

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: McAllister #32-12		Date: 10/26/22					Remediation Project #: 25098		
Associated Wells: 05-123-18227		Age of Site: years					Number of Photos Attached: 1		
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple)						40.328536 / -104.609339			
Estimated Facility Size (acres): <u> </u>									
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition									
USCS Soil Type: clayey SAND				Estimated Depth to Groundwater: ~13-18'					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed									
Wellhead(s)									
Well API	05-123-18227								
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	2.1	1.9	2.6	1.6	6.5				
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: Well casing cut/capped following assessment									
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: 6.5				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:									



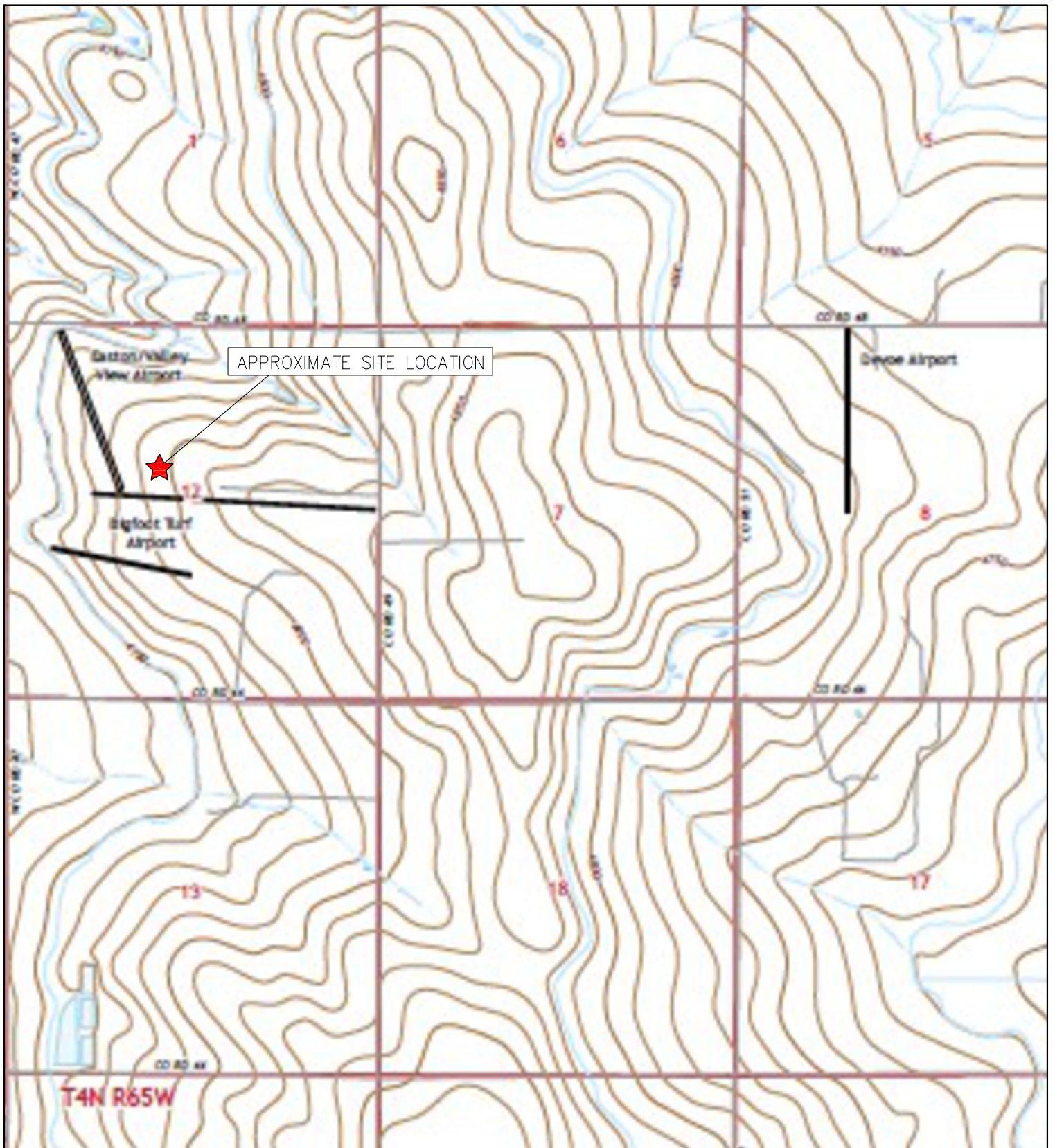
FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map

Figure 4: Polycyclic Aromatic Hydrocarbons Map



TOPOGRAPHIC SITE LOCATION MAP
 MCALLISTER #32-12
 CLOSURE ASSESSMENT
 40.328536 / -104.609339
 SW¼ NE¼ SEC.12 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18227
 REMEDIATION # 25098



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 ENVIRONMENTAL
 CONSULTING, INC.

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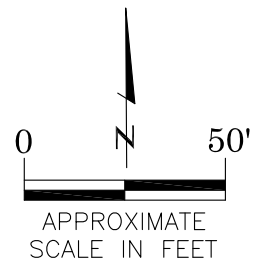
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP,
 VALLEY VIEW SCHOOL, CO QUADRANGLE 2022

FIGURE 1



LEGEND

- FORMER MCALLISTER #32-12 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
 MCALLISTER #32-12
 CLOSURE ASSESSMENT
 40.328536 / -104.609339
 SW¼ NE¼ SEC.12 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18227
 REMEDIATION # 25098

DRAWN BY:
 JF

FIG. NO.
 2



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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)

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.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

SOIL ANALYTICAL MAP
 MCALLISTER #32-12
 CLOSURE ASSESSMENT
 40.328536 / -104.609339
 SW¼ NE¼ SEC.12 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18227
 REMEDIATION # 25098

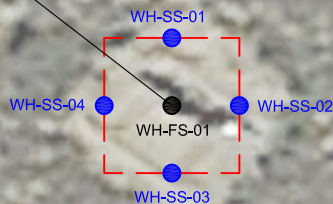
DRAWN BY:
 CT

FIG.
 NO. 3



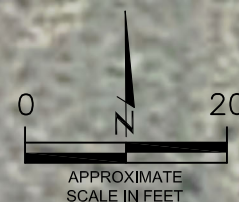
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WH-FS-01@6'
 10/26/22
 6'
 B = <0.00200
 T = <0.00200
 E = <0.00200
 X = <0.00200
 G = <0.200
 D = 27.0
 R = <100
 1,2,4-TMB = <0.00200
 1,3,5-TMB = <0.00200
 Brn = 0.639
 EC = 0.642
 SAR = 1.67
 pH = **8.32**

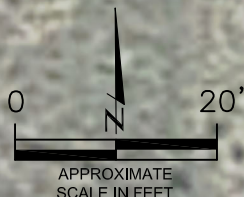
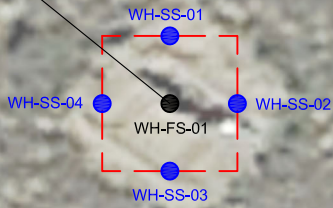


BACKGROUND-01@2'
 10/26/22
 2'
 pH = **8.38**

BACKGROUND-01



WH-FS-01@6'
 10/26/22
 6'
 ND = <0.00067
 1-Methylnaphthalene = ND
 2-Methylnaphthalene = ND
 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 = 0.000596
 Fluorene = ND
 Indeno(1,2,3-CD)pyrene = ND
 Naphthalene = ND
 Pyrene = ND



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 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.

COGCC = COLORADO OIL AND GAS CONSERVATION COMMISSION

POLYCYCLIC AROMATIC HYDROCARBONS MAP
 MCALLISTER #32-12
 CLOSURE ASSESSMENT
 40.328536 / -104.609339
 SW¼ NE¼ SEC.12 T4N R65W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-18227
 REMEDIATION # 25098

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FIG. NO. 4



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TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
MCALLISTER #32-12
CLOSURE ASSESSMENT
40.328536 / -104.609339
SW 1/4 NE 1/4 SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18227
REMEDIATION # 25098

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.328558 / -104.609357)	10/26/22	5	2.1	N
WH-SS-02 @ 5' (40.328540 / -104.609331)	10/26/22	5	1.9	N
WH-SS-03 @ 5' (40.328523 / -104.609357)	10/26/22	5	2.6	N
WH-SS-04 @ 5' (40.328540 / -104.609379)	10/26/22	5	1.6	N
WH-FS-01 @ 6' (40.328540 / -104.609357)	10/26/22	6	6.5	Y
Background-01 @ 2' (40.328490 / -104.609296)	10/26/22	2	0.9	Y

(Y/N) = Yes or No
 ppm-v = parts per million by volume
 PID = Photoionization Detector



TABLE 2
SOIL ANALYTICAL RESULTS
MCALLISTER #32-12
CLOSURE ASSESSMENT
40.328536 / -104.609339
SW 1/4 NE 1/4 SEC.12 T4N R65W 6PM
WELD COUNTY, COLORADO
API # 05-123-18227
REMEDIATION # 25098

Sample Location (Latitude / Longitude)		WH-FS-01 @ 6'		Background-01 @ 2'	
		(40.328540 / -104.609357)		(40.328490 / -104.609296)	
Sample Date		10/26/22		10/26/2022	
Sample Depth		6'		2'	
PID Reading (ppm-v)		6.5		0.9	
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	NA
Toluene	mg/kg	490	0.69	<0.00200	NA
Ethylbenzene	mg/kg	5.8	0.78	<0.00200	NA
Total Xylenes	mg/kg	58	9.9	<0.00200	NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200	NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200	NA
Total Petroleum Hydrocarbons					
TPH-GRO	mg/kg	500	--	<0.200	NA
TPH-DRO	mg/kg	500	--	27.0	NA
TPH-RRO	mg/kg	500	--	<100	NA
Polycyclic Aromatics Hydrocarbons					
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00067	NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00067	NA
Acenaphthene	mg/kg	360	0.55	<0.00067	NA
Anthracene	mg/kg	1800	5.8	<0.00067	NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067	NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067	NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067	NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067	NA
Chrysene	mg/kg	110	9	<0.00067	NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067	NA
Fluoranthene	mg/kg	240	8.9	0.000596	NA
Fluorene	mg/kg	240	0.54	<0.00067	NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067	NA
Naphthalene	mg/kg	2	0.0038	<0.00067	NA
Pyrene	mg/kg	180	1.3	<0.00067	NA
Soil Suitability (Inorganics)					
Boron	mg/L	2	--	0.639	NA
pH	standard unit	6-8.3	--	8.32	8.38
Sodium Adsorption Ratio (SAR)	--	<6	--	1.67	NA
Specific Conductance (EC)	mmhos/cm	<4	--	0.642	NA
COGCC = Colorado Oil and Gas Conservation Commission		VOCs - Volatile Organic Compounds		NA - Not Analyzed	
mg/kg = milligrams per kilogram		RSSLs = Residential Soil Screening Levels			
mmhos/cm = millimhos per centimeter		GSSLs = Protection of Groundwater Soil Screening Levels			
PID = Photoionization Detector		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics			
ppm-v = parts per million by volume		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics			
mg/L = milligrams per liter		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics			
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

