



Facility Closure Investigation and Environmental Summary

Brown 44-24 Wellhead

ECMC Remediation Project #25490

Weld County, Colorado

Attachments:

Figure 1 – General Location Map

Figure 2 – Wellhead Soil Sample and Field Screening Locations

Table 1 – Soil Sample and Field Screening Location Information

Table 2 – Soil Analytical Results Summary Table – Volatile Organics

Table 3 – Soil Analytical Results Summary Table – PAHs

Table 4 – Soil Analytical Results Summary Table – Soil Suitability

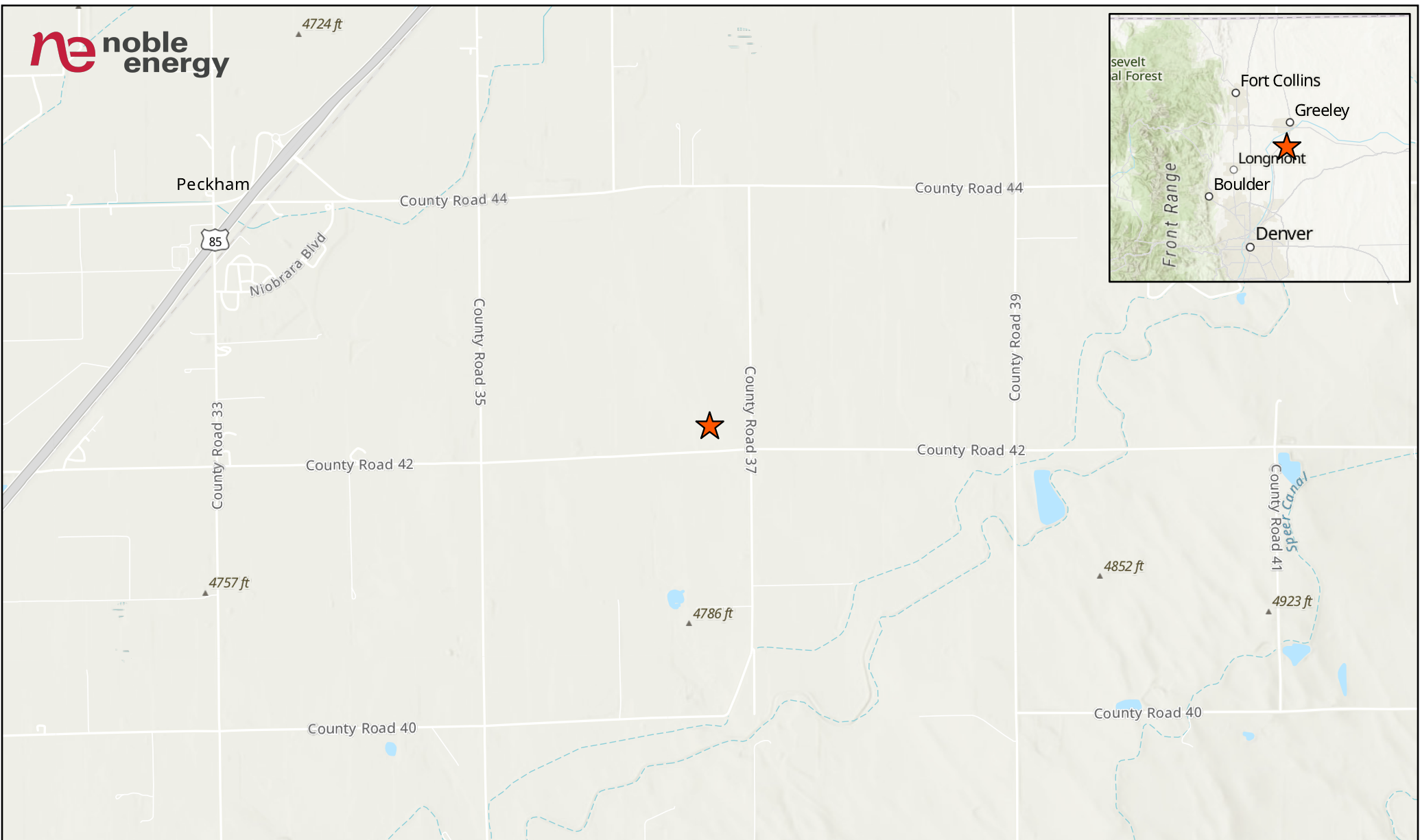
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

