

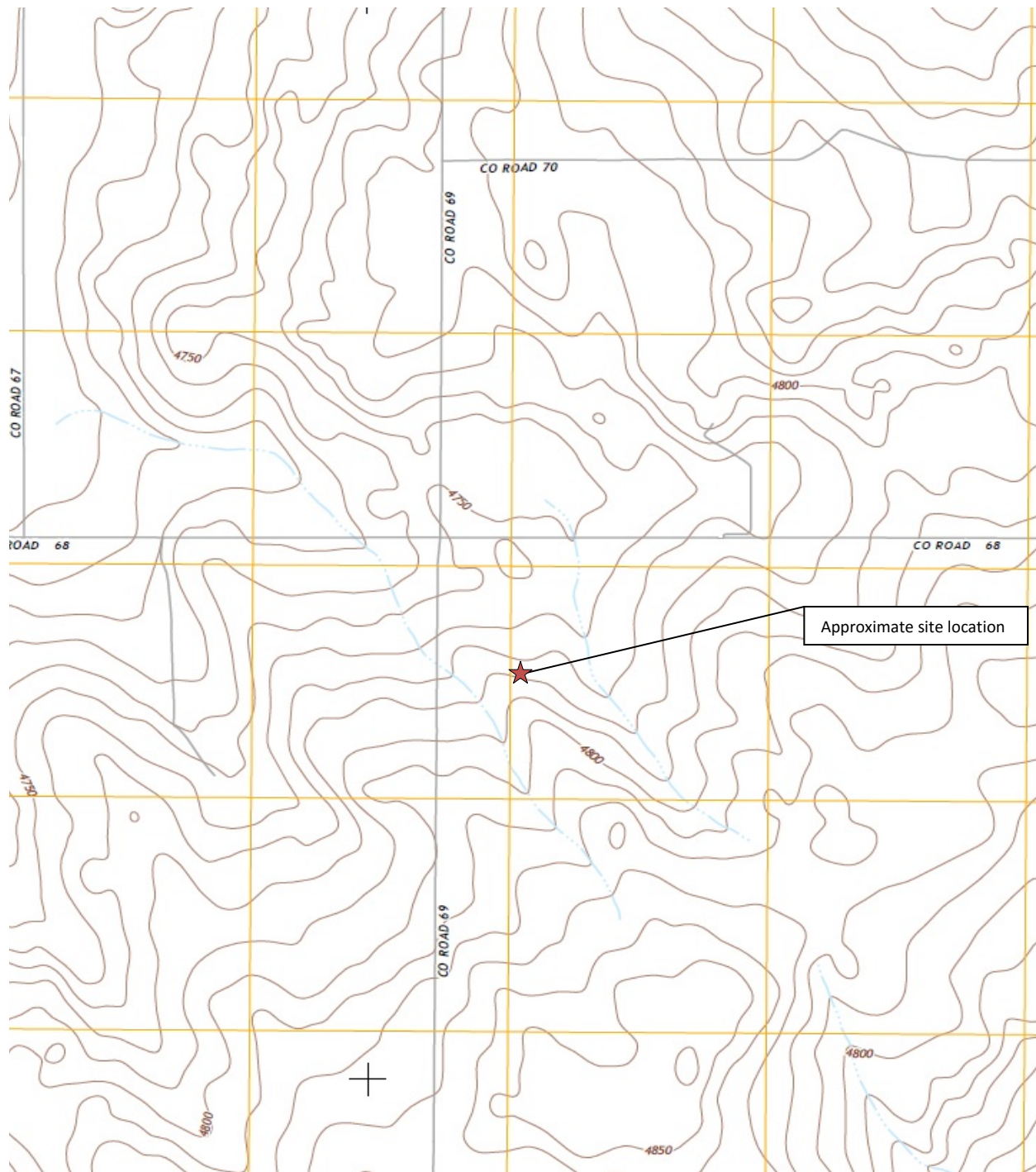


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



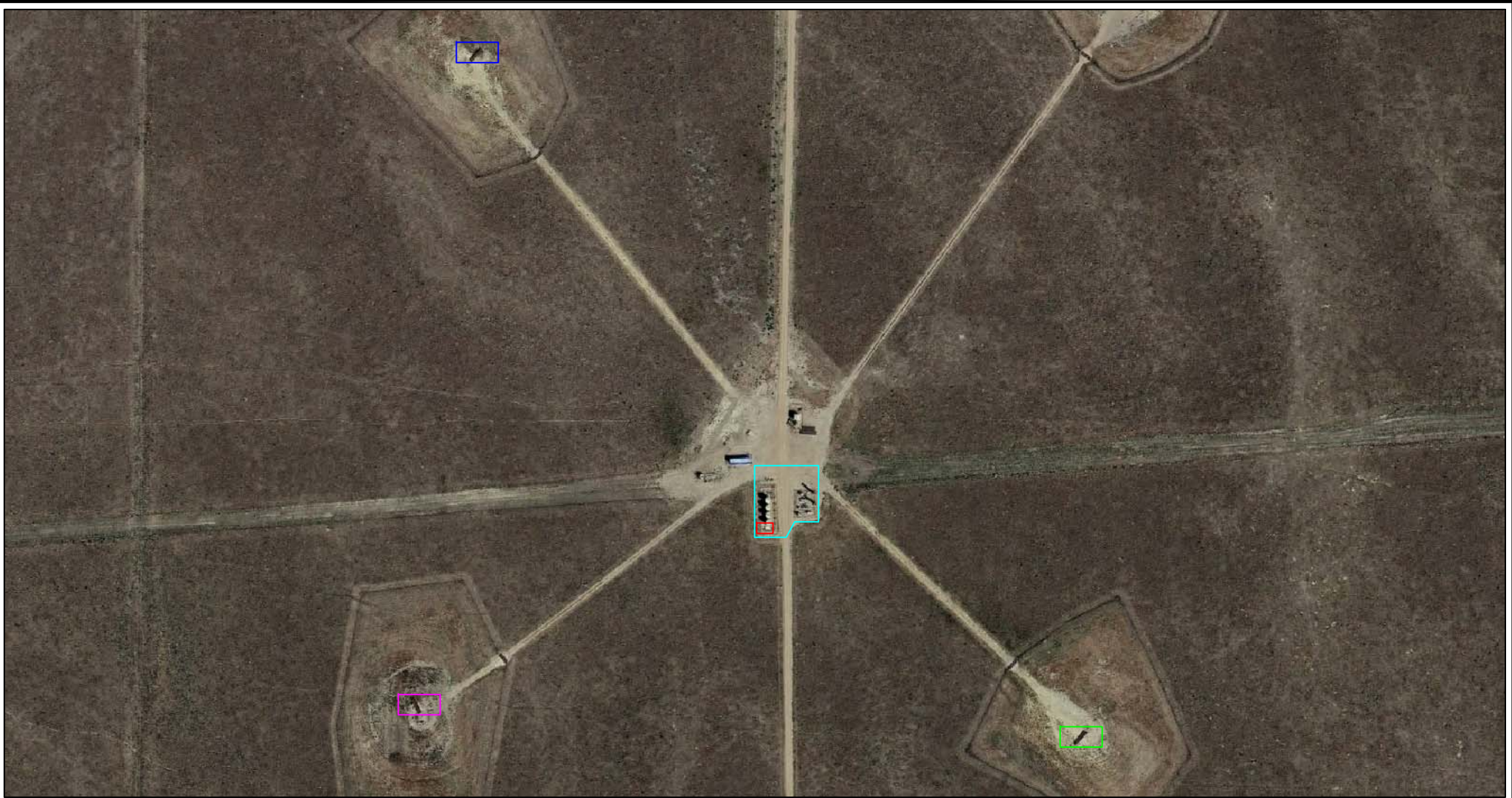
Topographic Site Location Map
 Wells Ranch US AA #23-12, 13, 14
 Water Vault Removal
 40.467638 / -104.409062
 SW¼ SW¼ SEC.23 T6N R63W 6PM
 Weld County, Colorado
 API # 05-123-25724, 05-123-29490, 05-123-25725

