



LEGEND

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

**Figure 1
SITE MAP**

Noble Ley 7-19
 Facility ID - 326729
 SW NE Section 19, T6N, R64W
 Weld County, Colorado

API No. 05-123-13568	Prepared by JMA	Drawn by JMA
Date 5/7/17	Reviewed by	Filename V130A



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 05, 2017

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Noble - Ley 7-9

Enclosed are the results of analyses for samples received by Summit Scientific on 04/28/17 13:25. 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', written in a cursive style.

Paul Shrewsbury
President



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
N Wall 3 FT	1704294-01	Soil	04/28/17 00:00	04/28/17 13:25
Floor 6 FT	1704294-02	Soil	04/28/17 00:00	04/28/17 13:25

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S₂

Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

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1704294

S₂

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

Page 1 of 1

Client: Fremont Environmental Project Manager: Paul Henehan
Address: P.O. Box 1289 E-Mail: paulh@fremontenv.com **BILL TO HOWARD**
City/State/Zip: PO Box 1829 Wellington, CO 80549
Phone: 303-956-8714 Fax: Project Name: **NOBLE - LEY 7-9**
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	GRO/DRO	Napthalene	SAR	EC	pH	
1	N. WALL 3 FT	4/28/17		1			✓		✓				✓	✓	✓	✓	✓		
2	FLOOR 6 FT	"		1			✓		✓				✓	✓	✓	✓	✓		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: PH Date/Time: 4/28/17 13:25	Received by: RP Date/Time: 4-28-17 13:25	Turn Around Time (Check) Same Day <input type="checkbox"/> 72 hours <input type="checkbox"/> 24 hours <input type="checkbox"/> Standard <input checked="" type="checkbox"/> 48 hours <input type="checkbox"/> Sample Integrity: Temperature Upon Receipt: 5.7 Intact: <input checked="" type="checkbox"/> No <input type="checkbox"/>	Notes:
Relinquished by: PH Date/Time: 4-28-17 18:00	Received by:		
Relinquished by:	Received by:		

www.s2scientific.com

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

Sample Receipt Checklist

S2 Work Order: 1704294
 Client: Fremont Client Project ID: Noble-Ley 7-9
 Shipped Via: H.D. Airbill #: _____
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Matrix (check all that apply): Air Soil/Solid Water Other: _____
(Describe)

Cooler ID					
Temp (°C)	<u>5.7</u>				

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature just above 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
NOTE: If samples are delivered the same day of sampling, this requirement is waived provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
If custody seals are present, are they intact ⁽¹⁾ ?			<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?			<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) ⁽¹⁾ ?			<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 checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?			<input checked="" type="checkbox"/>	
Additional Comments (if any):				
⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.				

Murphy Custodian Printed Name MAG 4-28-17 Signature or Initials of Custodian 14:10 Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

N Wall 3 FT
1704294-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1705004	05/01/17	05/02/17	8015M	

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		120 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1705005	05/01/17	05/02/17	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: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.2 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.3 %	21-167		"	"	"	"	

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

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	358	10.6	mg/kg dry	1	1705001	05/01/17	05/01/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

N Wall 3 FT
1704294-01 (Soil)

Summit Scientific

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

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
Magnesium	252	5.31	mg/kg dry	1	1705001	05/01/17	05/01/17	EPA 6020/Mod. USDA60 6(2, 3A)
Sodium	45.2	5.31	"	"	"	"	"	"
Sodium Adsorption Ratio	0.448		units	"	1705010	05/01/17	05/02/17	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.12	0.100	pH Units	1	1705018	05/02/17	05/02/17	EPA 9045	
Specific Conductance (EC)	1.30	0.0100	mmhos/cm	"	1705019	05/02/17	05/02/17	SM 2510B	
% Solids	94.1		%	"	1705002	05/01/17	05/01/17	% calculation	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

Floor 6 FT
1704294-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1705004	05/01/17	05/02/17	8015M	

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		120 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1705005	05/01/17	05/02/17	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: **04/28/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		98.8 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.1 %	21-167		"	"	"	"	

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

Extractable Petroleum Hydrocarbons by 8015 - Quality Control
Summit Scientific

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

Batch 1705004 - EPA 5030 Soil GC

Blank (1705004-BLK1)

Prepared: 05/01/17 Analyzed: 05/02/17

C10-C28 (DRO)	ND	50	mg/kg							
<i>Surrogate: o-Terphenyl</i>	15.6		"	12.5		125	30-150			

LCS (1705004-BS1)

Prepared: 05/01/17 Analyzed: 05/02/17

C10-C28 (DRO)	541	50	mg/kg	499		108	73-134			
<i>Surrogate: o-Terphenyl</i>	15.7		"	12.5		125	30-150			

Matrix Spike (1705004-MS1)

Source: 1704244-01

Prepared: 05/01/17 Analyzed: 05/02/17

C10-C28 (DRO)	657	50	mg/kg	499	194	93.0	50-148			
<i>Surrogate: o-Terphenyl</i>	14.8		"	12.5		119	30-150			

Matrix Spike Dup (1705004-MSD1)

Source: 1704244-01

Prepared: 05/01/17 Analyzed: 05/02/17

C10-C28 (DRO)	821	50	mg/kg	499	194	126	50-148	22.2	20	QM-07
<i>Surrogate: o-Terphenyl</i>	16.3		"	12.5		130	30-150			

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Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

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 1705005 - EPA 5030 Soil MS

Blank (1705005-BLK1)

