



**LEGEND**

-  FENCE LINE
-  CONTAINMENT BERM
-  CONTAINMENT WALL
-  ABOVE GROUND STORAGE TANK
-  FORMER FACILITY

**Figure 1  
SITE MAP**

**Noble Roth A30-7,8**  
 Facility ID - 329404  
 SW NE Section 30, T6N, R64W  
 Weld County, Colorado

API No. <b>05-123-17294</b>	Prepared by <b>JMA</b>	Drawn by <b>JMA</b>
Date <b>3/31/16</b>	Reviewed by	Filename <b>V004A</b>



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

January 14, 2016

Paul Henehan  
Fremont Environmental  
1759 Redwing Lane  
Broomfield, CO 80020  
RE: Noble - Roth 2-20

Enclosed are the results of analyses for samples received by Summit Scientific on 01/13/16 19:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Paul Shrewsbury  
President



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor 6FT	1601099-01	Soil	01/13/16 00:00	01/13/16 19:00
North 3FT	1601099-02	Soil	01/13/16 00:00	01/13/16 19:00

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
01/14/16 06:50

# Summit Scientific 1601099

S<sub>2</sub>

741 Corporate Circle, Suite J ♦ Golden, Colorado 80401  
303-277-9310 ♦ 303-374-5933

Page 1 of 1

Client: FREMONT/NOBLE Project Manager: HENEHAN  
Address: \_\_\_\_\_ E-Mail: \_\_\_\_\_  
City/State/Zip: \_\_\_\_\_  
Phone: 3039568714 Fax: \_\_\_\_\_ Project Name: NOBLE - ROTH 2-20  
Sampler Name: HENEHAN Project Number: \_\_\_\_\_

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested						Special Instructions
					HCl	HNO3	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	Geo/DRO	NAPHTH	SAR	EC	PH	
1	FLOOR - 6 FT	1/13/16		1			✓			✓			✓	✓	✓	✓	✓		
2	NORTH - 3 FT	"		1			✓			✓			✓	✓	✓	✓	✓		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

  

Relinquished by: <u>[Signature]</u> Date/Time: <u>1/13/16 16:55</u>	Received by: <u>[Signature]</u> Date/Time: <u>1-13-16 16:55</u>	Turn Around Time (Check) Same Day <input checked="" type="checkbox"/> 72 hours 24 hours <input type="checkbox"/> Standard 48 hours <input type="checkbox"/>	Notes:
Relinquished by: <u>[Signature]</u> Date/Time: <u>1-13-16 18:50</u>	Received by: _____ Date/Time: _____	Sample Integrity: <u>THURS. AM PLE</u>	
Relinquished by: _____ Date/Time: _____	Received by: _____ Date/Time: _____	Temperature Upon Receipt: <u>20.5°C</u> Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

www.s2scientific.com



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
01/14/16 06:50

**Floor 6FT**  
**1601099-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1601125	01/13/16	01/13/16	8015M	

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		91.6 %	30-150		"	"	"	"	

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

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1601126	01/13/16	01/13/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.1 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.3 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

**North 3FT  
1601099-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **01/13/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1601125	01/13/16	01/13/16	8015M	

Date Sampled: **01/13/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		97.5 %	30-150		"	"	"	"	

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

Date Sampled: **01/13/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1601126	01/13/16	01/13/16	EPA 8260B	
Benzene	ND	0.0020	"	"	"	"	"	"	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **01/13/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.3 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.9 %	21-167		"	"	"	"	

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

Date Sampled: **01/13/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

**North 3FT  
1601099-02 (Soil)**

**Summit Scientific**

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	820	12.2	mg/kg dry	1	1601128	01/13/16	01/13/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	165	6.10	"	"	"	"	"	"	
Sodium	120	6.10	"	"	"	"	"	"	

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	1.00		units	"	1601130	01/14/16	01/14/16	"	

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

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.717	0.0100	mmhos/cm	1	1601127	01/13/16	01/13/16	SM 2510B	

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.28	1.00	pH Units	"	1601116	01/13/16	01/13/16	EPA 9040	

Date Sampled: 01/13/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	82.0		%	"	1601129	01/14/16	01/14/16	% calculation	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

**Extractable Petroleum Hydrocarbons by 8015 - Quality Control**  
**Summit Scientific**

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

**Batch 1601125 - EPA 3550A**

**Blank (1601125-BLK1)**

Prepared & Analyzed: 01/13/16

C10-C28 (DRO)	ND	50	mg/kg								
<i>Surrogate: o-Terphenyl</i>	12.7		"	12.5		102	30-150				

**LCS (1601125-BS1)**

Prepared & Analyzed: 01/13/16

C10-C28 (DRO)	551	50	mg/kg	499		110	73-134				
<i>Surrogate: o-Terphenyl</i>	11.7		"	12.5		93.8	30-150				

**Matrix Spike (1601125-MS1)**

Source: 1601096-01

Prepared & Analyzed: 01/13/16

C10-C28 (DRO)	563	50	mg/kg	499	19.4	109	50-148				
<i>Surrogate: o-Terphenyl</i>	11.9		"	12.5		95.1	30-150				

**Matrix Spike Dup (1601125-MSD1)**

Source: 1601096-01

Prepared & Analyzed: 01/13/16

C10-C28 (DRO)	613	50	mg/kg	499	19.4	119	50-148	8.34		13	
<i>Surrogate: o-Terphenyl</i>	13.0		"	12.5		104	30-150				

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
01/14/16 06:50

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

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

**Batch 1601126 - EPA 5030 Soil MS**

**Blank (1601126-BLK1)**

Prepared & Analyzed: 01/13/16

Naphthalene	ND	0.010	mg/kg							
Benzene	ND	0.0020	"							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0386</i>		<i>"</i>	<i>0.0400</i>		<i>96.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0388</i>		<i>"</i>	<i>0.0400</i>		<i>97.0</i>	<i>21-167</i>			

**LCS (1601126-BS1)**

Prepared & Analyzed: 01/13/16

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.107	0.0020	"	0.100		107	58-130			
Toluene	0.107	0.0050	"	0.100		107	61-134			
Ethylbenzene	0.127	0.0050	"	0.0992		128	74-139			
m,p-Xylene	0.241	0.010	"	0.200		121	73-137			
o-Xylene	0.113	0.0050	"	0.0984		115	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0384</i>		<i>"</i>	<i>0.0400</i>		<i>96.0</i>	<i>21-167</i>			

**Matrix Spike (1601126-MS1)**

Source: 1601098-01

Prepared & Analyzed: 01/13/16

Naphthalene	0.0221	0.010	mg/kg		0.0129		10-158			
Benzene	0.121	0.0020	"	0.100	0.0128	109	30-131			
Toluene	0.165	0.0050	"	0.100	0.0562	109	30-134			
Ethylbenzene	0.150	0.0050	"	0.0992	0.0163	135	22-153			
m,p-Xylene	0.404	0.010	"	0.200	0.124	140	10-159			
o-Xylene	0.191	0.0050	"	0.0984	0.0537	139	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0446</i>		<i>"</i>	<i>0.0400</i>		<i>111</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0403</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>21-167</i>			

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

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

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

**Batch 1601126 - EPA 5030 Soil MS**

<b>Matrix Spike Dup (1601126-MSD1)</b>	<b>Source: 1601098-01</b>			<b>Prepared &amp; Analyzed: 01/13/16</b>						
Naphthalene	0.0190	0.010	mg/kg		0.0129		10-158	14.9	42	
Benzene	0.117	0.0020	"	0.100	0.0128	104	30-131	3.73	34	
Toluene	0.153	0.0050	"	0.100	0.0562	96.7	30-134	7.48	30	
Ethylbenzene	0.146	0.0050	"	0.0992	0.0163	131	22-153	2.89	24	
m,p-Xylene	0.366	0.010	"	0.200	0.124	121	10-159	9.80	68	
o-Xylene	0.174	0.0050	"	0.0984	0.0537	122	31-151	9.34	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0427</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0395</i>		<i>"</i>	<i>0.0400</i>		<i>98.8</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.1</i>	<i>21-167</i>			

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
01/14/16 06:50

**Soluble Nutrients by EPA 6020/Mod. USDA60 6(2, 3A) - Dry Weight Basis - Quality Control**  
**Summit Scientific**

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

**Batch 1601128 - General Preparation**

**Blank (1601128-BLK1)**

Prepared & Analyzed: 01/13/16

Calcium	50.4	10.0	mg/kg wet							
Magnesium	ND	5.00	"							
Sodium	175	5.00	"							

**LCS (1601128-BS1)**

Prepared & Analyzed: 01/13/16

Calcium	733	10.0	mg/kg wet	500	147	82.9-118				
Magnesium	648	5.00	"	500	130	77.1-123				
Sodium	712	5.00	"	500	142	71-129				

**Duplicate (1601128-DUP1)**

Source: 1601099-02

Prepared & Analyzed: 01/13/16

Calcium	832	12.2	mg/kg dry	820	1.49	200				
Magnesium	154	6.10	"	165	6.75	200				
Sodium	99.1	6.10	"	120	18.6	200				

**Matrix Spike (1601128-MS1)**

Source: 1601099-02

Prepared & Analyzed: 01/13/16

Calcium	1370	12.2	mg/kg dry	610	820	91.0	75-125			
Magnesium	829	6.10	"	610	165	109	75-125			
Sodium	769	6.10	"	610	120	106	75-125			

**Matrix Spike Dup (1601128-MSD1)**

Source: 1601099-02

Prepared & Analyzed: 01/13/16

Calcium	1330	12.2	mg/kg dry	610	820	84.2	75-125	3.05	25	
Magnesium	836	6.10	"	610	165	110	75-125	0.868	25	
Sodium	776	6.10	"	610	120	108	75-125	0.875	25	

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1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

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

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

**Batch 1601116 - General Preparation**

<b>LCS (1601116-BS1)</b>					Prepared & Analyzed: 01/13/16					
pH	6.02	1.00	pH Units	6.00	100	95-105				
<b>Duplicate (1601116-DUP1)</b>					Source: 1601093-01 Prepared & Analyzed: 01/13/16					
pH	8.29	1.00	pH Units	8.27	0.242	13.7				

**Batch 1601127 - General Preparation**

<b>Blank (1601127-BLK1)</b>					Prepared & Analyzed: 01/13/16					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
<b>LCS (1601127-BS1)</b>					Prepared & Analyzed: 01/13/16					
Specific Conductance (EC)	0.989	0.00200	mmhos/cm	1.00	98.9	90-110				
<b>Duplicate (1601127-DUP1)</b>					Source: 1601098-01 Prepared & Analyzed: 01/13/16					
Specific Conductance (EC)	0.649	0.0100	mmhos/cm	0.635	2.18	20				

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Roth 2-20

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
01/14/16 06:50

### 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

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