

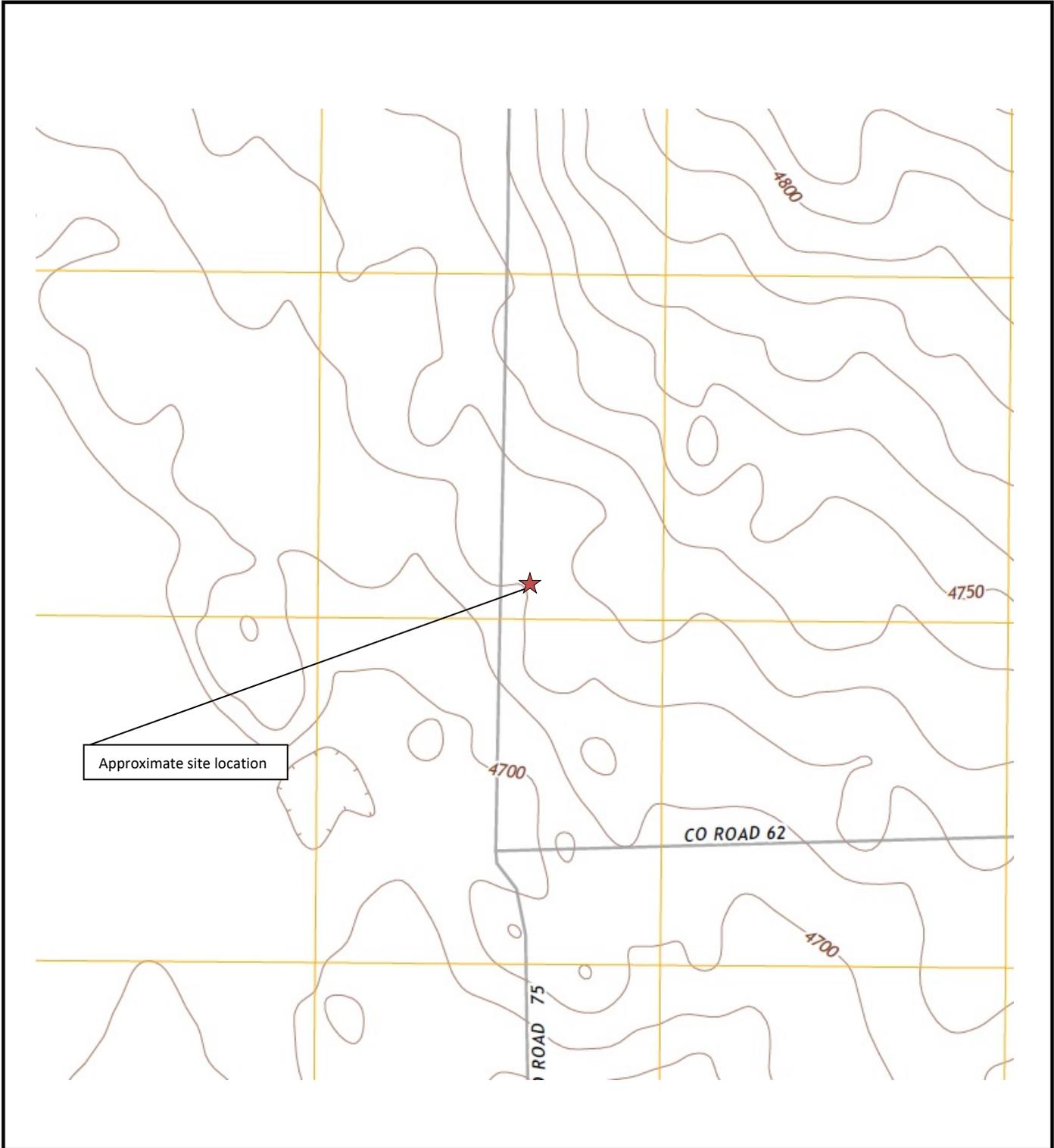


FIGURES

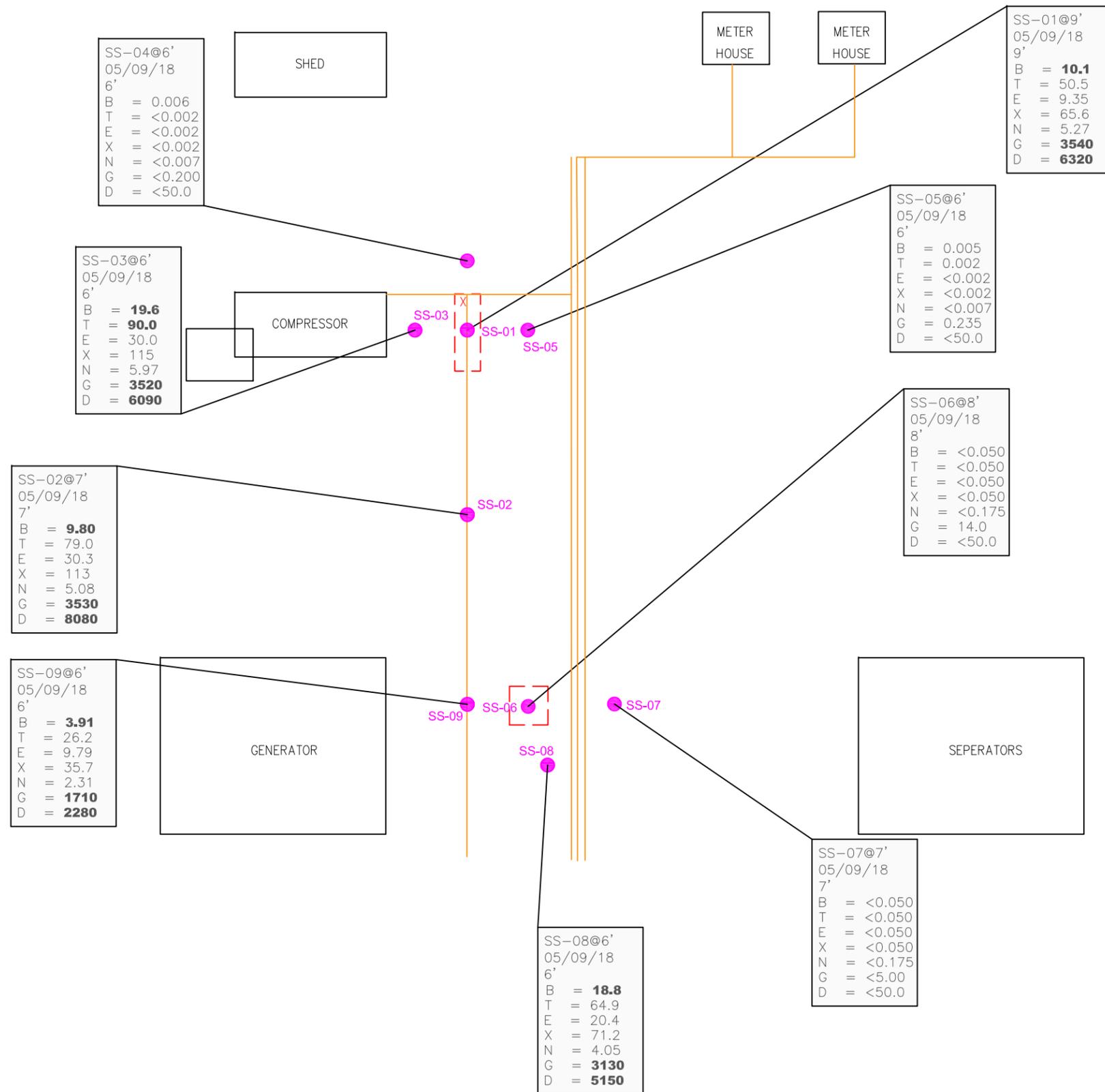
Figure 1: Topographic Site Location Map

Figure 2: Soil Analytical Map

Figure 3: Proposed Soil Delineation Map



	<p align="center"><u>Topographic Site Location Map</u> Wells Ranch AE32 Econode Flow Line Release 40.4440 / -104.3552 SW¼ NW¼ SEC.32 T6N R62W 6PM Weld County, Colorado Spill ID 455000</p>	<p>EAGLE ENVIRONMENTAL CONSULTING, INC.</p>
<p>Source: USGS 7.5 Minute Topographic Map, Point of Rocks, CO Quadrangle 2013</p>	<p align="center">Figure 1</p>	



