

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional): <u> </u>		Pit Closure <u> </u>		Tank Battery Closure <u> </u>		Flowline Closure: <u> </u>		Partially Buried Vault Closure <u> </u>	
Site Name & COGCC Facility Number: Parker #29-34		Date: 01/23/23				Remediation Project #: 26176			
Associated Wells: 05-123-20684		Age of Site: years				Number of Photos Attached: 1			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.104950 / -104.573210						Estimated Facility Size (acres): <u> </u>			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) <p style="text-align: center;">Good condition</p>									
USCS Soil Type: sandy CLAY				Estimated Depth to Groundwater: ~10-15'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <p style="text-align: center;">None observed</p>									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) <p style="text-align: center;">None observed</p>									
Wellhead(s)									
Well API	05-123-20684								
Age	years								
Condition of surface around wellhead	Good - Per Crew								
PID Readings	N/A - Excavated upon arrival								
Condition of subsurface (staining present)	Good - No odor/no staining								
PID Readings	3.6	4.1	4.3	2.3	4.8				
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01				
Photo Number(s)	See photo log								
Other observations regarding wellheads: <p style="text-align: center;">Well casing cut/capped following assessment</p>									
Summary									
Was impacted soil identified? <input checked="" type="radio"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 5				Total number of samples collected: 5					
Highest PID Reading: 4.8				Total number of samples submitted to lab for analysis: 1					
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:				Estimated spill volume:					
Lateral extent: N/A				Volume of soil removed:					
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="radio"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No					
Date Groundwater was encountered:				Commencement date of removal:					
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:					
Free product observed? Yes No				Volume of groundwater removed post sampling:					
Total number of samples collected:				Total Volume of groundwater removed:					
Total number of samples submitted to lab for analysis:									

