



#### LEGEND

	FENCE LINE
	CONTAINMENT BERM
	ABOVE GROUND STORAGE TANK
	FORMER FACILITY

Figure 1  
SITE MAP

**Noble State 16-214**  
Facility ID - 329752  
NE NW Section 16, T4N, R64W  
Weld County, Colorado

API No. <b>05-123-329752</b>	Prepared by	Drawn by <b>JMA</b>	
Date <b>5/10/16</b>	Reviewed by	Filename <b>V025A</b>	

# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 03, 2016

Paul Henehan  
Fremont Environmental  
1759 Redwing Lane  
Broomfield, CO 80020  
RE: Noble - State 16-2i4

Enclosed are the results of analyses for samples received by Summit Scientific on 04/01/16 17:30. 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  
President



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 15:07

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor 5 FT	1604008-01	Soil	04/01/16 00:00	04/01/16 17:30
N. Wall 3 FT	1604008-02	Soil	04/01/16 00:00	04/01/16 17:30

Summit Scientific

A handwritten signature in black ink, appearing to be 'MSM'.

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
04/03/16 15:07

# Summit Scientific *1604008*

*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: *303/956 8714*

Fax:

Project Name: *NOBLE - STATE 16-214*

Sampler Name: *HENEHAN*

Project Number:

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

Relinquished by: <i>[Signature]</i>	Date/Time: <i>4/1/16 15:32</i>	Received by: <i>[Signature]</i>	Date/Time: <i>4-1-16 15:32</i>	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: <i>[Signature]</i>	Date/Time: <i>4-1-16 17:30</i>	Received by:	Date/Time:	Sample Integrity: <i>MON AM PLZ</i>	
Relinquished by:	Date/Time:	Received by:	Date/Time:	Temperature Upon Receipt: <i>21.3</i> Intact: <input checked="" type="checkbox"/> Yes No	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
04/03/16 15:07

**Floor 5 FT**  
**1604008-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604018	04/01/16	04/01/16	8015M	

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		114 %	30-150		"	"	"	"	

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

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1604017	04/01/16	04/01/16	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: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		103 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 15:07

**N. Wall 3 FT**  
**1604008-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **04/01/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1604018	04/01/16	04/01/16	8015M	

Date Sampled: **04/01/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		111 %	30-150		"	"	"	"	

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

Date Sampled: **04/01/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1604017	04/01/16	04/01/16	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: **04/01/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		106 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.7 %	21-167		"	"	"	"	

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

Date Sampled: **04/01/16 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 15:07

**N. Wall 3 FT**  
**1604008-02 (Soil)**

**Summit Scientific**

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

Calcium	5510	11.7 mg/kg dry	1	1604015	04/01/16	04/02/16	EPA 6020/Mod. USDA60 6(2, 3A)	
Magnesium	291	5.85	"	"	"	"	"	"
Sodium	7.20	5.85	"	"	"	"	"	"

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.0300		units	"	1604023	04/03/16	04/03/16	"	

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

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.361	0.0100	mmhos/cm	1	1604016	04/01/16	04/02/16	SM 2510B	

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.37	1.00	pH Units	"	1604011	04/01/16	"	SM 4500_H+	

Date Sampled: 04/01/16 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	85.5		%	"	1604022	04/03/16	04/03/16	% calculation	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 15:07

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

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

**Batch 1604018 - EPA 3550A**

**Blank (1604018-BLK1)**

Prepared & Analyzed: 04/01/16

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 15.0 " 12.5 120 30-150

**LCS (1604018-BS1)**

Prepared & Analyzed: 04/01/16

C10-C28 (DRO) 530 50 mg/kg 499 106 73-134

Surrogate: o-Terphenyl 14.8 " 12.5 118 30-150

**Matrix Spike (1604018-MS1)**

Source: 1604008-01

Prepared & Analyzed: 04/01/16

C10-C28 (DRO) 518 50 mg/kg 481 32.6 101 50-148

Surrogate: o-Terphenyl 14.1 " 12.0 117 30-150

**Matrix Spike Dup (1604018-MSD1)**

Source: 1604008-01

Prepared & Analyzed: 04/01/16

C10-C28 (DRO) 507 50 mg/kg 479 32.6 99.0 50-148 2.17 13

Surrogate: o-Terphenyl 13.9 " 12.0 116 30-150

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214  
Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
04/03/16 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 1604017 - EPA 5030 Soil MS**

**Blank (1604017-BLK1)**

Prepared & Analyzed: 04/01/16

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	"							
Surrogate: 1,2-Dichloroethane-d4	0.0396		"	0.0400		99.0	23-173			
Surrogate: Toluene-d8	0.0388		"	0.0400		97.0	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0400		100	21-167			