LEGEND

- X APPROXIMATE RELEASE LOCATION
- APPROXIMATE FLOWLINE LOCATIONS
- - - APPROXIMATE SURFACING/EXCAVATION BOUNDARIES 05/09/18
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

SS-02

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

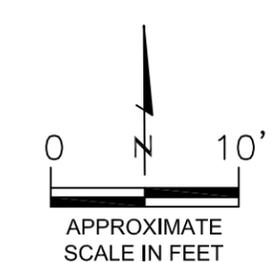
TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS

TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

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

VALUES IN **BOLD** EXCEED COGCC TABLE 910-1 REGULATORY LIMITS.

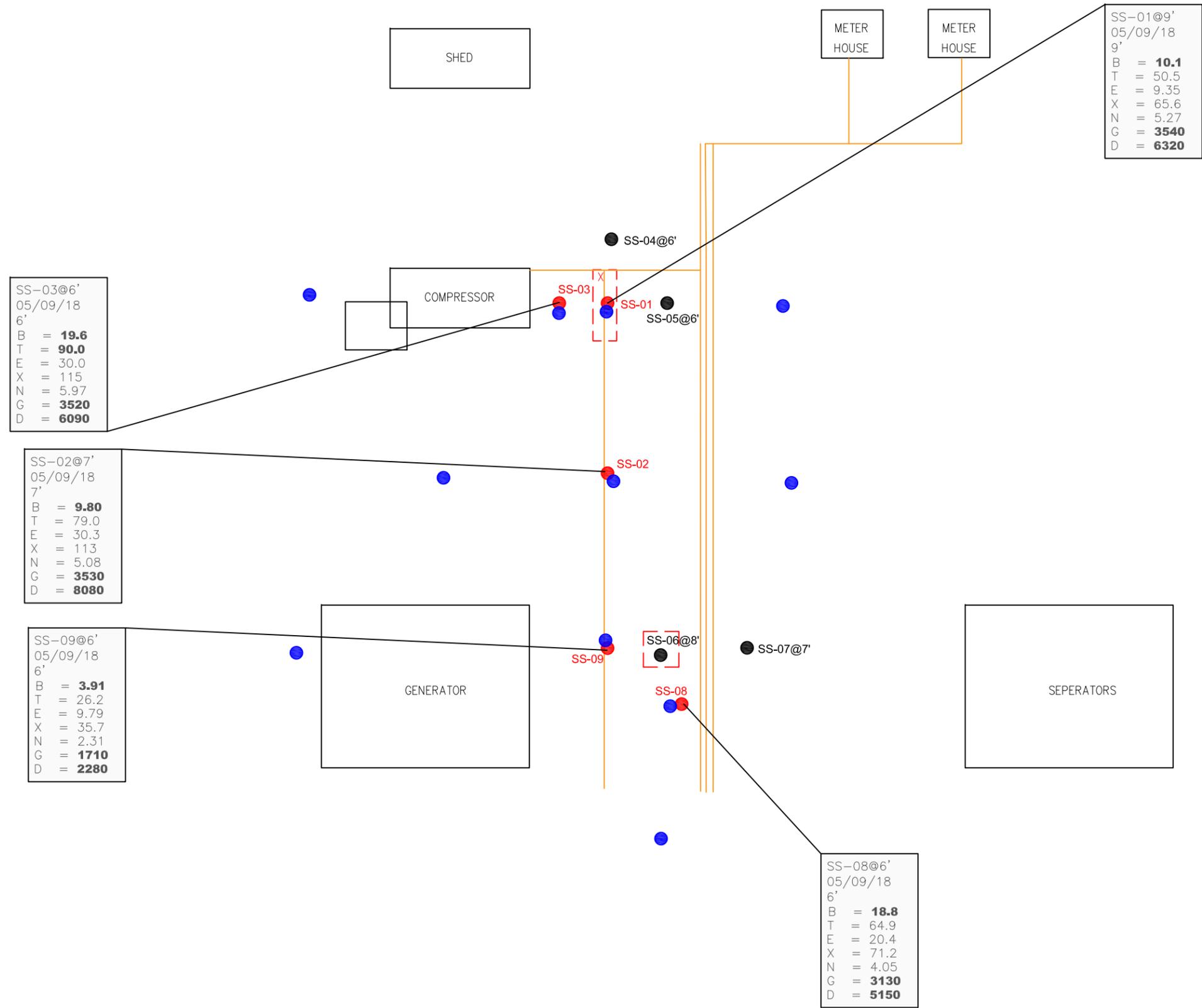
COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION



SOIL ANALYTICAL MAP
WELLS RANCH AE32 ECONODE
FLOW LINE RELEASE
40.4440 / -104.3552
SW1/4 NW1/4 SEC.32 T6N R62W 6PM
WELD COUNTY, COLORADO
SPILL ID 455000

NOTE: AERIAL IMAGE NOT AVAILABLE FOR LOCATION.
DRAWING BASED ON FIELD OBSERVATIONS AND MEASUREMENTS

DATE 11/14/18		<p>EAGLE ENVIRONMENTAL CONSULTING, INC. 4101 INCA STREET, DENVER, CO 80211 Ph: 303-433-0479 • F: 303-325-5449</p>
FIG. NO. 2	DRAWN BY amn	



SS-03@6'
05/09/18
6'
B = **19.6**
T = **90.0**
E = 30.0
X = 115
N = 5.97
G = **3520**
D = **6090**

SS-02@7'
05/09/18
7'
B = **9.80**
T = 79.0
E = 30.3
X = 113
N = 5.08
G = **3530**
D = **8080**

SS-09@6'
05/09/18
6'
B = **3.91**
T = 26.2
E = 9.79
X = 35.7
N = 2.31
G = **1710**
D = **2280**

SS-01@9'
05/09/18
9'
B = **10.1**
T = 50.5
E = 9.35
X = 65.6
N = 5.27
G = **3540**
D = **6320**

SS-08@6'
05/09/18
6'
B = **18.8**
T = 64.9
E = 20.4
X = 71.2
N = 4.05
G = **3130**
D = **5150**

- LEGEND**
- X APPROXIMATE RELEASE LOCATION
 - APPROXIMATE FLOWLINE LOCATIONS
 - - - APPROXIMATE SURFACING/EXCAVATION BOUNDARIES 05/09/18
 - APPROXIMATE LOCATION OF INITIAL SOIL SAMPLES BELOW COGCC TABLE 910-1 REGULATORY LIMITS
 - SS-02
 - APPROXIMATE LOCATION OF INITIAL SOIL SAMPLES ABOVE COGCC TABLE 910-1 REGULATORY LIMITS
 - SS-02

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

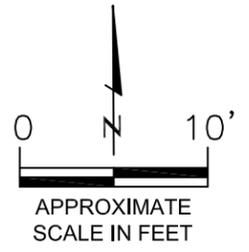
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS

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

VALUES IN **BOLD** EXCEED COGCC TABLE 910-1 REGULATORY LIMITS.

COGCC - COLORADO OIL AND GAS CONSERVATION COMMISSION

● PROPOSED SOIL SAMPLES/DELINEATION LOCATIONS



PROPOSED SOIL DELINEATION MAP
WELLS RANCH AE32 ECONODE
FLOW LINE RELEASE
40.4440 / -104.3552
SW1/4 NW1/4 SEC.32 T6N R62W 6PM
WELD COUNTY, COLORADO
SPILL ID 455000

NOTE: AERIAL IMAGE NOT AVAILABLE FOR LOCATION.
DRAWING BASED ON FIELD OBSERVATIONS AND MEASUREMENTS

DATE	11/14/18
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



May 10, 2018

Eagle Environmental Consulting, Inc.

