

FIGURES

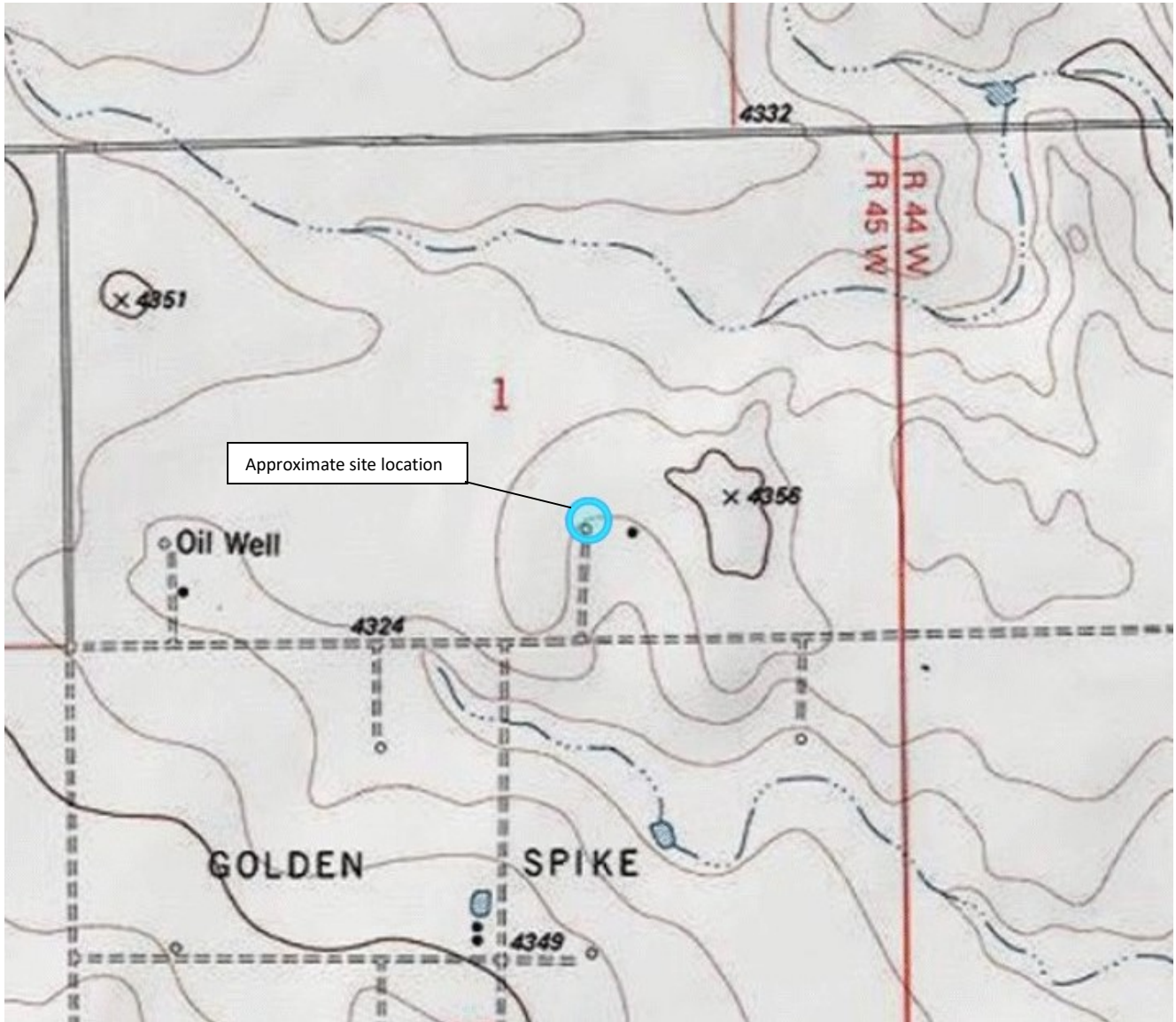
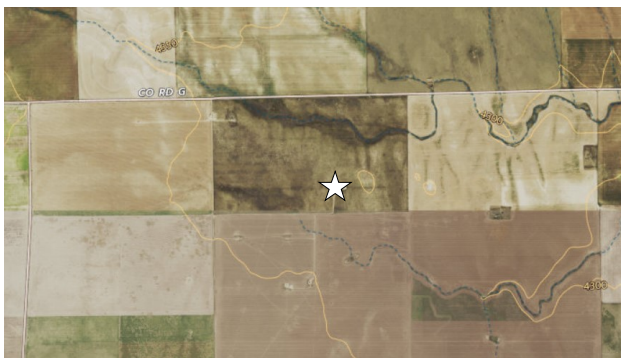


Figure 1

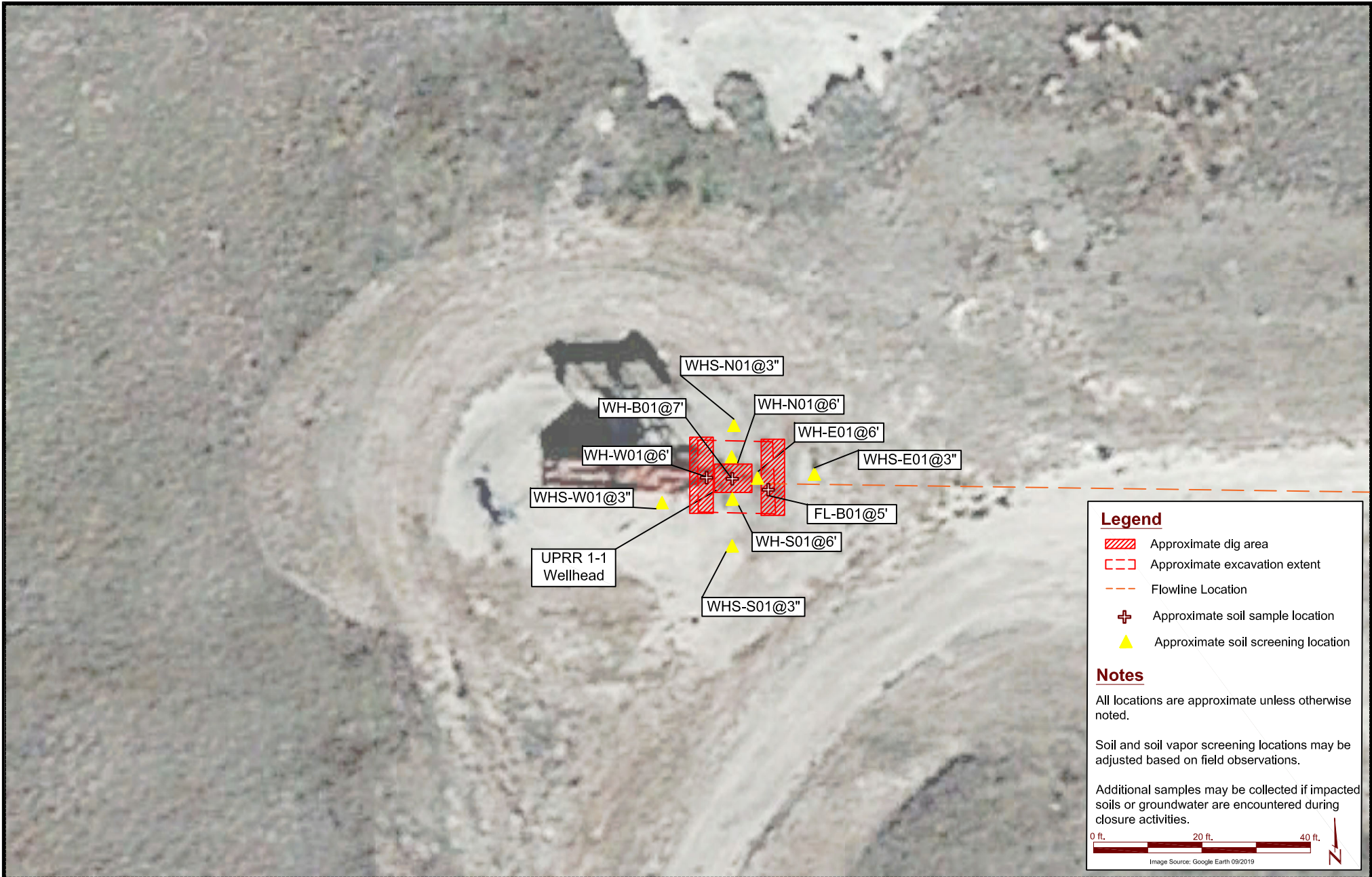
Site Location Map
Murfin Drilling Company
UPRR I-1
 SWSE Sec. 1-T16S-R45W
 Cheyenne County, Colorado