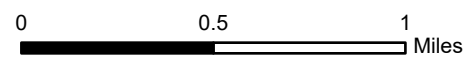
Attachment C: Laboratory Analytical Reports

FIGURES

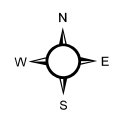


LEGEND

 Site Location



1 inch = 0.5 Mile



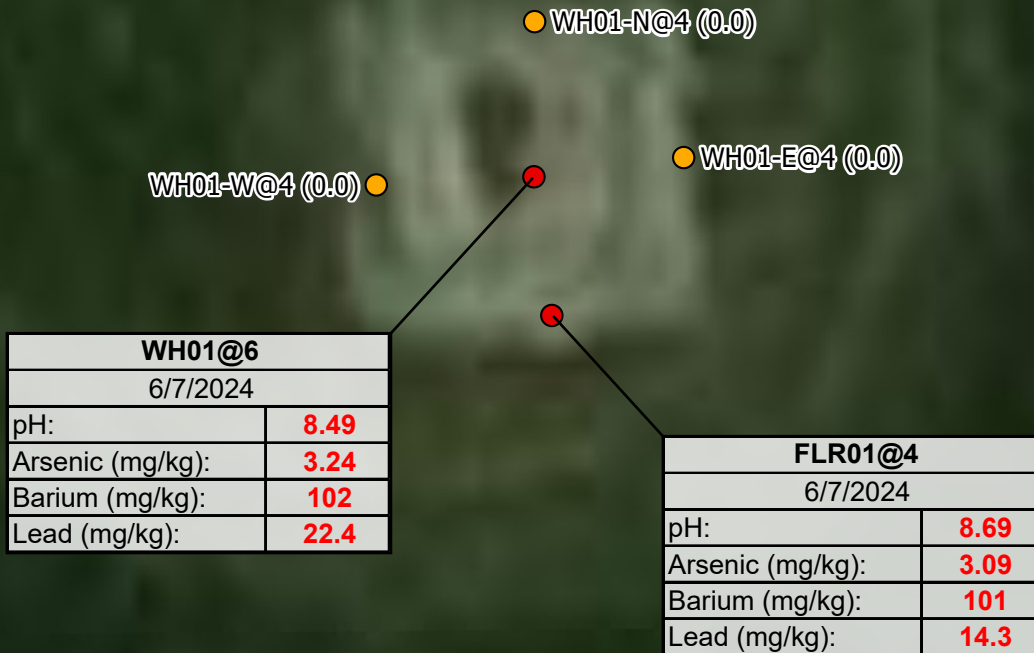
Project No:	024-251
Map By:	JW
Date:	07/07/2024

**BROWN 44-24 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SE 1/4 SE 1/4 SECTION 24
T4N R66W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure
1



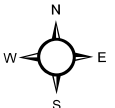
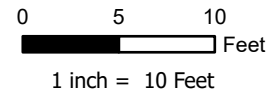
LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 FLR: FLOWLINE RISER SAMPLE
RED: ABOVE ECMC TABLE 915-1 GWSSL

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

NOTES:
 - Sample Label (PID Result in ppm)
 - ppm = parts per million
 - PID = photoionization detector



Project No: 024-251

Map By: JW

Date: 07/07/2024

**BROWN 44-24 WELLHEAD
 SOIL SAMPLE AND FIELD SCREENING LOCATIONS**
 NOBLE ENERGY
 SE 1/4 SE 1/4 SECTION 24
 T4N R66W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Drive
 Longmont, CO 80504
 303.378.4036

Figure

2

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
BROWN 44-24 WELLHEAD, WELD COUNTY, COLORADO
REM # 25490

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	6/7/2024	6	40.292161	-104.718472	11.1
FLR01@4	6/7/2024	4	40.292141	-104.718469	0.0
WH01-N@4	6/7/2024	4	40.292183	-104.718472	0.0
WH01-E@4	6/7/2024	4	40.292164	-104.718444	0.0
WH01-W@4	6/7/2024	4	40.292160	-104.718501	0.0

1. Global Positioning System (GPS) data is provided in decimal degrees using North American Datum (NAD) 83 UTMZone 13 North.