Martin C Eckert III

4101 Inca Street

Denver

CO 80211

**Project Name - Noble - Wells Ranch AE32
Econode**

Project Number - [none]

Attached are your analytical results for Noble - Wells Ranch AE32 Econode received by Origins Laboratory, Inc. May 09, 2018. This project is associated with Origins project number Y805148-01.

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 AE32 Econode

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-01 @ 9'	Y805148-01	Soil	May 9, 2018 12:25	05/09/2018 15:16
SS-02 @ 7'	Y805148-02	Soil	May 9, 2018 10:58	05/09/2018 15:16
SS-03 @ 6'	Y805148-03	Soil	May 9, 2018 11:34	05/09/2018 15:16
SS-04 @ 6'	Y805148-04	Soil	May 9, 2018 11:18	05/09/2018 15:16
SS-05 @ 6'	Y805148-05	Soil	May 9, 2018 11:15	05/09/2018 15:16
SS-06 @ 8'	Y805148-06	Soil	May 9, 2018 11:45	05/09/2018 15:16
SS-07 @ 7'	Y805148-07	Soil	May 9, 2018 11:54	05/09/2018 15:16
SS-08 @ 6'	Y805148-08	Soil	May 9, 2018 12:09	05/09/2018 15:16
SS-09 @ 6'	Y805148-09	Soil	May 9, 2018 12:39	05/09/2018 15:16

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 AE32 Econode

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1905148

Client: Eagle

Client Project ID: Noble - Wells Ranch AE32 Econode

Checklist Completed by: JG

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/9/2018

Airbill #: N/A

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

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

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⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	/	/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)		/		
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)

Date/Time Reviewed 5/9/18

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 AE32 Econode

SS-01 @ 9'
5/9/2018 12:25:00PM

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

Origins Laboratory, Inc.
Y805148-01 (Soil)

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

Diesel (C10-C28)	6320	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018
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Surrogate: <i>o</i> -Terphenyl	84.3 %	59-131			"	"	"
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GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	3540	500	mg/kg	2500	B8E0907	05/09/2018	05/10/2018
Benzene	10.1	4.98	"	"	"	"	"
Toluene	50.5	4.98	"	"	"	"	"
Ethylbenzene	9.35	4.98	"	"	"	"	"
Xylenes, total	65.6	4.98	"	"	"	"	"
Naphthalene	5.27	0.175	"	25	"	"	05/09/2018

Surrogate: 1,2-Dichloroethane-d4	92.2 %	70-130			"	"	05/10/2018
Surrogate: Toluene-d8	83.8 %	70-130			"	"	05/09/2018
Surrogate: 4-Bromofluorobenzene	100 %	70-130			"	"	05/10/2018

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 AE32 Econode

SS-02 @ 7'
5/9/2018 10:58:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805148-02 (Soil)

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

Diesel (C10-C28)	8080	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	
Surrogate: o-Terphenyl	108 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	3530	500	mg/kg	2500	B8E0907	05/09/2018	05/10/2018	
Benzene	9.80	4.98	"	"	"	"	"	
Toluene	79.0	4.98	"	"	"	"	"	
Ethylbenzene	30.3	4.98	"	"	"	"	"	
Xylenes, total	113	4.98	"	"	"	"	"	
Naphthalene	5.08	0.175	"	25	"	"	05/09/2018	
Surrogate: 1,2-Dichloroethane-d4	126 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.8 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.0 %	70-130			"	"	05/10/2018	

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 AE32 Econode

SS-03 @ 6'
5/9/2018 11:34:00AM

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

Origins Laboratory, Inc.
Y805148-03 (Soil)

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

Diesel (C10-C28)	6090	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	
Surrogate: <i>o</i> -Terphenyl	88.8 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	3520	500	mg/kg	2500	B8E0907	05/09/2018	05/10/2018	
Benzene	19.6	4.98	"	"	"	"	"	
Toluene	90.0	4.98	"	"	"	"	"	
Ethylbenzene	30.0	4.98	"	"	"	"	"	
Xylenes, total	115	4.98	"	"	"	"	"	
Naphthalene	5.97	0.175	"	25	"	"	05/09/2018	
Surrogate: 1,2-Dichloroethane-d4	99.8 %	70-130			"	"	05/10/2018	
Surrogate: Toluene-d8	97.7 %	70-130			"	"	05/09/2018	
Surrogate: 4-Bromofluorobenzene	97.6 %	70-130			"	"	05/10/2018	