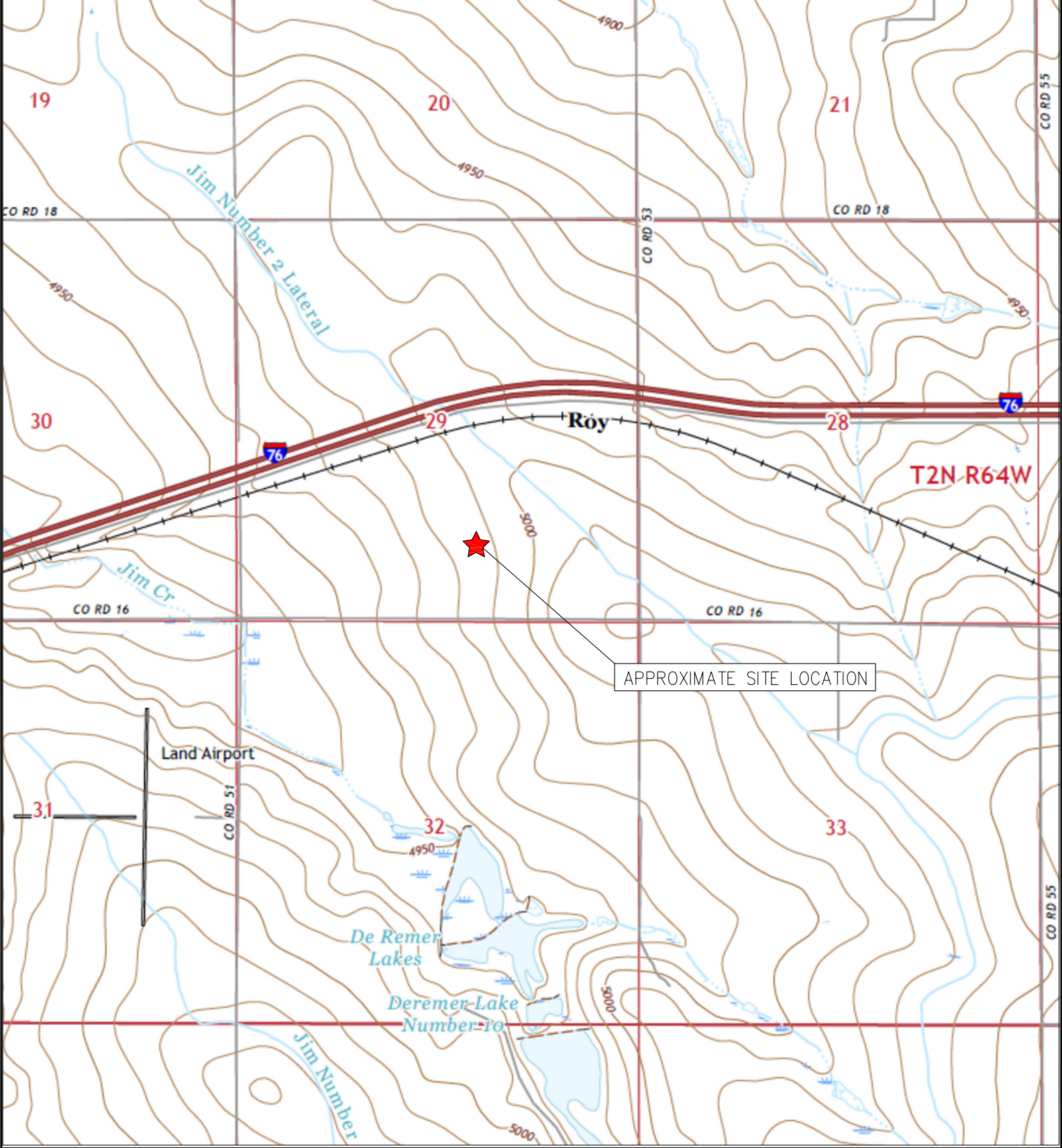


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



APPROXIMATE SITE LOCATION

TOPOGRAPHIC SITE LOCATION MAP
 PARKER #29-34
 CLOSURE ASSESSMENT
 40.104950 / -104.573210
 SW¼ SE¼ SEC.29 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20684
 REMEDIATION # 26176



EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

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

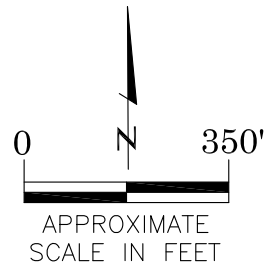
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 KEENESBURG, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER PARKER #29-34 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP

PARKER #29-34
 CLOSURE ASSESSMENT
 40.104950 / -104.573210
 SW¼ SE¼ SEC.29 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20684
 REMEDIATION # 26176

FIGURE NO.

2

DRAWN BY:

CT



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LEGEND

- - - WELLHEAD ASSESSMENT BOUNDARIES
- APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- 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)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

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

(BRL) - ALL VALUES BELOW REGULATORY LIMITS

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 IN **BOLD** EXCEED COGCC TABLE 915-1 REGULATORY LIMITS.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
 PARKER #29-34
 CLOSURE ASSESSMENT
 40.104950 / -104.573210
 SW¼ SE¼ SEC.29 T2N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-20684
 REMEDIATION # 26176

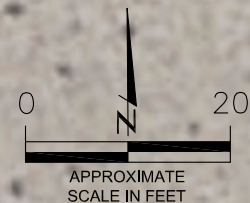


FIGURE NO.
3

DRAWN BY:
CT

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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
PARKER #29-34
CLOSURE ASSESSMENT
40.104950 / -104.573210
SW¼ SE¼ SEC.29 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-20684
REMEDIATION # 26176

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.104949 / -104.573206)	01/23/23	5	3.6	N
WH-SS-02 @ 5' (40.104937 / -104.573190)	01/23/23	5	4.1	N
WH-SS-03 @ 5' (40.104925 / -104.573206)	01/23/23	5	4.3	N
WH-SS-04 @ 5' (40.104936 / -104.573223)	01/23/23	5	2.3	N
WH-FS-01 @ 6' (40.104936 / -104.573206)	01/23/23	6	4.8	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS
PARKER #29-34
CLOSURE ASSESSMENT
40.104950 / -104.573210
SW¼ SE¼ SEC.29 T2N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-20684
REMEDIATION # 26176

