



LEGEND

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

**Figure 1
SITE MAP**

Noble Peanut 1
 Facility ID - 323003
 NW NW Section 6, T5N, R66W
 Weld County, Colorado

API No. 05-123-12419	Prepared by JMA	Drawn by JMA
Date 4/28/17	Reviewed by	Filename V118A



Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

April 25, 2017

Paul Henehan
Fremont Environmental
1759 Redwing Lane
Broomfield, CO 80020
RE: Noble - Peanut 1

Enclosed are the results of analyses for samples received by Summit Scientific on 04/18/17 16:50. 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 - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W. Wall 3 FT	1704192-01	Soil	04/18/17 00:00	04/18/17 16:50
Foor 6 FT	1704192-02	Soil	04/18/17 00:00	04/18/17 16:50

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

Sample Receipt Checklist

S2 Work Order: 1704192
 Client: Fremont Client Project ID: Noble - Peanut 1
 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)	7.4				

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"/>			on ice
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.				

Muri P.
Custodian Printed Name

PH 4-18-17
Signature or Initials of Custodian

13:50
Date/Time



Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

W. Wall 3 FT
1704192-01 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	340	50	mg/kg	1	1704210	04/20/17	04/21/17	8015M	

Date Sampled: **04/18/17 00:00**

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

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1704211	04/20/17	04/21/17	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: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %	23-173		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96.7 %	20-170		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		85.1 %	21-167		"	"	"	"	

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

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	2460	11.4	mg/kg dry	1	1704204	04/19/17	04/20/17	EPA 6020/Mod. USDA60 6(2, 3A)	

Summit Scientific

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

**W. Wall 3 FT
1704192-01 (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	Notes
Magnesium	258	5.68	mg/kg dry	1	1704204	04/19/17	04/20/17	EPA 6020/Mod. USDA60 6(2, 3A)	
Sodium	124	5.68	"	"	"	"	"	"	"
Sodium Adsorption Ratio	0.636		units	"	1704227	04/21/17	04/21/17	"	"

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
pH	8.86	0.100	pH Units	1	1704232	04/21/17	04/24/17	EPA 9045	
Specific Conductance (EC)	0.618	0.0100	mmhos/cm	"	1704233	04/21/17	04/24/17	SM 2510B	
% Solids	88.0		%	"	1704219	04/20/17	04/21/17	% calculation	

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1759 Redwing Lane
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Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

Foor 6 FT
1704192-02 (Soil)

Summit Scientific

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	490	50	mg/kg	1	1704210	04/20/17	04/21/17	8015M	

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: <i>o</i> -Terphenyl		112 %	30-150		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Naphthalene	ND	0.010	mg/kg	1	1704211	04/20/17	04/21/17	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: **04/18/17 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		102 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		97.9 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.1 %	21-167		"	"	"	"	

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

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 1704210 - EPA 3550A

Blank (1704210-BLK1)

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO)	ND	50	mg/kg							
<i>Surrogate: o-Terphenyl</i>	14.4		"	12.5		115	30-150			

LCS (1704210-BS1)

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO)	487	50	mg/kg	499		97.6	73-134			
<i>Surrogate: o-Terphenyl</i>	14.1		"	12.5		113	30-150			

Matrix Spike (1704210-MS1)

Source: 1704192-01

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO)	518	50	mg/kg	499	335	36.6	50-148			
<i>Surrogate: o-Terphenyl</i>	14.3		"	12.5		114	30-150			

Matrix Spike Dup (1704210-MSD1)

Source: 1704192-01

Prepared: 04/20/17 Analyzed: 04/21/17

C10-C28 (DRO)	530	50	mg/kg	499	335	39.0	50-148	2.36	20	
<i>Surrogate: o-Terphenyl</i>	14.0		"	12.5		112	30-150			

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1759 Redwing Lane
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Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

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 1704211 - EPA 5030 Soil MS

Blank (1704211-BLK1)

Prepared & Analyzed: 04/20/17

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>0.0380</i>		<i>"</i>	<i>0.0400</i>		<i>94.9</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0383</i>		<i>"</i>	<i>0.0400</i>		<i>95.8</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0347</i>		<i>"</i>	<i>0.0400</i>		<i>86.7</i>		<i>21-167</i>		

LCS (1704211-BS1)

Prepared & Analyzed: 04/20/17

Naphthalene	ND	0.010	mg/kg					66-138		
Benzene	0.0894	0.0020	"	0.100		89.4		58-130		
Toluene	0.0943	0.0050	"	0.100		94.3		61-134		
Ethylbenzene	0.0940	0.0050	"	0.0992		94.7		74-139		
m,p-Xylene	0.187	0.010	"	0.200		93.6		73-137		
o-Xylene	0.0917	0.0050	"	0.0980		93.6		73-141		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.7</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0373</i>		<i>"</i>	<i>0.0400</i>		<i>93.2</i>		<i>21-167</i>		

Matrix Spike (1704211-MS1)

Source: 1704191-01

Prepared & Analyzed: 04/20/17

Naphthalene	ND	0.010	mg/kg		ND			10-158		
Benzene	0.0937	0.0020	"	0.100	ND	93.7		30-131		
Toluene	0.0993	0.0050	"	0.100	ND	99.3		30-134		
Ethylbenzene	0.0980	0.0050	"	0.0992	ND	98.8		22-153		
m,p-Xylene	0.195	0.010	"	0.200	ND	97.6		10-159		
o-Xylene	0.0958	0.0050	"	0.0980	ND	97.7		31-151		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0375</i>		<i>"</i>	<i>0.0400</i>		<i>93.8</i>		<i>23-173</i>		
<i>Surrogate: Toluene-d8</i>	<i>0.0391</i>		<i>"</i>	<i>0.0400</i>		<i>97.8</i>		<i>20-170</i>		
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.0369</i>		<i>"</i>	<i>0.0400</i>		<i>92.2</i>		<i>21-167</i>		

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

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 1704211 - EPA 5030 Soil MS

Matrix Spike Dup (1704211-MSD1)	Source: 1704191-01			Prepared & Analyzed: 04/20/17						
Naphthalene	ND	0.010	mg/kg	ND	ND	10-158			42	
Benzene	0.0892	0.0020	"	0.100	ND	89.2	30-131	4.95	34	
Toluene	0.0944	0.0050	"	0.100	ND	94.4	30-134	5.08	30	
Ethylbenzene	0.0904	0.0050	"	0.0992	ND	91.1	22-153	8.12	24	
m,p-Xylene	0.180	0.010	"	0.200	ND	90.0	10-159	8.09	68	
o-Xylene	0.0890	0.0050	"	0.0980	ND	90.8	31-151	7.37	38	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>0.0387</i>		<i>"</i>	<i>0.0400</i>		<i>96.8</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>0.0372</i>		<i>"</i>	<i>0.0400</i>		<i>93.1</i>	<i>21-167</i>			

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1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

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 1704204 - General Preparation

Blank (1704204-BLK1)

Prepared: 04/19/17 Analyzed: 04/20/17

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

LCS (1704204-BS1)

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	530	10.0	mg/kg wet	500	106	82.9-118				
Magnesium	504	5.00	"	500	101	77.1-123				
Sodium	519	5.00	"	500	104	71-129				

Duplicate (1704204-DUP1)

Source: 1704174-01

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	221	10.3	mg/kg dry	221			0.239	200		
Magnesium	72.6	5.13	"	66.8			8.30	200		
Sodium	23.9	5.13	"	25.3			5.75	200		

Matrix Spike (1704204-MS1)

Source: 1704174-01

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	723	10.3	mg/kg dry	513	221	97.9	75-125			
Magnesium	574	5.13	"	513	66.8	98.8	75-125			
Sodium	543	5.13	"	513	25.3	101	75-125			

Matrix Spike Dup (1704204-MSD1)

Source: 1704174-01

Prepared: 04/19/17 Analyzed: 04/20/17

Calcium	759	10.3	mg/kg dry	513	221	105	75-125	4.74	25	
Magnesium	568	5.13	"	513	66.8	97.6	75-125	1.04	25	
Sodium	551	5.13	"	513	25.3	102	75-125	1.45	25	

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Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
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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 1704219 - General Preparation

Duplicate (1704219-DUP1)	Source: 1704192-01			Prepared: 04/20/17	Analyzed: 04/21/17					
% Solids	87.6		%		88.0			0.456	20	

Batch 1704232 - General Preparation

LCS (1704232-BS1)				Prepared: 04/21/17	Analyzed: 04/24/17					
pH	8.00	0.100	pH Units	8.00		100	95-105			
Duplicate (1704232-DUP1)	Source: 1704192-01			Prepared: 04/21/17	Analyzed: 04/24/17					
pH	8.84	0.100	pH Units		8.86			0.226	20	

Batch 1704233 - General Preparation

Blank (1704233-BLK1)				Prepared: 04/21/17	Analyzed: 04/24/17					
Specific Conductance (EC)	ND	0.0100	mmhos/cm							
LCS (1704233-BS1)				Prepared: 04/21/17	Analyzed: 04/24/17					
Specific Conductance (EC)	0.753	0.0100	mmhos/cm	0.750		100	90-110			
Duplicate (1704233-DUP1)	Source: 1704192-01			Prepared: 04/21/17	Analyzed: 04/24/17					
Specific Conductance (EC)	0.617	0.0100	mmhos/cm		0.618			0.162	20	

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Fremont Environmental
1759 Redwing Lane
Broomfield CO, 80020

Project: Noble - Peanut 1

Project Number: [none]
Project Manager: Paul Henehan

Reported:
04/25/17 13:59

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