



#### LEGEND

	FENCE LINE
	CONTAINMENT WALL
	ABOVE GROUND STORAGE TANK
	FORMER FACILITY

Figure 1  
SITE MAP

**Noble Winter 39-19**  
Facility ID - 326733  
SE SE Section 19, T6N, R64W  
Weld County, Colorado

API No.  
**05-123-31764**

Prepared by

Drawn by  
**JMA**

Date  
**5/7/17**

Reviewed by

Filename  
**V132A**



# Summit Scientific

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741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

May 09, 2017

Paul Henehan  
Fremont Environmental  
1759 Redwing Lane  
Broomfield, CO 80020  
RE: Noble - Winter 39-19

Enclosed are the results of analyses for samples received by Summit Scientific on 05/02/17 17:15. 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 - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Wall 6'	1705029-01	Soil	05/02/17 00:00	05/02/17 17:15
Floor 7'	1705029-02	Soil	05/02/17 00:00	05/02/17 17:15

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 - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
05/09/17 14:36

# Summit Scientific

S<sub>2</sub>

1705029

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

Page 1 of 1

Client: Fremont Environmental

(Noble)

Project Manager: Paul Henehan

Address: P.O. Box 1289

E-Mail: paulh@fremontenv.com

City/State/Zip: PO Box 1829 Wellington, CO 80549

Phone: 303-956-8714

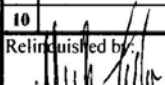

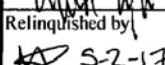
Fax:

Project Name: Noble-Winter 39-19

Sampler Name: Mark T

Project Number:

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix			Analysis Requested							Special Instructions
					HCl	HNO <sub>3</sub>	None	Other (Specify)	Groundwater	Soil	Air-Canister #	Other (Specify)	BTEX	GRO/DRO	Naphthalene	SAR	EC	Ph	
1	north wall 6'	5/2/17		1			✓			✓			✓	✓	✓	✓	✓		
2	Floor 7'	"		1			✓			✓			✓	✓	✓	✓	✓		
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished by: 	Date/Time: 5/2/17 17:15	Received by: 	Date/Time: 5-2-17 17:15	<b>Turn Around Time</b> (Check) Same Day — 24 hours — 48 hours — 72 hours — <b>Standard</b> <b>Sample Integrity:</b> Temperature Upon Receipt: 21.9 Intact: Yes No	<b>Notes:</b> on 10
Relinquished by: 	Date/Time: 5-2-17 18:00	Received by:	Date/Time:		
Relinquished by:	Date/Time:	Received by:	Date/Time:		

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
05/09/17 14:36

### Sample Receipt Checklist

S2 Work Order: 1705029

Client: Fremont

Client Project ID: Noble-Writner 39-19

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

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

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

Cooler ID				
Temp (°C)	<u>21.9</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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>on 19</u>
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 <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
If custody seals are present, are they intact <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace present? <b>If yes, contact client and note in narrative.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Note the type of preservative in the Comments column – HCl, H <sub>2</sub> SO <sub>4</sub> , NaOH, HNO <sub>3</sub> , ect				
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Record the pH in Comments.				
If dissolved metals are requested, were samples field filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Muril P.  
Custodian Printed Name

MS 5-2-A  
Signature or Initials of Custodian

17:25  
Date/Time



Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**North Wall 6'**  
**1705029-01 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1705040	05/03/17	05/03/17	8015M	

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		103 %	30-150		"	"	"	"	

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

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1705041	"	05/03/17	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: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		105 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		96.4 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	21-167		"	"	"	"	

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

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	433	11.0	mg/kg dry	1	1705069	05/08/17	05/08/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**North Wall 6'**  
**1705029-01 (Soil)**

**Summit Scientific**

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

<b>Magnesium</b>	<b>209</b>	5.48	mg/kg dry	1	1705069	05/08/17	05/08/17	EPA 6020/Mod. USDA60 6(2, 3A)
<b>Sodium</b>	<b>13.5</b>	5.48	"	"	"	"	"	"
<b>Sodium Adsorption Ratio</b>	<b>0.133</b>		units	"	1705095	05/09/17	05/09/17	"