Source: USGS 7.5 Minute Topographic Map, South Ladder Creek, CO Quadrangle

Drawn By: AM Date: 08/17/2023





DATE: March 19, 2024

DESIGNED BY: D. Coloccia

DRAWN BY: A. McNall



Murfin Drilling Company
UPRR 1-1 Wellhead
 SWSE Sec. 1-T16S-R45W
 Cheyenne County, Colorado

Screening and Sample
 Location Map

Figure
 2



DATE: March 19, 2024

DESIGNED BY: D. Coloccia

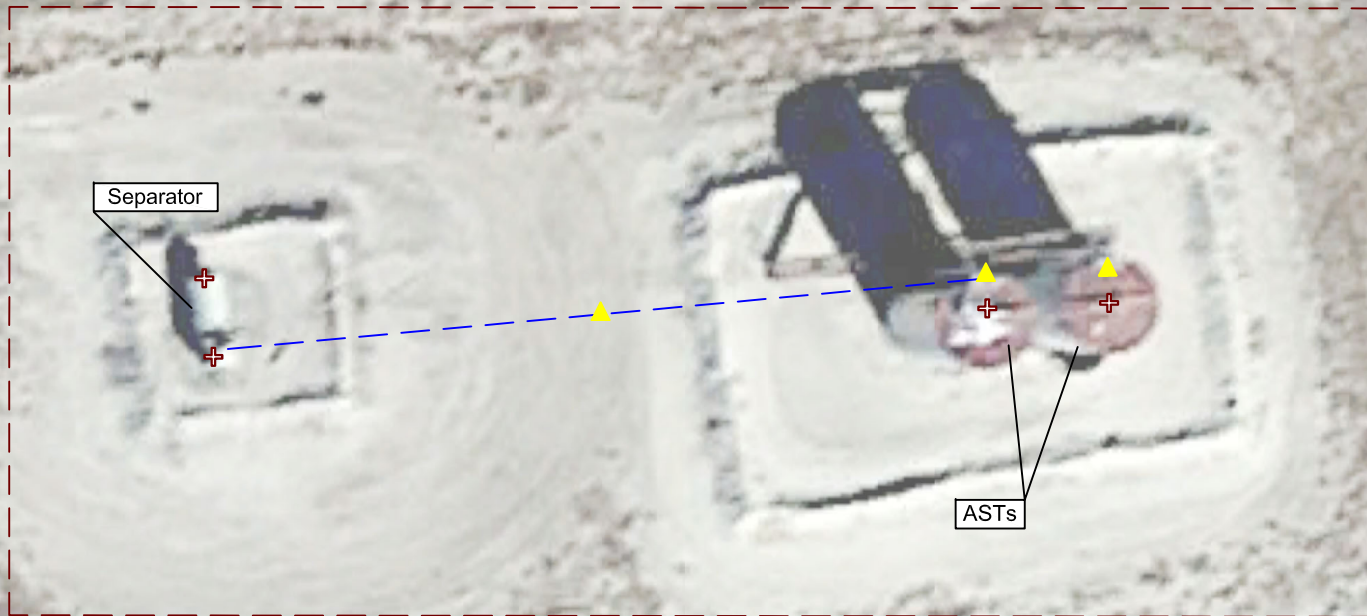
DRAWN BY: A. McNall



Murfin Drilling Company
UPRR 1-1 Flowline
 SWSE Sec. 1-T6S-R45W
 Cheyenne County, Colorado

Screening and Sample Location Map

Figure 3



Legend

- Proposed work area
- Dump Line Location
- + Proposed soil sample location
- ▲ Proposed soil screening location

Notes

All locations are approximate unless otherwise noted.

Soil and soil vapor screening locations may be adjusted based on field observations.

Additional samples may be collected if impacted soils or groundwater are encountered during closure activities.

0 ft. 20 ft. 40 ft.