Sample Location		WH-FS-01 @ 6'		
(Latitude / Longitude)		(40.104936 / -104.573206)		
Sample Date		1/23/2023		
Sample Depth		6'		
PID Reading (ppm-v)		4.8		
Regulatory Limits				
Chemical of Concern	Units	COGCC Table 915-1 RSSLs	COGCC Table 915-1 GSSLs	
VOCs				
Benzene	mg/kg	1.2	0.0026	<0.00200
Toluene	mg/kg	490	0.69	<0.00200
Ethylbenzene	mg/kg	5.8	0.78	<0.00200
Total Xylenes	mg/kg	58	9.9	<0.00200
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200
TOTAL PETROLEUM HYDROCARBONS				
TPH-GRO	mg/kg	500	--	<0.200
TPH-DRO	mg/kg	500	--	<25.0
TPH-RRO	mg/kg	500	--	<100
POLYCYCLIC AROMATIC HYDROCARBONS				
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201
Acenaphthene	mg/kg	360	0.55	<0.00067
Anthracene	mg/kg	1800	5.8	<0.00067
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067
Chrysene	mg/kg	110	9	<0.00067
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067
Fluoranthene	mg/kg	240	8.9	<0.00067
Fluorene	mg/kg	240	0.54	<0.00067
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067
Naphthalene	mg/kg	2	0.0038	<0.00201
Pyrene	mg/kg	180	1.3	<0.00067
SOIL SUITABILITY (Inorganics)				
Boron	mg/L	2	--	0.474
pH	standard unit	6-8.3	--	7.92
Sodium Adsorption Ratio (SAR)	--	<6	--	3.36
Specific Conductance (EC)	mmhos/cm	<4	--	1.47
COGCC = Colorado Oil and Gas Conservation Commission mg/kg = milligrams per kilogram mmhos/cm = millimhos per centimeter PID = Photoionization Detector ppm-v = parts per million by volume mg/L = milligrams per liter SAR = Sodium Adsorption Ratio Notes: Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit. Values presented in BOLD exceed COGCC Table 915-1 Regulatory Limits.				



ATTACHMENT A

Photo Log

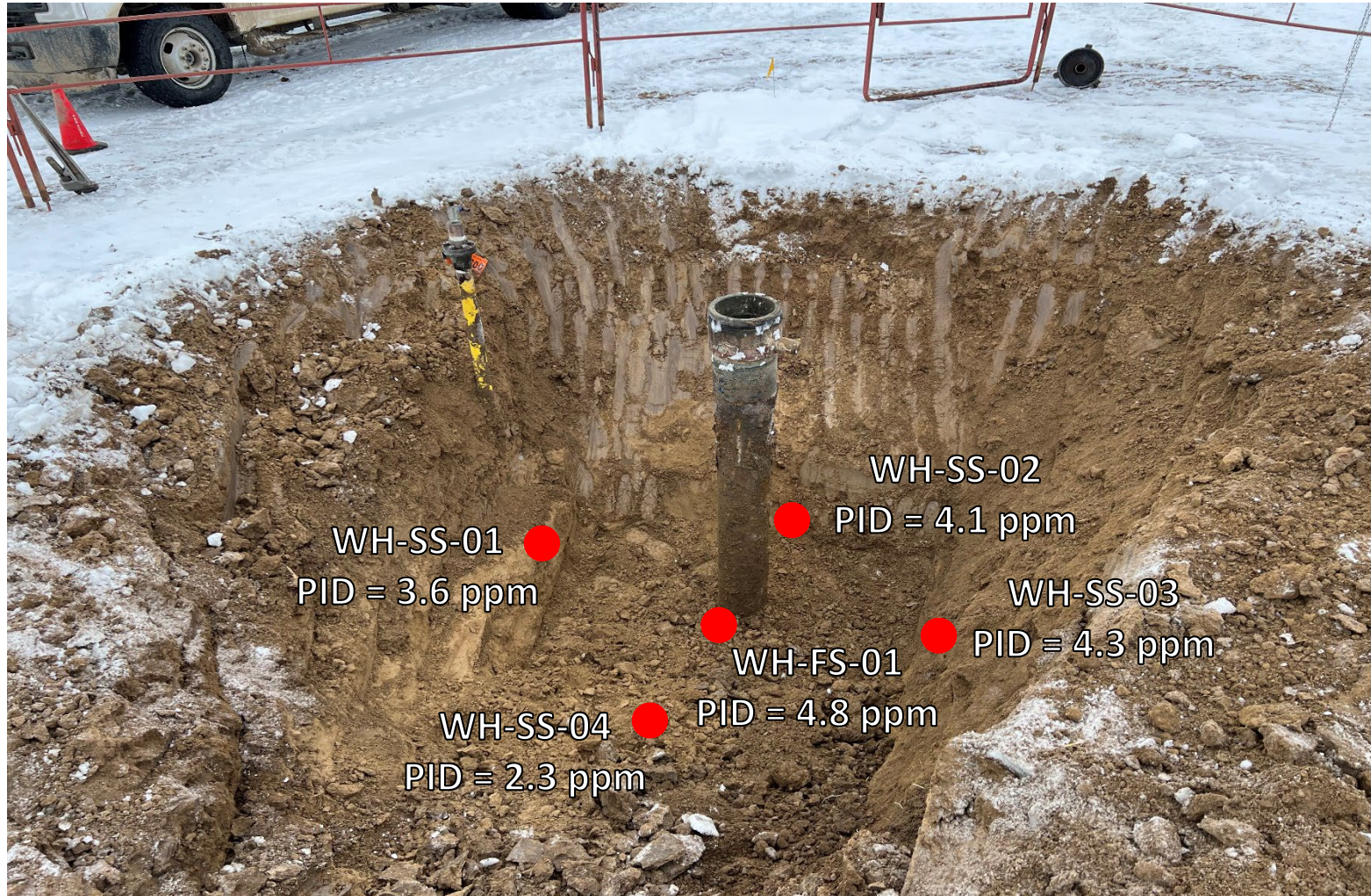
Parker #29-34
API # 05-123-20684
Remediation # 26176

Closure Assessment

January 2023



Wellhead Excavation – 01/23/23



Looking east

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Report



January 30, 2023

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Parker #29-34

Project Number - [none]

Attached are your analytical results for Noble - Parker #29-34 received by Origins Laboratory, Inc. January 23, 2023. This project is associated with Origins project number Y301364-01.

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 - Parker #29-34

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y301364-01	Soil	January 23, 2023 10:32	01/23/2023 13:25

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 - Parker #29-34

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 43013104

Client: Eagle Environmental

Client Project ID: Parker #29-34

Checklist Completed by: TSH

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

Date/time completed: 1/23/23

Airbill #: nl9

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

Cooler Number/Temperature: 1 / 3 °C _____ °C _____ °C _____ °C (Describe)

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⁾ ?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			<input checked="" type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

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

Reviewed by (Project Manager) 

1/23/23
 Date/Time Reviewed

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 - Parker #29-34

WH-FS-01@6'

1/23/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301364-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.474		0.0986	mg/L	1	B3A2404	01/24/2023	01/25/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B3A2401	01/24/2023	01/24/2023	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	78.8 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B3A2420	01/24/2023	01/24/2023	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	114 %		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 - Parker #29-34

WH-FS-01@6'

1/23/2023 10:32:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y301364-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.9 %		70-130			B3A24 20	01/24/2023	01/24/2023	
Surrogate: 4-Bromofluorobenzene	97.5 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	4.86		0.499	meq/L	10	[CALC]	01/25/2023	01/26/2023	
Magnesium	3.10		0.823	"	"	"	"	"	
Sodium	6.70		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L660339	01/25/2023	01/25/2023	
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 - Parker #29-34

WH-FS-01@6'

1/23/2023 10:32:00AM

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

Waypoint Analytical, LLC.
Y301364-01 (Soil)

PAH by 8270D SIM

Fluorene	ND	0.000286	0.00067	mg/Kg	1	L660339	01/25/2023	01/25/2023	
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	46.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	51.7 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	45.3 %		29-110			"	"	"	

pH in Soil by 9045D

pH	7.92			pH Units	1	B3A2504	01/25/2023	01/26/2023	
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SAR by 20B Saturated Paste

SAR	3.36			SAR	1	B3A2502	01/25/2023	01/26/2023	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.47		0.00500	mmhos/cm	1	B3A2504	01/25/2023	01/26/2023	
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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 - Parker #29-34

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 B3A2401 - EPA 3580										
Blank (B3A2401-BLK1)										
					Prepared: 01/24/2023 Analyzed: 01/24/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	23		"	24.9		90.9	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

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 B3A2401 - EPA 3580

LCS (B3A2401-BS1)

Prepared: 01/24/2023 Analyzed: 01/24/2023

Diesel (C10-C28)	885	50.0	mg/kg	1000		88.5	70-130			
Residual Range Organics (C28-C40)	851	200	"	1000		85.1	70-130			
Surrogate: o-Terphenyl	41		"	49.8		81.8	50-150			

Origins Laboratory, Inc.



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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

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 B3A2401 - EPA 3580

Matrix Spike (B3A2401-MS1)	Source: Y301363-01			Prepared: 01/24/2023 Analyzed: 01/24/2023						
Diesel (C10-C28)	902	50.0	mg/kg	1000	ND	90.2	70-130			
Residual Range Organics (C28-C40)	873	200	"	1000	ND	87.3	70-130			
Surrogate: o-Terphenyl	40		"	49.8		80.1	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 - Parker #29-34

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 B3A2401 - EPA 3580										
Matrix Spike Dup (B3A2401-MSD1)					Source: Y301363-01					Prepared: 01/24/2023 Analyzed: 01/24/2023
Diesel (C10-C28)	891	50.0	mg/kg	1000	ND	89.1	70-130	1.24	35	
Residual Range Organics (C28-C40)	859	200	"	1000	ND	85.9	70-130	1.62	35	
Surrogate: o-Terphenyl	39		"	49.8		79.3	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 - Parker #29-34

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 B3A2420 - EPA 5030 (soil)

Blank (B3A2420-BLK1)

Prepared: 01/24/2023 Analyzed: 01/24/2023

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	0.13		"	0.125	108		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	97.6		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	98.8		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 - Parker #29-34

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 B3A2420 - EPA 5030 (soil)

LCS (B3A2420-BS1)

Prepared: 01/24/2023 Analyzed: 01/24/2023

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.0929	0.00200	"	0.100		92.9	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.0930	0.00380	"	0.100		93.0	70-130			
Toluene	0.0967	0.00200	"	0.100		96.7	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.221	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.8	70-130			

Origins Laboratory, Inc.



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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

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 B3A2420 - EPA 5030 (soil)

Matrix Spike (B3A2420-MS1)	Source: Y301363-01			Prepared: 01/24/2023 Analyzed: 01/24/2023						
1,2,4-Trimethylbenzene	0.0972	0.00200	mg/kg	0.100	ND	97.2	70-130			
1,3,5-Trimethylbenzene	0.0956	0.00200	"	0.100	ND	95.6	70-130			
Benzene	0.0866	0.00200	"	0.100	ND	86.6	70-130			
Ethylbenzene	0.0928	0.00200	"	0.100	ND	92.8	70-130			
Naphthalene	0.0876	0.00380	"	0.100	ND	87.6	70-130			
Toluene	0.0870	0.00200	"	0.100	ND	87.0	70-130			
o-Xylene	0.0930	0.00200	"	0.100	ND	93.0	70-130			
m,p-Xylene	0.196	0.00400	"	0.200	ND	98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

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 B3A2420 - EPA 5030 (soil)

Matrix Spike Dup (B3A2420-MSD1)	Source: Y301363-01			Prepared: 01/24/2023 Analyzed: 01/24/2023						
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	3.38	20	
1,3,5-Trimethylbenzene	0.0991	0.00200	"	0.100	ND	99.1	70-130	3.64	20	
Benzene	0.0893	0.00200	"	0.100	ND	89.3	70-130	3.09	20	
Ethylbenzene	0.0963	0.00200	"	0.100	ND	96.3	70-130	3.70	20	
Naphthalene	0.0883	0.00380	"	0.100	ND	88.3	70-130	0.819	20	
Toluene	0.0903	0.00200	"	0.100	ND	90.3	70-130	3.72	20	
o-Xylene	0.0969	0.00200	"	0.100	ND	96.9	70-130	4.07	20	
m,p-Xylene	0.203	0.00400	"	0.200	ND	101	70-130	3.32	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		109	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	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 - Parker #29-34

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 B3A2404 - DTPA Sorbitol Preparation

Blank (B3A2404-BLK1)

Prepared: 01/24/2023 Analyzed: 01/25/2023

Boron ND 0.100 mg/L

Duplicate (B3A2404-DUP1)

Source: Y301362-01

Prepared: 01/24/2023 Analyzed: 01/25/2023

Boron 3.55 0.0988 mg/L 3.10 13.7 50

Batch B3A2502 - Saturated Paste Metals

Blank (B3A2502-BLK1)

Prepared: 01/25/2023 Analyzed: 01/26/2023

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B3A2502-DUP1)

Source: Y301362-12

Prepared: 01/25/2023 Analyzed: 01/26/2023

SAR 0.00 SAR 10.6 200 200

Calcium PPM 150 10.0 mg/L 156 4.16 50

Magnesium PPM 90.5 10.0 " 93.8 3.65 50

Sodium PPM 669 10.0 " 678 1.34 50

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3A2504 - Saturated Paste pH/EC										
Blank (B3A2504-BLK1)					Prepared: 01/25/2023 Analyzed: 01/26/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3A2504-DUP1)					Source: Y301362-12 Prepared: 01/25/2023 Analyzed: 01/26/2023					
pH	7.90		pH Units		8.01			1.38	25	
Specific Conductance (EC)	3.85	0.00500	mmhos/cm		3.96			2.85	25	

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 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

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 L660339 - 3550B

MSD (L 96535-MSD-L660339)		Source: 96535			Prepared: 01/25/2023 Analyzed: 01/25/2023					
2-Methylnaphthalene	0.105	0.00201	mg/Kg	0.166	<0.00194	63.2	30-130	2.8	30	
Fluorene	0.106	0.00067	"	0.166	<0.000286	63.8	30-130	0	30	
Pyrene	0.107	0.00067	"	0.166	<0.000643	64.4	30-130	2.7	30	
Indeno(1,2,3-cd)pyrene	0.0764	0.00067	"	0.166	<0.000627	46	30-130	2.7	30	
Fluoranthene	0.116	0.00067	"	0.166	<0.000394	69.8	30-130	0.8	30	
Dibenz(a,h)anthracene	0.0926	0.00067	"	0.166	<0.000614	55.7	30-130	0.4	30	
Chrysene	0.11	0.00067	"	0.166	<0.000624	66.2	30-130	2.7	30	
Naphthalene	0.0961	0.00201	"	0.166	<0.00145	57.8	30-130	0.3	30	
1-Methylnaphthalene	0.0986	0.00201	"	0.166	<0.00109	59.3	30-130	2.1	30	
Benzo(k)fluoranthene	0.0803	0.00067	"	0.166	<0.000437	48.3	30-130	10.2	30	
Acenaphthene	0.0994	0.00067	"	0.166	<0.000304	59.8	30-130	0.9	30	
Anthracene	0.099	0.00067	"	0.166	<0.000334	59.6	30-130	2	30	
Benzo(a)anthracene	0.112	0.00067	"	0.166	<0.000493	67.4	30-130	1.7	30	
Benzo(a)pyrene	0.123	0.00067	"	0.166	<0.000468	74	30-130	0.8	30	
Benzo(b)fluoranthene	0.0871	0.00067	"	0.166	<0.000585	52.4	30-130	4.5	30	
Surrogate: 2-Fluorobiphenyl	59.9		"	0.332	175	59.9	33-115			
Surrogate: Nitrobenzene-d5	56.3		"	0.332	168	56.3	29-110			
Surrogate: 4-Terphenyl-d14	67.4		"	0.332	194	67.4	33-122			