Prepared: 05/01/17 Analyzed: 05/02/17

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>0.0418</i>		<i>"</i>	<i>0.0400</i>		<i>105</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0396</i>		<i>"</i>	<i>0.0400</i>		<i>99.0</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0410</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

LCS (1705005-BS1)

Prepared: 05/01/17 Analyzed: 05/02/17

Naphthalene	ND	0.010	mg/kg				66-138			
Benzene	0.0912	0.0020	"	0.100		91.2	58-130			
Toluene	0.0939	0.0050	"	0.100		93.9	61-134			
Ethylbenzene	0.0886	0.0050	"	0.0992		89.4	74-139			
m,p-Xylene	0.178	0.010	"	0.200		89.1	73-137			
o-Xylene	0.0930	0.0050	"	0.0980		94.9	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0415</i>		<i>"</i>	<i>0.0400</i>		<i>104</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0399</i>		<i>"</i>	<i>0.0400</i>		<i>99.7</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0407</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>21-167</i>			

Matrix Spike (1705005-MS1)

Source: 1704294-01

Prepared: 05/01/17 Analyzed: 05/02/17

Naphthalene	ND	0.010	mg/kg		ND		10-158			
Benzene	0.0848	0.0020	"	0.100	ND	84.8	30-131			
Toluene	0.0879	0.0050	"	0.100	ND	87.9	30-134			
Ethylbenzene	0.0847	0.0050	"	0.0992	ND	85.4	22-153			
m,p-Xylene	0.168	0.010	"	0.200	ND	84.2	10-159			
o-Xylene	0.0864	0.0050	"	0.0980	ND	88.2	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0394</i>		<i>"</i>	<i>0.0400</i>		<i>98.5</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.6</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0411</i>		<i>"</i>	<i>0.0400</i>		<i>103</i>	<i>21-167</i>			

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

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 1705005 - EPA 5030 Soil MS

Matrix Spike Dup (1705005-MSD1)

Source: 1704294-01

Prepared: 05/01/17

Analyzed: 05/02/17

Naphthalene	ND	0.010	mg/kg		ND		10-158		42	
Benzene	0.0822	0.0020	"	0.100	ND	82.2	30-131	3.09	34	
Toluene	0.0846	0.0050	"	0.100	ND	84.6	30-134	3.79	30	
Ethylbenzene	0.0817	0.0050	"	0.0992	ND	82.3	22-153	3.68	24	
m,p-Xylene	0.162	0.010	"	0.200	ND	81.1	10-159	3.69	68	
o-Xylene	0.0866	0.0050	"	0.0980	ND	88.3	31-151	0.173	38	
Surrogate: 1,2-Dichloroethane-d4	0.0425		"	0.0400		106	23-173			
Surrogate: Toluene-d8	0.0403		"	0.0400		101	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	21-167			

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Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

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 1705001 - General Preparation

Blank (1705001-BLK1)

Prepared & Analyzed: 05/01/17

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

LCS (1705001-BS1)

Prepared & Analyzed: 05/01/17

Calcium	486	10.0	mg/kg wet	500		97.2	82.9-118		
Magnesium	535	5.00	"	500		107	77.1-123		
Sodium	485	5.00	"	500		96.9	71-129		

Duplicate (1705001-DUP1)

Source: 1704290-01

Prepared & Analyzed: 05/01/17

Calcium	971	11.0	mg/kg dry		1020			5.45	200
Magnesium	293	5.48	"		295			0.821	200
Sodium	133	5.48	"		166			22.0	200

Matrix Spike (1705001-MS1)

Source: 1704290-01

Prepared & Analyzed: 05/01/17

Calcium	1530	11.0	mg/kg dry	548	1020	92.8	75-125		
Magnesium	806	5.48	"	548	295	93.3	75-125		
Sodium	632	5.48	"	548	166	85.0	75-125		

Matrix Spike Dup (1705001-MSD1)

Source: 1704290-01

Prepared & Analyzed: 05/01/17

Calcium	1480	11.0	mg/kg dry	548	1020	82.7	75-125	3.66	25
Magnesium	816	5.48	"	548	295	95.1	75-125	1.17	25
Sodium	702	5.48	"	548	166	97.8	75-125	10.5	25

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1759 Redwing Lane
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Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

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 1705002 - General Preparation

Duplicate (1705002-DUP1)	Source: 1704260-01			Prepared & Analyzed: 05/01/17							
% Solids	91.6		%		91.7				0.109	20	

Batch 1705018 - General Preparation

LCS (1705018-BS1)									Prepared & Analyzed: 05/02/17			
pH	8.03	0.100	pH Units	8.00		100	95-105					
Duplicate (1705018-DUP1)	Source: 1704294-01			Prepared & Analyzed: 05/02/17								
pH	8.18	0.100	pH Units	8.12				0.736	20			

Batch 1705019 - General Preparation

Blank (1705019-BLK1)									Prepared & Analyzed: 05/02/17			
Specific Conductance (EC)	ND	0.0100	mmhos/cm									
LCS (1705019-BS1)									Prepared & Analyzed: 05/02/17			
Specific Conductance (EC)	0.750	0.0100	mmhos/cm	0.750		100	90-110					
Duplicate (1705019-DUP1)	Source: 1704294-01			Prepared & Analyzed: 05/02/17								
Specific Conductance (EC)	1.35	0.0100	mmhos/cm	1.30				3.86	20			

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Broomfield CO, 80020

Project: Noble - Ley 7-9

Project Number: [none]
Project Manager: Paul Henehan

Reported:
05/05/17 10:23

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