N

Image Source: Google Earth 09/2019

DATE: August 17, 2023

DESIGNED BY: D. Coloccia

DRAWN BY: A. McNall

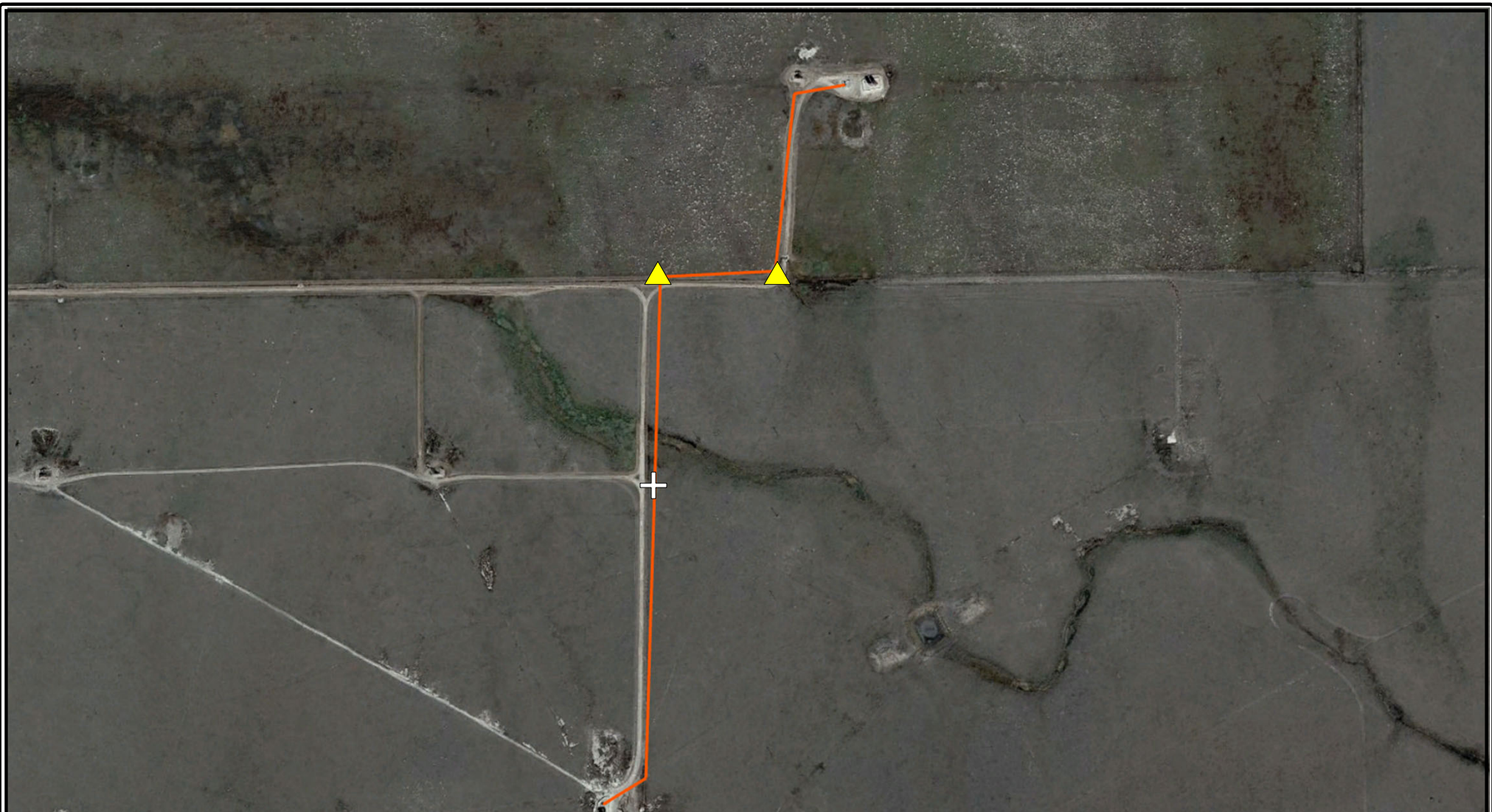
EAGLE
ENVIRONMENTAL
CONSULTING, LLC

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

Murfin Drilling Company
UPRR 1-1 Production Facility
SWSW Sec. 1-T16S-R45W
Cheyenne County, Colorado



Screening and Sample
Location Map

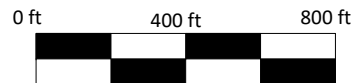
Figure
4



Murfin Drilling Company
UPRR 1-1
Off-Location Flowline, Facility ID 461952
N/2 S12, S/2SE4 S1, T16S R45W
Proposed Soil Screening Map

Legend

-  Proposed Soil Sampling Location
-  Proposed Soil Screening Location



Prepared By:
Ardor Environmental LLC

October 18, 2023

TABLES

TABLE 1
UPRR 1-1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
MURFIN DRILLING COMPANY

Sample Location	Date	Approximate Depth (feet bgs)	PID (ppm-v)	Visual Observation	Olfactory Observation	Latitude, Longitude	Submitted for Lab Analysis (Y/N)
Wellhead Soil Samples							
WH-B01 @ 7'	2/27/2024	7	38.2	N/S	Slight HC Odor	(38.689283, -102.408836)	Y
WH-N01 @ 6'	2/27/2024	6	7.0	N/S	N/O	(38.689294, -102.408835)	N
WH-S01 @ 6'	2/27/2024	6	0.5	N/S	N/O	(38.689271, -102.408830)	N
WH-E01 @ 6'	2/27/2024	6	10.2	N/S	N/O	(38.689282, -102.408816)	N
WH-W01 @ 6'	2/27/2024	6	170.6	HC Staining	HC Odor	(38.689283, -102.408856)	Y
WHS-N01 @ 3"	2/27/2024	0.25	1.3	N/S	N/O	(38.689336, -102.408868)	N
WHS-S01 @ 3"	2/27/2024	0.25	1.0	N/S	N/O	(38.689223, -102.408840)	N
WHS-E01 @ 3"	2/27/2024	0.25	0.9	N/S	N/O	(38.689288, -102.408789)	N
WHS-W01 @ 3"	2/27/2024	0.25	1.0	N/S	N/O	(38.689288, -102.408948)	N
Flowline Soil Samples							
FL-B01 @ 5'	2/27/2024	5	1.4	N/S	N/O	(38.689281, -102.408816)	Y
Wellhead Background Soil Samples							
BG-02 @ 3'	1/4/2024	3	0.8	N/S	N/O	(38.689757, -102.408781)	Y
BG-02 @ 6'	1/4/2024	6	1.4	N/S	N/O	(38.689757, -102.408781)	Y
BG-02 @ 9'	1/4/2024	9	1.5	N/S	N/O	(38.689757, -102.408781)	Y

Notes:

bgs = below ground surface
 PID = photoionization detector
 ppm-v = parts per million by volume

N/S = No Staining
 N/O = No Odor
 HC = Hydrocarbon

TABLE 2
UPRR 1-1
SOIL SAMPLE FIELD DATA SUMMARY TABLE
MURFIN DRILLING COMPANY

Sample Location	Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Naphthalene (mg/kg)	1,2,4-TMB (mg/kg)	1,3,5-TMB (mg/kg)
<i>ECMC standards for soil (mg/kg)</i> ⁽¹⁾		0.0026	0.69	0.78	9.9	500			0.0038	0.0081	0.0087
<i>ECMC standards for soil (mg/kg)</i> ⁽²⁾		1.2	490	5.8	58	500			2	30	27
Wellhead Soil Samples											
WH-B01 @ 7'	2/27/2024	<0.00200	<0.00200	<0.00200	0.00228	4.57	1040	1690	0.010	<0.00200	0.0355
WH-W01 @ 6'	2/27/2024	<0.00200	<0.00200	<0.00200	0.0298	244	5600	5790	0.559	0.0211	0.280
Flowline Soil Samples											
FL-B01 @ 5'	2/27/2024	<0.00200	<0.00200	<0.00200	<0.00200	<0.200	<25.0	<100	<0.002	<0.00200	<0.00200

Notes:

⁽¹⁾ ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy and Carbon Management Commission

< = Analytical result is less than the laboratory reporting limit

mg/kg = milligrams per kilogram

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-ORO = Total petroleum hydrocarbons - oil range organics

TMB = Trimethylbenzene

TABLE 3
UPRR 1-1
SOIL SAMPLE RESULTS SUMMARY TABLE - SOIL SUITABILITY FOR RECLAMATION
MURFIN DRILLING COMPANY

Sample Location	Date	Depth (ft. bgs)	pH	SAR	EC (mmhos/cm)	Boron (mg/L)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>			6 - 8.3	<6	<4	2
<i>Site Specific Background Limits</i>			8.46	1.76	0.357	0.298
Wellhead Soil Samples						
WH-B01 @ 7'	2/27/2024	7	8.26	20.6	4.26	0.795
WH-W01 @ 6'	2/27/2024	6	7.45	3.29	3.29	0.350
Flowline Soil Samples						
FL-B01 @ 5'	2/27/2024	5	7.89	9.78	6.20	0.149
Background Soil Samples						
BG-02 @ 3'	1/4/2024	3	8.37	0.637	0.304	0.298
BG-02 @ 6'	1/4/2024	6	8.46	1.76	0.357	0.267
BG-02 @ 9'	1/4/2024	9	8.45	0.665	0.281	0.295