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

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>pH</b>	<b>8.60</b>	0.100	pH Units	1	1705018	05/02/17	05/02/17	EPA 9045	
<b>Specific Conductance (EC)</b>	<b>0.293</b>	0.0100	mmhos/cm	"	1705019	05/02/17	05/02/17	SM 2510B	
<b>% Solids</b>	<b>91.3</b>		%	"	1705074	05/08/17	05/09/17	% calculation	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**Floor 7'**  
**1705029-02 (Soil)**

**Summit Scientific**

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1705040	05/03/17	05/03/17	8015M	

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		98.0 %	30-150		"	"	"	"	

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

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1705041	"	05/03/17	EPA 8260B	
<b>Benzene</b>	<b>0.0056</b>	0.0020	"	"	"	"	"	"	
<b>Toluene</b>	<b>0.014</b>	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>0.015</b>	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **05/02/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		112 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**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 1705040 - EPA 3550A**

**Blank (1705040-BLK1)**

Prepared & Analyzed: 05/03/17

C10-C28 (DRO) ND 50 mg/kg

Surrogate: o-Terphenyl 12.7 " 12.5 101 30-150

**LCS (1705040-BS1)**

Prepared & Analyzed: 05/03/17

C10-C28 (DRO) 594 50 mg/kg 499 119 73-134

Surrogate: o-Terphenyl 12.8 " 12.5 102 30-150

**Matrix Spike (1705040-MS1)**

Source: 1705029-01

Prepared & Analyzed: 05/03/17

C10-C28 (DRO) 563 50 mg/kg 499 42.2 104 50-148

Surrogate: o-Terphenyl 12.7 " 12.5 102 30-150

**Matrix Spike Dup (1705040-MSD1)**

Source: 1705029-01

Prepared & Analyzed: 05/03/17

C10-C28 (DRO) 531 50 mg/kg 499 42.2 98.0 50-148 5.92 20

Surrogate: o-Terphenyl 12.4 " 12.5 99.2 30-150

Summit Scientific

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

Reported:  
05/09/17 14:36

**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 1705041 - EPA 5030 Soil MS**

**Blank (1705041-BLK1)**

Prepared & Analyzed: 05/03/17

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>0.0434</i>		<i>"</i>	<i>0.0400</i>		<i>109</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0397</i>		<i>"</i>	<i>0.0400</i>		<i>99.2</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0402</i>		<i>"</i>	<i>0.0400</i>		<i>101</i>	<i>21-167</i>			

**LCS (1705041-BS1)**

Prepared & Analyzed: 05/03/17

Naphthalene	0.00585	0.010	mg/kg				66-138			
Benzene	0.0869	0.0020	"	0.100		86.9	58-130			
Toluene	0.0993	0.0050	"	0.100		99.3	61-134			
Ethylbenzene	0.116	0.0050	"	0.0992		117	74-139			
m,p-Xylene	0.212	0.010	"	0.200		106	73-137			
o-Xylene	0.107	0.0050	"	0.0980		109	73-141			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0392</i>		<i>"</i>	<i>0.0400</i>		<i>98.1</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0398</i>		<i>"</i>	<i>0.0400</i>		<i>99.4</i>	<i>21-167</i>			

**Matrix Spike (1705041-MS1)**

Source: 1705029-01

Prepared & Analyzed: 05/03/17

Naphthalene	0.00603	0.010	mg/kg		0.00597		10-158			
Benzene	0.0906	0.0020	"	0.100	ND	90.6	30-131			
Toluene	0.104	0.0050	"	0.100	ND	104	30-134			
Ethylbenzene	0.114	0.0050	"	0.0992	ND	115	22-153			
m,p-Xylene	0.211	0.010	"	0.200	ND	106	10-159			
o-Xylene	0.106	0.0050	"	0.0980	ND	108	31-151			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0430</i>		<i>"</i>	<i>0.0400</i>		<i>107</i>	<i>23-173</i>			
<i>Surrogate: Toluene-d8</i>	<i>0.0408</i>		<i>"</i>	<i>0.0400</i>		<i>102</i>	<i>20-170</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0400</i>		<i>"</i>	<i>0.0400</i>		<i>100</i>	<i>21-167</i>			