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 AE32 Econode

SS-04 @ 6'
5/9/2018 11:18:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805148-04 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	U
Surrogate: o-Terphenyl	94.4 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	0.200	mg/kg	1	B8E0907	05/09/2018	05/10/2018	U
Benzene	0.006	0.002	"	"	"	"	"	
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	105 %	70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	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 AE32 Econode

SS-05 @ 6'
5/9/2018 11:15:00AM

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

Origins Laboratory, Inc.
Y805148-05 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	U
Surrogate: o-Terphenyl	97.1 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	0.235	0.200	mg/kg	1	B8E0907	05/09/2018	05/10/2018	
Benzene	0.005	0.002	"	"	"	"	"	
Toluene	0.002	0.002	"	"	"	"	"	
Ethylbenzene	ND	0.002	"	"	"	"	"	U
Xylenes, total	ND	0.002	"	"	"	"	"	U
Napthalene	ND	0.007	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	108 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.0 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	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 AE32 Econode

SS-06 @ 8'
5/9/2018 11:45:00AM

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

Origins Laboratory, Inc.
Y805148-06 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	U
<i>Surrogate: o-Terphenyl</i>	106 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	14.0	5.00	mg/kg	25	B8E0907	05/09/2018	05/09/2018	
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Napthalene	ND	0.175	"	"	"	"	"	U
<i>Surrogate: 1,2-Dichloroethane-d4</i>	82.4 %	70-130			"	"	"	
<i>Surrogate: Toluene-d8</i>	115 %	70-130			"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>	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 - Wells Ranch AE32 Econode

SS-07 @ 7'
 5/9/2018 11:54:00AM

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

Origins Laboratory, Inc.
 Y805148-07 (Soil)

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

Diesel (C10-C28)	ND	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	U
Surrogate: o-Terphenyl	96.2 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	ND	5.00	mg/kg	25	B8E0907	05/09/2018	05/09/2018	U
Benzene	ND	0.050	"	"	"	"	"	U
Toluene	ND	0.050	"	"	"	"	"	U
Ethylbenzene	ND	0.050	"	"	"	"	"	U
Xylenes, total	ND	0.050	"	"	"	"	"	U
Napthalene	ND	0.175	"	"	"	"	"	U
Surrogate: 1,2-Dichloroethane-d4	86.2 %	70-130			"	"	"	
Surrogate: Toluene-d8	96.3 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	96.6 %	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 AE32 Econode

SS-08 @ 6'
5/9/2018 12:09:00PM

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

Origins Laboratory, Inc.
Y805148-08 (Soil)

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

Diesel (C10-C28)	5150	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	
Surrogate: o-Terphenyl	62.5 %	59-131			"	"	"	

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	3130	50.0	mg/kg	250	B8E0907	05/09/2018	05/10/2018	
Benzene	18.8	0.498	"	"	"	"	"	
Toluene	64.9	0.498	"	"	"	"	"	
Ethylbenzene	20.4	0.498	"	"	"	"	"	
Xylenes, total	71.2	0.498	"	"	"	"	"	
Naphthalene	4.05	0.175	"	25	"	"	05/09/2018	
Surrogate: 1,2-Dichloroethane-d4	121 %	70-130			"	"	"	
Surrogate: Toluene-d8	101 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	97.8 %	70-130			"	"	05/10/2018	

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 AE32 Econode

SS-09 @ 6'
5/9/2018 12:39:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y805148-09 (Soil)

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

Diesel (C10-C28)	2280	50.0	mg/kg	1	B8E0903	05/09/2018	05/09/2018	
Surrogate: <i>o</i> -Terphenyl	184 %	59-131			"	"	"	S-DUP

GBTEX + Napthalene by 8260C

Gasoline Range Hydrocarbons	1710	50.0	mg/kg	250	B8E0907	05/09/2018	05/10/2018	
Benzene	3.91	0.050	"	25	"	"	05/09/2018	
Toluene	26.2	0.498	"	250	"	"	05/10/2018	
Ethylbenzene	9.79	0.498	"	"	"	"	"	
Xylenes, total	35.7	0.498	"	"	"	"	"	
Naphthalene	2.31	0.175	"	25	"	"	05/09/2018	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130			"	"	"	
Surrogate: Toluene-d8	108 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %	70-130			"	"	05/10/2018	

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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 AE32 Econode

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 B8E0907 - EPA 5030 (soil)

Blank (B8E0907-BLK1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

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	66		ug/kg	62.5		105	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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 B8E0907 - EPA 5030 (soil)

Blank (B8E0907-BLK2)

Prepared: 05/09/2018 Analyzed: 05/10/2018

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	68		ug/kg	62.5		109	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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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 B8E0907 - EPA 5030 (soil)

LCS (B8E0907-BS1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

Benzene	0.109	0.002	mg/kg	0.100		109	70-130			
Toluene	0.108	0.002	"	0.100		108	70-130			
Ethylbenzene	0.110	0.002	"	0.100		110	70-130			
m,p-Xylene	0.206	0.004	"	0.200		103	70-130			
o-Xylene	0.105	0.002	"	0.100		105	70-130			
Naphthalene	0.098	0.007	"	0.100		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.4	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		101	70-130			

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 Project: Noble - Wells Ranch AE32 Econode

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 B8E0907 - EPA 5030 (soil)

LCS (B8E0907-BS2)

Prepared: 05/09/2018 Analyzed: 05/10/2018

Benzene	0.114	0.002	mg/kg	0.100		114	70-130			
Toluene	0.112	0.002	"	0.100		112	70-130			
Ethylbenzene	0.115	0.002	"	0.100		115	70-130			
m,p-Xylene	0.215	0.004	"	0.200		108	70-130			
o-Xylene	0.110	0.002	"	0.100		110	70-130			
Naphthalene	0.094	0.007	"	0.100		94.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	66		ug/kg	62.5		106	70-130			
Surrogate: Toluene-d8	60		"	62.5		96.2	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project: Noble - Wells Ranch AE32 Econode

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 B8E0907 - EPA 5030 (soil)

Matrix Spike (B8E0907-MS1)	Source: Y805148-04			Prepared: 05/09/2018 Analyzed: 05/09/2018						
Benzene	0.269	0.002	mg/kg	0.100	0.006	263	70-130			QM-07
Toluene	0.113	0.002	"	0.100	0.001	112	70-130			
Ethylbenzene	0.125	0.002	"	0.100	ND	125	70-130			
m,p-Xylene	0.232	0.004	"	0.200	0.002	115	70-130			
o-Xylene	0.110	0.002	"	0.100	ND	110	70-130			
Naphthalene	0.094	0.007	"	0.100	ND	93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	64		ug/kg	62.5		102	70-130			
Surrogate: Toluene-d8	59		"	62.5		94.8	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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 Project: Noble - Wells Ranch AE32 Econode

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 B8E0907 - EPA 5030 (soil)

Matrix Spike (B8E0907-MS2)	Source: Y805151-01			Prepared: 05/09/2018 Analyzed: 05/09/2018						
Benzene	0.111	0.002	mg/kg	0.100	ND	111	70-130			
Toluene	0.108	0.002	"	0.100	ND	108	70-130			
Ethylbenzene	0.106	0.002	"	0.100	ND	106	70-130			
m,p-Xylene	0.196	0.004	"	0.200	ND	98.0	70-130			
o-Xylene	0.101	0.002	"	0.100	ND	101	70-130			
Naphthalene	0.096	0.007	"	0.100	ND	95.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.7	70-130			
Surrogate: 4-Bromofluorobenzene	63		"	62.5		100	70-130			

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 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

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 B8E0907 - EPA 5030 (soil)