Notes:

⁽¹⁾ Standards for soil are taken from ECMC Table 915-1, effective January 15, 2021

ECMC = Energy and Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

ft. bgs = Feet below ground surface

mmhos/cm = Millimhos per centimeter

mg/L = Milligrams per liter

SAR = Sodium Absorption Ratio

EC = Electrical Conductivity

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations



TABLE 4
UPRR 1-1
SOIL SAMPLE RESULTS SUMMARY TABLE - PAHs
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	1-Methyl-naphthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo(a)-anthracene (mg/kg)	Benzo(a)-pyrene (mg/kg)	Benzo(b)-fluoranthene (mg/kg)	Benzo(k)-fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo(a,h)-anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Ideno(1,2,3-cd)-pyrene (mg/kg)	Pyrene (mg/kg)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.006	0.019	0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		18	24	360	1,800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180
Wellhead Soil Samples															
WH-B01 @ 7'	2/27/2024	0.478	0.179	0.146	0.056	<0.005	<0.080	<0.080	<0.080	0.116	<0.080	<0.020	0.217	<0.020	0.053
WH-W01 @ 6'	2/27/2024	5.81	4.50	0.325	0.609	0.053	<0.020	0.065	0.069	0.316	<0.020	0.054	1.99	<0.020	0.333
Flowline Soil Samples															
FL-B01 @ 5'	2/27/2024	<0.002	<0.002	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

PAH = Polycyclic Aromatic Hydrocarbons

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations

TABLE 4
UPRR 1-1
SOIL SAMPLE RESULTS SUMMARY TABLE - METALS
KERR-McGEE OIL AND GAS ONSHORE LP

Sample Location	Date	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
<i>ECMC standards for soil (mg/kg) ⁽¹⁾</i>		0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
<i>ECMC standards for soil (mg/kg) ⁽²⁾</i>		0.68	15,000	71	0.3	3,100	400	1,500	390	390	23,000
<i>Site Specific Background Limits</i>		6.3	267.5	0.316	N/A	12	12.18	15.6	0.187	N/A	49
Wellhead Soil Samples											
WH-B01 @ 7'	2/27/2024	4.88*	161*	0.303	*<0.5	<9.45	33.2	11.9	<0.246	<0.0945	53.8
WH-W01 @ 6'	2/27/2024	4.90*	207*	0.636	*<0.5	<8.49	65.1	9.77	<0.221	<0.0849	76.8
Flowline Soil Samples											
FL-B01 @ 5'	2/27/2024	5.45*	394	0.210	*<0.5	<9.46	9.38	11.4	<0.246	<0.0946	46.8
Background Soil Samples											
BG-02 @ 3'	1/4/2024	5.04	210	0.236	<0.5	<9.53	9.13	11.9	0.126	<0.0953	39.2
BG-02 @ 6'	1/4/2024	3.61	211	0.165	<0.5	<8.74	5.91	7.34	<0.0874	<0.0874	26.9
BG-02 @ 9'	1/4/2024	4.97	214	0.253	<0.5	9.60	9.75	12.5	0.150	<0.0888	38.6

Notes:

⁽¹⁾ Standards are taken from ECMC Table 915-1: Protection of Groundwater Soil Screening Level Concentrations, effective January 15, 2021

⁽²⁾ Standards for soil are taken from ECMC Table 915-1: Residential Soil Screening Level Concentrations, effective January 15, 2021

ECMC = Energy & Carbon Management Commission

(<) = Analytical result is less than the indicated laboratory reporting limit

mg/kg = milligrams per kilogram

* = compound is in accordance with the ECMC Table 915-1 Footnote 9.

Values presented in **BOLD** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations and background concentrations.

Values presented in **BOLD*** contained concentrations exceeding ECMC Table 915-1 Cleanup Concentrations, but are within background concentrations.



**ATTACHMENT A
LABORATORY DATA**



March 18, 2024

Eagle Environmental Consulting, LLC

Dan Coloccia

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Murfin - UPRR 1-1

Project Number - [none]

Attached are your analytical results for Murfin - UPRR 1-1 received by Origins Laboratory, Inc. February 28, 2024. This project is associated with Origins project number Y402695-01.

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, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Dan Coloccia
Project Number: [none]
Project: Murfin - UPRR 1-1

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-B01@7'	Y402695-01	Soil	February 27, 2024 11:03	02/28/2024 12:04
WH-W01@6'	Y402695-02	Soil	February 27, 2024 11:00	02/28/2024 12:04
FL-B01@6'	Y402695-03	Soil	February 27, 2024 11:05	02/28/2024 12:04

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4402693

Client: Eagle

Client Project ID: UPRR 1-1

Checklist Completed by: WHILEAS

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

Date/time completed: 2/28/12

Airbill #: N/A

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

Cooler Number/Temperature: 149 °C / _____ °C / _____ °C (Describe) _____ °C

Thermometer ID: 7004

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 (Project Manager) [Signature]

Date/Time Reviewed 2/28/12

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-B01@7'
2/27/2024 11:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.795		0.0992	mg/L	1	B4C0509	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	1040		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	
Residual Range Organics (C28-C40)	1690		100	"	"	"	"	"	

Surrogate: o-Terphenyl	121 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2931	02/29/2024	02/29/2024	U
1,3,5-Trimethylbenzene	0.0355		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.00228		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	4.57		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	92.4 %		70-130			"	"	"	
Surrogate: Toluene-d8	100 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-B01@7'
2/27/2024 11:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	119 %	70-130				B4B29 31	02/29/2024	02/29/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	4.43	0.499	meq/L	10	[CALC]		03/06/2024	03/07/2024	
Magnesium	1.35	0.823	"	"	"	"	"	"	
Sodium	35.1	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.478	0.002	mg/kg	1	B4C0102		03/01/2024	03/01/2024	
2-Methylnaphthalene	0.179	0.002	"	"	"	"	"	"	
Acenaphthene	0.146	0.020	"	"	"	"	"	"	
Anthracene	0.056	0.020	"	"	"	"	"	"	
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.080	"	4	"	"	"	03/04/2024	R-01, U
Benzo (b) fluoranthene	ND	0.080	"	"	"	"	"	"	R-01, U
Benzo (k) fluoranthene	ND	0.080	"	"	"	"	"	"	R-01, U
Chrysene	0.116	0.020	"	1	"	"	"	03/01/2024	
Dibenz (a,h) anthracene	ND	0.080	"	4	"	"	"	03/04/2024	R-01, U
Fluoranthene	ND	0.020	"	1	"	"	"	03/01/2024	U
Fluorene	0.217	0.020	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.080	"	4	"	"	"	03/04/2024	R-01, U

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-B01@7'

