



September 5, 2017

Mr. Jacob Evans
Noble Energy, Inc.
2115 117th Avenue
Greeley, Colorado 80631

Seele #1-11, 2-11
Water Vault Removal
40.323168 / -104.867379
NW¼ SW¼ SEC. 11 T4N R67W 6PM
Weld County, Colorado
Location ID 323564

Dear Mr. Evans,

Eagle Environmental Consulting, Inc. (EAGLE) is pleased to present the results from the water vault removal at the Seele #1-11, 2-11 site (site).

On August 17, 2017, EAGLE collected soil samples following the water vault removal at the site. Per Noble Standard Operation Procedures, a soil sample was collected from each sidewall and from the floor for field screening. The sidewall soil sample with the highest photoionization detector (PID) reading (SS-04@2.5') and the floor soil sample (SS-05@5') were submitted for laboratory analysis.

Based on laboratory analytical results, the soil samples did not contain concentrations of benzene, toluene, ethylbenzene, total xylenes (BTEX), naphthalene, or total petroleum hydrocarbons (TPH) exceeding Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 regulatory limits. Additionally, the sidewall soil sample's (SS-04@2.5') specific conductance, pH, and sodium adsorption ratio (SAR) were within COGCC Table 910-1 regulatory limits.

EAGLE sincerely appreciates the opportunity to provide our services. If you have any questions or require further information, please contact us at (303) 433-0479.

Sincerely,

EAGLE ENVIRONMENTAL CONSULTING, INC.

