



July 13, 2018

Mr. Jacob Evans
Sr. EHS Specialist
2115 117th Avenue
Greeley, CO 80634

**Subject: Water Vault Removal
70 RANCH USX BB09-05,11
40.415216, -104.447201
SE¼ SE¼ T5N-R63W-S9 L04
Weld County, Colorado
Facility ID 415690862**

Dear Mr. Evans,

This letter is being provided by URS to present the results from the water vault removal at the Noble - 70 Ranch USX BB 9-5, 11 site (site).

On June 19th, 2018, URS collected soil samples following the removal of the water vault at the site. A soil sample was collected from each of the four sidewalls and the floor for field screening. The sidewall soil sample with the highest photoionization detector (PID) reading (70RanchUSX-West Wall-062818) and the floor soil sample (70RanchUSX-Floor-062818) were submitted for laboratory analysis. The sampling was performed in accordance with Noble guidance document Closure of Buried or Partially Buried Produced Water Vessels as per Colorado Oil and Gas Conservation Commission (COGCC) Rule 905.b.(1-4).

Based on laboratory analytical results, neither soil samples exceeded the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 concentration limits for benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, or total petroleum hydrocarbons

URS Corporation

6200 S. Quebec Street

Greenwood Village, CO 80111

Tel: 303.694.2770

Fax: 303.694.3946



(TPH). The additional analysis of the sidewall sample for specific conductance, pH, and sodium adsorption ratio (SAR) also did not exceed COGCC Table 910-1 concentration limits.

If you have any questions or require further information, please contact Jim Litz at (303) 228-3066.

Sincerely,

URS Corporation

A handwritten signature in blue ink, appearing to read "James Ford".

James Ford
Project Geologist

A handwritten signature in blue ink, appearing to read "James Litz".

James Litz, P.E.
Project Manager

Attachments: **Figures**

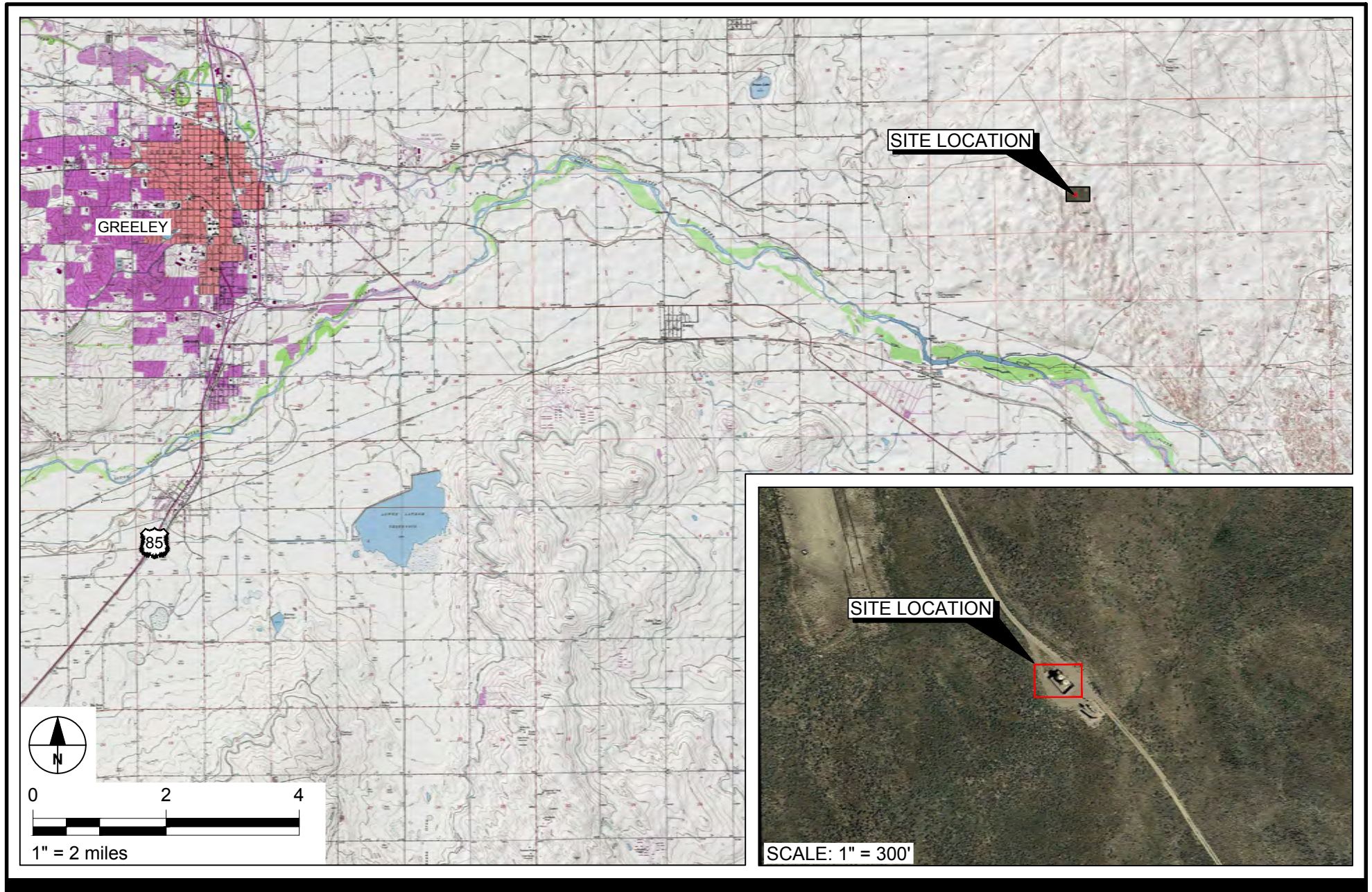
Figure 1 - Site Vicinity Map

Figure 2 – Soil Analytical Results

Laboratory Analytical Report



Figures



70 RANCH USX BB09-05,11
40.415216, -104.447201
SE¼ SE¼ T5N-R63W-S9 L04
Weld County, Colorado Date: 07/11/18

SITE □ ICINITY MA □

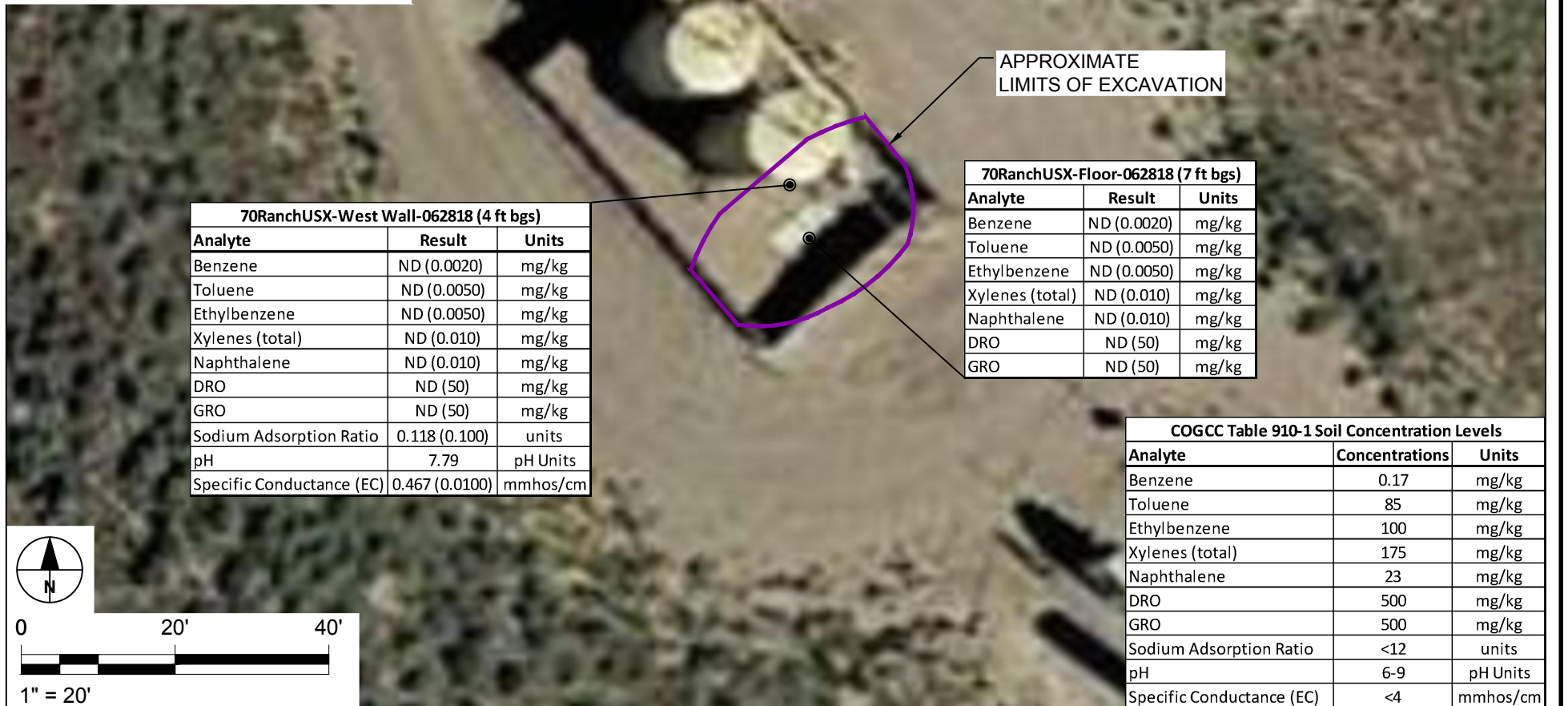
AECOM

Figure: 1

Note:
 ft bgs = feet below ground surface
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 mg/kg = milligrams/kilogram
 ND (50) = Non-Detect (Detection Limit)

LEGEND

● SAMPLE LOCATIONS



70 RANCH USX BB09-05,11
40.415216, -104.447201
 SE¼ SE¼ T5N-R63W-S9 L04
 Weld County, Colorado Date: 07/11/18
 Facility ID 415690862

SOIL ANALYTICAL RESULTS

AECOM

Figure: 2



Laboratory Analytical Report

Summit Scientific

741 Corporate Circle – Suite I ♦ Golden, Colorado 80401

303.277.9310 - laboratory ♦ 303.277.9531 - fax

July 03, 2018

Jim Litz

AECOM

1601 Prospect Parkway

Ft. Collins, CO 80525

RE: Noble - 70 Ranch USX BB 9-5, 11

Enclosed are the results of analyses for samples received by Summit Scientific on 06/28/18 15:50. 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 For Ben Shrewsbury
Laboratory Manager



AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
70RanchUSX-Floor-062818	1806360-01	Soil	06/28/18 10:15	06/28/18 15:50
70RanchUSX-West Wall-062818	1806360-02	Soil	06/28/18 10:20	06/28/18 15:50

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.

Summit Scientific

S₂

1806360

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

Page 1 of 1

Client: AECOM/Noble Energy

Project Manager: Jim Litz

Address: 6200 S. Quebec St.

E-Mail: jim.litz@aecom.com

City/State/Zip: Greenwood Village, CO 80111

Phone: 303.228.3066

Project Name: 70 Ranch USX BB 9-5, 11

Sampler Name: James Ford

Project Number: RC# 815892664 Account code: 247839 Release # 1023

ID	Sample Description	Date Sampled	Time Sampled	# of containers	Preservative				Matrix				Analysis Requested							Special Instructions	
					HCl	HNO3	None	Other	Water	Soil	Air-Canister #	Other	BTEX	TPH-GLO	TPH-DRO	Naphthalene	SAR	pH	EC		
1	70RANCHUSX - FLOOR-062818	6-28-18	1015	1			X			X				X	X	X	X				
2	70RANCHUSX - WESTWALL-062818	6-28-18	1020	1			X			X				X	X	X	X	X	X		
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

James Ford 6-28-18

Relinquished by: <i>James Ford</i>	Date/Time: 6-28-18/15:50	Received by: <i>[Signature]</i>	Date/Time: 6-28-18 15:50	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"/>	Notes:
Relinquished by:	Date/Time:	Received by:	Date/Time:	Sample Integrity: Temperature Upon Receipt: 9.4 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: 1806360Client: AECOM / NobleClient Project ID: 70 Ranch USX BB 9-5, 11Shipped Via: A.D. on ice
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Airbill #: _____

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

Temp (°C)	<u>9.4</u>
-----------	------------

Thermometer ID: 61857155-K

	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature at 4°C +/- 2°C ⁽¹⁾ ?	<u>X</u>			
NOTE: If samples are delivered the same day of sampling, this requirement is met provided that there is evidence that cooling has begun.				
Were all samples received intact ⁽¹⁾ ?	<u>X</u>			
Was adequate sample volume provided ⁽¹⁾ ?	<u>X</u>			
If custody seals are present, are they intact ⁽¹⁾ ?			<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 ⁽¹⁾ ?	<u>X</u>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<u>X</u>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<u>X</u>			
Is the COC properly relinquished by the client w/ date and time recorded ⁽¹⁾ ?	<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) ⁽¹⁾ ?				
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 ⁽¹⁾ ? Record the pH in Comments.			<u>X</u>	
If dissolved metals are requested, were samples field filtered?			<u>X</u>	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note in case narrative.Muri
Custodian Printed Name or InitialsLA 6-28-18
Signature or Initials of Custodian16:00
Date/Time



AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

70RanchUSX-Floor-062818
1806360-01 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806420	06/29/18	06/30/18	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: **06/28/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		98.4 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		100 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.2 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806421	06/29/18	06/30/18	EPA 8015M	

Date Sampled: **06/28/18 10:15**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.4 %	30-150		"	"	"	"	

Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

70RanchUSX-West Wall-062818
1806360-02 (Soil)

Summit Scientific

Volatile Organic Compounds by EPA Method 8260B

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Benzene	ND	0.0020	mg/kg	1	1806420	06/29/18	06/30/18	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: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1,2-Dichloroethane-d4		97.1 %	23-173		"	"	"	"	
Surrogate: Toluene-d8		101 %	20-170		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.9 %	21-167		"	"	"	"	

Extractable Petroleum Hydrocarbons by 8015

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C10-C28 (DRO)	ND	50	mg/kg	1	1806421	06/29/18	06/30/18	EPA 8015M	

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: o-Terphenyl		84.8 %	30-150		"	"	"	"	

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

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	170	10.2	mg/kg dry	1	1807003	07/02/18	07/02/18	EPA 6020B	
Magnesium	119	5.08	"	"	"	"	"	"	

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

70RanchUSX-West Wall-062818
1806360-02 (Soil)

Summit Scientific

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

Sodium	8.22	5.08	mg/kg dry	1	1807003	07/02/18	07/02/18	EPA 6020B
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Calculated Analysis

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Sodium Adsorption Ratio	0.118	0.100	units	1	1807028	07/03/18	07/03/18	Calculation	

Physical Parameters by APHA/ASTM/EPA Methods

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
% Solids	98.5		%	1	1807002	07/02/18	07/02/18	Calculation	
pH	7.79		pH Units	"	1807010	07/02/18	07/02/18	EPA 9045D	

Specific Conductance by EPA Method 120.1

Date Sampled: **06/28/18 10:20**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Specific Conductance (EC)	0.467	0.0100	mmhos/cm	1	1807011	07/02/18	07/02/18	EPA 120.1	

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Summit Scientific

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

Batch 1806420 - EPA 5030 Soil MS

Blank (1806420-BLK1)

Prepared & Analyzed: 06/29/18

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	0.0382		"	0.0396	96.4	23-173				
Surrogate: Toluene-d8	0.0398		"	0.0400	99.5	20-170				
Surrogate: 4-Bromofluorobenzene	0.0393		"	0.0400	98.2	21-167				

LCS (1806420-BS1)

Prepared & Analyzed: 06/29/18

Benzene	0.103	0.0020	mg/kg	0.100	103	70-130				
Toluene	0.105	0.0050	"	0.100	105	70-130				
Ethylbenzene	0.101	0.0050	"	0.100	101	70-130				
m,p-Xylene	0.192	0.010	"	0.200	96.1	70-130				
o-Xylene	0.0985	0.0050	"	0.100	98.5	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.0362		"	0.0396	91.4	23-173				
Surrogate: Toluene-d8	0.0410		"	0.0400	102	20-170				
Surrogate: 4-Bromofluorobenzene	0.0382		"	0.0400	95.6	21-167				

Matrix Spike (1806420-MS1)

Source: 1806360-01

Prepared: 06/29/18 Analyzed: 06/30/18

Benzene	0.0945	0.0020	mg/kg	0.100	ND	94.5	70-130			
Toluene	0.0950	0.0050	"	0.100	ND	95.0	70-130			
Ethylbenzene	0.0942	0.0050	"	0.100	ND	94.2	70-130			
m,p-Xylene	0.178	0.010	"	0.200	ND	89.0	70-130			
o-Xylene	0.0914	0.0050	"	0.100	ND	91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0353		"	0.0396	89.2	23-173				
Surrogate: Toluene-d8	0.0411		"	0.0400	103	20-170				
Surrogate: 4-Bromofluorobenzene	0.0381		"	0.0400	95.3	21-167				

Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

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 1806420 - EPA 5030 Soil MS

Matrix Spike Dup (1806420-MSD1)	Source: 1806360-01			Prepared: 06/29/18 Analyzed: 06/30/18						
Benzene	0.0931	0.0020	mg/kg	0.100	ND	93.1	70-130	1.57	30	
Toluene	0.0930	0.0050	"	0.100	ND	93.0	70-130	2.11	30	
Ethylbenzene	0.0912	0.0050	"	0.100	ND	91.2	70-130	3.24	30	
m,p-Xylene	0.172	0.010	"	0.200	ND	85.9	70-130	3.55	30	
o-Xylene	0.0883	0.0050	"	0.100	ND	88.3	70-130	3.51	30	
Surrogate: 1,2-Dichloroethane-d4	0.0370		"	0.0396		93.4	23-173			
Surrogate: Toluene-d8	0.0415		"	0.0400		104	20-170			
Surrogate: 4-Bromofluorobenzene	0.0376		"	0.0400		94.0	21-167			

Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

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 1806421 - EPA 3550A

Blank (1806421-BLK1)

Prepared: 06/29/18 Analyzed: 06/30/18

C10-C28 (DRO) ND 50 mg/kg

LCS (1806421-BS1)

Prepared: 06/29/18 Analyzed: 06/30/18

C10-C28 (DRO) 491 50 mg/kg 70-130

Matrix Spike (1806421-MS1)

Source: 1806360-01

Prepared: 06/29/18 Analyzed: 06/30/18

C10-C28 (DRO) 507 50 mg/kg 23.1 70-130

Matrix Spike Dup (1806421-MSD1)

Source: 1806360-01

Prepared: 06/29/18 Analyzed: 06/30/18

C10-C28 (DRO) 518 50 mg/kg 23.1 70-130 2.31 20

Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

Soluble Nutrients by EPA 6020/USDA60 6(2, 3A) - Dry Weight Basis - Quality Control
Summit Scientific

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

Batch 1807003 - General Preparation

Blank (1807003-BLK1)

Prepared & Analyzed: 07/02/18

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

LCS (1807003-BS1)

Prepared & Analyzed: 07/02/18

Calcium	609	10.0	mg/kg wet	500	122	70-130
Magnesium	615	5.00	"	500	123	70-130
Sodium	606	5.00	"	500	121	70-130

Duplicate (1807003-DUP1)

Source: 1806333-02

Prepared & Analyzed: 07/02/18

Calcium	246	11.0	mg/kg dry	251	2.30	20
Magnesium	229	5.49	"	230	0.475	20
Sodium	14.3	5.49	"	16.1	12.2	20

Matrix Spike (1807003-MS1)

Source: 1806333-02

Prepared & Analyzed: 07/02/18

Calcium	755	11.0	mg/kg dry	549	251	91.6	70-130
Magnesium	807	5.49	"	549	230	105	70-130
Sodium	663	5.49	"	549	16.1	118	70-130

Matrix Spike Dup (1807003-MSD1)

Source: 1806333-02

Prepared & Analyzed: 07/02/18

Calcium	746	11.0	mg/kg dry	549	251	90.1	70-130	1.15	25
Magnesium	816	5.49	"	549	230	107	70-130	1.17	25
Sodium	641	5.49	"	549	16.1	114	70-130	3.32	25

Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

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 1807002 - General Preparation

Duplicate (1807002-DUP1) **Source: 1806342-02** Prepared & Analyzed: 07/02/18

% Solids	95.9		%		95.9			0.0419	20	
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Batch 1807010 - General Preparation

LCS (1807010-BS1) Prepared & Analyzed: 07/02/18

pH	9.1		pH Units	9.18	99.2	95-105				
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Duplicate (1807010-DUP1) **Source: 1806343-01** Prepared & Analyzed: 07/02/18

pH	7.5		pH Units		7.6			1.72	20	
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Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

Specific Conductance by EPA Method 120.1 - Quality Control
Summit Scientific

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

Batch 1807011 - General Preparation

LCS (1807011-BS1)

Prepared & Analyzed: 07/02/18

Specific Conductance (EC)	0.754	0.0100	mmhos/cm	0.750	101	90-110
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Duplicate (1807011-DUP1)

Source: 1806343-01

Prepared & Analyzed: 07/02/18

Specific Conductance (EC)	0.300	0.0100	mmhos/cm	0.292	2.52	20
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Summit Scientific

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AECOM
1601 Prospect Parkway
Ft. Collins CO, 80525

Project: Noble - 70 Ranch USX BB 9-5, 11

Project Number: [none]
Project Manager: Jim Litz

Reported:
07/03/18 14:08

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