2/27/2024 11:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-01 (Soil)

PAH by EPA 8270E

Naphthalene	0.010		0.002	mg/kg	1	B4C0102	03/01/2024	03/01/2024	
Pyrene	0.053		0.020	"	"	"	"	"	

Surrogate: Fluorene-d10	94.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	121 %		60-130			"	"	"	
Surrogate: Pyrene-d10	93.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	03/04/2024	

pH in Soil by 9045D

pH	8.26			pH Units	1	B4C0622	03/06/2024	03/07/2024	
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SAR by 20B Saturated Paste

SAR	20.6		0.0100	SAR	1	B4C0606	03/06/2024	03/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	4.26		0.00500	mmhos/cm	1	B4C0622	03/06/2024	03/07/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.88		0.274	mg/kg	10	B4B2740	02/28/2024	03/04/2024	
Barium	161		9.45	"	"	"	"	"	
Cadmium	0.303		0.0945	"	"	"	"	"	

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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-B01@7'

2/27/2024 11:03:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-01 (Soil)

Table 915 metals by EPA 6020B

Copper	ND		9.45	mg/kg	10	B4B2740	02/28/2024	03/04/2024	
Lead	33.2		0.945	"	"	"	"	"	
Nickel	11.9		0.945	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0945	"	"	"	"	"	
Zinc	53.8		35.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737853	02/27/2024	03/14/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-W01@6'
2/27/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.350		0.100	mg/L	1	B4C0509	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	5600		250	mg/kg	10	B4B2936	02/29/2024	03/08/2024	
Residual Range Organics (C28-C40)	5790		1000	"	"	"	"	"	

Surrogate: o-Terphenyl	136 %		50-150			"	"	"	U
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	0.0211		0.00200	mg/kg	1	B4B2931	02/29/2024	02/29/2024	
1,3,5-Trimethylbenzene	0.280		0.00200	"	"	"	"	"	
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	0.0298		0.00200	"	"	"	"	"	
Gasoline Range Hydrocarbons	244		5.00	"	25	"	"	03/01/2024	

Surrogate: 1,2-Dichloroethane-d4	86.0 %		70-130			"	"	02/29/2024	
Surrogate: Toluene-d8	98.4 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	221 %		70-130			"	"	"	S-GC

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-W01@6'
2/27/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-02 (Soil)

Metals by Saturated Paste by EPA 6010

Calcium	24.2	0.499	meq/L	10	[CALC]	03/06/2024	03/07/2024	
Magnesium	11.2	0.823	"	"	"	"	"	
Sodium	13.8	0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	5.81	0.020	mg/kg	10	B4C0102	03/01/2024	03/04/2024	
2-Methylnaphthalene	4.50	0.020	"	"	"	"	"	
Acenaphthene	0.325	0.200	"	"	"	"	"	
Anthracene	0.609	0.020	"	1	"	"	03/01/2024	
Benzo (a) anthracene	0.053	0.005	"	"	"	"	"	
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	I-01, U
Benzo (b) fluoranthene	0.065	0.020	"	"	"	"	"	I-01
Benzo (k) fluoranthene	0.069	0.020	"	"	"	"	"	I-01
Chrysene	0.316	0.020	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	I-01, U
Fluoranthene	0.054	0.020	"	"	"	"	"	
Fluorene	1.99	0.200	"	10	"	"	03/04/2024	
Indeno (1,2,3-cd) pyrene	ND	0.020	"	1	"	"	03/01/2024	I-01, U
Naphthalene	0.559	0.002	"	"	"	"	"	
Pyrene	0.333	0.020	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-W01@6'
2/27/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-02 (Soil)

PAH by EPA 8270E

Surrogate: Fluorene-d10	87.6 %		60-130			B4C01 02	03/01/2024	03/01/2024	
Surrogate: Anthracene-d10	123 %		60-130			"	"	"	
Surrogate: Pyrene-d10	81.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	88.2 %		60-130			"	"	"	I-01

pH in Soil by 9045D

pH	7.45			pH Units	1	B4C0622	03/06/2024	03/07/2024	
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SAR by 20B Saturated Paste

SAR	3.29		0.0100	SAR	1	B4C0606	03/06/2024	03/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	3.29		0.00500	mmhos/cm	1	B4C0622	03/06/2024	03/07/2024	
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Table 915 metals by EPA 6020B

Arsenic	4.90		0.246	mg/kg	10	B4B2740	02/28/2024	03/04/2024	
Barium	207		8.49	"	"	"	"	"	
Cadmium	0.636		0.0849	"	"	"	"	"	
Copper	ND		8.49	"	"	"	"	"	
Lead	65.1		0.849	"	"	"	"	"	
Nickel	9.77		0.849	"	"	"	"	"	

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

WH-W01@6'

2/27/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-02 (Soil)

Table 915 metals by EPA 6020B

Selenium	ND		0.221	mg/kg	10	B4B2740	02/28/2024	03/04/2024	
Silver	ND		0.0849	"	"	"	"	"	
Zinc	76.8		31.4	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737853	02/27/2024	03/14/2024	
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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, LLC
 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

FL-B01@6'

2/27/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y402695-03 (Soil)

Boron (DTPA Sorbitol)

Boron	0.149		0.0986	mg/L	1	B4C0509	03/05/2024	03/06/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4B2936	02/29/2024	03/08/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	93.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4B2931	02/29/2024	02/29/2024	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	83.2 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

FL-B01@6'

2/27/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402695-03 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.2 %		70-130			B4B29 31	02/29/2024	02/29/2024	
Surrogate: 4-Bromofluorobenzene	96.9 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	21.0	0.499	meq/L	10	[CALC]		03/06/2024	03/07/2024	
Magnesium	10.3	0.823	"	"	"	"	"	"	
Sodium	38.7	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4C0102		03/01/2024	03/01/2024	U
2-Methylnaphthalene	ND	0.002	"	"	"	"	"	"	U
Acenaphthene	ND	0.020	"	"	"	"	"	"	U
Anthracene	ND	0.020	"	"	"	"	"	"	U
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	U
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	U
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	U
Chrysene	ND	0.020	"	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	U
Fluoranthene	ND	0.020	"	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

FL-B01@6'

2/27/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402695-03 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4C0102	03/01/2024	03/01/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	88.4 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.2 %		60-130			"	"	"	
Surrogate: Pyrene-d10	89.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	95.3 %		60-130			"	"	"	

pH in Soil by 9045D

pH	7.89			pH Units	1	B4C0622	03/06/2024	03/07/2024	
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SAR by 20B Saturated Paste

SAR	9.78		0.0100	SAR	1	B4C0606	03/06/2024	03/07/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	6.20		0.00500	mmhos/cm	1	B4C0622	03/06/2024	03/07/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

FL-B01@6'

2/27/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y402695-03 (Soil)

Table 915 metals by EPA 6020B

Arsenic	5.45		0.274	mg/kg	10	B4B2740	02/28/2024	03/04/2024	
Barium	394		9.46	"	"	"	"	"	
Cadmium	0.210		0.0946	"	"	"	"	"	
Copper	ND		9.46	"	"	"	"	"	
Lead	9.38		0.946	"	"	"	"	"	
Nickel	11.4		0.946	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	ND		0.0946	"	"	"	"	"	
Zinc	46.8		35.0	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L737853	02/27/2024	03/14/2024	
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Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2931 - EPA 5030 (soil)

