



LEGEND

	FENCE LINE
	CONTAINMENT BERM
	ABOVE GROUND STORAGE TANK
	FORMER FACILITY

Figure 1
SITE MAP

Noble Norris Y 6-5
 Facility ID - 330134
 SW NW Section 6, T2N, R64W
 Weld County, Colorado

API No. 05-123-18483	Prepared by	Drawn by JMA	
Date 3/31/16	Reviewed by	Filename V002A	

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

December 30, 2015

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Noble - Norris Y 6-5

Enclosed are the results of analyses for samples received by Summit Scientific on 12/29/15 16:25. 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 - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Floor - 6FT	1512224-01	Soil	12/29/15 00:00	12/29/15 16:25
S. Wall - 3FT	1512224-02	Soil	12/29/15 00:00	12/29/15 16:25

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

Summit Scientific 1512224

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 - NORRIS Y 6-5

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	GRA/PRO	NA/PAHs	SAR	EC		PH
1	FLOOR - 6 FT	12/29/15		1															
2	S. WALL - 3 FT	12/29/15		1															
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/29/15 16:25</u>	Received by: <u>[Signature]</u>	Date/Time: <u>12-29-15 16:25</u>	Turn Around Time (Check)	Notes:
Relinquished by: <u>[Signature]</u>	Date/Time: <u>12-29-15 17:35</u>	Received by:	Date/Time:	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"/> WED AM PLZ. Sample Integrity: Temperature Upon Receipt: <u>13.6°C</u> Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No
Relinquished by:	Date/Time:	Received by:	Date/Time:		

www.s2scientific.com

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

Floor - 6FT
1512224-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	120	50	mg/kg	1	1512252	12/29/15	12/30/15	8015M	

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		116 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	0.12	0.010	mg/kg	1	1512251	12/29/15	12/29/15	EPA 8260B	
Benzene	0.091	0.0020	"	"	"	"	"	"	
Toluene	0.72	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.18	0.0050	"	"	"	"	"	"	
Xylenes (total)	1.8	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	110	0.50	"	"	"	"	"	"	

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		120 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		92.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		156 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

S. Wall - 3FT
151224-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1512252	12/29/15	12/30/15	8015M	

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		102 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1512251	12/29/15	12/29/15	EPA 8260B	
Benzene	0.0085	0.0020	"	"	"	"	"	"	
Toluene	0.084	0.0050	"	"	"	"	"	"	
Ethylbenzene	0.018	0.0050	"	"	"	"	"	"	
Xylenes (total)	0.22	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	8.5	0.50	"	"	"	"	"	"	

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		110 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.3 %	21-167		"	"	"	"	

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

Date Sampled: 12/29/15 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 - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

S. Wall - 3FT
1512224-02 (Soil)

Summit Scientific

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

Calcium	139	11.6 mg/kg dry	1	1512245	12/29/15	12/29/15	EPA 6020/Mod. USDA60 6(2, 3A)
Magnesium	27.7	5.78	"	"	"	"	"
Sodium	11.3	5.78	"	"	"	"	"

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.230		units	"	1512253	12/30/15	12/30/15	"	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	2.10	0.0100 mmhos/cm		1	1512247	12/29/15	12/29/15	SM 2510B	

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	9.18	0.100 pH Units		"	1512246	12/29/15	12/29/15	EPA 9045	

Date Sampled: 12/29/15 00:00

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	86.5		%	"	1512248	12/29/15	12/30/15	% calculation	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

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 1512252 - EPA 3550A

Blank (1512252-BLK1)

Prepared & Analyzed: 12/29/15

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 11.3 " 12.5 90.8 30-150

LCS (1512252-BS1)

Prepared & Analyzed: 12/29/15

C10-C28 (DRO) 522 50 mg/kg 499 105 73-134

Surrogate: o-Terphenyl 11.8 " 12.5 94.1 30-150

Matrix Spike (1512252-MS1)

Source: 1512224-01

Prepared & Analyzed: 12/29/15

C10-C28 (DRO) 550 50 mg/kg 488 115 89.0 50-148

Surrogate: o-Terphenyl 11.3 " 12.2 92.7 30-150

Matrix Spike Dup (1512252-MSD1)

Source: 1512224-01

Prepared & Analyzed: 12/29/15

C10-C28 (DRO) 565 50 mg/kg 497 115 90.5 50-148 2.77 13

Surrogate: o-Terphenyl 11.7 " 12.5 94.0 30-150

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5
Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

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 1512251 - EPA 5030 Soil MS

Blank (1512251-BLK1)

Prepared & Analyzed: 12/29/15

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	0.50	"							
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0451</i>		<i>"</i>	<i>0.0400</i>		<i>113</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0389</i>		<i>"</i>	<i>0.0400</i>		<i>97.3</i>	<i>21-167</i>			

LCS (1512251-BS1)

Prepared & Analyzed: 12/29/15

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0896	0.0020	"	0.100		89.6	58-130			
Toluene	0.0983	0.0050	"	0.100		98.3	61-134			
Ethylbenzene	0.118	0.0050	"	0.0992		119	74-139			
m,p-Xylene	0.229	0.010	"	0.200		115	73-137			
o-Xylene	0.103	0.0050	"	0.0984		105	73-141			
Xylenes (total)	0.332	0.010	"				0-200			
Gasoline Range Hydrocarbons	2.39	0.50	"				30-150			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0437</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0404</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>21-167</i>			

Matrix Spike (1512251-MS1)

Source: 1512224-01

Prepared & Analyzed: 12/29/15

Naphthalene	0.0390	0.010	mg/kg		0.116		10-158			
Benzene	0.113	0.0020	"	0.0975	0.0910	22.8	30-131			
Toluene	0.291	0.0050	"	0.0975	0.720	NR	30-134			
Ethylbenzene	0.166	0.0050	"	0.0967	0.183	NR	22-153			
m,p-Xylene	0.675	0.010	"	0.195	1.44	NR	10-159			
o-Xylene	0.224	0.0050	"	0.0959	0.406	NR	31-151			
Xylenes (total)	0.900	0.010	"		1.84		30-160			
Gasoline Range Hydrocarbons	5.55	0.50	"		108		30-160			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0444</i>		<i>"</i>	<i>0.0390</i>		<i>114</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0365</i>		<i>"</i>	<i>0.0390</i>		<i>93.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0390</i>		<i>97.1</i>	<i>21-167</i>			

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

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 1512251 - EPA 5030 Soil MS

Matrix Spike Dup (1512251-MSD1)	Source: 1512224-01			Prepared & Analyzed: 12/29/15						
Naphthalene	0.0529	0.010	mg/kg		0.116		10-158	30.2	42	
Benzene	0.106	0.0020	"	0.0962	0.0910	16.0	30-131	6.28	34	
Toluene	0.262	0.0050	"	0.0962	0.720	NR	30-134	10.7	30	
Ethylbenzene	0.164	0.0050	"	0.0954	0.183	NR	22-153	1.27	24	
m,p-Xylene	0.680	0.010	"	0.192	1.44	NR	10-159	0.676	68	
o-Xylene	0.230	0.0050	"	0.0946	0.406	NR	31-151	2.67	38	
Xylenes (total)	0.910	0.010	"		1.84		30-160	1.18	30	
Gasoline Range Hydrocarbons	10.4	0.50	"		108		30-160	60.4	30	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0427</i>		<i>"</i>	<i>0.0385</i>		<i>111</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0359</i>		<i>"</i>	<i>0.0385</i>		<i>93.4</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0378</i>		<i>"</i>	<i>0.0385</i>		<i>98.2</i>	<i>21-167</i>			

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

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 1512245 - General Preparation

Blank (1512245-BLK1)

Prepared & Analyzed: 12/29/15

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

LCS (1512245-BS1)

Prepared & Analyzed: 12/29/15

Calcium	504	10.0	mg/kg wet	500	101	82.9-118
Magnesium	494	5.00	"	500	98.8	77.1-123
Sodium	555	5.00	"	500	111	71-129

Duplicate (1512245-DUP1)

Source: 1512209-01

Prepared & Analyzed: 12/29/15

Calcium	109	10.0	mg/kg wet	117	7.01	200
Magnesium	70.5	5.00	"	75.9	7.39	200
Sodium	25.4	5.00	"	41.1	47.1	200

Matrix Spike (1512245-MS1)

Source: 1512209-01

Prepared & Analyzed: 12/29/15

Calcium	585	10.0	mg/kg wet	500	117	93.8	75-125
Magnesium	597	5.00	"	500	75.9	104	75-125
Sodium	553	5.00	"	500	41.1	102	75-125

Matrix Spike Dup (1512245-MSD1)

Source: 1512209-01

Prepared & Analyzed: 12/29/15

Calcium	616	10.0	mg/kg wet	500	117	99.9	75-125	5.15	25
Magnesium	626	5.00	"	500	75.9	110	75-125	4.77	25
Sodium	594	5.00	"	500	41.1	111	75-125	7.14	25

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

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 1512246 - General Preparation

LCS (1512246-BS1)

Prepared & Analyzed: 12/29/15

pH	8.02	0.100	pH Units	8.00	100	95-105
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Duplicate (1512246-DUP1)

Source: 1512217-01

Prepared & Analyzed: 12/29/15

pH	8.86	0.100	pH Units	8.80	0.679	20
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Batch 1512247 - General Preparation

Blank (1512247-BLK1)

Prepared & Analyzed: 12/29/15

Specific Conductance (EC)	ND	0.0100	mmhos/cm
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LCS (1512247-BS1)

Prepared & Analyzed: 12/29/15

Specific Conductance (EC)	0.497	0.0100	mmhos/cm	0.500	99.3	90-110
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Duplicate (1512247-DUP1)

Source: 1512217-01

Prepared & Analyzed: 12/29/15

Specific Conductance (EC)	3.75	0.0100	mmhos/cm	3.82	1.89	20
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Batch 1512248 - General Preparation

Duplicate (1512248-DUP1)

Source: 1512195-01

Prepared: 12/29/15 Analyzed: 12/30/15

% Solids	0.00	%	ND	20
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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Norris Y 6-5

Project Number: [none]
Project Manager: Paul Henehan

Reported:
12/30/15 06:47

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

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

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