2. Volatile organic compound (VOC) concentrations are measured in the field using a photoionization detector (PID).

ppm = Parts per million

ft-bgs = feet below ground surface

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
BROWN 44-24 WELLHEAD, WELD COUNTY, COLORADO
REM # 25490

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH01@6	6/7/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	6/7/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit

2. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg

ft-bgs = feet below ground surface

mg/kg - milligrams per kilogram

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
BROWN 44-24 WELLHEAD, WELD COUNTY, COLORADO
REM # 25490

Sample ID	Sample Date	Depth (ft-bgs)	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)	Indeno (1,2,3- cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01@6	6/7/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	
FLR01@4	6/7/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
ft-bgs = feet below ground surface
mg/kg - milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
BROWN 44-24 WELLHEAD, WELD COUNTY, COLORADO
REM # 25490

Sample ID	Sample Date	Depth (ft-bgs)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH01@6	6/7/2024	6	8.49	0.646	1.77	<1.01
FLR01@4	6/7/2024	4	8.69	0.576	1.36	0.198

1. **RED** - Above ECMC Table 915-1 Standards
 2. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- ft-bgs = feet below ground surface
 EC - Electrical Conductivity
 SAR - Sodium adsorption ratio
 mmhos/cm - millimhos per centimeter
 mg/L - milligrams per liter

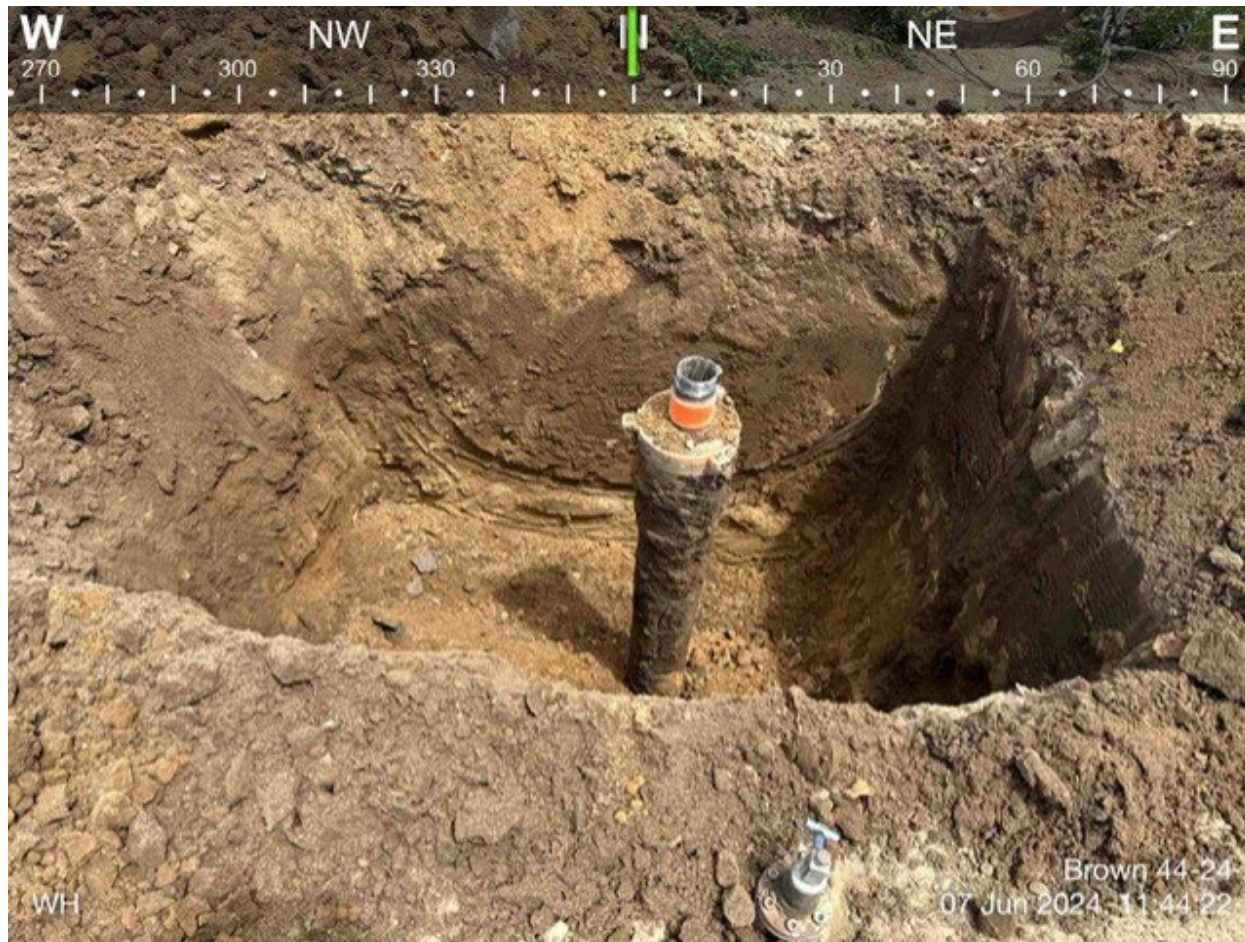
TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
BROWN 44-24 WELLHEAD, WELD COUNTY, COLORADO
REM # 25490