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**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 1705041 - EPA 5030 Soil MS**

Matrix Spike Dup (1705041-MSD1)		Source: 1705029-01			Prepared & Analyzed: 05/03/17					
Naphthalene	0.00603	0.010	mg/kg		0.00597		10-158	0.00	42	
Benzene	0.0889	0.0020	"	0.100	ND	88.9	30-131	1.94	34	
Toluene	0.102	0.0050	"	0.100	ND	102	30-134	1.69	30	
Ethylbenzene	0.114	0.0050	"	0.0992	ND	115	22-153	0.0788	24	
m,p-Xylene	0.211	0.010	"	0.200	ND	106	10-159	0.270	68	
o-Xylene	0.106	0.0050	"	0.0980	ND	109	31-151	0.254	38	
Surrogate: 1,2-Dichloroethane-d4	0.0414		"	0.0400		104	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0406		"	0.0400		101	21-167			

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**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 1705069 - General Preparation**

**Blank (1705069-BLK1)**

Prepared & Analyzed: 05/08/17

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

**LCS (1705069-BS1)**

Prepared & Analyzed: 05/08/17

Calcium	478	10.0	mg/kg wet	500	95.7	82.9-118
Magnesium	463	5.00	"	500	92.7	77.1-123
Sodium	462	5.00	"	500	92.4	71-129

**Duplicate (1705069-DUP1)**

Source: 1705015-01

Prepared & Analyzed: 05/08/17

Calcium	2360	11.0	mg/kg dry	2560	7.97	200
Magnesium	412	5.50	"	431	4.65	200
Sodium	148	5.50	"	159	6.79	200

**Matrix Spike (1705069-MS1)**

Source: 1705015-01

Prepared & Analyzed: 05/08/17

Calcium	3020	11.0	mg/kg dry	550	2560	84.7	75-125
Magnesium	853	5.50	"	550	431	76.6	75-125
Sodium	619	5.50	"	550	159	83.8	75-125

**Matrix Spike Dup (1705069-MSD1)**

Source: 1705015-01

Prepared & Analyzed: 05/08/17

Calcium	3070	11.0	mg/kg dry	550	2560	92.6	75-125	1.44	25
Magnesium	864	5.50	"	550	431	78.7	75-125	1.37	25
Sodium	636	5.50	"	550	159	86.8	75-125	2.63	25

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Fremont Environmental  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

**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 1705018 - General Preparation**

**LCS (1705018-BS1)**

Prepared & Analyzed: 05/02/17

pH	8.03	0.100	pH Units	8.00	100	95-105
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**Duplicate (1705018-DUP1)**

**Source: 1704294-01**

Prepared & Analyzed: 05/02/17

pH	8.18	0.100	pH Units	8.12	0.736	20
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**Batch 1705019 - General Preparation**

**Blank (1705019-BLK1)**

Prepared & Analyzed: 05/02/17

Specific Conductance (EC)	ND	0.0100	mmhos/cm
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**LCS (1705019-BS1)**

Prepared & Analyzed: 05/02/17

Specific Conductance (EC)	0.750	0.0100	mmhos/cm	0.750	100	90-110
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**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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**Batch 1705074 - General Preparation**

**Duplicate (1705074-DUP1)**

**Source: 1705015-01**

Prepared: 05/08/17 Analyzed: 05/09/17

% Solids	91.3		%	90.9	0.439	20
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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  
1759 Redwing Lane  
Broomfield CO, 80020

Project: Noble - Winter 39-19

Project Number: [none]  
Project Manager: Paul Henehan

**Reported:**  
05/09/17 14:36

### 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