Matrix Spike Dup (B8E0907-MSD1)	Source: Y805148-04			Prepared: 05/09/2018 Analyzed: 05/09/2018						
Benzene	0.243	0.002	mg/kg	0.100	0.006	237	70-130	10.2	20	QM-07
Toluene	0.114	0.002	"	0.100	0.001	113	70-130	0.968	20	
Ethylbenzene	0.121	0.002	"	0.100	ND	121	70-130	2.57	20	
m,p-Xylene	0.227	0.004	"	0.200	0.002	112	70-130	2.26	20	
o-Xylene	0.107	0.002	"	0.100	ND	107	70-130	2.10	20	
Naphthalene	0.093	0.007	"	0.100	ND	93.4	70-130	0.449	20	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	64		"	62.5		102	70-130			

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 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

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 B8E0907 - EPA 5030 (soil)

Matrix Spike Dup (B8E0907-MSD2)	Source: Y805151-01			Prepared: 05/09/2018 Analyzed: 05/09/2018						
Benzene	0.106	0.002	mg/kg	0.100	ND	106	70-130	4.63	20	
Toluene	0.104	0.002	"	0.100	ND	104	70-130	3.60	20	
Ethylbenzene	0.107	0.002	"	0.100	ND	107	70-130	1.13	20	
m,p-Xylene	0.197	0.004	"	0.200	ND	98.5	70-130	0.540	20	
o-Xylene	0.102	0.002	"	0.100	ND	102	70-130	0.907	20	
Naphthalene	0.095	0.007	"	0.100	ND	95.1	70-130	0.503	20	
Surrogate: 1,2-Dichloroethane-d4	63		ug/kg	62.5		100	70-130			
Surrogate: Toluene-d8	60		"	62.5		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	65		"	62.5		103	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

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 B8E0903 - EPA 3550B

Blank (B8E0903-BLK1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 47 " 50.0 95.0 59-131

Blank (B8E0903-BLK2)

Prepared: 05/09/2018 Analyzed: 05/09/2018

Diesel (C10-C28) ND 50.0 mg/kg U

Surrogate: o-Terphenyl 48 " 50.0 96.8 59-131

LCS (B8E0903-BS1)

Prepared: 05/09/2018 Analyzed: 05/09/2018

Diesel (C10-C28) 996 50.0 mg/kg 1000 99.6 64-121

Surrogate: o-Terphenyl 55 " 50.0 109 59-131

LCS (B8E0903-BS2)

Prepared: 05/09/2018 Analyzed: 05/09/2018

Diesel (C10-C28) 975 50.0 mg/kg 1000 97.5 64-121

Surrogate: o-Terphenyl 59 " 50.0 117 59-131

Matrix Spike (B8E0903-MS1)

Source: Y805128-02

Prepared: 05/09/2018 Analyzed: 05/10/2018

Diesel (C10-C28) 1070 50.0 mg/kg 1000 25.5 104 53-125

Surrogate: o-Terphenyl 57 " 50.0 114 59-131

Matrix Spike (B8E0903-MS2)

Source: Y805148-04

Prepared: 05/09/2018 Analyzed: 05/09/2018

Diesel (C10-C28) 979 50.0 mg/kg 1000 ND 97.9 53-125

Surrogate: o-Terphenyl 49 " 50.0 98.0 59-131

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 Project Number: [none]
 Project: Noble - Wells Ranch AE32 Econode

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 B8E0903 - EPA 3550B										
Matrix Spike Dup (B8E0903-MSD1)		Source: Y805128-02			Prepared: 05/09/2018 Analyzed: 05/10/2018					
Diesel (C10-C28)	974	50.0	mg/kg	1000	25.5	94.8	53-125	9.41	20	
Surrogate: o-Terphenyl	63		"	50.0		126	59-131			
Matrix Spike Dup (B8E0903-MSD2)		Source: Y805148-04			Prepared: 05/09/2018 Analyzed: 05/09/2018					
Diesel (C10-C28)	963	50.0	mg/kg	1000	ND	96.3	53-125	1.70	20	
Surrogate: o-Terphenyl	51		"	50.0		102	59-131			

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Eagle Environmental Consulting, Inc.
4101 Inca Street
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Martin C Eckert III
Project Number: [none]
Project: Noble - Wells Ranch AE32 Econode

Notes and Definitions

U Sample is Non-Detect.

S-DUP Duplicate analysis confirmed surrogate failure due to matrix effects.

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.

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