Sample ID	Sample Date	Depth (ft-bgs)	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)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01@6	6/7/2024	6	3.24	102	0.241	<0.123*	11.4	22.4	8.25	<0.218	0.0897	76.6
FLR01@4	6/7/2024	4	3.09	101	0.199	<0.157*	9.32	14.3	7.64	<0.231	<0.0887	50.8

1. **RED** - Above ECMC Table 915-1 Standards
 2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- * Indicates laboratory reporting or minimum detection limit in excess of SSL
- ft-bgs = feet below ground surface
mg/kg - milligrams per kilogram

**ATTACHMENT A
PHOTOGRAPHIC LOG**

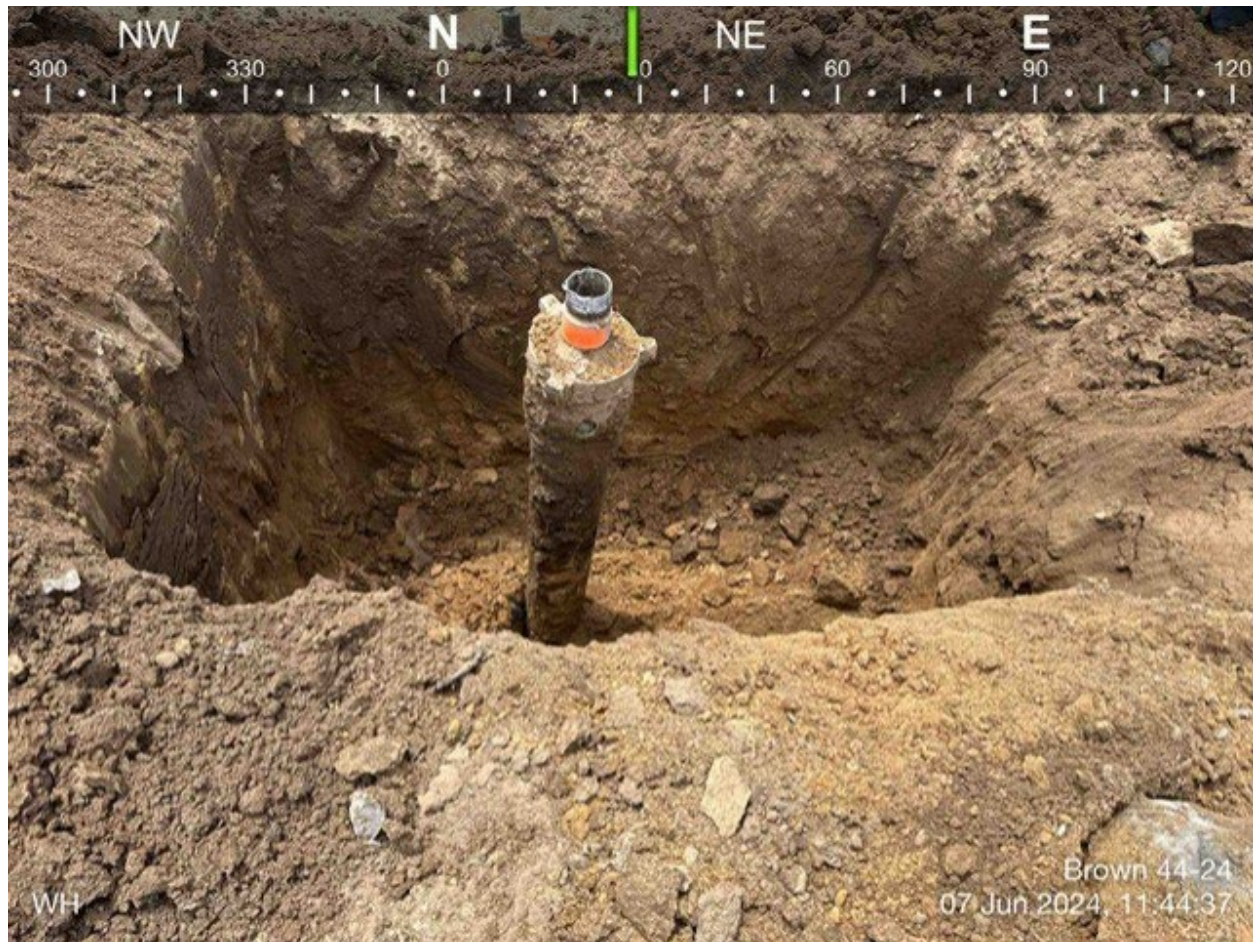
Brown 44-24 Wellhead Photographic Log



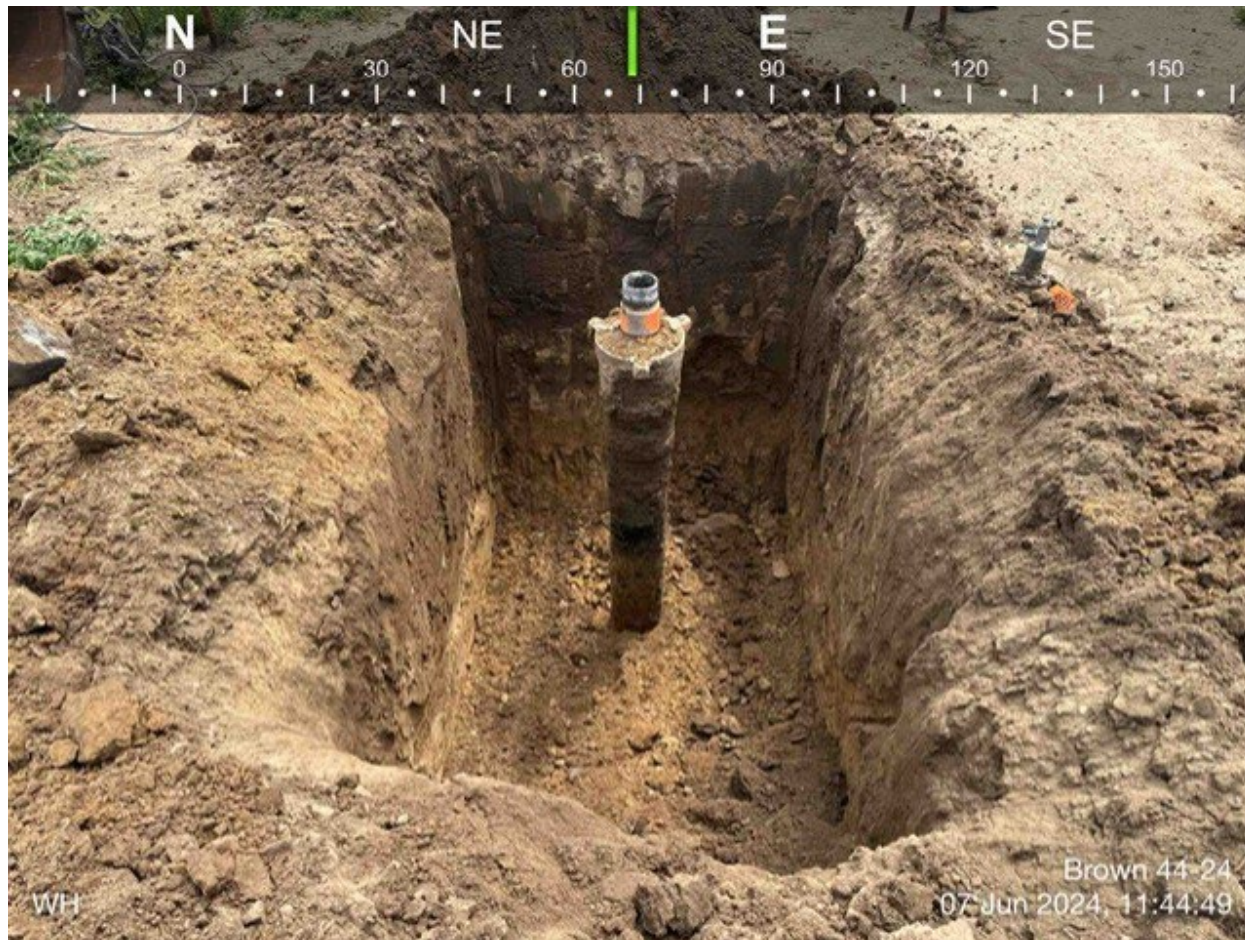
Brown 44-24 Wellhead Photographic Log



Brown 44-24 Wellhead Photographic Log



Brown 44-24 Wellhead Photographic Log



**ATTACHMENT B
FACILITY CLOSURE CHECKLISTS**

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	
Site Name & COGCC Facility Number: Brown 44-24, 248297		Date: 06/07/2024						Remediation Project #: 25490	
Associated Wells: NA		Age of Site: 09/14/1992- spud date						Number of Photos Attached: 4	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.292161 / -104.718458							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall good									