Blank (B4B2931-BLK1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

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		80.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.2	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2931 - EPA 5030 (soil)

LCS (B4B2931-BS1)

Prepared: 02/29/2024 Analyzed: 02/29/2024

1,2,4-Trimethylbenzene	0.110	0.00200	mg/kg	0.100		110	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100		112	70-130			
Benzene	0.0986	0.00200	"	0.100		98.6	70-130			
Ethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Naphthalene	0.110	0.00380	"	0.100		110	70-130			
Toluene	0.101	0.00200	"	0.100		101	70-130			
o-Xylene	0.112	0.00200	"	0.100		112	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.7	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2931 - EPA 5030 (soil)

Matrix Spike (B4B2931-MS1)	Source: Y402695-01			Prepared: 02/29/2024 Analyzed: 02/29/2024						
1,2,4-Trimethylbenzene	0.0765	0.00200	mg/kg	0.100	ND	76.5	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	0.0355	76.5	70-130			
Benzene	0.0827	0.00200	"	0.100	ND	82.7	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0598	0.00380	"	0.100	0.000680	59.2	70-130			QM-07
Toluene	0.0846	0.00200	"	0.100	ND	84.6	70-130			
o-Xylene	0.112	0.00200	"	0.100	0.00228	110	70-130			
m,p-Xylene	0.215	0.00400	"	0.200	ND	107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.10		"	0.125		82.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.125		128	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2931 - EPA 5030 (soil)

Matrix Spike Dup (B4B2931-MSD1)	Source: Y402695-01		Prepared: 02/29/2024 Analyzed: 02/29/2024							
1,2,4-Trimethylbenzene	0.0622	0.00200	mg/kg	0.100	ND	62.2	70-130	20.6	20	QM-07
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	0.0355	76.8	70-130	0.267	20	
Benzene	0.0777	0.00200	"	0.100	ND	77.7	70-130	6.26	20	
Ethylbenzene	0.0975	0.00200	"	0.100	ND	97.5	70-130	10.9	20	
Naphthalene	0.0496	0.00380	"	0.100	0.000680	49.0	70-130	18.6	20	QM-07
Toluene	0.0765	0.00200	"	0.100	ND	76.5	70-130	10.0	20	
o-Xylene	0.102	0.00200	"	0.100	0.00228	99.2	70-130	9.94	20	
m,p-Xylene	0.190	0.00400	"	0.200	ND	95.0	70-130	12.3	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.3	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.17		"	0.125		133	70-130			S-GC

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2936 - EPA 3550B										
Blank (B4B2936-BLK1)										
					Prepared: 02/29/2024 Analyzed: 03/04/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	18		"	24.9		71.5	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2936 - EPA 3550B

LCS (B4B2936-BS1)

Prepared: 02/29/2024 Analyzed: 03/04/2024

Diesel (C10-C28)	925	50.0	mg/kg	1000		92.5	70-130			
Residual Range Organics (C28-C40)	992	200	"	1000		99.2	70-130			
Surrogate: o-Terphenyl	42		"	49.8		83.9	50-150			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2936 - EPA 3550B

Matrix Spike (B4B2936-MS1)	Source: Y402686-01			Prepared: 02/29/2024 Analyzed: 03/04/2024						
Diesel (C10-C28)	1010	50.0	mg/kg	1000	ND	101	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
<i>Surrogate: o-Terphenyl</i>	39		"	49.8		78.0	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4B2936 - EPA 3550B										
Matrix Spike Dup (B4B2936-MSD1)					Source: Y402686-01					Prepared: 02/29/2024 Analyzed: 03/04/2024
Diesel (C10-C28)	863	50.0	mg/kg	1000	ND	86.3	70-130	16.1	35	
Residual Range Organics (C28-C40)	973	200	"	1000	ND	97.3	70-130	10.9	35	
Surrogate: o-Terphenyl	29		"	49.8		58.7	50-150			

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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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Metals by EPA 6000/7000 Series Methods - 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 B4B2740 - EPA 3050B

Blank (B4B2740-BLK1)

Prepared: 02/28/2024 Analyzed: 03/04/2024

Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							
Copper	ND	10.0	"							
Lead	ND	1.00	"							
Nickel	ND	1.00	"							
Selenium	ND	0.260	"							
Silver	ND	0.100	"							
Zinc	ND	37.0	"							

LCS (B4B2740-BS1)

Prepared: 02/28/2024 Analyzed: 03/04/2024

Arsenic	5.29	0.290	mg/kg	5.00		106	80-120			
Barium	504	10.0	"	500		101	80-120			
Cadmium	5.64	0.100	"	5.00		113	80-120			
Copper	50.8	10.0	"	50.0		102	80-120			
Lead	4.74	1.00	"	5.00		94.8	80-120			
Nickel	5.54	1.00	"	5.00		111	80-120			
Selenium	9.80	0.260	"	9.50		103	80-120			
Silver	5.28	0.100	"	5.00		106	80-120			
Zinc	57.5	37.0	"	50.0		115	80-120			

Matrix Spike (B4B2740-MS1)

Source: Y402651-04

Prepared: 02/28/2024 Analyzed: 03/04/2024

Origins Laboratory, Inc.



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Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

Metals by EPA 6000/7000 Series Methods - 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 B4B2740 - EPA 3050B

Matrix Spike (B4B2740-MS1)		Source: Y402651-04			Prepared: 02/28/2024 Analyzed: 03/04/2024					
Arsenic	9.90	0.279	mg/kg	4.82	4.72	108	75-125			
Barium	781	9.63	"	482	246	111	75-125			
Cadmium	5.62	0.0963	"	4.82	0.179	113	75-125			
Copper	53.4	9.63	"	48.2	8.72	92.7	75-125			
Lead	14.7	0.963	"	4.82	9.45	109	75-125			
Nickel	18.1	0.963	"	4.82	13.8	89.2	75-125			
Selenium	10.8	0.250	"	9.15	ND	118	75-125			
Silver	4.40	0.0963	"	4.82	0.0384	90.6	75-125			
Zinc	111	35.6	"	48.2	54.6	117	75-125			

Matrix Spike Dup (B4B2740-MSD1)		Source: Y402651-04			Prepared: 02/28/2024 Analyzed: 03/04/2024					
Arsenic	9.50	0.275	mg/kg	4.74	4.72	101	75-125	4.20	20	
Barium	665	9.49	"	474	246	88.4	75-125	16.1	20	
Cadmium	5.55	0.0949	"	4.74	0.179	113	75-125	1.19	20	
Copper	52.7	9.49	"	47.4	8.72	92.8	75-125	1.22	20	
Lead	14.3	0.949	"	4.74	9.45	102	75-125	2.79	20	
Nickel	18.2	0.949	"	4.74	13.8	92.3	75-125	0.436	20	
Selenium	10.2	0.247	"	9.01	ND	113	75-125	5.79	20	
Silver	4.38	0.0949	"	4.74	0.0384	91.5	75-125	0.596	20	
Zinc	107	35.1	"	47.4	54.6	110	75-125	3.65	20	

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0102 - EPA 3580

Blank (B4C0102-BLK1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		95.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4C0102-BS1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.189	0.002	mg/kg	0.200		94.6	70-130			
2-Methylnaphthalene	0.186	0.002	"	0.200		93.1	70-130			
Acenaphthene	0.192	0.020	"	0.200		95.8	70-130			
Anthracene	0.194	0.020	"	0.200		97.2	70-130			

Origins Laboratory, Inc.