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

Figure 1

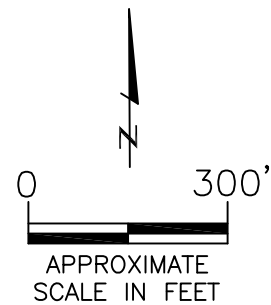


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 CONSULTING, INC.



LEGEND

- WELLS RANCH USX AA #23-12, 13, 14 TANK BATTERY
- WELLS RANCH USX AA #23-12 WELL HEAD
- WELLS RANCH USX AA #23-13 WELL HEAD
- WELLS RANCH US AA #23-14 WELL HEAD
- APPROXIMATE LOCATION OF REMOVED WATER VAULT



AERIAL SITE LOCATION MAP
WELLS RANCH USX AA #23-12, 13, 14
WATER VAULT REMOVAL
40.467638 / -104.409062
SW ¼ SW ¼ SEC.23 T6N R63W 6PM
WELD COUNTY, COLORADO
API #05-123-25724, 05-123-29490,
05-123-25725

DATE:
08/04/16

FIG. NO.
2

DRAWN BY:
amn



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



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

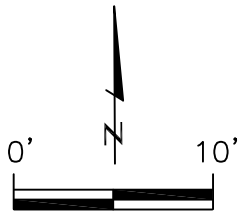
SAMPLE LOCATION	
DATE	
DEPTH (FEET)	
B	= BENZENE (mg/kg)
T	= TOLUENE (mg/kg)
E	= ETHYLBENZENE (mg/kg)
X	= TOTAL XYLENES (mg/kg)
N	= NAPHTHALENE (mg/kg)
G	= TPH-GRO (mg/kg)
D	= TPH-DRO (mg/kg)

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
WELLS RANCH USX AA #23-12, 13, 14
WATER VAULT REMOVAL
40.467638/-104.409062
SW1/4 SW1/4 SEC.23 T6N R63W 6PM
WELD COUNTY, COLORADO
API # 05-123-25724, 05-123-29490, 05-123-25725

DATE: 08/04/16

FIG.
NO. 3

DRAWN BY:
amn



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



ATTACHMENT A

Laboratory Analytical Report



June 16, 2016

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Wells Ranch USX AA
#23-12,13,14**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch USX AA #23-12,13,14 received by Origins Laboratory, Inc. June 09, 2016. This project is associated with Origins project number X606120-01.

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 - Wells Ranch USX AA
#23-12,13,14

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-03 @ 3'	X606120-01	Soil	June 9, 2016 14:00	06/09/2016 16:08
SS-05 @ 5.5'	X606120-02	Soil	June 9, 2016 14:05	06/09/2016 16:08

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 - Wells Ranch USX AA
#23-12,13,14

www.originslaboratory.com
page / of /

X606170

ORIGINS
LABORATORY, INC

Client: Eagle Env Consulting, Inc.
Address: 4101 Inca Street
Telephone Number: 303-433-0439
Email Address: MCE@eagle-enviro.com

Project Manager: Martin Eckert III
Project Name: Wells Ranch USX AA #23-12,13,14
Project Number: -
Samples Collected By: A. Newberry

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions	
				Unpreserved	HCl	HNO ₃	Groundwater	Soil	Air Sampling	Other	BITX	GC		DIC
SS-03@3'	6/9/16	1400	2	X				X					X	1
SS-05@5.5'	6/9/16	1405	2	X				X					X	2
														3
														4
														5
														6
														7
														8
														9
														10

Relinquished By: [Signature] Date: 6/9/16 Time: 1608
Relinquished By: [Signature] Date: 6/9/16 Time: 1608

Received By: [Signature] Date: 6/9/16 Time: 1608
Received By: [Signature] Date: 6/9/16 Time: 1608

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

Temp Received: 9.2
Date Results Needed: Noble

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 - Wells Ranch USX AA
#23-12,13,14

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: X600120

Client: Eagle

Client Project ID: Wells Ranch USX AA #23-12, 13, 14

Checklist Completed by: Jeff Smith

Shipped Via: 4/17
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 6/9/14

Airbill #: NA

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

Cooler Number/Temperature: 1 19.2 °C 1 °C 1 °C (Describe) _____ °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		X		Sampled Same Day
Is there ice present (document if blue ice is used)	X			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		X		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		X		
Were all samples received intact ⁽¹⁾ ?	X			
Was adequate sample volume provided ⁽¹⁾ ?	X			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	X			PH
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	X			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	X			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			X	
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)			X	
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)

6/9/14
Date/Time Reviewed

Origins Laboratory, Inc.

Jen 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 - Wells Ranch USX AA
#23-12,13,14

SS-03 @ 3'

6/9/2016 2:00:00PM

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

Origins Laboratory, Inc.
X606120-01 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6F0905	06/09/2016	06/09/2016	U
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Surrogate: o-Terphenyl	84.3 %	59-131			"	"	"	
------------------------	--------	--------	--	--	---	---	---	--

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F0903	06/09/2016	06/09/2016	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	111 %	70-130			"	"	"	
Surrogate: Toluene-d8	102 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	102 %	70-130			"	"	"	

Metals by 6010

Calcium	2.14		me/L	1	'[none]'	06/10/2016	06/15/2016	
Magnesium	0.74		"	"	"	"	"	
Sodium	1.36		"	"	"	"	"	

pH in Soil by EPA 9045D

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 - Wells Ranch USX AA
#23-12,13,14

SS-03 @ 3'

6/9/2016 2:00:00PM

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

Origins Laboratory, Inc.
X606120-01 (Soil)

pH in Soil by EPA 9045D

pH	8.42	pH Units	1	B6F0906	06/09/2016	06/09/2016
----	------	----------	---	---------	------------	------------

SAR by 20B Saturated Paste

SAR	1.13		1	'[none]'	06/10/2016	06/15/2016
-----	------	--	---	----------	------------	------------

Specific Conductance by Modified 9050A

Specific Conductance (EC)	0.0871	mmhos/cm	1	B6F0907	06/09/2016	06/09/2016
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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 - Wells Ranch USX AA
#23-12,13,14

SS-05 @ 5.5'

6/9/2016 2:05:00PM

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

Origins Laboratory, Inc.
X606120-02 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B6F0905	06/09/2016	06/09/2016	U
Surrogate: o-Terphenyl	83.5 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B6F0903	06/09/2016	06/09/2016	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	109 %	70-130			"	"	"	
Surrogate: Toluene-d8	100 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.6 %	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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)										
Blank (B6F0903-BLK1)					Prepared: 06/09/2016 Analyzed: 06/09/2016					
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	61		ug/kg	62.5		98.4	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)										
Blank (B6F0903-BLK2)					Prepared: 06/09/2016 Analyzed: 06/09/2016					
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	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	62		"	62.5		99.2	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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)

LCS (B6F0903-BS1)

Prepared: 06/09/2016 Analyzed: 06/09/2016

Benzene	0.102	0.002	mg/kg	0.100		102	70-130			
Toluene	0.106	0.002	"	0.100		106	70-130			
Ethylbenzene	0.110	0.002	"	0.100		110	70-130			
m,p-Xylene	0.220	0.004	"	0.200		110	70-130			
o-Xylene	0.108	0.002	"	0.100		108	70-130			
Naphthalene	0.097	0.007	"	0.100		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		101	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

Origins Laboratory, Inc.



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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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)

LCS (B6F0903-BS2)

Prepared: 06/09/2016 Analyzed: 06/09/2016

Benzene	0.085	0.002	mg/kg	0.100		84.9	70-130			
Toluene	0.086	0.002	"	0.100		86.4	70-130			
Ethylbenzene	0.087	0.002	"	0.100		87.4	70-130			
m,p-Xylene	0.176	0.004	"	0.200		87.8	70-130			
o-Xylene	0.085	0.002	"	0.100		85.5	70-130			
Naphthalene	0.100	0.007	"	0.100		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		112	70-130			
Surrogate: Toluene-d8	64		"	62.5		102	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.8	70-130			

Origins Laboratory, Inc.



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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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)

Matrix Spike (B6F0903-MS1)		Source: X606098-01			Prepared: 06/09/2016 Analyzed: 06/09/2016					
Benzene	0.099	0.002	mg/kg	0.100	ND	98.7	70-130			
Toluene	0.101	0.002	"	0.100	ND	101	70-130			
Ethylbenzene	0.102	0.002	"	0.100	ND	102	70-130			
m,p-Xylene	0.208	0.004	"	0.200	ND	104	70-130			
o-Xylene	0.100	0.002	"	0.100	ND	99.6	70-130			
Naphthalene	0.108	0.007	"	0.100	ND	108	70-130			
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	60		"	62.5		96.1	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.

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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)

Matrix Spike (B6F0903-MS2)		Source: X606118-02			Prepared: 06/09/2016 Analyzed: 06/09/2016					
Benzene	0.098	0.002	mg/kg	0.100	0.0009	96.8	70-130			
Toluene	0.096	0.002	"	0.100	0.001	94.6	70-130			
Ethylbenzene	0.099	0.002	"	0.100	ND	99.1	70-130			
m,p-Xylene	0.201	0.004	"	0.200	ND	100	70-130			
o-Xylene	0.098	0.002	"	0.100	ND	98.1	70-130			
Naphthalene	0.106	0.007	"	0.100	ND	106	70-130			
Surrogate: 1,2-Dichloroethane-d4	71		ug/kg	62.5		113	70-130			
Surrogate: Toluene-d8	62		"	62.5		99.6	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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)										
Matrix Spike Dup (B6F0903-MSD1)		Source: X606098-01			Prepared: 06/09/2016 Analyzed: 06/09/2016					
Benzene	0.093	0.002	mg/kg	0.100	ND	93.3	70-130	5.60	20	
Toluene	0.094	0.002	"	0.100	ND	94.2	70-130	7.01	20	
Ethylbenzene	0.095	0.002	"	0.100	ND	94.7	70-130	7.26	20	
m,p-Xylene	0.191	0.004	"	0.200	ND	95.6	70-130	8.35	20	
o-Xylene	0.094	0.002	"	0.100	ND	93.6	70-130	6.13	20	
Naphthalene	0.104	0.007	"	0.100	ND	104	70-130	4.31	20	
Surrogate: 1,2-Dichloroethane-d4	70		ug/kg	62.5		111	70-130			
Surrogate: Toluene-d8	63		"	62.5		101	70-130			
Surrogate: 4-Bromofluorobenzene	61		"	62.5		97.2	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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0903 - EPA 5030 (soil)

Matrix Spike Dup (B6F0903-MSD2)		Source: X606118-02			Prepared: 06/09/2016 Analyzed: 06/09/2016					
Benzene	0.098	0.002	mg/kg	0.100	0.0009	97.1	70-130	0.286	20	
Toluene	0.096	0.002	"	0.100	0.001	95.2	70-130	0.604	20	
Ethylbenzene	0.099	0.002	"	0.100	ND	99.0	70-130	0.121	20	
m,p-Xylene	0.203	0.004	"	0.200	ND	102	70-130	1.07	20	
o-Xylene	0.101	0.002	"	0.100	ND	101	70-130	2.50	20	
Naphthalene	0.110	0.007	"	0.100	ND	110	70-130	4.28	20	
Surrogate: 1,2-Dichloroethane-d4	72		ug/kg	62.5		115	70-130			
Surrogate: Toluene-d8	62		"	62.5		100	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		104	70-130			

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

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch USX AA
#23-12,13,14

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 B6F0905 - EPA 3580

Blank (B6F0905-BLK1)

Prepared: 06/09/2016 Analyzed: 06/09/2016

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

35

"

50.0

70.4

59-131

Blank (B6F0905-BLK2)

Prepared: 06/09/2016 Analyzed: 06/09/2016

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

44

"

50.0

88.3

59-131

LCS (B6F0905-BS1)

Prepared: 06/09/2016 Analyzed: 06/09/2016

Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	64-121			
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Surrogate: o-Terphenyl

44

"

50.0

88.1

59-131

LCS (B6F0905-BS2)

Prepared: 06/09/2016 Analyzed: 06/09/2016

Diesel (C10-C28)	884	50.0	mg/kg	1000		88.4	64-121			
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Surrogate: o-Terphenyl

45

"

50.0

89.3

59-131

Matrix Spike (B6F0905-MS1)

Source: X606098-01

Prepared: 06/09/2016 Analyzed: 06/09/2016

Diesel (C10-C28)	870	50.0	mg/kg	1000	29.3	84.1	53-125			
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Surrogate: o-Terphenyl

45

"

50.0

89.6

59-131

Matrix Spike (B6F0905-MS2)

Source: X606098-02

Prepared: 06/09/2016 Analyzed: 06/09/2016

Diesel (C10-C28)	867	50.0	mg/kg	1000	27.0	84.0	53-125			
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Surrogate: o-Terphenyl

43

"

50.0

85.7

59-131

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 - Wells Ranch USX AA
#23-12,13,14

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 B6F0905 - EPA 3580

Matrix Spike Dup (B6F0905-MSD1)		Source: X606098-01			Prepared: 06/09/2016 Analyzed: 06/09/2016					
Diesel (C10-C28)	921	50.0	mg/kg	1000	29.3	89.2	53-125	5.69	20	
Surrogate: o-Terphenyl	44		"	50.0		88.8	59-131			
Matrix Spike Dup (B6F0905-MSD2)		Source: X606098-02			Prepared: 06/09/2016 Analyzed: 06/09/2016					
Diesel (C10-C28)	715	50.0	mg/kg	1000	27.0	68.8	53-125	19.2	20	
Surrogate: o-Terphenyl	39		"	50.0		78.6	59-131			

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Denver CO 80211

Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch USX AA
#23-12,13,14

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 B6F0906 - NO PREP										
Duplicate (B6F0906-DUP1)	Source: X606086-01				Prepared: 06/09/2016 Analyzed: 06/09/2016					
pH	8.13		pH Units		8.16			0.368	25	
Duplicate (B6F0906-DUP2)	Source: X606086-02				Prepared: 06/09/2016 Analyzed: 06/09/2016					
pH	7.48		pH Units		7.42			0.805	25	
Batch B6F0907 - NO PREP										
Blank (B6F0907-BLK1)	Prepared: 06/09/2016 Analyzed: 06/09/2016									
Specific Conductance (EC)	0.00310		mmhos/cm							
Blank (B6F0907-BLK2)	Prepared: 06/09/2016 Analyzed: 06/09/2016									
Specific Conductance (EC)	0.00260		mmhos/cm							
Duplicate (B6F0907-DUP1)	Source: X606086-01				Prepared: 06/09/2016 Analyzed: 06/09/2016					
Specific Conductance (EC)	0.764		mmhos/cm		0.769			0.652	25	
Duplicate (B6F0907-DUP2)	Source: X606086-02				Prepared: 06/09/2016 Analyzed: 06/09/2016					
Specific Conductance (EC)	0.744		mmhos/cm		0.736			1.08	25	

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4101 Inca Street

Denver CO 80211

Martin C Eckert III

Project Number: [none]

Project: Noble - Wells Ranch USX AA
#23-12,13,14

Notes and Definitions

U Sample is Non-Detect.

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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