McAllister #32-12
API # 05-123-18227
Remediation # 25098

Closure Assessment

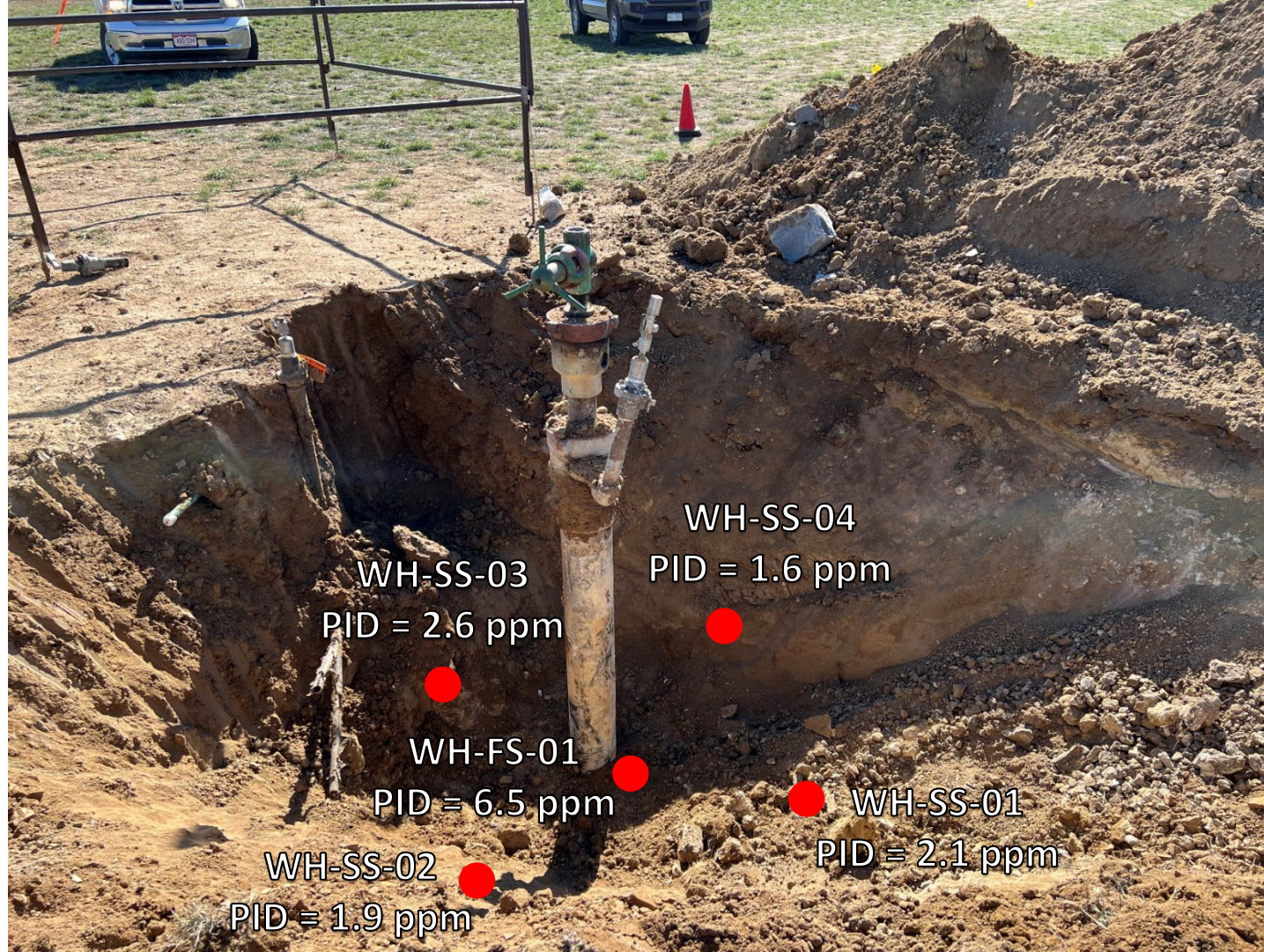
October 2022



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



Wellhead Excavation – 10/26/22



Looking southwest

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



November 10, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - McAllister 32-12

Project Number - [none]

Attached are your analytical results for Noble - McAllister 32-12 received by Origins Laboratory, Inc. October 26, 2022. This project is associated with Origins project number Y210662-01.

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 - McAllister 32-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y210662-01	Soil	October 26, 2022 13:38	10/26/2022 15:30

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 - McAllister 32-12

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4210662

Client: Eagle

Client Project ID: McAllister #32-12

Checklist Completed by: EAS/DE

Shipped Via: HD

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

Date/time completed: 10/27/12

Airbill #: NA

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

Cooler Number/Temperature: 1 10.6 °C / 1 °C / 1 °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⁾ ?	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⁾ ?	X			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	X			
Do the sample IDs on the bottle labels match the COC ⁽³⁾ ?	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.

[Signature]
 Reviewed by (Project Manager)

10/27/2012
 Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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 - McAllister 32-12

WH-FS-01@6'

10/26/2022 1:38:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y210662-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.639		0.0999	mg/L	1	B2J2805	10/28/2022	10/31/2022	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	27.0		25.0	mg/kg	1	B2J2809	10/28/2022	11/01/2022	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: <i>o</i> -Terphenyl	89.1 %		50-150			"	"	"	
--------------------------------	--------	--	--------	--	--	---	---	---	--

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B2J2730	10/27/2022	11/08/2022	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			"	"	"	
Surrogate: Toluene-d8	93.9 %		70-130			"	"	"	

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McAllister 32-12

WH-FS-01@6'

10/26/2022 1:38:00PM

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

Origins Laboratory, Inc.
Y210662-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	90.7 %		70-130			B2J27 30	10/27/2022	11/08/2022	
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Metals by Saturated Paste by EPA 6010