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

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0102 - EPA 3580

LCS (B4C0102-BS1)

Prepared: 03/01/2024 Analyzed: 03/01/2024

Benzo (a) anthracene	0.194	0.005	mg/kg	0.200		97.2	70-130			
Benzo (a) pyrene	0.215	0.020	"	0.200		108	70-130			
Benzo (b) fluoranthene	0.204	0.020	"	0.200		102	70-130			
Benzo (g,h,i) perylene	0.192	0.020	"	0.200		95.8	70-130			
Benzo (k) fluoranthene	0.183	0.020	"	0.200		91.7	70-130			
Chrysene	0.198	0.020	"	0.200		99.1	70-130			
Dibenz (a,h) anthracene	0.236	0.020	"	0.200		118	70-130			
Fluoranthene	0.193	0.020	"	0.200		96.5	70-130			
Fluorene	0.189	0.020	"	0.200		94.5	70-130			
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200		104	70-130			
Naphthalene	0.194	0.002	"	0.200		96.8	70-130			
Phenanthrene	0.200	0.020	"	0.200		100	70-130			
Pyrene	0.203	0.020	"	0.200		102	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.5	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4C0102-MS1)

Source: Y402694-01

Prepared: 03/01/2024 Analyzed: 03/01/2024

1-Methylnaphthalene	0.200	0.002	mg/kg	0.200	ND	100	70-130			
2-Methylnaphthalene	0.196	0.002	"	0.200	ND	97.9	70-130			
Acenaphthene	0.199	0.020	"	0.200	ND	99.6	70-130			
Anthracene	0.209	0.020	"	0.200	ND	104	70-130			
Benzo (a) anthracene	0.183	0.005	"	0.200	0.003	90.0	70-130			
Benzo (a) pyrene	0.225	0.020	"	0.200	ND	113	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200	ND	98.3	70-130			
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0009	103	70-130			

Origins Laboratory, Inc.



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 8000 W 44th Ave
 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0102 - EPA 3580

Matrix Spike (B4C0102-MS1)		Source: Y402694-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
Benzo (k) fluoranthene	0.198	0.020	mg/kg	0.200	ND	99.2	70-130			
Chrysene	0.206	0.020	"	0.200	0.0004	103	70-130			
Dibenz (a,h) anthracene	0.248	0.020	"	0.200	ND	124	70-130			
Fluoranthene	0.187	0.020	"	0.200	ND	93.3	70-130			
Fluorene	0.198	0.020	"	0.200	0.0003	98.9	70-130			
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130			
Phenanthrene	0.208	0.020	"	0.200	ND	104	70-130			
Pyrene	0.202	0.020	"	0.200	ND	101	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	190		"	200		94.9	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike Dup (B4C0102-MSD1)		Source: Y402694-01			Prepared: 03/01/2024 Analyzed: 03/01/2024					
1-Methylnaphthalene	0.187	0.002	mg/kg	0.200	ND	93.7	70-130	6.62	20	
2-Methylnaphthalene	0.185	0.002	"	0.200	ND	92.6	70-130	5.55	20	
Acenaphthene	0.188	0.020	"	0.200	ND	93.9	70-130	5.86	20	
Anthracene	0.196	0.020	"	0.200	ND	97.9	70-130	6.35	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	0.003	89.7	70-130	0.302	20	
Benzo (a) pyrene	0.213	0.020	"	0.200	ND	107	70-130	5.41	20	
Benzo (b) fluoranthene	0.205	0.020	"	0.200	ND	102	70-130	4.20	20	
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.0009	98.6	70-130	4.23	20	
Benzo (k) fluoranthene	0.188	0.020	"	0.200	ND	94.0	70-130	5.40	20	
Chrysene	0.193	0.020	"	0.200	0.0004	96.2	70-130	6.76	20	
Dibenz (a,h) anthracene	0.243	0.020	"	0.200	ND	121	70-130	2.09	20	
Fluoranthene	0.185	0.020	"	0.200	ND	92.5	70-130	0.916	20	

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Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

EPA 8270E (SW846) - Semivolatile Organic Compounds - 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 B4C0102 - EPA 3580

Matrix Spike Dup (B4C0102-MSD1)	Source: Y402694-01			Prepared: 03/01/2024 Analyzed: 03/01/2024						
Fluorene	0.185	0.020	mg/kg	0.200	0.0003	92.3	70-130	6.83	20	
Indeno (1,2,3-cd) pyrene	0.209	0.020	"	0.200	ND	104	70-130	4.25	20	
Naphthalene	0.192	0.002	"	0.200	ND	96.2	70-130	4.98	20	
Phenanthrene	0.195	0.020	"	0.200	ND	97.3	70-130	6.63	20	
Pyrene	0.197	0.020	"	0.200	ND	98.6	70-130	2.51	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.3	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		98.2	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

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Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

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 B4C0509 - DTPA Sorbitol Preparation

Blank (B4C0509-BLK1)

Prepared: 03/05/2024 Analyzed: 03/06/2024

Boron ND 0.100 mg/L

Duplicate (B4C0509-DUP1)

Source: Y402695-01

Prepared: 03/05/2024 Analyzed: 03/06/2024

Boron 0.912 0.0985 mg/L 0.795 13.7 50

Batch B4C0606 - Saturated Paste Metals

Blank (B4C0606-BLK1)

Prepared: 03/06/2024 Analyzed: 03/07/2024

Calcium PPM ND 10.0 mg/L

SAR ND 0.0100 SAR

Magnesium PPM ND 10.0 mg/L

Sodium PPM ND 10.0 "

Duplicate (B4C0606-DUP1)

Source: Y402695-01

Prepared: 03/06/2024 Analyzed: 03/07/2024

Calcium PPM 84.3 10.0 mg/L 88.7 5.05 50

SAR ND 0.0100 SAR 20.6 200

Magnesium PPM 15.8 10.0 mg/L 16.4 3.78 50

Sodium PPM 812 10.0 " 807 0.681 50

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 Wheat Ridge CO 80033

Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4C0622 - Saturated Paste pH/EC										
Blank (B4C0622-BLK1)					Prepared: 03/06/2024 Analyzed: 03/07/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4C0622-DUP1)					Source: Y402695-01 Prepared: 03/06/2024 Analyzed: 03/07/2024					
pH	8.28		pH Units		8.26			0.242	25	
Specific Conductance (EC)	4.04	0.00500	mmhos/cm		4.26			5.16	25	

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Dan Coloccia
 Project Number: [none]
 Project: Murfin - UPRR 1-1

