



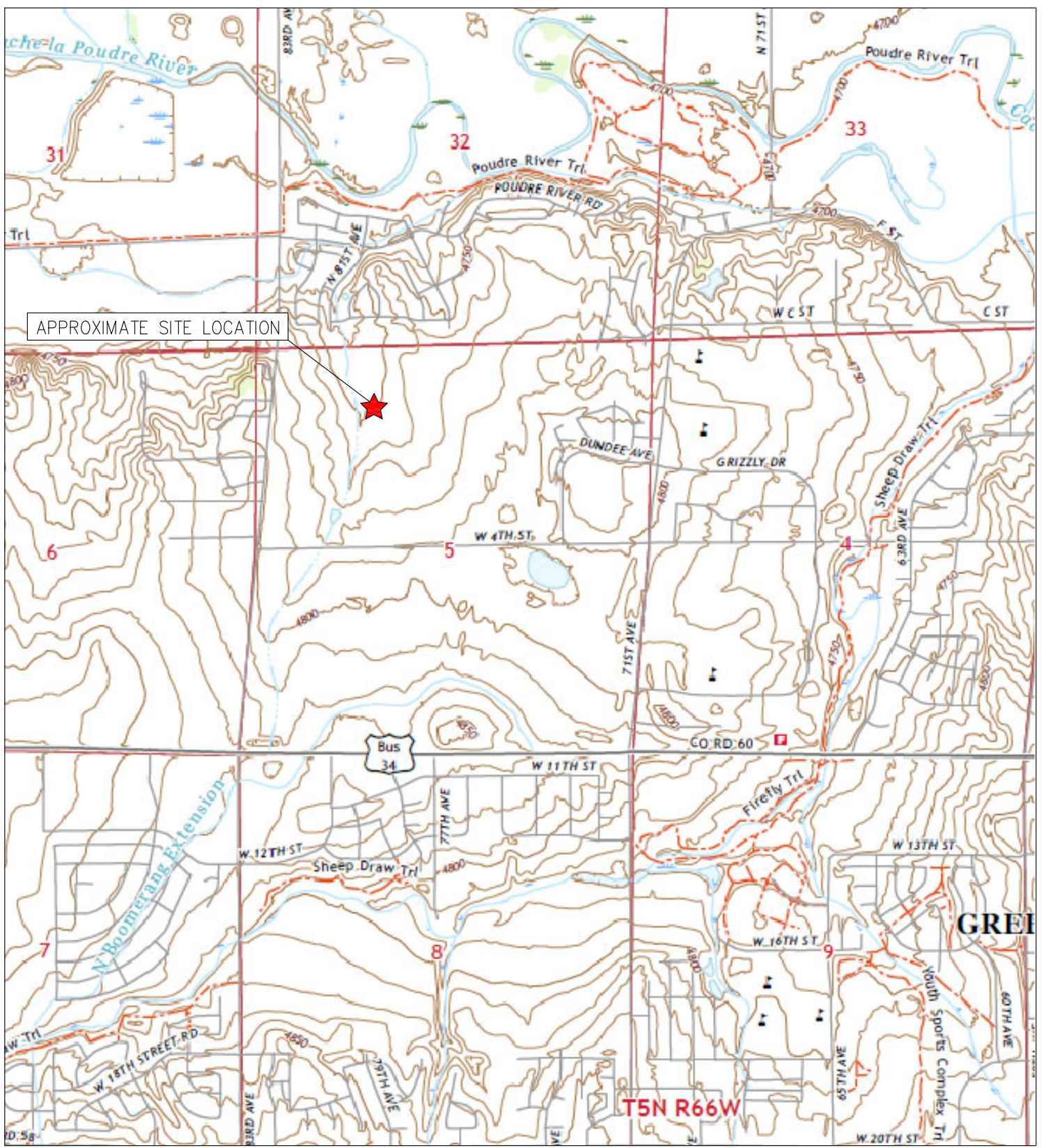
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Analytical Map



APPROXIMATE SITE LOCATION



TOPOGRAPHIC SITE LOCATION MAP
 WEDEMAN #29-5
 CLOSURE ASSESSMENT
 40.434165 / -104.807006
 NE¼ NW¼ SEC.5 T5N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-32056
 REMEDIATION # 25470



EAGLE
 ENVIRONMENTAL
 CONSULTING, INC.

8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449

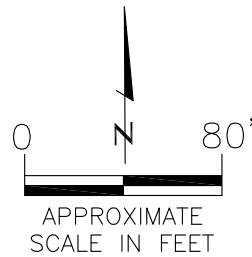
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 BRACEWELL, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER WIEDEMAN #29-5 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 WIEDEMAN #29-5
 CLOSURE ASSESSMENT
 40.434165 / -104.807006
 NE¼ NW¼ SEC.5 T5N R66W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-32056
 REMEDIATION # 25470

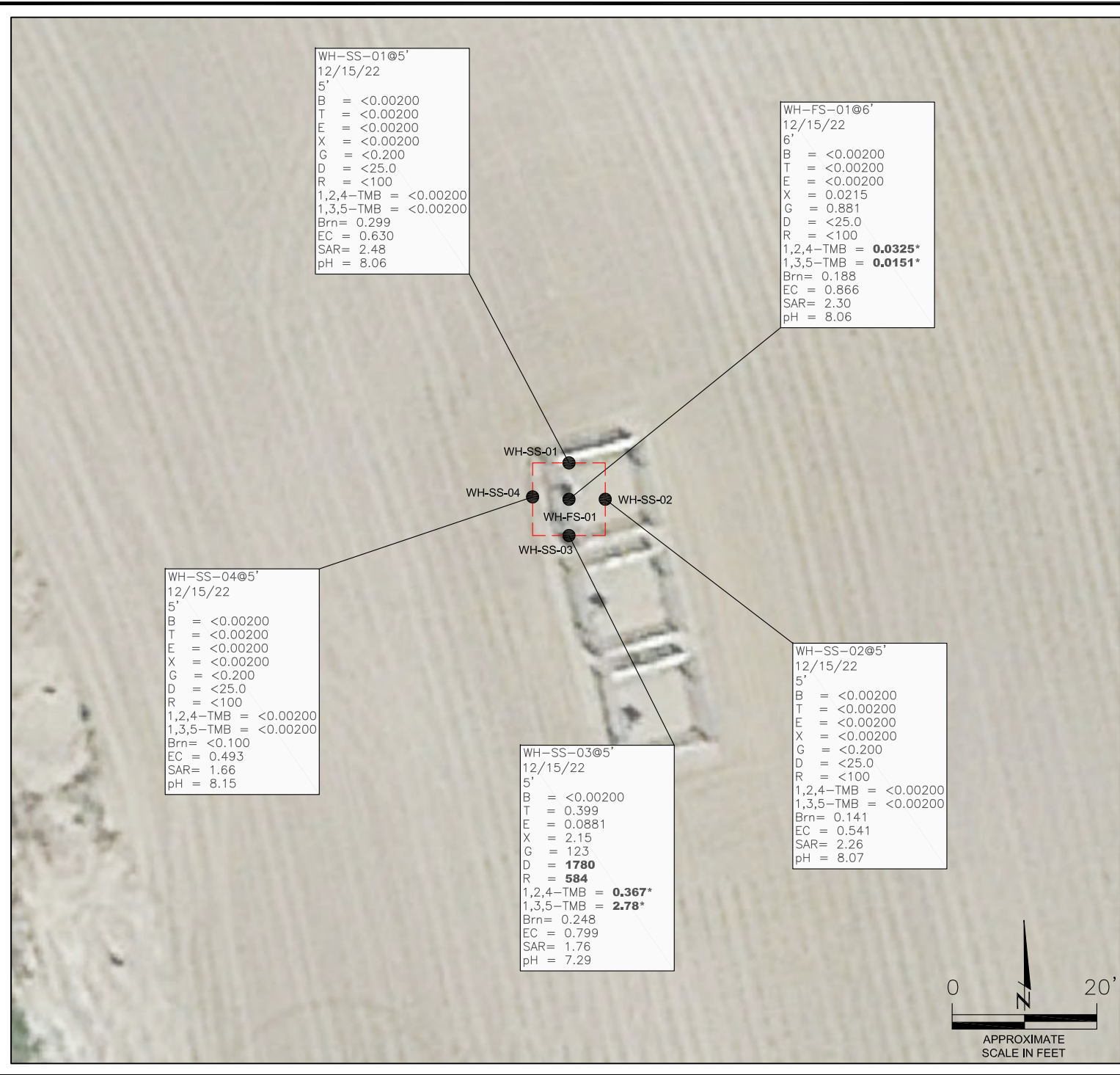
FIGURE NO.
2

DRAWN BY:
GK



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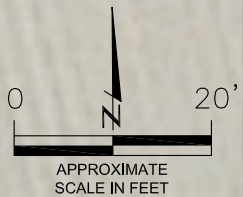
WH-SS-01@5'
12/15/22
5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.299
EC = 0.630
SAR= 2.48
pH = 8.06

WH-FS-01@6'
12/15/22
6'
B = <0.00200
T = <0.00200
E = <0.00200
X = 0.0215
G = 0.881
D = <25.0
R = <100
1,2,4-TMB = **0.0325***
1,3,5-TMB = **0.0151***
Brn= 0.188
EC = 0.866
SAR= 2.30
pH = 8.06

WH-SS-04@5'
12/15/22
5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= <0.100
EC = 0.493
SAR= 1.66
pH = 8.15

WH-SS-03@5'
12/15/22
5'
B = <0.00200
T = 0.399
E = 0.0881
X = 2.15
G = 123
D = **1780**
R = **584**
1,2,4-TMB = **0.367***
1,3,5-TMB = **2.78***
Brn= 0.248
EC = 0.799
SAR= 1.76
pH = 7.29

WH-SS-02@5'
12/15/22
5'
B = <0.00200
T = <0.00200
E = <0.00200
X = <0.00200
G = <0.200
D = <25.0
R = <100
1,2,4-TMB = <0.00200
1,3,5-TMB = <0.00200
Brn= 0.141
EC = 0.541
SAR= 2.26
pH = 8.07



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- 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)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS - GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS - DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS - RESIDUAL RANGE ORGANICS

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS

VALUES PRESENTED WITH ASTERISK (*) EXCEED COGCC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS

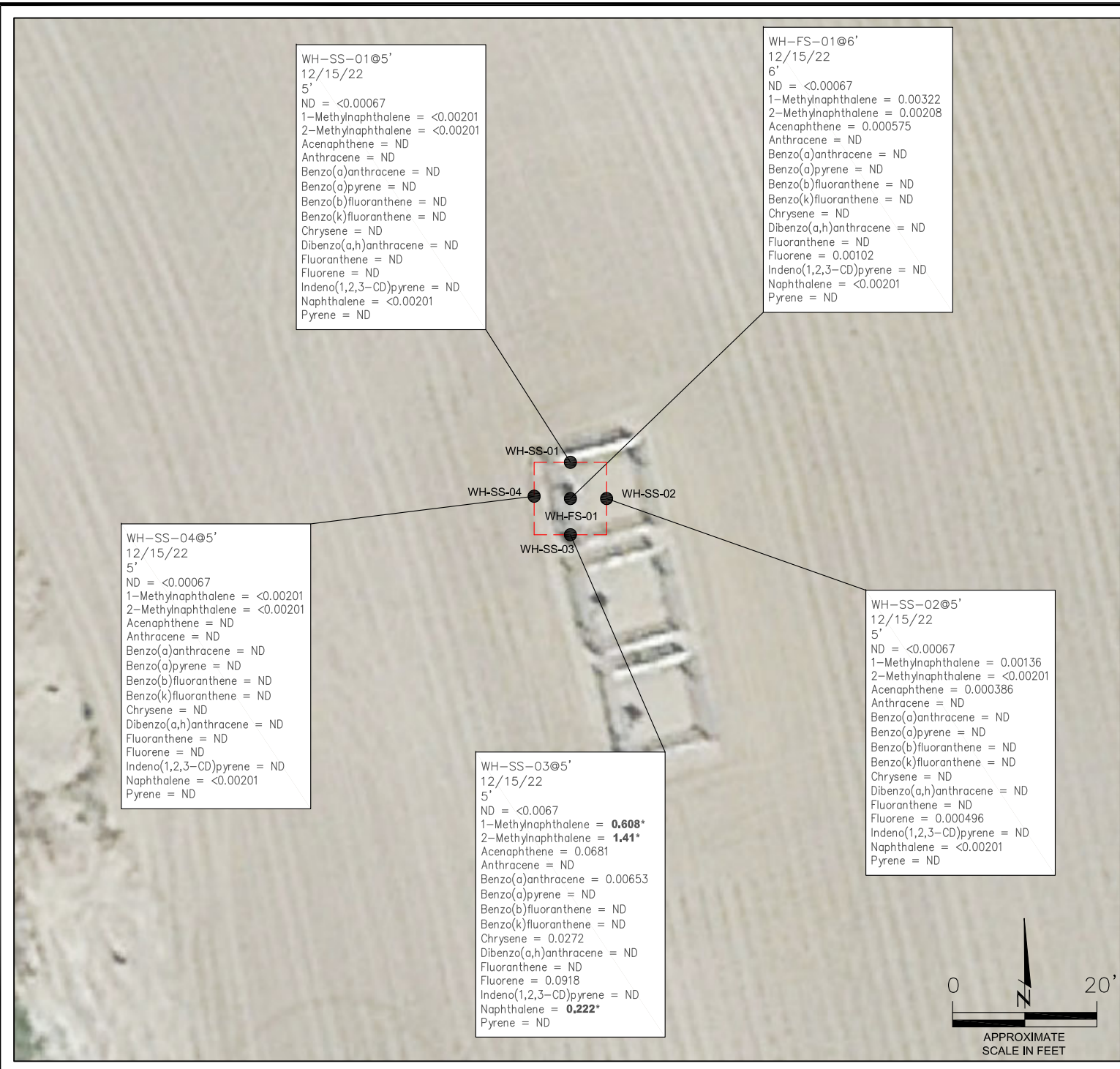
COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
WEDEMAN #29-5
CLOSURE ASSESSMENT
40.434165 / -104.807006
NE¼ NW¼ SEC.5 T5N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-32056
REMEDIATION # 25470

DRAWN BY:
KM

FIGURE NO.
3

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CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



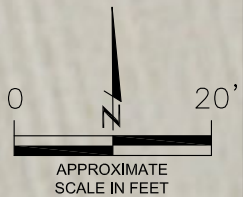
WH-SS-01@5'
12/15/22
5'
ND = <0.00067
1-Methylnaphthalene = <0.00201
2-Methylnaphthalene = <0.00201
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = <0.00201
Pyrene = ND

WH-FS-01@6'
12/15/22
6'
ND = <0.00067
1-Methylnaphthalene = 0.00322
2-Methylnaphthalene = 0.00208
Acenaphthene = 0.000575
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = 0.00102
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = <0.00201
Pyrene = ND

WH-SS-04@5'
12/15/22
5'
ND = <0.00067
1-Methylnaphthalene = <0.00201
2-Methylnaphthalene = <0.00201
Acenaphthene = ND
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = ND
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = <0.00201
Pyrene = ND

WH-SS-03@5'
12/15/22
5'
ND = <0.00067
1-Methylnaphthalene = **0.608***
2-Methylnaphthalene = **1.41***
Acenaphthene = 0.0681
Anthracene = ND
Benzo(a)anthracene = 0.00653
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = 0.0272
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = 0.0918
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = **0.222***
Pyrene = ND

WH-SS-02@5'
12/15/22
5'
ND = <0.00067
1-Methylnaphthalene = 0.00136
2-Methylnaphthalene = <0.00201
Acenaphthene = 0.000386
Anthracene = ND
Benzo(a)anthracene = ND
Benzo(a)pyrene = ND
Benzo(b)fluoranthene = ND
Benzo(k)fluoranthene = ND
Chrysene = ND
Dibenzo(a,h)anthracene = ND
Fluoranthene = ND
Fluorene = 0.000496
Indeno(1,2,3-CD)pyrene = ND
Naphthalene = <0.00201
Pyrene = ND



LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE SAMPLE COLLECTED
APPROXIMATE DEPTH
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM

ND = NON-DETECT

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

VALUES PRESENTED IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS

VALUES PRESENTED WITH AN ASTERISK (*) EXCEED COGCC TABLE 915-1 GROUNDWATER SOIL SCREENING LEVELS

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP

WIEDEMAN #29-5
CLOSURE ASSESSMENT
40.434165 / -104.807006
NE¼ NW¼ SEC.5 T5N R66W 6PM
WELD COUNTY, COLORADO
API # 05-123-32056
REMEDIATION # 25470

DRAWN BY:
KM

FIGURE NO.
4

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CONSULTING, INC.
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Ph: 303-433-0479 • F: 303-325-5449



ATTACHMENT A

Photolog

Wiedeman #29-5
API # 05-123-32056
Remediation # 25470

Closure Assessment

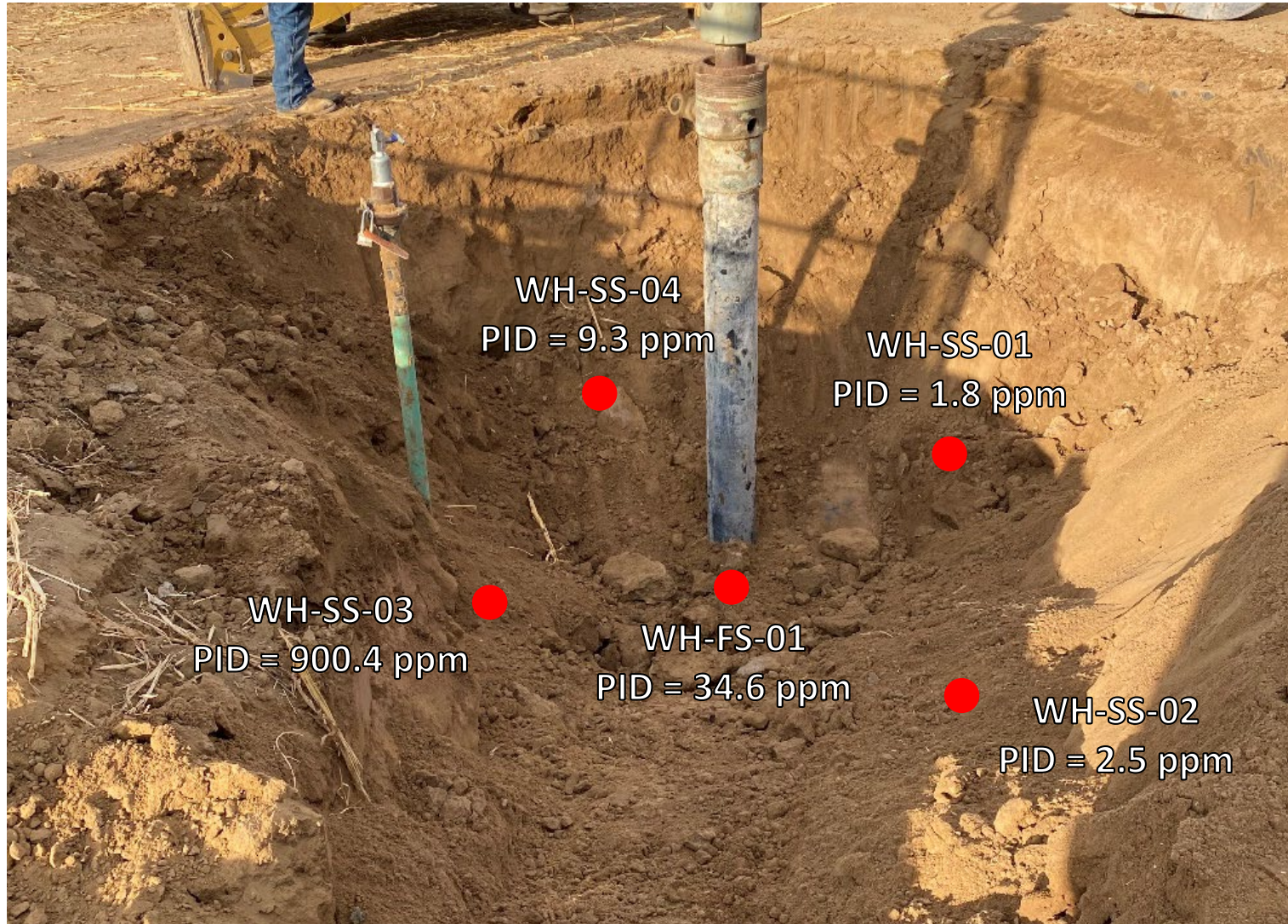
December 2022



EAGLE
ENVIRONMENTAL
CONSULTING, INC.
8000 W 44th Ave, Wheat Ridge, CO 80033
Ph: 303-433-0479 • F: 303-325-5449



Wellhead Excavation – 12/15/22



Looking west-northwest

Strong petroleum hydrocarbon odor observed on south sidewall



ATTACHMENT B

Laboratory Analytical Report



December 29, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Wiedeman #29-5

Project Number - [none]

Attached are your analytical results for Noble - Wiedeman #29-5 received by Origins Laboratory, Inc. December 15, 2022. This project is associated with Origins project number Y212368-01.

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.
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wiedeman #29-5

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-SS-01@5'	Y212368-01	Soil	December 15, 2022 9:40	12/15/2022 16:00
WH-SS-02@5'	Y212368-02	Soil	December 15, 2022 9:41	12/15/2022 16:00
WH-SS-03@5'	Y212368-03	Soil	December 15, 2022 9:42	12/15/2022 16:00
WH-SS-04@5'	Y212368-04	Soil	December 15, 2022 9:43	12/15/2022 16:00
WH-FS-01@6'	Y212368-05	Soil	December 15, 2022 9:45	12/15/2022 16:00

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4212308

Client: Eagle

Client Project ID: Wiedeman #29-5

Checklist Completed by: EH/DE

Shipped Via: HD

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

Date/time completed: 12/15/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 / 0.3 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: T004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	X			
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		
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⁾ ?	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) _____

12/16/12
 Date/Time Reviewed

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-01@5'

12/15/2022 9:40:00AM

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

Origins Laboratory, Inc.
Y212368-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.299		0.100	mg/L	1	B2L1914	12/19/2022	12/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2L1601	12/16/2022	12/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	72.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2L1638	12/16/2022	12/21/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	105 %		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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-01@5'

12/15/2022 9:40:00AM

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

Origins Laboratory, Inc.
Y212368-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	88.4 %		70-130			B2L16 38	12/16/2022	12/21/2022	
Surrogate: 4-Bromofluorobenzene	85.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.01		0.499	meq/L	10	[CALC]	12/19/2022	12/20/2022	
Magnesium	0.898		0.823	"	"	"	"	"	
Sodium	2.98		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L654790	12/22/2022	12/24/2022	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-01@5'

12/15/2022 9:40:00AM

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

Waypoint Analytical, LLC.
Y212368-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L654790	12/22/2022	12/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	44.4 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	55 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B2L1915	12/19/2022	12/20/2022	
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SAR by 20B Saturated Paste

SAR	2.48			SAR	1	B2L1912	12/19/2022	12/20/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.630		0.00500	mmhos/cm	1	B2L1915	12/19/2022	12/20/2022	
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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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-02@5'

12/15/2022 9:41:00AM

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

Origins Laboratory, Inc.
Y212368-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.141		0.100	mg/L	1	B2L1914	12/19/2022	12/20/2022	
-------	-------	--	-------	------	---	---------	------------	------------	--

DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2L1601	12/16/2022	12/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	68.3 %		50-150			"	"	"	
------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2L1638	12/16/2022	12/21/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	104 %		70-130			"	"	"	
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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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-02@5'

12/15/2022 9:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212368-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	88.6 %		70-130			B2L16 38	12/16/2022	12/21/2022	
Surrogate: 4-Bromofluorobenzene	85.2 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.56		0.499	meq/L	10	[CALC]	12/19/2022	12/20/2022	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.41		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00136	0.00109	0.00201	mg/Kg	1	L654790	12/22/2022	12/24/2022	J
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000386	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-02@5'

12/15/2022 9:41:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212368-02 (Soil)

PAH by 8270D SIM

Fluorene	0.000496	0.000286	0.00067	mg/Kg	1	L654790	12/22/2022	12/24/2022	J
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	54.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	59.2 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	54.7 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.07			pH Units	1	B2L1915	12/19/2022	12/20/2022	
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SAR by 20B Saturated Paste

SAR	2.26			SAR	1	B2L1912	12/19/2022	12/20/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.541		0.00500	mmhos/cm	1	B2L1915	12/19/2022	12/20/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-03@5'
12/15/2022 9:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212368-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.248		0.100	mg/L	1	B2L1914	12/19/2022	12/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1780		25.0	mg/kg	1	B2L1601	12/16/2022	12/19/2022	
Residual Range Organics (C28-C40)	584		100	"	"	"	"	"	

Surrogate: o-Terphenyl	83.2 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.367		0.0500	mg/kg	25	B2L1638	12/16/2022	12/27/2022	
1,3,5-Trimethylbenzene	2.78		0.0500	"	"	"	"	"	
Benzene	ND		0.00200	"	1	"	"	12/21/2022	U
Ethylbenzene	0.0881		0.00200	"	"	"	"	"	
Toluene	0.399		0.00200	"	"	"	"	"	
Xylenes, total	2.15		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	123		5.00	"	25	"	"	12/27/2022	

Surrogate: 1,2-Dichloroethane-d4	110 %		70-130			"	"	12/21/2022	
Surrogate: Toluene-d8	84.6 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	150 %		70-130			"	"	"	S-GC

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-03@5'

12/15/2022 9:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212368-03 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	3.19		0.499	meq/L	10	[CALC]	12/19/2022	12/20/2022	
Magnesium	1.04		0.823	"	"	"	"	"	
Sodium	2.55		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.608	0.0109	0.0201	mg/Kg	10	L654790	12/22/2022	12/24/2022	
2-Methylnaphthalene	1.14	0.0194	0.0201	"	"	"	"	"	
Acenaphthene	0.0681	0.00304	0.0067	"	"	"	"	"	
Anthracene	ND	0.00334	0.0067	"	"	"	"	"	
Benzo(a)anthracene	0.00653	0.00493	0.0067	"	"	"	"	"	J
Benzo(a)pyrene	ND	0.00468	0.0067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.00585	0.0067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.00437	0.0067	"	"	"	"	"	
Chrysene	0.0272	0.00624	0.0067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.00614	0.0067	"	"	"	"	"	
Fluoranthene	ND	0.00394	0.0067	"	"	"	"	"	
Fluorene	0.0918	0.00286	0.0067	"	"	"	"	"	
Indeno(1,2,3-cd)pyrene	ND	0.00627	0.0067	"	"	"	"	"	
Naphthalene	0.222	0.0145	0.0201	"	"	"	"	"	
Pyrene	ND	0.00643	0.0067	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl	56.7 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	58.3 %		33-122			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-03@5'

12/15/2022 9:42:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212368-03 (Soil)

PAH by 8270D SIM

Surrogate: Nitrobenzene-d5	56.4 %		29-110			L6547 90	12/22/2022	12/24/2022	
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pH in Soil by 9045D

pH	7.29			pH Units	1	B2L1915	12/19/2022	12/20/2022	
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SAR by 20B Saturated Paste

SAR	1.76			SAR	1	B2L1912	12/19/2022	12/20/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.799		0.00500	mmhos/cm	1	B2L1915	12/19/2022	12/20/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-04@5'

12/15/2022 9:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212368-04 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		0.100	mg/L	1	B2L1914	12/19/2022	12/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2L1601	12/16/2022	12/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	73.5 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2L1638	12/16/2022	12/21/2022	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-04@5'

12/15/2022 9:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212368-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	88.6 %		70-130			B2L16 38	12/16/2022	12/21/2022	
Surrogate: 4-Bromofluorobenzene	84.8 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.59		0.499	meq/L	10	[CALC]	12/19/2022	12/20/2022	
Magnesium	0.865		0.823	"	"	"	"	"	
Sodium	1.83		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L654790	12/22/2022	12/24/2022	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-SS-04@5'

12/15/2022 9:43:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212368-04 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L654790	12/22/2022	12/24/2022	
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	49.1 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	57.9 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	51.2 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.15			pH Units	1	B2L1915	12/19/2022	12/20/2022	
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SAR by 20B Saturated Paste

SAR	1.66			SAR	1	B2L1912	12/19/2022	12/20/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.493		0.00500	mmhos/cm	1	B2L1915	12/19/2022	12/20/2022	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-FS-01@6'

12/15/2022 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y212368-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.188		0.100	mg/L	1	B2L1914	12/19/2022	12/20/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B2L1601	12/16/2022	12/17/2022	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	73.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0325		0.00200	mg/kg	1	B2L1638	12/16/2022	12/21/2022	
1,3,5-Trimethylbenzene	0.0151		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0215		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	0.881		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	102 %		70-130			"	"	"	
Surrogate: Toluene-d8	88.5 %		70-130			"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-FS-01@6'

12/15/2022 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y212368-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	85.1 %		70-130			B2L16 38	12/16/2022	12/21/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	2.70		0.499	meq/L	10	[CALC]	12/19/2022	12/20/2022	
Magnesium	1.54		0.823	"	"	"	"	"	
Sodium	3.35		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	0.00322	0.00109	0.00201	mg/Kg	1	L654790	12/22/2022	12/24/2022	
2-Methylnaphthalene	0.00208	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	0.000575	0.000304	0.00067	"	"	"	"	"	J
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	
Fluoranthene	ND	0.000394	0.00067	"	"	"	"	"	
Fluorene	0.00102	0.000286	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

WH-FS-01@6'

12/15/2022 9:45:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y212368-05 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L654790	12/22/2022	12/24/2022	
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	46.8 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	52 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	46.8 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.06			pH Units	1	B2L1915	12/19/2022	12/20/2022	
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SAR by 20B Saturated Paste

SAR	2.30			SAR	1	B2L1912	12/19/2022	12/20/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.866		0.00500	mmhos/cm	1	B2L1915	12/19/2022	12/20/2022	
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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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L1601 - EPA 3580										
Blank (B2L1601-BLK1)										
					Prepared: 12/16/2022 Analyzed: 12/16/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	20		"	24.9		81.9	50-150			

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.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Extractable Petroleum Hydrocarbons by 8015D - 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 B2L1601 - EPA 3580

LCS (B2L1601-BS1)

Prepared: 12/16/2022 Analyzed: 12/16/2022

Diesel (C10-C28)	1020	50.0	mg/kg	1000		102	70-130			
Residual Range Organics (C28-C40)	878	200	"	1000		87.8	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, Inc.
 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Extractable Petroleum Hydrocarbons by 8015D - 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 B2L1601 - EPA 3580

Matrix Spike (B2L1601-MS1)	Source: Y212338-01			Prepared: 12/16/2022 Analyzed: 12/16/2022						
Diesel (C10-C28)	1030	50.0	mg/kg	1000	ND	103	70-130			
Residual Range Organics (C28-C40)	861	200	"	1000	ND	86.1	70-130			
Surrogate: o-Terphenyl	36		"	49.8		71.8	50-150			

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Extractable Petroleum Hydrocarbons by 8015D - 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 B2L1601 - EPA 3580

Matrix Spike Dup (B2L1601-MSD1)	Source: Y212338-01			Prepared: 12/16/2022 Analyzed: 12/16/2022						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130	1.87	35	
Residual Range Organics (C28-C40)	850	200	"	1000	ND	85.0	70-130	1.34	35	
<i>Surrogate: o-Terphenyl</i>	36		"	49.8		72.6	50-150			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Extractable Petroleum Hydrocarbons by 8015D - 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 B2L1638 - EPA 5030 (soil)

Blank (B2L1638-BLK1)

Prepared: 12/16/2022 Analyzed: 12/21/2022

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125	96.7		70-130			
Surrogate: Toluene-d8	0.11		"	0.125	89.1		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	85.8		70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2L1638 - EPA 5030 (soil)

LCS (B2L1638-BS1)

Prepared: 12/16/2022 Analyzed: 12/21/2022

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Benzene	0.108	0.00200	"	0.100		108	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.111	0.00380	"	0.100		111	70-130			
Toluene	0.102	0.00200	"	0.100		102	70-130			
o-Xylene	0.0978	0.00200	"	0.100		97.8	70-130			
m,p-Xylene	0.200	0.00400	"	0.200		99.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		97.1	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.0	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		84.6	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2L1638 - EPA 5030 (soil)

Matrix Spike (B2L1638-MS1)	Source: Y212362-01			Prepared: 12/16/2022 Analyzed: 12/21/2022						
1,2,4-Trimethylbenzene	0.0921	0.00200	mg/kg	0.100	ND	92.1	70-130			
1,3,5-Trimethylbenzene	0.0913	0.00200	"	0.100	ND	91.3	70-130			
Benzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Naphthalene	0.0837	0.00380	"	0.100	ND	83.7	70-130			
Toluene	0.0881	0.00200	"	0.100	ND	88.1	70-130			
o-Xylene	0.0864	0.00200	"	0.100	ND	86.4	70-130			
m,p-Xylene	0.173	0.00400	"	0.200	0.00188	85.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		85.7	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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 B2L1638 - EPA 5030 (soil)

Matrix Spike Dup (B2L1638-MSD1)	Source: Y212362-01			Prepared: 12/16/2022 Analyzed: 12/21/2022						
1,2,4-Trimethylbenzene	0.0814	0.00200	mg/kg	0.100	ND	81.4	70-130	12.3	20	
1,3,5-Trimethylbenzene	0.0799	0.00200	"	0.100	ND	79.9	70-130	13.4	20	
Benzene	0.0879	0.00200	"	0.100	ND	87.9	70-130	5.40	20	
Ethylbenzene	0.0774	0.00200	"	0.100	ND	77.4	70-130	14.1	20	
Naphthalene	0.0926	0.00380	"	0.100	ND	92.6	70-130	10.1	20	
Toluene	0.0811	0.00200	"	0.100	ND	81.1	70-130	8.25	20	
o-Xylene	0.0761	0.00200	"	0.100	ND	76.1	70-130	12.6	20	
m,p-Xylene	0.147	0.00400	"	0.200	0.00188	72.3	70-130	16.6	20	
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		102	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		87.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.10		"	0.125		83.9	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Volatile Organic Compounds by GC/MS SW846 8260D - 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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Classical Chemistry Parameters - 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 B2L1912 - Saturated Paste Metals

Blank (B2L1912-BLK1)

Prepared: 12/19/2022 Analyzed: 12/20/2022

SAR	0.00		SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B2L1912-DUP1)

Source: Y212363-03

Prepared: 12/19/2022 Analyzed: 12/20/2022

Calcium PPM	76.8	10.0	mg/L		86.4			11.8	50	
SAR	0.00		SAR		0.870			200	200	
Magnesium PPM	19.6	10.0	mg/L		16.3			18.7	50	
Sodium PPM	38.6	10.0	"		33.6			13.8	50	

Batch B2L1914 - DTPA Sorbitol Preparation

Blank (B2L1914-BLK1)

Prepared: 12/19/2022 Analyzed: 12/20/2022

Boron	ND	0.100	mg/L							
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Duplicate (B2L1914-DUP1)

Source: Y212363-08

Prepared: 12/19/2022 Analyzed: 12/20/2022

Boron	0.147	0.100	mg/L		0.106			32.3	50	
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 Project Number: [none]
 Project: Noble - Wiedeman #29-5

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2L1915 - Saturated Paste pH/EC										
Blank (B2L1915-BLK1)					Prepared: 12/19/2022 Analyzed: 12/20/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2L1915-DUP1)					Source: Y212363-03 Prepared: 12/19/2022 Analyzed: 12/20/2022					
pH	7.48		pH Units		7.74			3.42	25	
Specific Conductance (EC)	0.750	0.00500	mmhos/cm		0.769			2.46	25	

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L654790 - 3550B

MSD (L 84200-MSD-L654790)	Source: 84200			Prepared: 12/22/2022 Analyzed: 12/24/2022						
2-Methylnaphthalene	0.0625	0.00201	mg/Kg	0.167	<0.00194	37.4	30-130	40.7	30	*
Fluorene	0.0589	0.00067	"	0.167	<0.000286	35.2	30-130	43.7	30	*
Pyrene	0.0606	0.00067	"	0.167	<0.000643	36.2	30-130	45.9	30	*
Indeno(1,2,3-cd)pyrene	0.0713	0.00067	"	0.167	0.000666	42.2	30-130	37.3	30	*
Fluoranthene	0.0631	0.00067	"	0.167	0.000465	37.5	30-130	48	30	*
Dibenz(a,h)anthracene	0.0717	0.00067	"	0.167	<0.000614	42.9	30-130	41.2	30	*
Chrysene	0.0634	0.00067	"	0.167	<0.000624	37.9	30-130	45.7	30	*
Naphthalene	0.0547	0.00201	"	0.167	<0.00145	32.7	30-130	40.7	30	*
1-Methylnaphthalene	0.0528	0.00201	"	0.167	<0.00109	31.6	30-130	47.2	30	*
Benzo(k)fluoranthene	0.0641	0.00067	"	0.167	<0.000437	38.3	30-130	42.3	30	*
Acenaphthene	0.0577	0.00067	"	0.167	<0.000304	34.5	30-130	41	30	*
Anthracene	0.0559	0.00067	"	0.167	<0.000334	33.4	30-130	44	30	*
Benzo(a)anthracene	0.0611	0.00067	"	0.167	<0.000493	36.5	30-130	44.7	30	*
Benzo(a)pyrene	0.0654	0.00067	"	0.167	<0.000468	39.1	30-130	46.4	30	*
Benzo(b)fluoranthene	0.0584	0.00067	"	0.167	<0.000585	34.9	30-130	50.5	30	*
Surrogate: 2-Fluorobiphenyl	31.2		"	0.333	161	31.2	33-115			*
Surrogate: Nitrobenzene-d5	30.9		"	0.333	169	30.9	29-110			
Surrogate: 4-Terphenyl-d14	34.5		"	0.333	193	34.5	33-122			

MS (L 84200-MS-L654790)	Source: 84200			Prepared: 12/22/2022 Analyzed: 12/24/2022						
Benzo(k)fluoranthene	0.0985	0.00067	mg/Kg	0.164	<0.000437	60	30-130			
Acenaphthene	0.0875	0.00067	"	0.164	<0.000304	53.3	30-130			
Naphthalene	0.0827	0.00201	"	0.164	<0.00145	50.4	30-130			
Indeno(1,2,3-cd)pyrene	0.104	0.00067	"	0.164	0.000666	63	30-130			
Fluorene	0.0919	0.00067	"	0.164	<0.000286	56	30-130			
Fluoranthene	0.103	0.00067	"	0.164	0.000465	62.5	30-130			
Dibenz(a,h)anthracene	0.109	0.00067	"	0.164	<0.000614	66.4	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L654790 - 3550B

MS (L 84200-MS-L654790)	Source: 84200			Prepared: 12/22/2022 Analyzed: 12/24/2022						
Chrysene	0.101	0.00067	mg/Kg	0.164	<0.000624	61.5	30-130			
1-Methylnaphthalene	0.0855	0.00201	"	0.164	<0.00109	52.1	30-130			
Benzo(a)pyrene	0.105	0.00067	"	0.164	<0.000468	64	30-130			
Anthracene	0.0875	0.00067	"	0.164	<0.000334	53.3	30-130			
Pyrene	0.0968	0.00067	"	0.164	<0.000643	59	30-130			
2-Methylnaphthalene	0.0945	0.00201	"	0.164	<0.00194	57.6	30-130			
Benzo(b)fluoranthene	0.0979	0.00067	"	0.164	<0.000585	59.6	30-130			
Benzo(a)anthracene	0.0963	0.00067	"	0.164	<0.000493	58.7	30-130			
Surrogate: Nitrobenzene-d5	46.2		"	0.329	169	46.2	29-110			
Surrogate: 4-Terphenyl-d14	55		"	0.329	193	55	33-122			
Surrogate: 2-Fluorobiphenyl	47.1		"	0.329	161	47.1	33-115			

LCS (LCS-L654790)	Prepared: 12/22/2022 Analyzed: 12/24/2022									
Chrysene	0.12	0.00067	mg/Kg	0.167		71.8	30-130			
Dibenz(a,h)anthracene	0.131	0.00067	"	0.167		78.4	30-130			
Fluoranthene	0.12	0.00067	"	0.167		71.8	30-130			
Fluorene	0.104	0.00067	"	0.167		62.2	30-130			
Indeno(1,2,3-cd)pyrene	0.127	0.00067	"	0.167		76	30-130			
Naphthalene	0.0974	0.00201	"	0.167		58.3	30-130			
Benzo(k)fluoranthene	0.116	0.00067	"	0.167		69.4	30-130			
Pyrene	0.114	0.00067	"	0.167		68.2	30-130			
Benzo(a)pyrene	0.124	0.00067	"	0.167		74.2	30-130			
Benzo(a)anthracene	0.11	0.00067	"	0.167		65.8	30-130			
Anthracene	0.102	0.00067	"	0.167		61	30-130			
Acenaphthene	0.1	0.00067	"	0.167		59.8	30-130			
2-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130			
1-Methylnaphthalene	0.0987	0.00201	"	0.167		59.1	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Wiedeman #29-5

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L654790 - 3550B

LCS (LCS-L654790)

Prepared: 12/22/2022 Analyzed: 12/24/2022

Benzo(b)fluoranthene	0.115	0.00067	mg/Kg	0.167		68.8	30-130			
Surrogate: Nitrobenzene-d5	56.1		"	0.333		56.1	29-110			
Surrogate: 4-Terphenyl-d14	67.5		"	0.333		67.5	33-122			
Surrogate: 2-Fluorobiphenyl	57.3		"	0.333		57.3	33-115			

LRB (LRB-L654790)

Prepared: 12/22/2022 Analyzed: 12/24/2022

Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	59.4		"	0.333		59.4	29-110			
Surrogate: 4-Terphenyl-d14	65.7		"	0.333		65.7	33-122			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333		59.4	33-115			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Wiedeman #29-5

Notes and Definitions

U Sample is Non-Detect.

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

J Estimated Value. Analyte below reported quantitation limit.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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