Calcium	2.39		0.499	meq/L	10	[CALC]	10/28/2022	11/01/2022	
Magnesium	1.94		0.823	"	"	"	"	"	
Sodium	2.45		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.000364	0.00067	mg/Kg	1	L646023	10/31/2022	11/01/2022	
2-Methylnaphthalene	ND	0.000645	0.00067	"	"	"	"	"	
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	0.000596	0.000394	0.00067	"	"	"	"	"	J
Fluorene	ND	0.000286	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 - McAllister 32-12

WH-FS-01@6'

10/26/2022 1:38:00PM

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

Waypoint Analytical, LLC.
Y210662-01 (Soil)

PAH by 8270D SIM

Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	mg/Kg	1	L646023	10/31/2022	11/01/2022	
Naphthalene	ND	0.000484	0.00067	"	"	"	"	"	
Pyrene	ND	0.000643	0.00067	"	"	"	"	"	

Surrogate: 2-Fluorobiphenyl	50.2 %		33-115			"	"	"	
Surrogate: 4-Terphenyl-d14	56.5 %		33-122			"	"	"	
Surrogate: Nitrobenzene-d5	43.5 %		29-110			"	"	"	

pH in Soil by 9045D

pH	8.32			pH Units	1	B2J3108	10/31/2022	11/01/2022	
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SAR by 20B Saturated Paste

SAR	1.67			SAR	1	B2J2806	10/28/2022	11/01/2022	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.642	0.00500		mmhos/cm	1	B2J3108	10/31/2022	11/01/2022	
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 8000 W 44th Ave
 Wheat Ridge CO 80033

Martin C Eckert III
 Project Number: [none]
 Project: Noble - McAllister 32-12

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 B2J2730 - EPA 5030 (soil)

Blank (B2J2730-BLK1)

Prepared: 10/27/2022 Analyzed: 11/05/2022

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	0.10		"	0.125	82.5		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	106		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	107		70-130			

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 Project: Noble - McAllister 32-12

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 B2J2730 - EPA 5030 (soil)

LCS (B2J2730-BS1)

Prepared: 10/27/2022 Analyzed: 11/05/2022

1,2,4-Trimethylbenzene	0.103	0.00200	mg/kg	0.100		103	70-130			
1,3,5-Trimethylbenzene	0.103	0.00200	"	0.100		103	70-130			
Benzene	0.0877	0.00200	"	0.100		87.7	70-130			
Ethylbenzene	0.106	0.00200	"	0.100		106	70-130			
Naphthalene	0.0984	0.00380	"	0.100		98.4	70-130			
Toluene	0.0983	0.00200	"	0.100		98.3	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		84.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	70-130			

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 Project: Noble - McAllister 32-12

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 B2J2730 - EPA 5030 (soil)

Matrix Spike (B2J2730-MS1)	Source: Y210655-01			Prepared: 10/27/2022 Analyzed: 11/05/2022						
1,2,4-Trimethylbenzene	0.115	0.00200	mg/kg	0.100	ND	115	70-130			
1,3,5-Trimethylbenzene	0.114	0.00200	"	0.100	ND	114	70-130			
Benzene	0.0858	0.00200	"	0.100	ND	85.8	70-130			
Ethylbenzene	0.120	0.00200	"	0.100	ND	120	70-130			
Naphthalene	0.105	0.00380	"	0.100	ND	105	70-130			
Toluene	0.0959	0.00200	"	0.100	ND	95.9	70-130			
o-Xylene	0.118	0.00200	"	0.100	ND	118	70-130			
m,p-Xylene	0.238	0.00400	"	0.200	0.000500	119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		80.6	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

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 Project: Noble - McAllister 32-12

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 B2J2730 - EPA 5030 (soil)

Matrix Spike Dup (B2J2730-MSD1)	Source: Y210655-01			Prepared: 10/27/2022 Analyzed: 11/05/2022						
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100	ND	102	70-130	12.1	20	
1,3,5-Trimethylbenzene	0.100	0.00200	"	0.100	ND	100	70-130	12.9	20	
Benzene	0.0848	0.00200	"	0.100	ND	84.8	70-130	1.10	20	
Ethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	13.6	20	
Naphthalene	0.0993	0.00380	"	0.100	ND	99.3	70-130	5.75	20	
Toluene	0.0936	0.00200	"	0.100	ND	93.6	70-130	2.38	20	
o-Xylene	0.104	0.00200	"	0.100	ND	104	70-130	13.0	20	
m,p-Xylene	0.208	0.00400	"	0.200	0.000500	104	70-130	13.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		85.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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 Project: Noble - McAllister 32-12

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
Batch B2J2809 - EPA 3550B										
Blank (B2J2809-BLK1)										
					Prepared: 10/28/2022 Analyzed: 11/01/2022					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	22		"	24.9		87.0	50-150			

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 Project: Noble - McAllister 32-12

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 B2J2809 - EPA 3550B

LCS (B2J2809-BS1)

Prepared: 10/28/2022 Analyzed: 11/01/2022

Diesel (C10-C28)	850	50.0	mg/kg	1000		85.0	70-130			
Residual Range Organics (C28-C40)	830	200	"	1000		83.0	70-130			
Surrogate: o-Terphenyl	43		"	49.8		86.4	50-150			

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 Project Number: [none]
 Project: Noble - McAllister 32-12

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 B2J2809 - EPA 3550B

Matrix Spike (B2J2809-MS1)	Source: Y210617-01			Prepared: 10/28/2022 Analyzed: 11/01/2022						
Diesel (C10-C28)	918	50.0	mg/kg	1000	ND	91.8	70-130			
Residual Range Organics (C28-C40)	907	200	"	1000	ND	90.7	70-130			
Surrogate: o-Terphenyl	43		"	49.8		87.1	50-150			

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 Project: Noble - McAllister 32-12

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 B2J2809 - EPA 3550B

Matrix Spike Dup (B2J2809-MSD1)	Source: Y210617-01			Prepared: 10/28/2022 Analyzed: 11/01/2022						
Diesel (C10-C28)	898	50.0	mg/kg	1000	ND	89.8	70-130	2.28	35	
Residual Range Organics (C28-C40)	949	200	"	1000	ND	94.9	70-130	4.60	35	
<i>Surrogate: o-Terphenyl</i>	50		"	49.8		99.8	50-150			

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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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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 B2J2805 - DTPA Sorbitol Preparation

Blank (B2J2805-BLK1)

Prepared: 10/28/2022 Analyzed: 10/31/2022

Boron ND 0.100 mg/L

Duplicate (B2J2805-DUP1)

Source: Y210655-01

Prepared: 10/28/2022 Analyzed: 10/31/2022

Boron 0.0981 0.0991 mg/L 0.114 15.2 50

Batch B2J2806 - Saturated Paste Metals

Blank (B2J2806-BLK1)

Prepared: 10/28/2022 Analyzed: 11/01/2022

Calcium PPM ND 10.0 mg/L

SAR 0.00 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B2J2806-DUP1)

Source: Y210648-01

Prepared: 10/28/2022 Analyzed: 11/01/2022

Calcium PPM 31.6 10.0 mg/L 66.1 70.6 50 QR-DUP

SAR 0.00 SAR 0.201 200 200

Magnesium PPM 6.07 10.0 mg/L 12.0 65.7 50 QR-DUP

Sodium PPM 4.86 10.0 " 6.75 32.6 50

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 Project: Noble - McAllister 32-12

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B2J3108 - NO PREP										
Blank (B2J3108-BLK1)					Prepared: 10/31/2022 Analyzed: 11/01/2022					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B2J3108-DUP1)					Source: Y210648-01 Prepared: 10/31/2022 Analyzed: 11/01/2022					
pH	7.37		pH Units		7.79			5.54	25	
Specific Conductance (EC)	0.349	0.00500	mmhos/cm		0.483			32.2	25	QR-DUP

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 Project Number: [none]
 Project: Noble - McAllister 32-12

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 L646023 - 3550B

MSD (L 84127-MSD-L646023)		Source: 84127			Prepared: 10/31/2022 Analyzed: 11/01/2022					
2-Methylnaphthalene	0.327	0.00067	mg/Kg	0.164	0.357	NR	30-130	14.4	30	*
Fluorene	0.162	0.00067	"	0.164	0.101	37.1	30-130	20	30	
Pyrene	0.0792	0.00067	"	0.164	0.00859	43	30-130	35.1	30	*
Indeno(1,2,3-cd)pyrene	0.0971	0.00067	"	0.164	0.000737	58.7	30-130	34.7	30	*
Fluoranthene	0.0705	0.00067	"	0.164	0.0038	40.6	30-130	40.2	30	*
Dibenz(a,h)anthracene	0.11	0.00067	"	0.164	0.00122	66.3	30-130	33.3	30	*
Chrysene	0.0928	0.00067	"	0.164	0.0176	45.8	30-130	34.8	30	*
Naphthalene	0.171	0.00067	"	0.164	0.155	9.7	30-130	23.2	30	*
1-Methylnaphthalene	0.41	0.00067	"	0.164	0.433	NR	30-130	19.3	30	*
Benzo(k)fluoranthene	0.0504	0.00067	"	0.164	0.00109	30	30-130	36.8	30	*
Acenaphthene	0.0935	0.00067	"	0.164	0.0307	38.2	30-130	25.6	30	
Anthracene	0.0334	0.00067	"	0.164	0.000372	20.1	30-130	30.8	30	*
Benzo(a)anthracene	0.0901	0.00067	"	0.164	0.00352	52.7	30-130	30	30	*
Benzo(a)pyrene	0.108	0.00067	"	0.164	0.00158	64.8	30-130	36.3	30	*
Benzo(b)fluoranthene	0.0728	0.00067	"	0.164	0.00201	43.1	30-130	39.8	30	*
Surrogate: 2-Fluorobiphenyl	39.6		"	0.328	117	39.6	33-115			
Surrogate: Nitrobenzene-d5	42.3		"	0.328	151	42.3	29-110			
Surrogate: 4-Terphenyl-d14	46		"	0.328	157	46	33-122			

MS (L 84127-MS-L646023)		Source: 84127			Prepared: 10/31/2022 Analyzed: 11/01/2022					
Benzo(k)fluoranthene	0.0732	0.00067	mg/Kg	0.162	0.00109	44.5	30-130			
Acenaphthene	0.121	0.00067	"	0.162	0.0307	55.7	30-130			
Naphthalene	0.216	0.00067	"	0.162	0.155	37.6	30-130			
Indeno(1,2,3-cd)pyrene	0.138	0.00067	"	0.162	0.000737	84.7	30-130			
Fluorene	0.198	0.00067	"	0.162	0.101	59.8	30-130			
Fluoranthene	0.106	0.00067	"	0.162	0.0038	63	30-130			
Dibenz(a,h)anthracene	0.154	0.00067	"	0.162	0.00122	94.3	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - McAllister 32-12

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 L646023 - 3550B

MS (L 84127-MS-L646023)	Source: 84127			Prepared: 10/31/2022 Analyzed: 11/01/2022						
Chrysene	0.132	0.00067	mg/Kg	0.162	0.0176	70.6	30-130			
1-Methylnaphthalene	0.498	0.00067	"	0.162	0.433	40.1	30-130			
Benzo(a)pyrene	0.156	0.00067	"	0.162	0.00158	95.3	30-130			
Anthracene	0.0456	0.00067	"	0.162	0.000372	27.9	30-130			*
Pyrene	0.113	0.00067	"	0.162	0.00859	64.4	30-130			
2-Methylnaphthalene	0.378	0.00067	"	0.162	0.357	12.9	30-130			*
Benzo(b)fluoranthene	0.109	0.00067	"	0.162	0.00201	66	30-130			
Benzo(a)anthracene	0.122	0.00067	"	0.162	0.00352	73.1	30-130			
Surrogate: Nitrobenzene-d5	74.1		"	0.325	151	74.1	29-110			
Surrogate: 4-Terphenyl-d14	80.9		"	0.325	157	80.9	33-122			
Surrogate: 2-Fluorobiphenyl	64.6		"	0.325	117	64.6	33-115			

LCS (LCS-L646023)	Prepared: 10/31/2022 Analyzed: 11/01/2022									
Chrysene	0.0909	0.00067	mg/Kg	0.167		54.4	30-130			
Dibenz(a,h)anthracene	0.0743	0.00067	"	0.167		44.4	30-130			
Fluoranthene	0.0943	0.00067	"	0.167		56.4	30-130			
Fluorene	0.0803	0.00067	"	0.167		48	30-130			
Indeno(1,2,3-cd)pyrene	0.07	0.00067	"	0.167		41.9	30-130			
Naphthalene	0.0775	0.00067	"	0.167		46.4	30-130			
Benzo(k)fluoranthene	0.0863	0.00067	"	0.167		51.6	30-130			
Pyrene	0.0947	0.00067	"	0.167		56.7	30-130			
Benzo(a)pyrene	0.105	0.00067	"	0.167		62.8	30-130			
Benzo(a)anthracene	0.0932	0.00067	"	0.167		55.8	30-130			
Anthracene	0.0898	0.00067	"	0.167		53.7	30-130			
Acenaphthene	0.0825	0.00067	"	0.167		49.4	30-130			
2-Methylnaphthalene	0.086	0.00067	"	0.167		51.4	30-130			
1-Methylnaphthalene	0.0852	0.00067	"	0.167		51	30-130			

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Martin C Eckert III
 Project Number: [none]
 Project: Noble - McAllister 32-12

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 L646023 - 3550B

LCS (LCS-L646023)

Prepared: 10/31/2022 Analyzed: 11/01/2022

Benzo(b)fluoranthene	0.098	0.00067	mg/Kg	0.167		58.6	30-130			
Surrogate: Nitrobenzene-d5	44.1		"	0.333		44.1	29-110			
Surrogate: 4-Terphenyl-d14	59.4		"	0.333		59.4	33-122			
Surrogate: 2-Fluorobiphenyl	54		"	0.333		54	33-115			

LRB (LRB-L646023)

Prepared: 10/31/2022 Analyzed: 11/01/2022

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	0.00067	"				-			
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	0.00067	"				-			
1-Methylnaphthalene	ND	0.00067	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	47.1		"	0.333		47.1	29-110			
Surrogate: 4-Terphenyl-d14	60.9		"	0.333		60.9	33-122			
Surrogate: 2-Fluorobiphenyl	52.5		"	0.333		52.5	33-115			

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 - McAllister 32-12

Notes and Definitions

U Sample is Non-Detect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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.

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.



November 22, 2022

Eagle Environmental Consulting, Inc.

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - McAllister 32-12

Project Number - [none]

Attached are your analytical results for Noble - McAllister 32-12 received by Origins Laboratory, Inc. November 11, 2022. This project is associated with Origins project number Y211356-01.

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 - McAllister 32-12

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background -01@2'	Y211356-01	Soil	October 26, 2022 13:40	11/11/2022 14:05

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 - McAllister 32-12



www.originslaboratory.com

Y211356

page | of |

Client: Eagle Env. Consulting
 Address: 8000 W 44th Ave
 Wheat Ridge, CO 80033
 Telephone Number: 303-433-0479
 Email Address: mce3@eagle-environment.com

Project Manager: Martin Eckert III
 Project Name: McAllister #32-12
 Project Number:
 Samples Collected By: GK

Fax: 303.265.9645

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative				Matrix				Analysis	Sample Instructions	
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other			
Background-01 e2	10/26/22	1340	1	X				X						Saturated paste prep 1
														2
														3
														4
														5
														6
														7
														8
														9
														10
Relinquished By: Car-Hi Key	Date: 11/11/22	Time: 1405												Turnaround Time: Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
Relinquished By:	Date:	Time:												

Temp Received: 1.2
 Date Results Needed: Noble
 1725 Elk Place | Denver, CO 80211 | Phone: 303.433.1322

Origins Laboratory, Inc.
J. Bynon

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 - McAllister 32-12

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y21135C

Client: Eagle Environmental
 Client Project ID: McAllister #32-12

Checklist Completed by: TJH/DE

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

Date/time completed: 4/14/22

Airbill #: nil

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

Water _____ Other: _____

Cooler Number/Temperature: 1 / 12 °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⁾ ?	/			
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 HNO ₃ , HCl, H ₂ SO ₄) / (pH > 10 for samples preserved with NaAsO ₂ +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: JB (Project Manager)

11-16-22
 Date/Time Reviewed

Origins Laboratory, Inc.

J Bynon

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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 - McAllister 32-12

Backaround -01@2'
10/26/2022 1:40:00PM

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

Origins Laboratory, Inc.
Y211356-01 (Soil)

pH in Soil by 9045D

pH	8.38		pH Units	1	B2K1513	HJD	11/15/2022	11/16/2022	
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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 - McAllister 32-12

Saturated Paste - 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 B2K1513 - Saturated Paste pH/EC

Duplicate (B2K1513-DUP1)

Source: Y211349-01

Prepared: 11/15/2022 Analyzed: 11/16/2022

pH	8.23		pH Units		8.12			1.35	25	
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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 - McAllister 32-12

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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