Total Metals by 7196A - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L737853 -										
DUP (L 98927-DUP)		Source: Y402695-03			Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 98927-MS)		Source: Y402695-03			Prepared: Analyzed: 03/14/2024					
Chromium, Hexavalent	31.5	2.5	mg/Kg	39.8	< 0.244	79	75-125			
LCS (LCS)		Prepared: Analyzed: 03/14/2024								
Chromium, Hexavalent	6.34	0.5	mg/Kg	8		79	75-125			
LRB (LRB)		Prepared: Analyzed: 03/14/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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

Dan Coloccia
Project Number: [none]
Project: Murfin - UPRR 1-1

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.
- R-01 The Reporting Limit for this analyte has been raised to account for matrix interference.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- I-01 Due to matrix interference, the sample cannot be accurately quantified. The reported result is qualitative.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

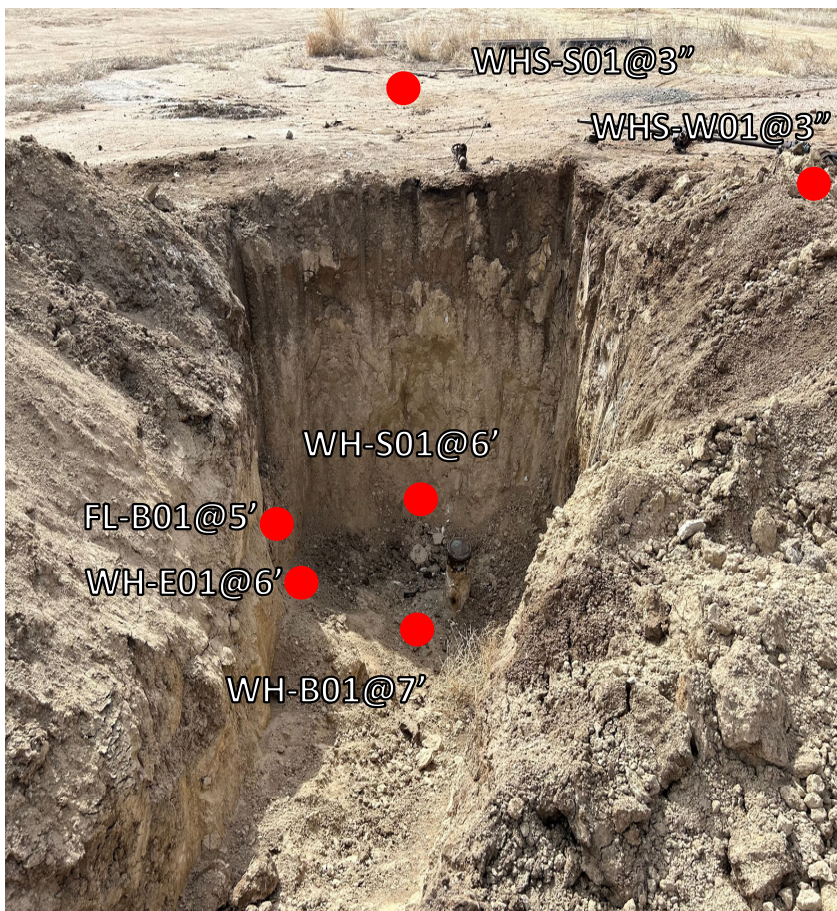
ATTACHMENT B
FIELD NOTES AND PHOTOGRAPHIC LOG

UPRR 1-1
Photographic Log
Remediation #32761

Wellhead and Flowline Decommissioning



Wellhead/Flowline



Wellhead sample locations looking south.



Wellhead sample locations looking northwest.

Wellhead Closure Checklist

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

Additional attachments (optional):	Pit Closure	Tank Battery Closure	Flowline Closure	Partially Buried Vault Closure
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Site Name & COGCC Facility Number: VPRR 1-1 Date: 2-27-24 Remediation Project #: 32761

Associated Wells: 05-017-06031 Age of Site: Years Number of Photos Attached:

Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) (38.689283, -102.408836) Estimated Facility Size (acres):

General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)
Site in good condition

USCS Soil Type: CL Estimated Depth to Groundwater: <20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
HC impacted soil encountered @ WH-B01@7' & WH-W01@6'

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)

Wellhead(s)						
Well API						
Well API	<u>05-017-06031</u>					
Age						
Condition of surface around wellhead	<u>good condition</u>					
PID Readings						
Condition of subsurface (estimate nearest)						
PID Readings	<u>38.2</u>	<u>7.0</u>	<u>0.5</u>	<u>10.2</u>	<u>170.6</u>	<u>1.3</u>
Sample taken? Location/Sample ID#	<u>WH-B01@7'</u>	<u>WH-W01@6'</u>	<u>WH-S01@6'</u>	<u>WH-E01@6'</u>	<u>WH-W01@6'</u>	<u>WH-S01@3'</u>
Photo Number(s)						

Other observations regarding wellheads:
See attached table for remaining field screenings

Summary	
Was impacted soil identified? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes - less than 10 cubic yards <input type="checkbox"/> Yes - more than 10 cubic yards	
Total number of samples field screened: <u>9</u>	Total number of samples collected: <u>9</u>
Highest PID Reading: <u>170.6</u>	Total number of samples submitted to lab for analysis: <u>2</u>
If more than 10 cubic yards of impacted soil were observed:	
Vertical extent:	Estimated spill volume:
Lateral extent:	Volume of soil removed:
Is additional investigation required?	
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes - not impacted or in contact with impacted soils <input type="checkbox"/> Yes - groundwater impacted and/or in contact with impacted soils	
Measured depth to groundwater:	Was remedial groundwater removal conducted? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Groundwater was encountered:	Commencement date of removal:
Sheen on groundwater? <input type="checkbox"/> Yes <input type="checkbox"/> No	Volume of groundwater removed prior to sampling:
Free product observed? <input type="checkbox"/> Yes <input type="checkbox"/> 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:	

Flowline Closure Checklist

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

Additional Attachments:	Tank Battery Closure	Wellhead Closure	Pit Closure	Partially Buried Vault Closure
Site Name & COGCC Facility Number: UPRB 1-1		Date: 2-27-24		Remediation Project #: 32761
Associated Wells: 05-017-06031		Age of Site: years		Number of Photos Attached:

Starting point: (GPS coordinates and descriptions)
 (38.689281, -102.408843)

End point: (GPS coordinates and descriptions)
 (38.689207, -102.408331)

USCS Soil Type: CL Estimated Depth to Groundwater: < 20'

Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
 None

Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)
 None

Flowlines

Flowline type	Depth	Age	Length	Construction Material	Were flowlines pulled?	Visual integrity of lines	Visual impacts if trenched	PID Readings if trenched	Sample taken? Location/Sample ID#	Photo Number(s)
					NO			1.4	FL-89105	

Other observations regarding on location flowlines:

Summary

Was impacted soil identified? No Yes - less than 10 cubic yards Yes - more than 10 cubic yards

Total number of samples field screened: / Total number of samples collected: /

Highest PID Reading: 1.4 Total number of samples submitted to lab for analysis: /

If more than 10 cubic yards of impacted soil were observed:

Vertical extent: Estimated spill volume:

Lateral extent: Volume of soil removed:

Is additional investigation required?

Was groundwater encountered during the investigation? 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: