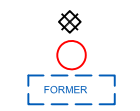




#### LEGEND



SOIL SAMPLE LOCATION  
ABOVE GROUND  
STORAGE TANK  
FORMER FACILITY  
FENCE LINE  
CONTAINMENT BERM  
CONTAINMENT WALL

9/26/18 Floor@7'	
B	<0.002
T	<0.005
E	<0.005
X	<0.005
N	<0.010
G	<0.50
D	<50
EC	NA
pH	NA
SAR	NA

DATE SAMPLED  
LOCATION and DEPTH (ft)  
BENZENE (mg/kg)  
TOLUENE (mg/kg)  
ETHYLBENZENE (mg/kg)  
TOTAL XYLENES (mg/kg)  
NAPHTHALENE (mg/kg)  
TPH-GRO (mg/kg)  
TPH-DRO (mg/kg)  
EC mmhos/cm  
pH Units  
SAR Units

NA NOT ANALYZED

Figure 1  
SITE PLAN

**Noble Eaton Cattle 19-21**

Facility ID - 331202

NENW Sec 19, T4N, R66W - 40.30397°N -104.82154°W  
Weld County, Colorado

API No.  
**05-123-20305**

Prepared by

Drawn by

**TDA**

Date  
**10/24/18**

Reviewed by  
**PH**

Filename  
**V302A**



# Summit Scientific

---

4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

October 08, 2018

Paul Henehan

Fremont Environmental

PO Box 1289

Wellington, CO 80549

RE: Noble - Eaton Cattle 19-21

Enclosed are the results of analyses for samples received by Summit Scientific on 10/01/18 16:02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'P. Shrewsbury', with a stylized, cursive script.

Paul Shrewsbury For Ben Shrewsbury

Laboratory Manager



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N. WALL 3FT	1810017-01	Soil	09/26/18 00:00	10/01/18 16:02
FLOOR 7FT	1810017-02	Soil	09/26/18 00:00	10/01/18 16:02

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.*

1810017

# Summit Scientific

S<sub>2</sub>

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, kenr@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: HOWARD

Phone: 303-956-8714

Project Name: NOBLE-EATON CATTLE 19-21

Sampler Name: HENEHAN

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested					Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	GNBTEX	DRO	pH, EC	SAR		
1	N. Wall 31st	9/26/18		1			✓			✓				✓	✓	✓	✓	
2	FLOOR 7 FT	11		1			✓			✓				✓	✓			
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Relinquished by:	Date/Time:	Received by:	Date/Time:	<b>Turn Around Time</b> (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____ <b>Sample Integrity:</b> Temperature Upon Receipt: 18.5 Samples Intact: Yes No	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Sample Receipt Checklist

S2 Work Order: 1810017

Client: Fremont Client Project ID: Noble Eaton Cattle 19-21

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

Airbill #: \_\_\_\_\_

Matrix (check all that apply):      Air ✓ Soil/Solid      Water      Other: \_\_\_\_\_  
(Describe)

Temp (°C)	<u>18.9</u>
-----------	-------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ?	<u>✓</u>			
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 <sup>(1)</sup> ?	<u>✓</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>✓</u>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<u>✓</u>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<u>✓</u>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<u>✓</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>✓</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>✓</u>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<u>✓</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<u>✓</u>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?			<u>✓</u>	
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 <sup>(1)</sup> ?			<u>✓</u>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<u>✓</u>	

Additional Comments (if any):

<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.

UP  
Custodian Printed Name or Initials

[Signature]  
Signature or Initials of Custodian

10.1.18 1815  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**N. WALL 3FT**  
**1810017-01 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1810031	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		125 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1810032	10/02/18	10/03/18	EPA 8015M	

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: o-Terphenyl		98.5 %	30-150		"	"	"	"	

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	822	10.3	mg/kg dry	1	1810094	10/05/18	10/05/18	EPA 6020B	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**N. WALL 3FT**  
**1810017-01 (Soil)**

**Summit Scientific**

**Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis**

Magnesium	220	5.14	mg/kg dry	1	1810094	10/05/18	10/05/18	EPA 6020B
Sodium	28.4	5.14	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.227	0.100	units	1	1810107	10/08/18	10/08/18	Calculation	

**Physical Parameters by APHA/ASTM/EPA Methods**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	97.3		%	1	1810076	10/04/18	10/04/18	Calculation	
pH	7.41		pH Units	"	1810044	10/03/18	10/04/18	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.246	0.0100	mmhos/cm	1	1810097	10/05/18	10/05/18	EPA 120.1	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**FLOOR 7FT**  
**1810017-02 (Soil)**

**Summit Scientific**

**Volatile Organic Compounds by EPA Method 8260B**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1810031	10/02/18	10/04/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		121 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **09/26/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1810032	10/02/18	10/03/18	EPA 8015M	

Date Sampled: **09/26/18 00:00**

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

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

## 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

#### Batch 1810031 - EPA 5030 Soil MS

##### Blank (1810031-BLK1)

Prepared: 10/02/18 Analyzed: 10/03/18

Benzene	ND	0.0020	mg/kg						
Toluene	ND	0.0050	"						
Ethylbenzene	ND	0.0050	"						
Xylenes (total)	ND	0.010	"						
Naphthalene	ND	0.010	"						
Gasoline Range Hydrocarbons	ND	50	"						
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0396	102	23-173			
Surrogate: Toluene-d8	0.0401		"	0.0400	100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400	94.3	21-167			