**LCS (1604017-BS1)**

Prepared & Analyzed: 04/01/16

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.103	0.0020	"	0.100		103	58-130			
Toluene	0.110	0.0050	"	0.100		110	61-134			
Ethylbenzene	0.125	0.0050	"	0.0992		126	74-139			
m,p-Xylene	0.232	0.010	"	0.200		116	73-137			
o-Xylene	0.114	0.0050	"	0.0980		116	73-141			
Surrogate: 1,2-Dichloroethane-d4	0.0403		"	0.0400		101	23-173			
Surrogate: Toluene-d8	0.0394		"	0.0400		98.5	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

**Matrix Spike (1604017-MS1)**

Source: 1604008-01

Prepared & Analyzed: 04/01/16

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.101	0.0020	"	0.0984	ND	102	30-131			
Toluene	0.110	0.0050	"	0.0984	ND	112	30-134			
Ethylbenzene	0.125	0.0050	"	0.0976	ND	128	22-153			
m,p-Xylene	0.236	0.010	"	0.196	ND	120	10-159			
o-Xylene	0.115	0.0050	"	0.0965	ND	119	31-151			
Surrogate: 1,2-Dichloroethane-d4	0.0391		"	0.0394		99.4	23-173			
Surrogate: Toluene-d8	0.0383		"	0.0394		97.3	20-170			
Surrogate: 4-Bromofluorobenzene	0.0394		"	0.0394		100	21-167			

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
04/03/16 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 1604017 - EPA 5030 Soil MS**

Matrix Spike Dup (1604017-MSD1)		Source: 1604008-01			Prepared & Analyzed: 04/01/16					
Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.101	0.0020	"	0.0998	ND	102	30-131	0.828	34	
Toluene	0.114	0.0050	"	0.0998	ND	114	30-134	3.00	30	
Ethylbenzene	0.129	0.0050	"	0.0990	ND	130	22-153	3.33	24	
m,p-Xylene	0.245	0.010	"	0.199	ND	123	10-159	3.86	68	
o-Xylene	0.120	0.0050	"	0.0978	ND	123	31-151	3.94	38	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	0.0398		"	0.0399		99.6	23-173			
Surrogate: Toluene-d8	0.0382		"	0.0399		95.8	20-170			
Surrogate: 4-Bromofluorobenzene	0.0400		"	0.0399		100	21-167			

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1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 15:07

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

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

**Batch 1604015 - General Preparation**

**Blank (1604015-BLK1)**

Prepared: 04/01/16 Analyzed: 04/02/16

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

**LCS (1604015-BS1)**

Prepared: 04/01/16 Analyzed: 04/02/16

Calcium	568	10.0	mg/kg wet	500	114	82.9-118
Magnesium	580	5.00	"	500	116	77.1-123
Sodium	590	5.00	"	500	118	71-129

**Duplicate (1604015-DUP1)**

Source: 1604008-02

Prepared: 04/01/16 Analyzed: 04/02/16

Calcium	5820	11.7	mg/kg dry	5510	5.38	200
Magnesium	313	5.85	"	291	7.42	200
Sodium	10.5	5.85	"	7.20	36.9	200

**Matrix Spike (1604015-MS1)**

Source: 1604008-02

Prepared: 04/01/16 Analyzed: 04/02/16

Calcium	6360	11.7	mg/kg dry	585	5510	145	75-125	QM-07
Magnesium	966	5.85	"	585	291	116	75-125	
Sodium	745	5.85	"	585	7.20	126	75-125	QM-07

**Matrix Spike Dup (1604015-MSD1)**

Source: 1604008-02

Prepared: 04/01/16 Analyzed: 04/02/16

Calcium	6180	11.7	mg/kg dry	585	5510	114	75-125	2.88	25
Magnesium	939	5.85	"	585	291	111	75-125	2.89	25
Sodium	667	5.85	"	585	7.20	113	75-125	11.1	25

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 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 1604011 - General Preparation**

**LCS (1604011-BS1)**

Prepared & Analyzed: 04/01/16

pH	8.03	1.00	pH Units	8.00	100	95-105
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**Duplicate (1604011-DUP1)**

**Source: 1604004-01**

Prepared & Analyzed: 04/01/16

pH	7.58	1.00	pH Units	ND	13.7
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**Batch 1604016 - General Preparation**

**Blank (1604016-BLK1)**

Prepared: 04/01/16 Analyzed: 04/02/16

Specific Conductance (EC)	ND	0.0100	mmhos/cm
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**LCS (1604016-BS1)**

Prepared: 04/01/16 Analyzed: 04/02/16

Specific Conductance (EC)	0.0985	0.00200	mmhos/cm	0.100	98.5	90-110
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**Duplicate (1604016-DUP1)**

**Source: 1604008-02**

Prepared: 04/01/16 Analyzed: 04/02/16

Specific Conductance (EC)	0.383	0.0100	mmhos/cm	0.361	5.88	20
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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - State 16-214

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
04/03/16 15:07

### 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

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