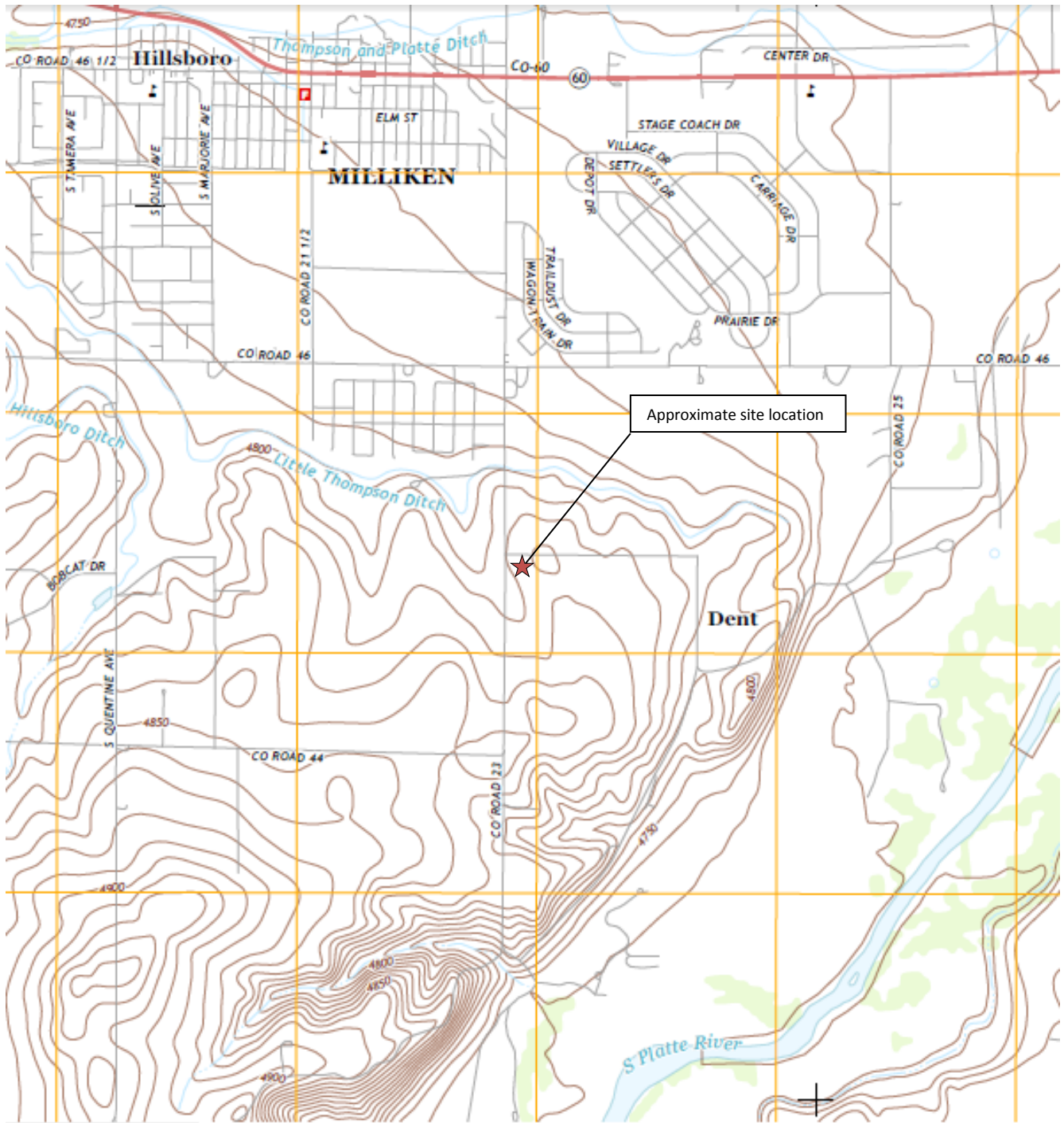


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Sample Analytical Map



Topographic Site Location Map
 UPRC #13-11E, #13-12E
 Water Vault Removal
 40.311799/-104.848122
 NW¼ SW¼ SEC.13 T4N R67W 6PM
 Weld County, Colorado
 API # 05-123-15320, 05-123-15321

Source: USGS 7.5 Minute Topographic Map, Milliken, CO Quadrangle 2013

Figure 1

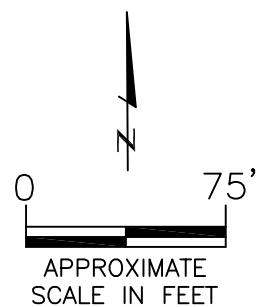


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LEGEND

- UPRC #13-11E, #13-12E TANK BATTERY
- APPROXIMATE LOCATION OF WATER VAULT REMOVAL/EXCAVATION



AERIAL SITE LOCATION MAP
 UPRC #13-11E, #13-12E
 WATER VAULT REMOVAL
 40.311799 / -104.848122
 NW1/4 SW1/4 SEC.13 T4N R67W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-15320, 05-123-15321

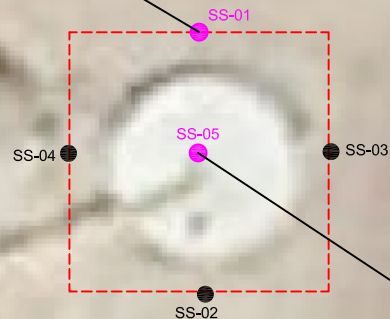
DATE:
 04/27/15

FIG. NO. DRAWN BY:
 2 ar



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

SS-01@3'
03/27/15
3'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0



SS-05@5'
03/27/15
5'
B = <0.002
T = <0.002
E = <0.002
X = <0.002
N = <0.007
G = <0.200
D = <50.0

LEGEND

— APPROXIMATE REMOVED WATER VAULT 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

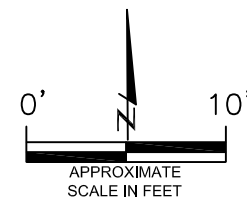
SOIL SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
N = NAPHTHALENE (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

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



SOIL ANALYTICAL MAP
UPRC #13-11E, #13-12E
WATER VAULT REMOVAL
40.311799/-104.848122
NW1/4 SW1/4 SEC.13 T4N R67W 6PM
WELD COUNTY, COLORADO
API # 05-123-15320, 05-123-15321

DATE: 04/27/15

FIG. NO.

3

DRAWN BY:

ar



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

TABLE

Table 1: Soil Analytical Results Summary

TABLE 1
SOIL ANALYTICAL RESULTS SUMMARY
UPRC #13-11E, #13-12E
WATER VAULT REMOVAL
40.311799 / -104.848122
NW¼ SW¼ SEC.13 T4N R67W 6PM
WELD COUNTY, COLORADO
API # 05-123-15320, 05-123-15321

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Naphthalene (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	Specific Conductance (mmhos/cm)	pH (pH units)	SAR
COGCC Table 910-1 Regulatory Limits (mg/kg)			0.17	85	100	175	23	500		4	6 to 9	12^5
SS-01 @ 3' (40.311833855 / -104.848118601)	03/27/15	3	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	0.0614	8.92	0.18
SS-05 @ 5' (40.311797072 / -104.848111705)	03/27/15	5	<0.002	<0.002	<0.002	<0.002	<0.007	<0.200	<50.0	NA	NA	NA
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter NA = Not Analyzed TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics SAR = Sodium Adsorption Ratio Note: Values presented with a less than symbol (<) did not contain concentrations exceeding the laboratory reporting limits.												



ATTACHMENT A

Laboratory Analytical Report



March 30, 2015

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

Project Name - Noble - UPRC #13-11E, #13-12E

Project Number - [none]

Attached are your analytical results for Noble - UPRC #13-11E, #13-12E received by Origins Laboratory, Inc. March 27, 2015. This project is associated with Origins project number X503359-01.

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 - UPRC #13-11E, #13-12E

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS01 @ 3'	X503359-01	Soil	March 27, 2015 13:35	03/27/2015 15:55
SS05 @ 5'	X503359-02	Soil	March 27, 2015 13:55	03/27/2015 15:55

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 - UPRC #13-11E, #13-12E

www.originslaboratory.com

X503359

page 1 of 1

ORIGINS
LABORATORY, INC

Client: EAGLE ENV CONSULTING

Address: 4101 INCA ST

DENVER, CO 80211

Telephone Number: 303 433 0449

Email Address: mce3@eagle-env.com

Project Manager: MARTIN ECKERT III

Project Name: UPRC #13-11E, #13-12E

Project Number:

Samples Collected By: A DOMINSKY

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Summa Canister #	Other	Other	Other	
SS-0103'	3/27/15	1335	2	X			X						1
SS-0505'	3/27/15	1355	2	X			X						2
													3
													4
													5
													6
													7
													8
													9
													10

Relinquished By: [Signature] Date: 3/27/15 Time: 1555

Relinquished By: [Signature] Date: 3/27/15 Time: 1555

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

Date Results Needed: 3/27/15

Temp Received: 4.7

HOLD SAMPLES FOR PAH-TBD

Origins Laboratory, Inc.

Jefe Pellegrini

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 - UPRC #13-11E, #13-12E

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: XS03359

Client: Eagle

Client Project ID: UPRC #13-11E, #13-12E

Checklist Completed by: Jeff Smith

Shipped Via: H/D

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 2/27/15

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 4.7 °C 1 / _____ °C 1 / _____ °C (Describe)

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"/>			
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"/>			PH
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 (Project Manager) Jeff Smith

Date/Time Reviewed 2/27/15

Origins Laboratory, Inc.

Jeff Pellegrini

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 - UPRC #13-11E, #13-12E

SS01 @ 3'
3/27/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X503359-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5C27006	03/27/2015	03/27/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	99.6 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5C27008	03/27/2015	03/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Naphthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	111 %	70-130			"	"	"
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	"

pH in Soil by EPA 9045D

pH	8.92		pH Units	1	5C27011	03/27/2015	03/27/2015
----	------	--	----------	---	---------	------------	------------

SAR Metals by SW-846 6010C

Calcium	67600	1920	mg/kg	20	964845	03/30/2015	03/30/2015	D
Magnesium	4470	96.2	"	1	"	"	"	

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 - UPRC #13-11E, #13-12E

SS01 @ 3'
3/27/2015 1:35:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	-------

XENCO
X503359-01 (Soil)

SAR Metals by SW-846 6010C

Sodium	176	96.2	mg/kg	1	964845	03/30/2015	03/30/2015
--------	-----	------	-------	---	--------	------------	------------

Sodium Absorption Ratio

Sodium Absorption Ratio	0.18			1	964850	"	03/30/2015
-------------------------	------	--	--	---	--------	---	------------

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0614		mmhos/cm	1	5C27012	03/27/2015	03/27/2015
---------------------------	--------	--	----------	---	---------	------------	------------

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 - UPRC #13-11E, #13-12E

SS05 @ 5'
3/27/2015 1:55:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
X503359-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	5C27006	03/27/2015	03/27/2015
------------------	----	------	-------	---	---------	------------	------------

Surrogate: o-Terphenyl	99.1 %	59-131			"	"	"
------------------------	--------	--------	--	--	---	---	---

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	5C27008	03/27/2015	03/27/2015
Benzene	ND	0.002	"	"	"	"	"
Toluene	ND	0.002	"	"	"	"	"
Ethylbenzene	ND	0.002	"	"	"	"	"
Xylenes, total	ND	0.002	"	"	"	"	"
Napthalene	ND	0.007	"	"	"	"	"

Surrogate: 1,2-Dichloroethane-d4	116 %	70-130			"	"	"
Surrogate: Toluene-d8	97.1 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	98.9 %	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 - UPRC #13-11E, #13-12E

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 5C27008 - EPA 5030 (soil)										
Blank (5C27008-BLK1)					Prepared: 03/27/2015 Analyzed: 03/27/2015					
Gasoline Range Hydrocarbons	ND	0.200	mg/kg							
Benzene	ND	0.002	"							
Toluene	ND	0.002	"							
Ethylbenzene	ND	0.002	"							
Xylenes, total	ND	0.002	"							
Naphthalene	ND	0.007	"							
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	61		"	62.5		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	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 - UPRC #13-11E, #13-12E

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 5C27008 - EPA 5030 (soil)										
LCS (5C27008-BS1)					Prepared: 03/27/2015 Analyzed: 03/27/2015					
Benzene	0.096	0.002	mg/kg	0.100		96.2	70-130			
Toluene	0.093	0.002	"	0.100		93.3	70-130			
Ethylbenzene	0.091	0.002	"	0.100		91.3	70-130			
m,p-Xylene	0.184	0.004	"	0.200		92.0	70-130			
o-Xylene	0.093	0.002	"	0.100		93.0	70-130			
Naphthalene	0.101	0.007	"	0.100		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		104	70-130			
Surrogate: Toluene-d8	61		"	62.5		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		98.9	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 - UPRC #13-11E, #13-12E

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 5C27008 - EPA 5030 (soil)

Matrix Spike (5C27008-MS1)		Source: X503342-01			Prepared: 03/27/2015 Analyzed: 03/27/2015					
Benzene	0.104	0.002	mg/kg	0.100	ND	104	70-130			
Toluene	0.102	0.002	"	0.100	ND	102	70-130			
Ethylbenzene	0.103	0.002	"	0.100	ND	103	70-130			
m,p-Xylene	0.206	0.004	"	0.200	ND	103	70-130			
o-Xylene	0.105	0.002	"	0.100	ND	105	70-130			
Naphthalene	0.100	0.007	"	0.100	ND	99.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	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 - UPRC #13-11E, #13-12E

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 5C27008 - EPA 5030 (soil)										
Matrix Spike Dup (5C27008-MSD1)		Source: X503342-01			Prepared: 03/27/2015 Analyzed: 03/27/2015					
Benzene	0.095	0.002	mg/kg	0.100	ND	95.3	70-130	9.21	20	
Toluene	0.090	0.002	"	0.100	ND	90.2	70-130	12.1	20	
Ethylbenzene	0.090	0.002	"	0.100	ND	89.8	70-130	13.4	20	
m,p-Xylene	0.180	0.004	"	0.200	ND	89.8	70-130	13.7	20	
o-Xylene	0.093	0.002	"	0.100	ND	92.6	70-130	12.3	20	
Naphthalene	0.077	0.007	"	0.100	ND	77.3	70-130	25.3	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	65		ug/kg	62.5		103	70-130			
Surrogate: Toluene-d8	62		"	62.5		98.9	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 - UPRC #13-11E, #13-12E

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 5C27006 - EPA 3580

Blank (5C27006-BLK1)

Prepared: 03/27/2015 Analyzed: 03/27/2015

Diesel (C10-C28) ND 50.0 mg/kg

Surrogate: o-Terphenyl 54 " 50.0 109 59-131

LCS (5C27006-BS1)

Prepared: 03/27/2015 Analyzed: 03/27/2015

Diesel (C10-C28) 1100 50.0 mg/kg 1000 110 64-121

Surrogate: o-Terphenyl 51 " 50.0 102 59-131

Matrix Spike (5C27006-MS1)

Source: X503342-01

Prepared: 03/27/2015 Analyzed: 03/27/2015

Diesel (C10-C28) 1090 50.0 mg/kg 1000 49.3 104 53-125

Surrogate: o-Terphenyl 46 " 50.0 92.5 59-131

Matrix Spike Dup (5C27006-MSD1)

Source: X503342-01

Prepared: 03/27/2015 Analyzed: 03/27/2015

Diesel (C10-C28) 1080 50.0 mg/kg 1000 49.3 103 53-125 1.29 20

Surrogate: o-Terphenyl 47 " 50.0 94.4 59-131

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 - UPRC #13-11E, #13-12E

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 5C27011 - NO PREP										
Duplicate (5C27011-DUP1)	Source: X503342-01				Prepared: 03/27/2015 Analyzed: 03/27/2015					
pH	8.78		pH Units		8.76			0.228	25	
Duplicate (5C27011-DUP2)	Source: X503353-01				Prepared: 03/27/2015 Analyzed: 03/27/2015					
pH	8.40		pH Units		8.37			0.358	25	
Batch 5C27012 - NO PREP										
Blank (5C27012-BLK1)	Prepared: 03/27/2015 Analyzed: 03/27/2015									
Specific Conductance (EC)	0.00310		mmhos/cm							
Blank (5C27012-BLK2)	Prepared: 03/27/2015 Analyzed: 03/27/2015									
Specific Conductance (EC)	0.00310		mmhos/cm							
Duplicate (5C27012-DUP1)	Source: X503342-01				Prepared: 03/27/2015 Analyzed: 03/27/2015					
Specific Conductance (EC)	0.0735		mmhos/cm		0.0749			1.89	25	
Duplicate (5C27012-DUP2)	Source: X503353-01				Prepared: 03/27/2015 Analyzed: 03/27/2015					
Specific Conductance (EC)	0.493		mmhos/cm		0.496			0.607	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 - UPRC #13-11E, #13-12E

SAR Metals by SW-846 6010C - Quality Control XENCO

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 964845 - SW3050B										
MS (504899-001 S)		Source: 504899-001 S			Prepared: 03/30/2015 Analyzed: 03/30/2015					
Sodium	912	92.6	mg/kg	833	67.4	101	75-125		20	
Calcium	1670	92.6	"	833	773	108	75-125		20	
Magnesium	1890	92.6	"	833	1000	107	75-125		20	
MSD (504899-001 SD)		Source: 504899-001 SD			Prepared: 03/30/2015 Analyzed: 03/30/2015					
Sodium	972	99	mg/kg	891	67.4	102	75-125	6	20	
Calcium	1700	99	"	891	773	104	75-125	2	20	
Magnesium	1950	99	"	891	1000	107	75-125	3	20	
LCS (690450-1-BKS)		Source: 690450-1-BKS			Prepared: 03/30/2015 Analyzed: 03/30/2015					
Sodium	876	100	mg/kg	900	<0.260	97	75-125		20	
Magnesium	890	100	"	900	<1.22	99	75-125		20	
Calcium	911	100	"	900	0.7	101	75-125		20	
BLANK (690450-1-BLK)		Source: 690450-1-BLK			Prepared: 03/30/2015 Analyzed: 03/30/2015					
Magnesium	ND	100	mg/kg	900			-		20	
Sodium	ND	100	"	900			-		20	
Calcium	0.7	100	"	900			-		20	J
LCSD (690450-1-BSD)		Source: 690450-1-BSD			Prepared: 03/30/2015 Analyzed: 03/30/2015					
Calcium	918	100	mg/kg	900	0.7	102	75-125	1	20	
Magnesium	909	100	"	900	<1.22	101	75-125	2	20	
Sodium	888	100	"	900	<0.260	99	75-125	1	20	

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Denver CO 80211

Martin C Eckert III

Project Number: [none]

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Notes and Definitions

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

J [Undefined]

D Analyzed at an additional dilution to get concentration of target analyte within the calibration range of the instrument.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

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Jen Pellegrini For Noelle Doyle Mathis, President