##### LCS (1810031-BS1)

Prepared: 10/02/18 Analyzed: 10/03/18

Benzene	0.0866	0.0020	mg/kg	0.100	86.6	70-130			
Toluene	0.0994	0.0050	"	0.100	99.4	70-130			
Ethylbenzene	0.106	0.0050	"	0.100	106	70-130			
m,p-Xylene	0.215	0.010	"	0.200	107	70-130			
o-Xylene	0.107	0.0050	"	0.100	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0399		"	0.0396	101	23-173			
Surrogate: Toluene-d8	0.0390		"	0.0400	97.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0380		"	0.0400	95.0	21-167			

##### Matrix Spike (1810031-MS1)

Source: 1809389-01

Prepared: 10/02/18 Analyzed: 10/03/18

Benzene	0.0915	0.0020	mg/kg	0.100	ND	91.5	70-130		
Toluene	0.104	0.0050	"	0.100	ND	104	70-130		
Ethylbenzene	0.112	0.0050	"	0.100	ND	112	70-130		
m,p-Xylene	0.228	0.010	"	0.200	ND	114	70-130		
o-Xylene	0.113	0.0050	"	0.100	ND	113	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.0416		"	0.0396	105	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400	98.6	20-170			
Surrogate: 4-Bromofluorobenzene	0.0377		"	0.0400	94.4	21-167			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**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 1810031 - EPA 5030 Soil MS**

Matrix Spike Dup (1810031-MSD1)		Source: 1809389-01			Prepared: 10/02/18 Analyzed: 10/03/18					
Benzene	0.0889	0.0020	mg/kg	0.100	ND	88.9	70-130	2.93	30	
Toluene	0.101	0.0050	"	0.100	ND	101	70-130	3.33	30	
Ethylbenzene	0.107	0.0050	"	0.100	ND	107	70-130	4.62	30	
m,p-Xylene	0.218	0.010	"	0.200	ND	109	70-130	4.57	30	
o-Xylene	0.109	0.0050	"	0.100	ND	109	70-130	4.25	30	
Surrogate: 1,2-Dichloroethane-d4	0.0412		"	0.0396		104	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0373		"	0.0400		93.2	21-167			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**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 1810032 - EPA 3550A**

**Blank (1810032-BLK1)**

Prepared: 10/02/18 Analyzed: 10/03/18

C10-C28 (DRO) ND 50 mg/kg

**LCS (1810032-BS1)**

Prepared: 10/02/18 Analyzed: 10/03/18

C10-C28 (DRO) 479 50 mg/kg 500 95.8 70-130

**Matrix Spike (1810032-MS1)**

**Source: 1810010-01**

Prepared: 10/02/18 Analyzed: 10/03/18

C10-C28 (DRO) 500 50 mg/kg 500 103 79.3 70-130

**Matrix Spike Dup (1810032-MSD1)**

**Source: 1810010-01**

Prepared: 10/02/18 Analyzed: 10/03/18

C10-C28 (DRO) 503 50 mg/kg 500 103 80.1 70-130 0.745 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

## Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control

### Summit Scientific

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

#### Batch 1810094 - General Preparation

##### Blank (1810094-BLK1)

Prepared & Analyzed: 10/05/18

Calcium	ND	10.0	mg/kg wet
Magnesium	ND	5.00	"
Sodium	ND	5.00	"

##### LCS (1810094-BS1)

Prepared & Analyzed: 10/05/18

Calcium	491	10.0	mg/kg wet	500	98.3	70-130
Magnesium	471	5.00	"	500	94.2	70-130
Sodium	456	5.00	"	500	91.2	70-130

##### Duplicate (1810094-DUP1)

Source: 1809438-04

Prepared & Analyzed: 10/05/18

Calcium	10000	12.9	mg/kg dry	9390	6.63	20
Magnesium	774	6.43	"	850	9.37	20
Sodium	93.9	6.43	"	98.9	5.16	20

##### Matrix Spike (1810094-MS1)

Source: 1809438-04

Prepared & Analyzed: 10/05/18

Calcium	10000	12.9	mg/kg dry	643	9390	93.8	70-130
Magnesium	1360	6.43	"	643	850	80.1	70-130
Sodium	735	6.43	"	643	98.9	99.0	70-130

##### Matrix Spike Dup (1810094-MSD1)

Source: 1809438-04

Prepared & Analyzed: 10/05/18

Calcium	10000	12.9	mg/kg dry	643	9390	96.6	70-130	0.179	25
Magnesium	1450	6.43	"	643	850	93.7	70-130	6.17	25
Sodium	905	6.43	"	643	98.9	125	70-130	20.7	25

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**Physical Parameters by APHA/ASTM/EPA Methods - Quality Control**  
**Summit Scientific**

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

**Batch 1810044 - General Preparation**

**LCS (1810044-BS1)**

Prepared: 10/03/18 Analyzed: 10/04/18

pH	9.2		pH Units	9.18		99.7	95-105		
----	-----	--	----------	------	--	------	--------	--	--

**Duplicate (1810044-DUP1)**

**Source: 1809379-03**

Prepared: 10/03/18 Analyzed: 10/04/18

pH	8.7		pH Units		8.6			0.578	20
----	-----	--	----------	--	-----	--	--	-------	----

**Batch 1810076 - General Preparation**

**Duplicate (1810076-DUP1)**

**Source: 1809408-02**

Prepared & Analyzed: 10/04/18

% Solids	96.2		%		96.4			0.208	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 - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 1810097 - General Preparation**

**Blank (1810097-BLK1)**

Prepared & Analyzed: 10/05/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1810097-BS1)**

Prepared & Analyzed: 10/05/18

Specific Conductance (EC) 0.792 0.0100 mmhos/cm 0.750 106 90-110

**Duplicate (1810097-DUP1)**

**Source: 1809438-04**

Prepared & Analyzed: 10/05/18

Specific Conductance (EC) 0.778 0.0100 mmhos/cm 0.811 4.03 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 - Eaton Cattle 19-21

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
10/08/18 15:07

### 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