Robin Lockwood
Project Scientist

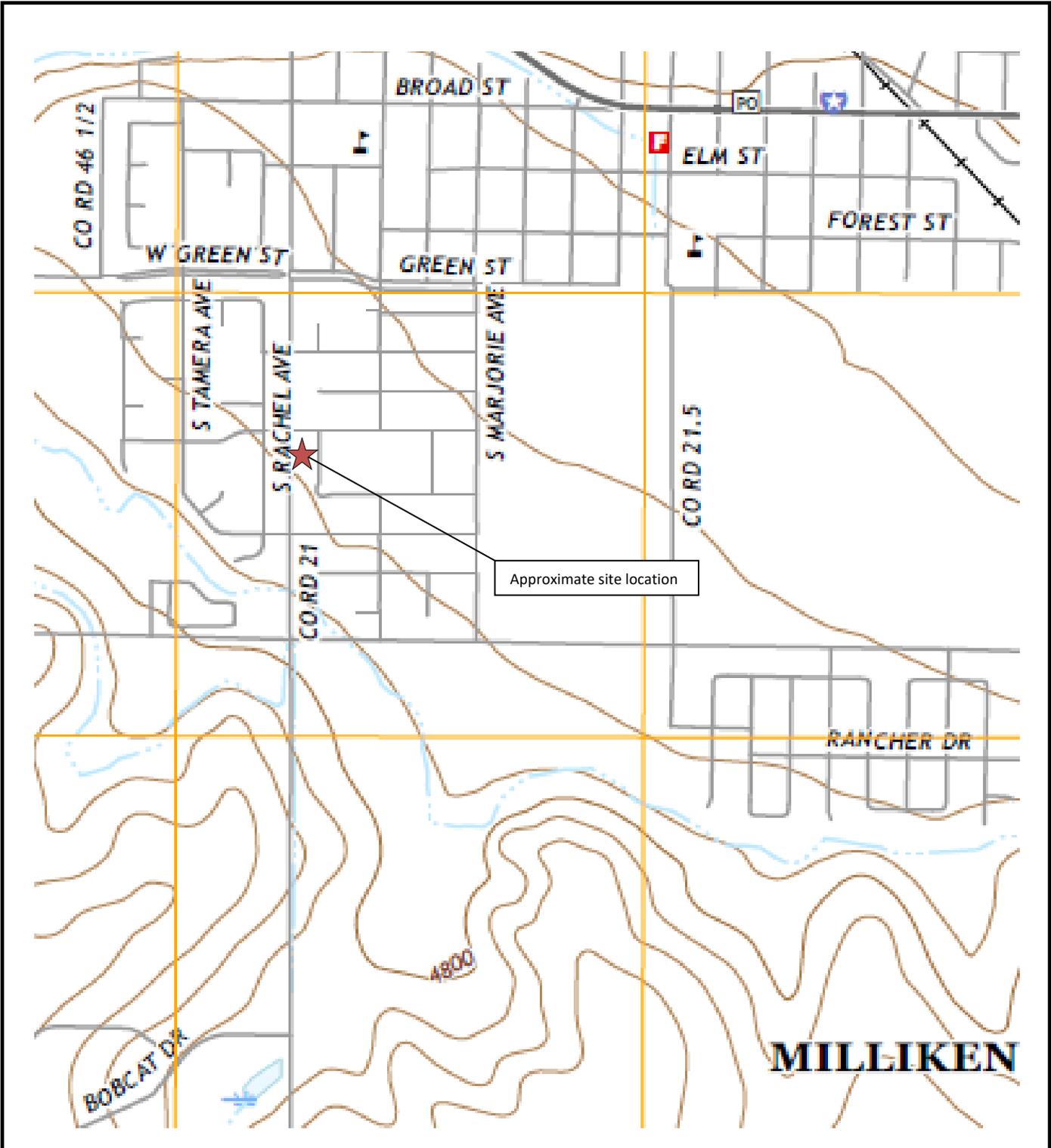


FIGURES

Figure 1: Topographic Site Location Map