MS (L 96535-MS-L660339)		Source: 96535			Prepared: 01/25/2023 Analyzed: 01/25/2023					
Benzo(k)fluoranthene	0.089	0.00067	mg/Kg	0.167	<0.000437	53.2	30-130			
Acenaphthene	0.0985	0.00067	"	0.167	<0.000304	58.9	30-130			
Naphthalene	0.0964	0.00201	"	0.167	<0.00145	57.7	30-130			
Indeno(1,2,3-cd)pyrene	0.0785	0.00067	"	0.167	<0.000627	47	30-130			
Fluorene	0.106	0.00067	"	0.167	<0.000286	63.4	30-130			
Fluoranthene	0.117	0.00067	"	0.167	<0.000394	70	30-130			
Dibenz(a,h)anthracene	0.0922	0.00067	"	0.167	<0.000614	55.2	30-130			

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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 - Parker #29-34

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 L660339 - 3550B

MS (L 96535-MS-L660339)		Source: 96535			Prepared: 01/25/2023 Analyzed: 01/25/2023					
Chrysene	0.107	0.00067	mg/Kg	0.167	<0.000624	64	30-130			
1-Methylnaphthalene	0.0965	0.00201	"	0.167	<0.00109	57.7	30-130			
Benzo(a)pyrene	0.122	0.00067	"	0.167	<0.000468	73	30-130			
Anthracene	0.101	0.00067	"	0.167	<0.000334	60.4	30-130			
Pyrene	0.11	0.00067	"	0.167	<0.000643	65.8	30-130			
2-Methylnaphthalene	0.102	0.00201	"	0.167	<0.00194	61	30-130			
Benzo(b)fluoranthene	0.0832	0.00067	"	0.167	<0.000585	49.8	30-130			
Benzo(a)anthracene	0.114	0.00067	"	0.167	<0.000493	68.2	30-130			
Surrogate: Nitrobenzene-d5	56.7		"	0.333	168	56.7	29-110			
Surrogate: 4-Terphenyl-d14	68.1		"	0.333	194	68.1	33-122			
Surrogate: 2-Fluorobiphenyl	59.4		"	0.333	175	59.4	33-115			

LCS (LCS-L660339)		Prepared: 01/25/2023 Analyzed: 01/25/2023								
Chrysene	0.102	0.00067	mg/Kg	0.167		61	30-130			
Dibenz(a,h)anthracene	0.115	0.00067	"	0.167		68.8	30-130			
Fluoranthene	0.112	0.00067	"	0.167		67	30-130			
Fluorene	0.0947	0.00067	"	0.167		56.7	30-130			
Indeno(1,2,3-cd)pyrene	0.102	0.00067	"	0.167		61	30-130			
Naphthalene	0.0858	0.00201	"	0.167		51.3	30-130			
Benzo(k)fluoranthene	0.0935	0.00067	"	0.167		55.9	30-130			
Pyrene	0.104	0.00067	"	0.167		62.2	30-130			
Benzo(a)pyrene	0.117	0.00067	"	0.167		70	30-130			
Benzo(a)anthracene	0.105	0.00067	"	0.167		62.8	30-130			
Anthracene	0.0948	0.00067	"	0.167		56.7	30-130			
Acenaphthene	0.0903	0.00067	"	0.167		54	30-130			
2-Methylnaphthalene	0.0907	0.00201	"	0.167		54.3	30-130			
1-Methylnaphthalene	0.0849	0.00201	"	0.167		50.8	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - Parker #29-34

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 L660339 - 3550B

LCS (LCS-L660339)

Prepared: 01/25/2023 Analyzed: 01/25/2023

Benzo(b)fluoranthene	0.107	0.00067	mg/Kg	0.167		64	30-130			
Surrogate: Nitrobenzene-d5	54		"	0.333		54	29-110			
Surrogate: 4-Terphenyl-d14	69.3		"	0.333		69.3	33-122			
Surrogate: 2-Fluorobiphenyl	54.3		"	0.333		54.3	33-115			

LRB (LRB-L660339)

Prepared: 01/25/2023 Analyzed: 01/25/2023

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	59.7		"	0.333		59.7	29-110			
Surrogate: 4-Terphenyl-d14	70.8		"	0.333		70.8	33-122			
Surrogate: 2-Fluorobiphenyl	59.1		"	0.333		59.1	33-115			

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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Parker #29-34

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 on a wet weight basis.

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