mg/kg	0.0333		85.3	31-137			
Anthracene	0.0295	0.00500	"	0.0333		88.5	30-120			
Benzo (a) anthracene	0.0307	0.00500	"	0.0333		92.2	30-120			
Benzo (a) pyrene	0.0312	0.00500	"	0.0333		93.7	30-120			
Benzo (b) fluoranthene	0.0381	0.00500	"	0.0333		114	30-120			
Benzo (k) fluoranthene	0.0379	0.00500	"	0.0333		114	30-120			
Chrysene	0.0293	0.00500	"	0.0333		87.9	30-120			
Dibenz (a,h) anthracene	0.0305	0.0100	"	0.0333		91.4	30-120			
Fluoranthene	0.0281	0.00500	"	0.0333		84.2	30-120			
Fluorene	0.0257	0.00500	"	0.0333		77.2	30-120			
Indeno (1,2,3-cd) pyrene	0.0281	0.0100	"	0.0333		84.3	30-120			
Pyrene	0.0249	0.00500	"	0.0333		74.7	35-142			
1-Methylnaphthalene	0.0294	0.0100	"	0.0333		88.3	35-142			
2-Methylnaphthalene	0.0249	0.0100	"	0.0333		74.7	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0182		"	0.0333		54.5	40-150			
Surrogate: Fluoranthene-d10	0.0219		"	0.0333		65.6	40-150			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEA0301 - EPA 5030 Soil MS

Matrix Spike (BEA0301-MS1)

Source: 2101243-03

Prepared: 01/27/21 Analyzed: 01/28/21

Acenaphthene	0.0264	0.00500	mg/kg	0.0333	ND	79.2	31-137				
Anthracene	0.0280	0.00500	"	0.0333	ND	84.0	30-120				
Benzo (a) anthracene	0.0300	0.00500	"	0.0333	ND	90.0	30-120				
Benzo (a) pyrene	0.0318	0.00500	"	0.0333	ND	95.5	30-120				
Benzo (b) fluoranthene	0.0350	0.00500	"	0.0333	ND	105	30-120				
Benzo (k) fluoranthene	0.0349	0.00500	"	0.0333	ND	105	30-120				
Chrysene	0.0298	0.00500	"	0.0333	ND	89.3	30-120				
Dibenz (a,h) anthracene	0.0256	0.0100	"	0.0333	ND	76.9	30-120				
Fluoranthene	0.0299	0.00500	"	0.0333	ND	89.8	30-120				
Fluorene	0.0247	0.00500	"	0.0333	ND	74.2	30-120				
Indeno (1,2,3-cd) pyrene	0.0319	0.0100	"	0.0333	ND	95.6	30-120				
Pyrene	0.0315	0.00500	"	0.0333	ND	94.4	35-142				
1-Methylnaphthalene	0.0234	0.0100	"	0.0333	ND	70.1	15-130				
2-Methylnaphthalene	0.0208	0.0100	"	0.0333	ND	62.4	15-130				
Surrogate: 2-Methylnaphthalene-d10	0.0164		"	0.0333		49.2	40-150				
Surrogate: Fluoranthene-d10	0.0173		"	0.0333		51.8	40-150				

Matrix Spike Dup (BEA0301-MSD1)

Source: 2101243-03

Prepared: 01/27/21 Analyzed: 01/28/21

Acenaphthene	0.0285	0.00500	mg/kg	0.0333	ND	85.4	31-137	7.57	30		
Anthracene	0.0294	0.00500	"	0.0333	ND	88.3	30-120	5.08	30		
Benzo (a) anthracene	0.0326	0.00500	"	0.0333	ND	97.8	30-120	8.21	30		
Benzo (a) pyrene	0.0347	0.00500	"	0.0333	ND	104	30-120	8.76	30		
Benzo (b) fluoranthene	0.0364	0.00500	"	0.0333	ND	109	30-120	4.10	30		
Benzo (k) fluoranthene	0.0364	0.00500	"	0.0333	ND	109	30-120	4.18	30		
Chrysene	0.0324	0.00500	"	0.0333	ND	97.3	30-120	8.53	30		
Dibenz (a,h) anthracene	0.0240	0.0100	"	0.0333	ND	71.9	30-120	6.72	30		
Fluoranthene	0.0316	0.00500	"	0.0333	ND	94.8	30-120	5.46	30		
Fluorene	0.0261	0.00500	"	0.0333	ND	78.4	30-120	5.48	30		
Indeno (1,2,3-cd) pyrene	0.0233	0.0100	"	0.0333	ND	69.8	30-120	31.1	30		QM-07
Pyrene	0.0319	0.00500	"	0.0333	ND	95.7	35-142	1.40	30		
1-Methylnaphthalene	0.0250	0.0100	"	0.0333	ND	75.1	15-130	6.91	50		
2-Methylnaphthalene	0.0236	0.0100	"	0.0333	ND	70.7	15-130	12.4	50		
Surrogate: 2-Methylnaphthalene-d10	0.0133		"	0.0333		40.0	40-150				
Surrogate: Fluoranthene-d10	0.0179		"	0.0333		53.7	40-150				

Summit Scientific

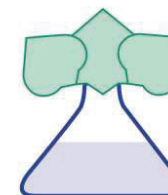
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



20491

SUMMIT SCIENTIFIC

4653 TABLE MOUNTAIN DRIVE, SUITE B

GOLDEN CO 80403

NAME : 2101258

DATE RECEIVED: 01/29/2021

DATE REPORTED: 02/02/2021

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS				
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm
3317272	SS 06 9FT		0-108												
3317273	SS07 10.5FT		0-126												
3317274	SS08 9FT		0-108												

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION					
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na
3317272										1.3							
3317273										1.0							
3317274										1.0							

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
3317272																
3317273																
3317274																

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3317272	SS 06 9FT									lbs/A						
3317273	SS07 10.5FT															
3317274	SS08 9FT															

Approved By: Kevin Grooms

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/01/21 11:21

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Summit Scientific

4653 Table Mountain Drive, Golden, Colorado 80401

303.277.9310

February 04, 2021

Paul Henehan

Fremont Environmental

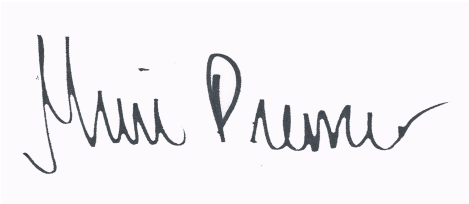
PO Box 1289

Wellington, CO 80549

RE: Noble - Northrup C8-73HN

Enclosed are the results of analyses for samples received by Summit Scientific on 01/29/21 17:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink on a light blue background. The signature is written in a cursive style and reads "Muri Premier".

Muri Premier For Paul Shrewsbury

President



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS09 9FT	2101300-01	Soil	01/29/21 00:00	01/29/21 17:35
SS10 10.5FT	2101300-02	Soil	01/29/21 00:00	01/29/21 17:35
SS11 9FT	2101300-03	Soil	01/29/21 00:00	01/29/21 17:35
SS12 9FT	2101300-04	Soil	01/29/21 00:00	01/29/21 17:35
SS13 9FT	2101300-05	Soil	01/29/21 00:00	01/29/21 17:35

Summit Scientific

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.

2101300

Summit Scientific

4653 Table Mountain Drive ♦ Golden, Colorado 80403
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Jacob

Phone: 303-956-8714

Project Name: Noble - Northrup CS-73HU

Sampler Name: Black

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested								Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	GBTEXN - 915	BTEX - 910	GRO	DRO/ORO	SAR	EC	pH	Boron		PAH - 915
1	SS-09 9FT	1/29/21		2			X			X				X	X	X				X	X	
2	SS-10 10.5FT			1																		
3	SS-11 9FT			1																		
4	SS-12 9FT			1																		
5	SS-13 9FT			1																		
6																						
7																						
8																						
9																						
10																						

Relinquished by: <i>Ethan Black</i>	Date/Time: 1/29/21 1630	Received by: <i>[Signature]</i>	Date/Time: 01/29/2021 1630	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours — 24 hours — Standard — 48 hours — Sample Integrity: Temperature Upon Receipt: <u>52</u> Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	Notes: - Please send results 1st thing Monday AM - Please report MDL
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Sample Receipt Checklist

S2 Work Order 2101308

Client: Fremont Environmental Client Project ID: NODE - Northrup C8-73HW

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: _____

☒ ☐ ☐ ☐ ☐

Matrix (check all that apply): ☐ Air ☒ Soil/Solid ☐ Water ☐ Other: _____
(Describe)

Temp (°C)	<u>5.2</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
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"/>	
If custody seals are present, are they intact ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples with holding times due within 48 hours sample due within 48 hours present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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 w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace 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 (excluding cooling) ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect				
If samples are acid preserved for metals, is the pH ≤ 2 ⁽¹⁾ ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<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 in case narrative.

Custodian Printed Name or Initials

Signature of Custodian

Date/Time

01/29/2021



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS09 9FT
2101300-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0349	01/29/21	01/30/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		94.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.2 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0350	01/29/21	01/29/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		93.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS09 9FT
2101300-01 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEB0001	02/01/21	02/03/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		71.4 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		75.1 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS10 10.5FT
2101300-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0349	01/29/21	01/30/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		95.8 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		98.6 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.8 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0350	01/29/21	01/29/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		94.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS10 10.5FT
2101300-02 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEB0001	02/01/21	02/02/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.5 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		59.8 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS11 9FT
2101300-03 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0349	01/29/21	01/30/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		91.6 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0350	01/29/21	01/30/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		94.9 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS11 9FT
2101300-03 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEB0001	02/01/21	02/02/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		46.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		60.5 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS12 9FT
2101300-04 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0349	01/29/21	01/30/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		95.4 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		99.8 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0350	01/29/21	01/30/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		96.2 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS12 9FT
2101300-04 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEB0001	02/01/21	02/02/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		45.8 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		50.5 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS13 9FT
2101300-05 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Benzene	ND	0.0020	0.000098	mg/kg	1	BEA0349	01/29/21	01/30/21	EPA 8260B	
Toluene	ND	0.0050	0.00025	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	0.00021	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	0.00044	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.0050	0.00024	"	"	"	"	"	"	
Naphthalene	ND	0.010	0.00036	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	0.50		"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 1,2-Dichloroethane-d4		97.3 %		23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %		20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.8 %		21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
C10-C28 (DRO)	ND	50	4.3	mg/kg	1	BEA0350	01/29/21	01/30/21	EPA 8015M	
C28-C36 (ORO)	ND	50	4.3	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: o-Terphenyl		93.6 %		30-150		"	"	"	"	

PAH by EPA Method 8270D SIM

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

SS13 9FT
2101300-05 (Soil)

Summit Scientific

PAH by EPA Method 8270D SIM

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Acenaphthene	ND	0.00500	0.000620	mg/kg	1	BEB0001	02/01/21	02/02/21	EPA 8270D SIM	
Anthracene	ND	0.00500	0.000308	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.00500	0.000363	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.00500	0.000234	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.00500	0.000433	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.00500	0.000423	"	"	"	"	"	"	
Chrysene	ND	0.00500	0.000237	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.0100	0.00167	"	"	"	"	"	"	
Fluoranthene	ND	0.00500	0.000373	"	"	"	"	"	"	
Fluorene	ND	0.00500	0.000477	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.0100	0.00118	"	"	"	"	"	"	
Pyrene	ND	0.00500	0.000317	"	"	"	"	"	"	
1-Methylnaphthalene	ND	0.0100	0.00185	"	"	"	"	"	"	
2-Methylnaphthalene	ND	0.0100	0.00189	"	"	"	"	"	"	

Date Sampled: **01/29/21 00:00**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	MDL							
Surrogate: 2-Methylnaphthalene-d10		40.3 %		40-150		"	"	"	"	
Surrogate: Fluoranthene-d10		48.8 %		40-150		"	"	"	"	

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch BEA0349 - EPA 5030 Soil MS

Blank (BEA0349-BLK1)

Prepared & Analyzed: 01/29/21

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
1,2,4-Trimethylbenzene	ND	0.0050	"							
1,3,5-Trimethylbenzene	ND	0.0050	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	0.50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0363		"	0.0400		90.8	23-173			
Surrogate: Toluene-d8	0.0402		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0383		"	0.0400		95.8	21-167			

LCS (BEA0349-BS1)

Prepared & Analyzed: 01/29/21

Benzene	0.169	0.0020	mg/kg	0.150		113	70-130			
Toluene	0.180	0.0050	"	0.150		120	70-130			
Ethylbenzene	0.158	0.0050	"	0.150		106	70-130			
m,p-Xylene	0.320	0.010	"	0.300		107	70-130			
o-Xylene	0.159	0.0050	"	0.150		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0382		"	0.0400		95.4	23-173			
Surrogate: Toluene-d8	0.0413		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167			

Matrix Spike (BEA0349-MS1)

Source: 2101296-01

Prepared & Analyzed: 01/29/21

Benzene	0.165	0.0020	mg/kg	0.150	ND	110	70-130			
Toluene	0.171	0.0050	"	0.150	ND	114	70-130			
Ethylbenzene	0.148	0.0050	"	0.150	ND	98.9	70-130			
m,p-Xylene	0.299	0.010	"	0.300	ND	99.7	70-130			
o-Xylene	0.149	0.0050	"	0.150	ND	99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0388		"	0.0400		97.0	23-173			
Surrogate: Toluene-d8	0.0412		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Summit Scientific

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

Batch BEA0349 - EPA 5030 Soil MS

Matrix Spike Dup (BEA0349-MSD1)	Source: 2101296-01			Prepared & Analyzed: 01/29/21						
Benzene	0.155	0.0020	mg/kg	0.150	ND	104	70-130	6.03	30	
Toluene	0.164	0.0050	"	0.150	ND	110	70-130	3.94	30	
Ethylbenzene	0.146	0.0050	"	0.150	ND	97.1	70-130	1.90	30	
m,p-Xylene	0.292	0.010	"	0.300	ND	97.3	70-130	2.44	30	
o-Xylene	0.148	0.0050	"	0.150	ND	98.7	70-130	0.586	30	
Surrogate: 1,2-Dichloroethane-d4	0.0389		"	0.0400		97.2	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0395		"	0.0400		98.7	21-167			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch BEA0350 - EPA 3550A

Blank (BEA0350-BLK1)

Prepared & Analyzed: 01/29/21

C10-C28 (DRO)	ND	50	mg/kg
C28-C36 (ORO)	ND	50	"

LCS (BEA0350-BS1)

Prepared & Analyzed: 01/29/21

C10-C28 (DRO)	493	50	mg/kg	500	98.6	70-130
---------------	-----	----	-------	-----	------	--------

Matrix Spike (BEA0350-MS1)

Source: 2101271-01

Prepared & Analyzed: 01/29/21

C10-C28 (DRO)	423	50	mg/kg	500	28.7	78.8	70-130
---------------	-----	----	-------	-----	------	------	--------

Matrix Spike Dup (BEA0350-MSD1)

Source: 2101271-01

Prepared & Analyzed: 01/29/21

C10-C28 (DRO)	430	50	mg/kg	500	28.7	80.3	70-130	1.78	20
---------------	-----	----	-------	-----	------	------	--------	------	----

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEB0001 - EPA 5030 Soil MS

Blank (BEB0001-BLK1)

Prepared: 02/01/21 Analyzed: 02/02/21

Acenaphthene	ND	0.00500	mg/kg							
Anthracene	ND	0.00500	"							
Benzo (a) anthracene	ND	0.00500	"							
Benzo (a) pyrene	ND	0.00500	"							
Benzo (b) fluoranthene	ND	0.00500	"							
Benzo (k) fluoranthene	ND	0.00500	"							
Chrysene	ND	0.00500	"							
Dibenz (a,h) anthracene	ND	0.0100	"							
Fluoranthene	ND	0.00500	"							
Fluorene	ND	0.00500	"							
Indeno (1,2,3-cd) pyrene	ND	0.0100	"							
Pyrene	ND	0.00500	"							
1-Methylnaphthalene	ND	0.0100	"							
2-Methylnaphthalene	ND	0.0100	"							
Surrogate: 2-Methylnaphthalene-d10	0.0152		"	0.0333		45.6	40-150			
Surrogate: Fluoranthene-d10	0.0213		"	0.0333		64.0	40-150			

LCS (BEB0001-BS1)

Prepared: 02/01/21 Analyzed: 02/03/21

Acenaphthene	0.0294	0.00500	mg/kg	0.0333		88.1	31-137			
Anthracene	0.0307	0.00500	"	0.0333		92.1	30-120			
Benzo (a) anthracene	0.0294	0.00500	"	0.0333		88.1	30-120			
Benzo (a) pyrene	0.0308	0.00500	"	0.0333		92.5	30-120			
Benzo (b) fluoranthene	0.0270	0.00500	"	0.0333		81.0	30-120			
Benzo (k) fluoranthene	0.0271	0.00500	"	0.0333		81.4	30-120			
Chrysene	0.0288	0.00500	"	0.0333		86.5	30-120			
Dibenz (a,h) anthracene	0.0302	0.0100	"	0.0333		90.5	30-120			
Fluoranthene	0.0220	0.00500	"	0.0333		65.9	30-120			
Fluorene	0.0303	0.00500	"	0.0333		90.9	30-120			
Indeno (1,2,3-cd) pyrene	0.0289	0.0100	"	0.0333		86.8	30-120			
Pyrene	0.0436	0.00500	"	0.0333		131	35-142			
1-Methylnaphthalene	0.0309	0.0100	"	0.0333		92.6	35-142			
2-Methylnaphthalene	0.0276	0.0100	"	0.0333		82.9	35-142			
Surrogate: 2-Methylnaphthalene-d10	0.0337		"	0.0333		101	40-150			
Surrogate: Fluoranthene-d10	0.0298		"	0.0333		89.3	40-150			

Summit Scientific

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
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

PAH by EPA Method 8270D SIM - Quality Control

Summit Scientific

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

Batch BEB0001 - EPA 5030 Soil MS

Matrix Spike (BEB0001-MS1)

Source: 2101269-02

Prepared: 02/01/21 Analyzed: 02/03/21

Acenaphthene	0.0182	0.00500	mg/kg	0.0333	ND	54.5	31-137		
Anthracene	0.0186	0.00500	"	0.0333	ND	55.8	30-120		
Benzo (a) anthracene	0.0171	0.00500	"	0.0333	ND	51.3	30-120		
Benzo (a) pyrene	0.0184	0.00500	"	0.0333	ND	55.2	30-120		
Benzo (b) fluoranthene	0.0233	0.00500	"	0.0333	ND	70.0	30-120		
Benzo (k) fluoranthene	0.0235	0.00500	"	0.0333	ND	70.4	30-120		
Chrysene	0.0175	0.00500	"	0.0333	ND	52.6	30-120		
Dibenz (a,h) anthracene	0.0175	0.0100	"	0.0333	ND	52.6	30-120		
Fluoranthene	0.0139	0.00500	"	0.0333	ND	41.6	30-120		
Fluorene	0.0205	0.00500	"	0.0333	ND	61.4	30-120		
Indeno (1,2,3-cd) pyrene	0.0181	0.0100	"	0.0333	ND	54.3	30-120		
Pyrene	0.0273	0.00500	"	0.0333	ND	82.0	35-142		
1-Methylnaphthalene	0.0187	0.0100	"	0.0333	ND	56.2	15-130		
2-Methylnaphthalene	0.0182	0.0100	"	0.0333	ND	54.6	15-130		
Surrogate: 2-Methylnaphthalene-d10	0.0249		"	0.0333		74.7	40-150		
Surrogate: Fluoranthene-d10	0.0210		"	0.0333		62.9	40-150		

Matrix Spike Dup (BEB0001-MSD1)

Source: 2101269-02

Prepared: 02/01/21 Analyzed: 02/03/21

Acenaphthene	0.0213	0.00500	mg/kg	0.0333	ND	64.0	31-137	16.0	30
Anthracene	0.0229	0.00500	"	0.0333	ND	68.7	30-120	20.8	30
Benzo (a) anthracene	0.0205	0.00500	"	0.0333	ND	61.6	30-120	18.2	30
Benzo (a) pyrene	0.0219	0.00500	"	0.0333	ND	65.7	30-120	17.3	30
Benzo (b) fluoranthene	0.0284	0.00500	"	0.0333	ND	85.2	30-120	19.6	30
Benzo (k) fluoranthene	0.0285	0.00500	"	0.0333	ND	85.4	30-120	19.3	30
Chrysene	0.0204	0.00500	"	0.0333	ND	61.2	30-120	15.2	30
Dibenz (a,h) anthracene	0.0205	0.0100	"	0.0333	ND	61.6	30-120	15.7	30
Fluoranthene	0.0163	0.00500	"	0.0333	ND	49.0	30-120	16.4	30
Fluorene	0.0230	0.00500	"	0.0333	ND	69.0	30-120	11.7	30
Indeno (1,2,3-cd) pyrene	0.0206	0.0100	"	0.0333	ND	61.8	30-120	12.9	30
Pyrene	0.0314	0.00500	"	0.0333	ND	94.1	35-142	13.8	30
1-Methylnaphthalene	0.0219	0.0100	"	0.0333	ND	65.7	15-130	15.4	50
2-Methylnaphthalene	0.0208	0.0100	"	0.0333	ND	62.5	15-130	13.5	50
Surrogate: 2-Methylnaphthalene-d10	0.0261		"	0.0333		78.3	40-150		
Surrogate: Fluoranthene-d10	0.0229		"	0.0333		68.6	40-150		

Summit Scientific

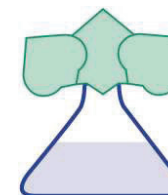
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



20491

SUMMIT SCIENTIFIC

4653 TABLE MOUNTAIN DRIVE, SUITE B

GOLDEN CO 80403

NAME : 2101300

DATE RECEIVED: 02/02/2021

DATE REPORTED: 02/04/2021

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS				
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm
3317752	SS09 9FT		0-108												
3317753	SS10 10.5FT		0-126												
3317754	SS11 9FT		0-108												
3317755	SS12 9FT		0-108												
3317756	SS13 9FT		0-108												

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION					
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na
3317752										1.7							
3317753										1.5							
3317754										1.7							
3317755										0.4							
3317756										0.7							

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE		EXCH. NH4-N		ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE	ppm	lbs/A	ppm	lbs/A		
3317752																
3317753																
3317754																
3317755																
3317756																

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
3317752	SS09 9FT															
3317753	SS10 10.5FT															
3317754	SS11 9FT															
3317755	SS12 9FT															
3317756	SS13 9FT															

Approved By: Kevin Grooms

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab



Fremont Environmental
PO Box 1289
Wellington CO, 80549

Project: Noble - Northrup C8-73HN

Project Number: [none]
Project Manager: Paul Henehan

Reported:
02/04/21 17:38

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference