



#### LEGEND

	GROUND WATER SAMPLE	12/3/18	DATE SAMPLED
	SOIL SAMPLE LOCATION	Floor@5'	LOCATION and DEPTH (ft)
	ABOVE GROUND STORAGE TANK	B	BENZENE (mg/kg)
	FORMER FACILITY	T	TOLUENE (mg/kg)
	FENCE LINE	E	ETHYLBENZENE (mg/kg)
	CONTAINMENT BERM	X	TOTAL XYLENES (mg/kg)
	CONTAINMENT WALL	N	NAPHTHALENE (mg/kg)
		G	TPH-GRO (mg/kg)
		D	TPH-DRO (mg/kg)
		EC	EC mmhos/cm
		pH	pH Units
		SAR	SAR Units
		NA	NOT ANALYZED

Figure 1

#### SITE PLAN

**Noble Bashor PC AA 17-18, 02D (North & South Vaults)**

NENW Sec 27, T6N, R63W ~ 40.49076, -104.46066

NENW Sec 27, T6N, R63W ~ 40.49065, -104.46071

Facility ID: 419804

Weld County, Colorado

API No.  
**05-123-32358**  
**05-123-32359**

Date  
**1/18/19**

Prepared by

Reviewed by  
**EB**

Drawn by

Filename  
**V362A**

**TDA**



# Summit Scientific

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4653 Table Mountain Drive, Golden, Colorado 80403

303.277.9310

December 10, 2018

Paul Henehan

Fremont Environmental

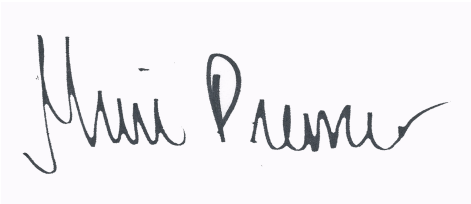
PO Box 1289

Wellington, CO 80549

RE: Noble - Bashor PC AA 17-2D,18

Enclosed are the results of analyses for samples received by Summit Scientific on 12/03/18 16:32. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Muri Premer", is displayed on a light purple rectangular background.

Muri Premer For Ben Shrewsbury

Laboratory Manager



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Pit W Wall 4ft	1812016-01	Soil	12/03/18 00:00	12/03/18 16:32
South Pit W Wall 4ft	1812016-02	Soil	12/03/18 00:00	12/03/18 16:32
North Pit Floor 5ft	1812016-03	Soil	12/03/18 00:00	12/03/18 16:32
South Pit W1	1812016-04	Water	12/03/18 00:00	12/03/18 16:32

Summit Scientific

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# Summit Scientific

S<sub>2</sub>

18/2016

4653 Table Mountain Drive ♦ Golden, Colorado 80403  
303-277-9310 ♦ 303-374-5933 (f)

Page 1 of 1

Client: Fremont Environmental

Project Manager: Paul Henehan

Address: P.O Box 1289

E-Mail: paulh@fremontenv.com, ethanb@fremontenv.com

City/State/Zip: Wellington, CO 80549

Bill to: Howard

Phone: 303-956-8714

Project Name: Bashor PC AA 17-2D, 18

Sampler Name: Black

Project Number: C018-200

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions
					HCl	HNO <sub>3</sub>	None	Other	Water	Soil	Air-Canister #	Other	BTEX	Naphthalene	GRO	DRO	SAR	EC	pH	
1	NORTH PIT W WALL 4FT	12/3/18		1				X		X			X	X	X	X	X	X		
2	SOUTH PIT W WALL 4FT			1									X	X	X	X	X	X		
3	NORTH PIT FLOOR 5FT			1									X	X	X	X	X	X		
4	SOUTH PIT W 1			1					X				X	X	X	X	X	X		
5																				
6																				
7																				
8																				
9																				
10																				

Relinquished by: Ethan Black	Date/Time: 12/3/18 1632	Received by: [Signature]	Date/Time: 12-3-18 16:32	Turn Around Time (Check) Same Day _____ 72 hours 24 hours _____ Standard <input checked="" type="checkbox"/> 48 hours _____	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 9.1 Samples Intact: <input checked="" type="radio"/> Yes <input type="radio"/> No	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

# Sample Receipt Checklist

S2 Work Order 1812016

Client: FREMONT/NOBLE Client Project ID: NOBLE-BASHOR PCAA 17-20,18

Shipped Via: H.D./P.U./FedEx/UPS/USPS/Other Airbill #: \_\_\_\_\_

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

Temp (°C)	<u>9.1</u>
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Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C <sup>(1)</sup> ? NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.	<u>X</u>			
Were all samples received intact <sup>(1)</sup> ?	<u>X</u>			
Was adequate sample volume provided <sup>(1)</sup> ?	<u>X</u>			
If custody seals are present, are they intact <sup>(1)</sup> ?			<u>X</u>	
Are samples with holding times due within 48 hours sample due within 48 hours present?			<u>X</u>	
Is a chain-of-custody (COC) form present and filled out completely <sup>(1)</sup> ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received <sup>(1)</sup> ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC <sup>(1)</sup> ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded <sup>(1)</sup> ?	<u>X</u>			
For volatiles in water – is there headspace present? If yes, contact client and note in narrative.		<u>X</u>		
Are samples preserved that require preservation (excluding cooling) <sup>(1)</sup> ? Note the type of preservative in the Comments column – HCl, H2SO4, NaOH, HNO3, ect			<u>X</u>	
If samples are acid preserved for metals, is the pH ≤ 2 <sup>(1)</sup> ? Record the pH in Comments.			<u>X</u>	
If dissolved metals are requested, were samples field filtered?			<u>X</u>	
Additional Comments (if any):   				
<sup>(1)</sup> If NO, then contact the client before proceeding with analysis and note in case narrative.				

Muri  
Custodian Printed Name or Initials

12-3-18  
Signature of Custodian

16:50  
Date/Time



Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**North Pit W Wall 4ft  
1812016-01 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Benzene	ND	0.0020	mg/kg	1	1812021	12/04/18	12/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Surrogate: 1,2-Dichloroethane-d4		86.0 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
C10-C28 (DRO)	ND	50	mg/kg	1	1812022	12/04/18	12/05/18	EPA 8015M	

Date Sampled: **12/03/18 00:00**

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

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Calcium	1960	11.0	mg/kg dry	1	1812050	12/05/18	12/06/18	EPA 6020B	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**North Pit W Wall 4ft  
1812016-01 (Soil)**

**Summit Scientific**

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

Magnesium	383	5.48	mg/kg dry	1	1812050	12/05/18	12/06/18	EPA 6020B
Sodium	166	5.48	"	"	"	"	"	"

**Calculated Analysis**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.898	0.100	units	1	1812073	12/06/18	12/07/18	Calculation	

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.2		%	1	1812038	12/05/18	12/05/18	Calculation	
pH	8.30		pH Units	"	1812042	12/05/18	12/05/18	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.23	0.0100	mmhos/cm	1	1812041	12/05/18	12/05/18	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**South Pit W Wall 4ft  
1812016-02 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1812021	12/04/18	12/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		81.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		101 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1812022	12/04/18	12/05/18	EPA 8015M	

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		113 %	30-150		"	"	"	"	

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	1000	10.9	mg/kg dry	1	1812050	12/05/18	12/06/18	EPA 6020B	
Magnesium	344	5.46	"	"	"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**South Pit W Wall 4ft  
1812016-02 (Soil)**

**Summit Scientific**

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

Sodium	498	5.46	mg/kg dry	1	1812050	12/05/18	12/06/18	EPA 6020B
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**Calculated Analysis**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	3.46	0.100	units	1	1812073	12/06/18	12/07/18	Calculation	

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	91.6		%	1	1812038	12/05/18	12/05/18	Calculation	
pH	8.30		pH Units	"	1812042	12/05/18	12/05/18	EPA 9045D	

**Specific Conductance by EPA Method 120.1**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	1.39	0.0100	mmhos/cm	1	1812041	12/05/18	12/05/18	EPA 120.1	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**North Pit Floor 5ft  
1812016-03 (Soil)**

**Summit Scientific**

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	0.0020	mg/kg	1	1812021	12/04/18	12/05/18	EPA 8260B	
Toluene	ND	0.0050	"	"	"	"	"	"	
Ethylbenzene	ND	0.0050	"	"	"	"	"	"	
Xylenes (total)	ND	0.010	"	"	"	"	"	"	
Naphthalene	ND	0.010	"	"	"	"	"	"	
Gasoline Range Hydrocarbons	ND	50	"	"	"	"	"	"	

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		87.9 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		103 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.4 %	21-167		"	"	"	"	

**Extractable Petroleum Hydrocarbons by 8015**

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
C10-C28 (DRO)	ND	50	mg/kg	1	1812022	12/04/18	12/05/18	EPA 8015M	

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: o-Terphenyl		105 %	30-150		"	"	"	"	

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**South Pit W1**  
**1812016-04 (Water)**

**Summit Scientific**

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

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Benzene	ND	1.0	ug/l	1	1812024	12/05/18	12/05/18	EPA 8260B	
Toluene	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Xylenes (total)	ND	2.0	"	"	"	"	"	"	

Date Sampled: **12/03/18 00:00**

Analyte	Result	Reporting	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit							
Surrogate: 1,2-Dichloroethane-d4		99.8 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		94.7 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

## 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 1812021 - EPA 5030 Soil MS

##### Blank (1812021-BLK1)

Prepared & Analyzed: 12/04/18

Benzene	ND	0.0020	mg/kg							
Toluene	ND	0.0050	"							
Ethylbenzene	ND	0.0050	"							
Xylenes (total)	ND	0.010	"							
Naphthalene	ND	0.010	"							
Gasoline Range Hydrocarbons	ND	50	"							
Surrogate: 1,2-Dichloroethane-d4	0.0339		"	0.0396		85.5	23-173			
Surrogate: Toluene-d8	0.0395		"	0.0400		98.7	20-170			
Surrogate: 4-Bromofluorobenzene	0.0403		"	0.0400		101	21-167			

##### LCS (1812021-BS1)

Prepared & Analyzed: 12/04/18

Benzene	0.123	0.0020	mg/kg	0.100		123	70-130			
Toluene	0.124	0.0050	"	0.100		124	70-130			
Ethylbenzene	0.124	0.0050	"	0.100		124	70-130			
m,p-Xylene	0.247	0.010	"	0.200		123	70-130			
o-Xylene	0.120	0.0050	"	0.100		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0396		89.1	23-173			
Surrogate: Toluene-d8	0.0410		"	0.0400		103	20-170			
Surrogate: 4-Bromofluorobenzene	0.0388		"	0.0400		97.0	21-167			

##### Matrix Spike (1812021-MS1)

Source: 1812013-01

Prepared & Analyzed: 12/04/18

Benzene	0.0963	0.0020	mg/kg	0.100	ND	96.3	70-130			
Toluene	0.0968	0.0050	"	0.100	ND	96.8	70-130			
Ethylbenzene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
m,p-Xylene	0.190	0.010	"	0.200	0.00321	93.3	70-130			
o-Xylene	0.0929	0.0050	"	0.100	ND	92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0344		"	0.0396		87.0	23-173			
Surrogate: Toluene-d8	0.0406		"	0.0400		102	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		100	21-167			

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**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 1812021 - EPA 5030 Soil MS**

Matrix Spike Dup (1812021-MSD1)			Source: 1812013-01		Prepared & Analyzed: 12/04/18					
Benzene	0.0886	0.0020	mg/kg	0.100	ND	88.6	70-130	8.34	30	
Toluene	0.0875	0.0050	"	0.100	ND	87.5	70-130	10.2	30	
Ethylbenzene	0.0863	0.0050	"	0.100	ND	86.3	70-130	9.60	30	
m,p-Xylene	0.173	0.010	"	0.200	0.00321	84.9	70-130	9.24	30	
o-Xylene	0.0862	0.0050	"	0.100	ND	86.2	70-130	7.47	30	
Surrogate: 1,2-Dichloroethane-d4	0.0360		"	0.0396		90.8	23-173			
Surrogate: Toluene-d8	0.0400		"	0.0400		100	20-170			
Surrogate: 4-Bromofluorobenzene	0.0402		"	0.0400		101	21-167			

**Batch 1812024 - EPA 5030 Water MS**

Blank (1812024-BLK1)			Prepared & Analyzed: 12/05/18							
Benzene	ND	1.0	ug/l							
Toluene	ND	1.0	"							
Ethylbenzene	ND	1.0	"							
Xylenes (total)	ND	2.0	"							
Surrogate: 1,2-Dichloroethane-d4	13.4		"	13.2		102	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	20-170			
Surrogate: 4-Bromofluorobenzene	12.6		"	13.3		94.6	21-167			

LCS (1812024-BS1)			Prepared & Analyzed: 12/05/18							
Benzene	27.7	1.0	ug/l	33.3		83.2	70-130			
Toluene	27.8	1.0	"	33.3		83.5	70-130			
Ethylbenzene	28.0	1.0	"	33.3		83.9	70-130			
m,p-Xylene	55.6	2.0	"	66.7		83.4	70-130			
o-Xylene	27.6	1.0	"	33.3		82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	12.8		"	13.2		97.0	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		98.7	20-170			
Surrogate: 4-Bromofluorobenzene	13.4		"	13.3		100	21-167			

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**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 1812024 - EPA 5030 Water MS**

Matrix Spike (1812024-MS1)		Source: 1812008-01			Prepared & Analyzed: 12/05/18					
Benzene	30.0	1.0	ug/l	33.3	ND	89.9	70-130			
Toluene	29.8	1.0	"	33.3	ND	89.5	70-130			
Ethylbenzene	30.1	1.0	"	33.3	ND	90.2	70-130			
m,p-Xylene	58.5	2.0	"	66.7	1.17	86.0	70-130			
o-Xylene	29.9	1.0	"	33.3	ND	89.8	70-130			
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	13.0		"	13.2		98.4	23-173			
Surrogate: Toluene-d8	13.2		"	13.3		99.1	20-170			
Surrogate: 4-Bromofluorobenzene	13.1		"	13.3		98.4	21-167			
<hr/>										
Matrix Spike Dup (1812024-MSD1)		Source: 1812008-01			Prepared & Analyzed: 12/05/18					
Benzene	30.4	1.0	ug/l	33.3	ND	91.3	70-130	1.59	30	
Toluene	30.2	1.0	"	33.3	ND	90.5	70-130	1.03	30	
Ethylbenzene	31.3	1.0	"	33.3	ND	93.9	70-130	4.01	30	
m,p-Xylene	60.4	2.0	"	66.7	1.17	88.9	70-130	3.26	30	
o-Xylene	30.6	1.0	"	33.3	ND	91.7	70-130	2.12	30	
<hr/>										
Surrogate: 1,2-Dichloroethane-d4	13.2		"	13.2		100	23-173			
Surrogate: Toluene-d8	12.9		"	13.3		97.1	20-170			
Surrogate: 4-Bromofluorobenzene	13.5		"	13.3		101	21-167			

Summit Scientific

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Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

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

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

**Batch 1812022 - EPA 3550A**

**Blank (1812022-BLK1)**

Prepared: 12/04/18 Analyzed: 12/05/18

C10-C28 (DRO) ND 50 mg/kg

**LCS (1812022-BS1)**

Prepared: 12/04/18 Analyzed: 12/05/18

C10-C28 (DRO) 597 50 mg/kg 500 119 70-130

**Matrix Spike (1812022-MS1)**

**Source: 1812014-01**

Prepared: 12/04/18 Analyzed: 12/05/18

C10-C28 (DRO) 559 50 mg/kg 500 29.6 106 70-130

**Matrix Spike Dup (1812022-MSD1)**

**Source: 1812014-01**

Prepared: 12/04/18 Analyzed: 12/05/18

C10-C28 (DRO) 580 50 mg/kg 500 29.6 110 70-130 3.59 20

Summit Scientific

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Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

## Soluble Nutrients by EPA 6020/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 1812050 - General Preparation

##### Blank (1812050-BLK1)

Prepared: 12/05/18 Analyzed: 12/06/18

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

##### LCS (1812050-BS1)

Prepared: 12/05/18 Analyzed: 12/06/18

Calcium	537	10.0	mg/kg wet	500	107	70-130
Magnesium	620	5.00	"	500	124	70-130
Sodium	633	5.00	"	500	127	70-130

##### Duplicate (1812050-DUP1)

Source: 1811214-01

Prepared: 12/05/18 Analyzed: 12/06/18

Calcium	171	10.8	mg/kg dry	178	3.72	20
Magnesium	76.9	5.40	"	75.2	2.19	20
Sodium	62.4	5.40	"	61.1	2.10	20

##### Matrix Spike (1812050-MS1)

Source: 1811214-01

Prepared: 12/05/18 Analyzed: 12/06/18

Calcium	809	10.8	mg/kg dry	540	178	117	70-130
Magnesium	766	5.40	"	540	75.2	128	70-130
Sodium	724	5.40	"	540	61.1	123	70-130

##### Matrix Spike Dup (1812050-MSD1)

Source: 1811214-01

Prepared: 12/05/18 Analyzed: 12/06/18

Calcium	768	10.8	mg/kg dry	540	178	109	70-130	5.22	25
Magnesium	748	5.40	"	540	75.2	124	70-130	2.37	25
Sodium	719	5.40	"	540	61.1	122	70-130	0.720	25

Summit Scientific

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Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**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 1812038 - General Preparation**

<b>Duplicate (1812038-DUP1)</b>		<b>Source: 1811214-01</b>			Prepared & Analyzed: 12/05/18					
% Solids	92.7		%		92.5			0.231	20	

**Batch 1812042 - General Preparation**

<b>LCS (1812042-BS1)</b>		Prepared & Analyzed: 12/05/18								
pH	9.3		pH Units	9.18		101	95-105			
<b>Duplicate (1812042-DUP1)</b>		<b>Source: 1811214-01</b>			Prepared & Analyzed: 12/05/18					
pH	7.9		pH Units		7.9			0.00	20	

Summit Scientific

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Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

**Specific Conductance by EPA Method 120.1 - Quality Control**  
**Summit Scientific**

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

**Batch 1812041 - General Preparation**

**Blank (1812041-BLK1)**

Prepared & Analyzed: 12/05/18

Specific Conductance (EC) ND 0.0100 mmhos/cm

**LCS (1812041-BS1)**

Prepared & Analyzed: 12/05/18

Specific Conductance (EC) 0.747 0.0100 mmhos/cm 0.750 99.5 90-110

**Duplicate (1812041-DUP1)**

**Source: 1811214-01**

Prepared & Analyzed: 12/05/18

Specific Conductance (EC) 0.0876 0.0100 mmhos/cm 0.0942 7.26 20

Summit Scientific

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Fremont Environmental  
PO Box 1289  
Wellington CO, 80549

Project: Noble - Bashor PC AA 17-2D,18

Project Number: CO18-200  
Project Manager: Paul Henehan

**Reported:**  
12/10/18 09:43

### 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