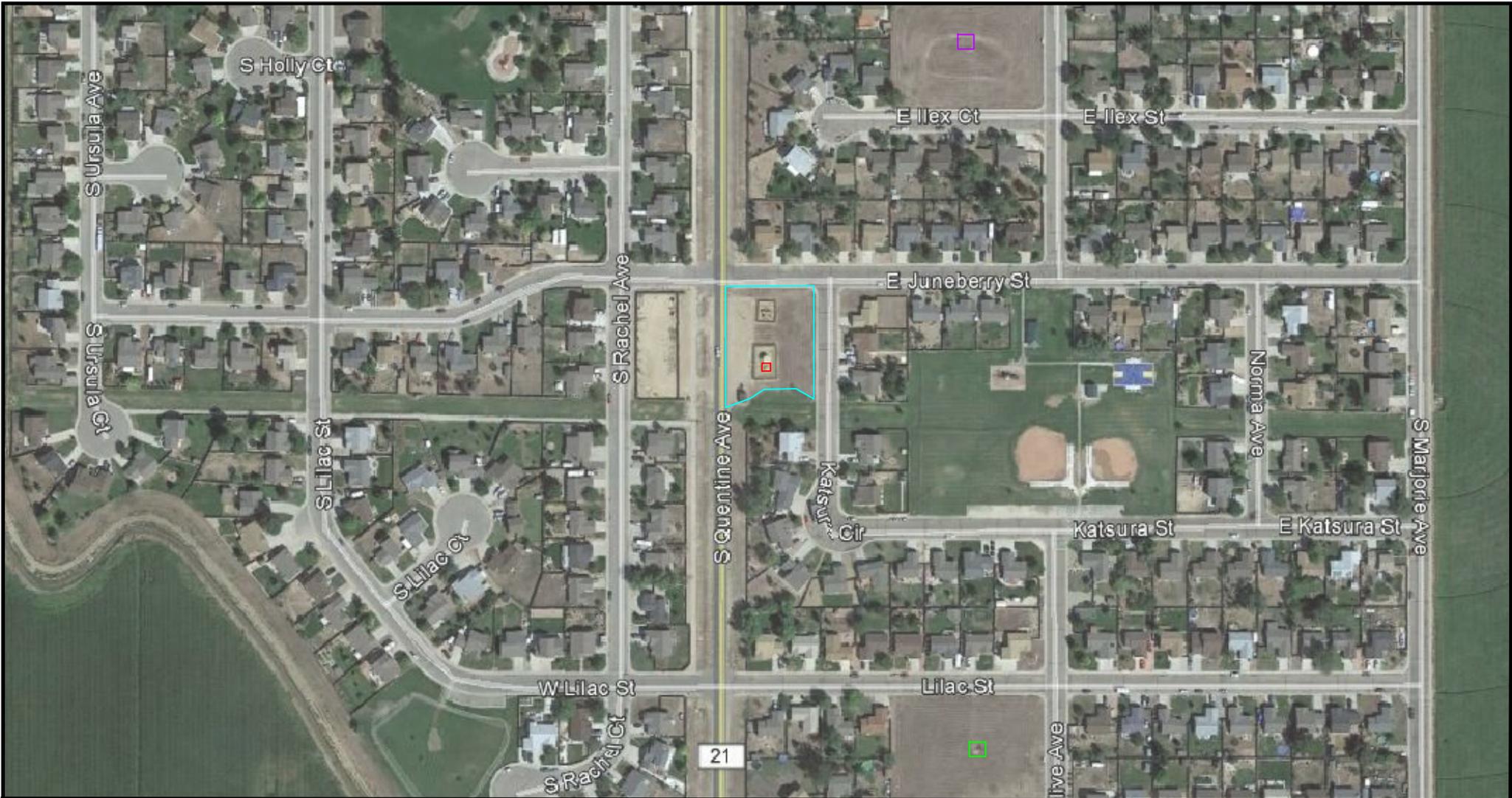
Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



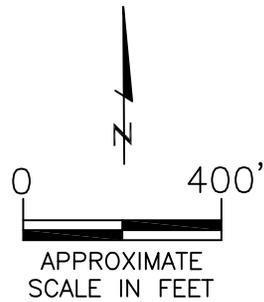
Approximate site location

	<p>Topographic Site Location Map Seele #1-11, 2-11 Water Vault Removal 40.323168/-104.867379 NW¼ SW¼ SEC.11 T4N R67W 6PM Weld County, Colorado Location ID 323564</p>	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p>
<p>Source: USGS 7.5 Minute Topographic Map, Milliken, CO Quadrangle 2016</p>	<p>Figure 1</p>	



LEGEND

- SEELE #1-11, 2-11 TANK BATTERY
- SEELE #1-11 WELL HEAD
- SEELE #2-11 WELL HEAD
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL



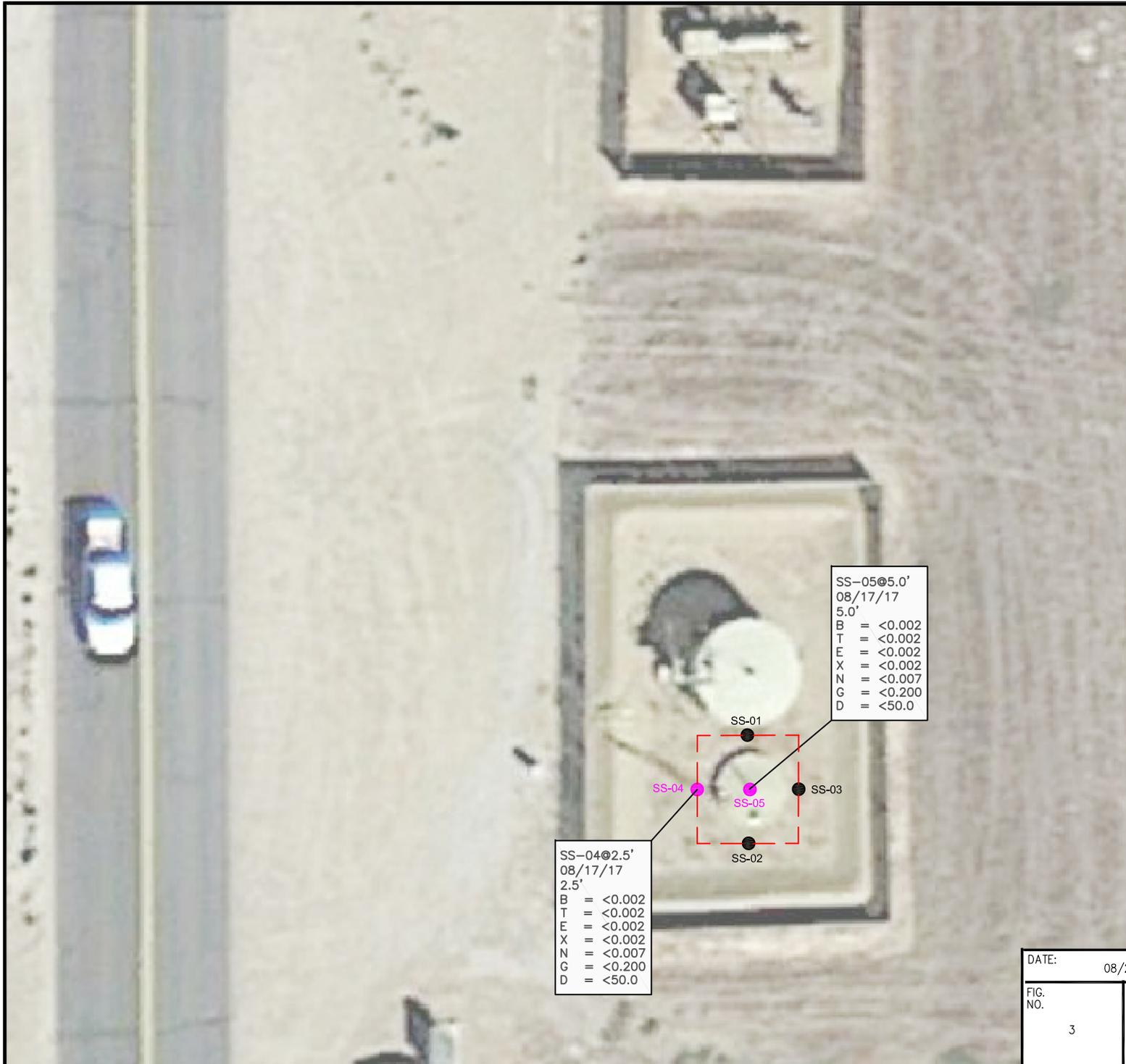
AERIAL SITE LOCATION MAP
 SEELE #1-11, 2-11
 WATER VAULT REMOVAL
 40.323168 / -104.867379
 NW1/4 SW1/4 SEC.11 T4N R67W 6PM
 WELD COUNTY, COLORADO
 LOCATION ID 323564

DATE: 08/29/2017

FIG. NO. 2
 DRAWN BY: js



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.
 4101 INCA STREET, DENVER, CO 80211
 Ph: 303-433-0479 • F: 303-325-5449



SS-04@2.5'
08/17/17
2.5'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

SS-05@5.0'
08/17/17
5.0'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

LEGEND

--- APPROXIMATE EXCAVATION BOUNDARIES

● SS-01 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD ANALYZED WITH PHOTOIONIZATION DETECTOR (PID)

● SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

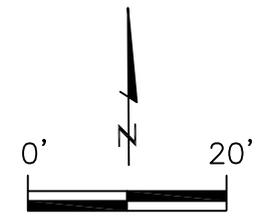
SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

NOTE: VALUES PRESENTED WITH A LESS THAN SYMBOL (<) DID NOT CONTAIN CONCENTRATIONS AT OR ABOVE LABORATORY DETECTION LIMITS



APPROXIMATE SCALE IN FEET

SOIL ANALYTICAL MAP
SEELE #1-11, 2-11
WATER VAULT REMOVAL
40.323168 / -104.867379
NW1/4 SW1/4 SEC.11 T4N R67W 6PM
WELD COUNTY, COLORADO
LOCATION ID 323564

DATE:	08/29/17
FIG. NO.	3
DRAWN BY:	js

EAGLE ENVIRONMENTAL CONSULTING, INC.
4101 INCA STREET, DENVER, CO 80211
Ph: 303-433-0479 • F: 303-325-5449



ATTACHMENT A

Laboratory Analytical Report



August 23, 2017

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - Seele 1-11, 2-11

Project Number - [none]

Attached are your analytical results for Noble - Seele 1-11, 2-11 received by Origins Laboratory, Inc. August 17, 2017. This project is associated with Origins project number Y708225-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Seele 1-11, 2-11

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-04@2.5'	Y708225-01	Soil	August 17, 2017 12:20	08/17/2017 16:30
SS-05@5.0'	Y708225-02	Soil	August 17, 2017 12:25	08/17/2017 16:30

Origins Laboratory, Inc.



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.

Jen Pellegrini For Noelle Doyle Mathis, President

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11



www.originslaboratory.com

Y76225

page 1 of 1

Client: Eagle Environmental Consulting, Inc
 Address: 4101 Inca St
 Telephone Number: Denver CO 80211
 Email Address: mce3@eagle-enviro.com

Project Manager: ~~Seele~~ Martin Eckert III
 Project Name: Seele 1-11, 2-11
 Project Number: _____
 Samples Collected By: JS

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix			Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa #			Other
SS-04 @ 2.5'	8/17/17	1220	2	X				X			X	TRH-DBD TRH-CRO BTEX EC, PH, S, PAH	1
SS-05 @ 50'	8/17/17	1225	2	X				X			X	TRH-DBD TRH-CRO BTEX	2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature]
 Date: 8/17/17
 Time: 1630

Received By: [Signature]
 Date: 8-17-17
 Time: 1630

Turnaround Time:
 Same Day 24 Hr
 48 Hr 72 Hr
 Standard

Temp Received: 14.9 °C
 Date Results Needed: 8/11 to 8/12/17

Origins Laboratory, Inc.

Jefe Pellegrini

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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Origins Laboratory F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: Y708225 Client: Eagle Env.
 Client Project ID: Noble - Seele 1-11, 2-11
 Checklist Completed by: Dan Lee Shipped Via: HO
 Date/time completed: 8/27/12 1635 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____
 Cooler Number/Temperature: 14.8 °C °C °C (Describe) _____ °C
 Thermometer ID: 7003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		<input checked="" type="checkbox"/>		Sampled same Day
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input checked="" type="checkbox"/>			pid
Is a chain-of-custody (COC) 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 with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)		<input checked="" type="checkbox"/>		
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by: [Signature] (Project Manager) Date/Time Reviewed: 8/18/12

Origins Laboratory, Inc.

Jefe Pellegrini

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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

SS-04@2.5'
8/17/2017 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708225-01 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H1811	08/18/2017	08/21/2017	U
<i>Surrogate: o-Terphenyl</i>	70.5 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2101	08/20/2017	08/20/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	111 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	103 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	98.9 %	70-130			"	"	"	

Metals (Saturated Paste Prep)

Calcium	2.53		me/L	1	'[none]'	08/17/2017	08/23/2017	
Magnesium	1.58		"	"	"	"	"	
Sodium	1.74		"	"	"	"	"	

pH in Soil by EPA 9045D

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

SS-04@2.5'

8/17/2017 12:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y708225-01 (Soil)

pH in Soil by EPA 9045D

pH	8.28		pH Units	1	B7H1808	08/18/2017	08/18/2017	
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SAR by 20B Saturated Paste

SAR	1.21			1	'[none]'	08/17/2017	08/23/2017	
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Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0712		mmhos/cm	1	B7H1809	08/18/2017	08/18/2017	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

SS-05@5.0'

8/17/2017 12:25:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y708225-02 (Soil)

Diesel Range Organics (DRO/TEPH) by EPA 8015C

Diesel (C10-C28)	ND	50.0	mg/kg	1	B7H1811	08/18/2017	08/21/2017	U
Surrogate: <i>o</i> -Terphenyl	76.3 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B7H2101	08/20/2017	08/20/2017	U
Benzene	ND	0.002	"	"	"	"	"	U
Toluene	ND	0.002	"	"	"	"	"	U
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.4 %	70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H2101 - EPA 5030 (soil)

Blank (B7H2101-BLK1)

Prepared: 08/21/2017 Analyzed: 08/21/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	67		ug/kg	62.5		107	70-130			
Surrogate: Toluene-d8	65		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B7H2101 - EPA 5030 (soil)

Blank (B7H2101-BLK2)

Prepared: 08/21/2017 Analyzed: 08/22/2017

Gasoline Range Hydrocarbons	ND	0.200	mg/kg							U
Benzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Naphthalene	ND	0.007	"							U
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		94.8	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B7H2101 - EPA 5030 (soil)

LCS (B7H2101-BS1)

Prepared: 08/21/2017 Analyzed: 08/21/2017

Benzene	0.105	0.002	mg/kg	0.100		105	70-130			
Toluene	0.109	0.002	"	0.100		109	70-130			
Ethylbenzene	0.089	0.002	"	0.100		89.0	70-130			
m,p-Xylene	0.177	0.004	"	0.200		88.5	70-130			
o-Xylene	0.089	0.002	"	0.100		88.8	70-130			
Naphthalene	0.100	0.007	"	0.100		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	64		"	62.5		103	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		95.6	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B7H2101 - EPA 5030 (soil)

LCS (B7H2101-BS2)

Prepared: 08/21/2017 Analyzed: 08/22/2017

Benzene	0.090	0.002	mg/kg	0.100		90.4	70-130			
Toluene	0.094	0.002	"	0.100		93.9	70-130			
Ethylbenzene	0.094	0.002	"	0.100		93.5	70-130			
m,p-Xylene	0.188	0.004	"	0.200		94.1	70-130			
o-Xylene	0.093	0.002	"	0.100		92.7	70-130			
Naphthalene	0.104	0.007	"	0.100		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	69		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.7	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B7H2101 - EPA 5030 (soil)

Matrix Spike (B7H2101-MS1)	Source: Y708242-01			Prepared: 08/21/2017 Analyzed: 08/21/2017						
Benzene	0.095	0.002	mg/kg	0.100	ND	94.5	70-130			
Toluene	0.092	0.002	"	0.100	ND	92.2	70-130			
Ethylbenzene	0.083	0.002	"	0.100	0.002	81.0	70-130			
m,p-Xylene	0.163	0.004	"	0.200	0.003	80.0	70-130			
o-Xylene	0.082	0.002	"	0.100	ND	82.1	70-130			
Naphthalene	0.071	0.007	"	0.100	0.003	68.5	70-130			QM-07
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		114	70-130			
Surrogate: Toluene-d8	63		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		105	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

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

Batch B7H2101 - EPA 5030 (soil)

Matrix Spike (B7H2101-MS2)	Source: Y708267-01			Prepared: 08/21/2017 Analyzed: 08/22/2017						
Benzene	0.116	0.002	mg/kg	0.100	ND	116	70-130			
Toluene	0.110	0.002	"	0.100	ND	110	70-130			
Ethylbenzene	0.086	0.002	"	0.100	ND	85.7	70-130			
m,p-Xylene	0.172	0.004	"	0.200	ND	86.2	70-130			
o-Xylene	0.086	0.002	"	0.100	ND	85.7	70-130			
Naphthalene	0.104	0.007	"	0.100	ND	104	70-130			
Surrogate: 1,2-Dichloroethane-d4	74		ug/kg	62.5		119	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	57		"	62.5		91.9	70-130			

Origins Laboratory, Inc.



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.

Eagle Environmental Consulting, Inc.
 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H2101 - EPA 5030 (soil)

Matrix Spike Dup (B7H2101-MSD1)	Source: Y708242-01			Prepared: 08/21/2017 Analyzed: 08/21/2017						
Benzene	0.097	0.002	mg/kg	0.100	ND	97.2	70-130	2.82	20	
Toluene	0.095	0.002	"	0.100	ND	94.6	70-130	2.53	20	
Ethylbenzene	0.082	0.002	"	0.100	0.002	80.2	70-130	0.973	20	
m,p-Xylene	0.161	0.004	"	0.200	0.003	79.0	70-130	1.21	20	
o-Xylene	0.081	0.002	"	0.100	ND	81.3	70-130	1.05	20	
Naphthalene	0.073	0.007	"	0.100	0.003	70.4	70-130	2.66	20	
Surrogate: 1,2-Dichloroethane-d4	73		ug/kg	62.5		118	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		103	70-130			

Origins Laboratory, Inc.



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 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H2101 - EPA 5030 (soil)

Matrix Spike Dup (B7H2101-MSD2)	Source: Y708267-01			Prepared: 08/21/2017 Analyzed: 08/22/2017						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	70-130	8.80	20	
Toluene	0.106	0.002	"	0.100	ND	106	70-130	3.53	20	
Ethylbenzene	0.085	0.002	"	0.100	ND	84.9	70-130	0.985	20	
m,p-Xylene	0.173	0.004	"	0.200	ND	86.5	70-130	0.243	20	
o-Xylene	0.085	0.002	"	0.100	ND	85.1	70-130	0.609	20	
Naphthalene	0.102	0.007	"	0.100	ND	102	70-130	1.77	20	
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.2	70-130			
Surrogate: 4-Bromofluorobenzene	59		"	62.5		95.2	70-130			

Origins Laboratory, Inc.



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 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Volatile Organic Compounds by GC/MS SW846 8260C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B7H1811 - EPA 3550B

Blank (B7H1811-BLK1)

Prepared: 08/18/2017 Analyzed: 08/21/2017

Diesel (C10-C28)	ND	50.0	mg/kg							U
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Surrogate: o-Terphenyl

44			"	50.0		87.1	59-131			
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LCS (B7H1811-BS1)

Prepared: 08/18/2017 Analyzed: 08/21/2017

Diesel (C10-C28)	874	50.0	mg/kg	1000		87.4	64-121			
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Surrogate: o-Terphenyl

44			"	50.0		88.4	59-131			
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Matrix Spike (B7H1811-MS1)

Source: Y708200-02

Prepared: 08/18/2017 Analyzed: 08/21/2017

Diesel (C10-C28)	1080	50.0	mg/kg	1000	ND	108	53-125			
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Surrogate: o-Terphenyl

52			"	50.0		104	59-131			
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Matrix Spike Dup (B7H1811-MSD1)

Source: Y708200-02

Prepared: 08/18/2017 Analyzed: 08/21/2017

Diesel (C10-C28)	816	50.0	mg/kg	1000	ND	81.6	53-125	28.1	20	QR-02
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Surrogate: o-Terphenyl

42			"	50.0		83.2	59-131			
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 4101 Inca Street
 Denver CO 80211

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Seele 1-11, 2-11

Classical Chemistry Parameters - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B7H1808 - NO PREP										
Duplicate (B7H1808-DUP1)		Source: Y708200-01			Prepared: 08/18/2017 Analyzed: 08/18/2017					
pH	7.82		pH Units		7.96			1.77	25	
Batch B7H1809 - NO PREP										
Blank (B7H1809-BLK1)		Prepared: 08/18/2017 Analyzed: 08/18/2017								
Specific Conductance (EC)	0.00210		mmhos/cm							
Duplicate (B7H1809-DUP1)		Source: Y708200-01			Prepared: 08/18/2017 Analyzed: 08/18/2017					
Specific Conductance (EC)	0.123		mmhos/cm		0.106			14.8	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
4101 Inca Street
Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Seele 1-11, 2-11

Notes and Definitions

U Sample is Non-Detect.

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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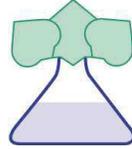
Jen Pellegrini For Noelle Doyle Mathis, President

American Agricultural Laboratory, Inc.

700 West D Street / PO Box 370 / McCook, Nebraska 69001

Office: 308-345-3670 / FAX: 308-345-7880

www.AmAgLab.com



95029

ORIGINS LABORATORY INC

1725 ELK PLACE

DENVER CO 80211

NAME : ORIGINS LAB

DATE RECEIVED: 08/18/2017

DATE REPORTED: 08/23/2017

SOIL TEST RESULTS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	Depth Inches	pH		EL	SOLUBLE SALTS mod. SP mmhos/cm	OM LOI %	NITRATE-N (FIA)		PHOSPHORUS						
				1 : 1 Soil	Buffer Woodruff				ppm	lbs/A	P1 ppm	Bicarb ppm	P2 ppm	M2 ppm	M3 ppm		
2487897	Y708225	01	0-8														

LAB NUMBER	SULFATE-S Ca-P ppm	NH4OAc (Exchangeable)				DTPA				BORON Sorbitol ppm	EST. CATION EXCHANGE CAPACITY (CEC) me/100g	% SATURATION						
		K ppm	Ca ppm	Mg ppm	Na ppm	Zn ppm	Fe ppm	Mn ppm	Cu ppm			BASE	H	Ca	Mg	K	Na	
2487897																		

LAB NUMBER	SOLUBLE (SAT. EXT.)			SODIUM ADSORPTION RATIO (SAR)	EXCH. SODIUM PERCENT (ESP)	GYPSUM REQ T/A	PARTICLE SIZE ANALYSIS				CHLORIDE ppm	EXCH. NH4-N ppm	ALUMINUM ppm	TOTAL N %
	Ca me/L	Mg me/L	Na me/L				SAND %	SILT %	CLAY %	SOIL TEXTURE				
2487897	2.53	1.58	1.74	1.21	1	0								

SUGGESTED FERTILIZER RECOMMENDATIONS

LAB NUMBER	FIELD IDENTIFICATION	SAMPLE IDENTIFICATION	CROP TO BE GROWN	YIELD GOAL	N	P2O5	K2O	S	Zn	MgO	Fe	Mn	Cu	B	Cl	LIME REC 60% ECCE T/A
2487897	Y708225	01								lbs/A						

Analysis By: American Agricultural Lab

Recommendations By: American Agricultural Lab



Your Lab's letterhead here...

Address

City, St. Zip

Phone/Fax

SUBCONTRACT ORDER

Sending Laboratory:

Origins Laboratory, Inc.
 1725 West Elk Place
 Denver, CO 80211
 Phone: 303.433.1322
 Fax: 303.265.9645

Project Manager: Noelle Doyle Mathis

Subcontracted Laboratory:

American Agricultural Laboratory, Inc
 210 East 1st Street
 McCook, NE 69001
 Phone: (308) 345-3670
 Fax: (308) 345-7880

Work Order: Y708225

364

Analysis	Due	Expires	Comments
Sample ID: Y708225-01 Soil Sampled: 08/17/2017 12:20			
SAR (Saturated Paste Prep)	08/24/2017	08/18/2017 12:20	
<i>Containers Supplied:</i>			



 Released By

 Date

 Received By

 Date