USCS Soil Type: Silty Sand (SM)				Estimated Depth to Groundwater: Unknown as none encountered					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed or encountered									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed or encountered									
Wellhead(s)									
Well API	05-123-16095								
Age	09/14/1992-spud date								
Condition of surface around wellhead	Overall good								
PID Readings	0.0 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 to 11.1ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4								
Photo Number(s)	1-4								
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> 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: 11.1 ppm				Total number of samples submitted to lab for analysis: 2					
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 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:									

**ATTACHMENT C
LABORATORY ANALYTICAL REPORTS**

June 25, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Brown 44-24

Project Number - [none]

Attached are your analytical results for Chevron - Brown 44-24 received by Origins Laboratory, Inc. June 07, 2024. This project is associated with Origins project number Y406247-01.

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Brown 44-24

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	Y406247-01	Soil	June 7, 2024 11:00	06/07/2024 17:20
FLR01@4	Y406247-02	Soil	June 7, 2024 11:05	06/07/2024 17:20

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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

Sample Receipt Checklist

Origins Work Order: 4400247 Client: Entrada
 Client Project ID: Brown 44-24

Checklist Completed by: JSH/EHD Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Date/time completed: 6/10/12 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 23.8 °C °C °C (Describe) _____ °C

Thermometer ID: T005

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SD
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) JSH Date/Time Reviewed 6/10/12

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

WH01@6'
6/7/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406247-01 (Soil)

Boron (DTPA Sorbitol)

Boron	ND		1.01	mg/L	10	B4F1014	06/10/2024	06/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1201	06/12/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: *o*-Terphenyl 84.8 % 50-150 " " "

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F0901	06/09/2024	06/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4 97.2 % 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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

WH01@6'
6/7/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406247-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4F09 01	06/09/2024	06/11/2024	
Surrogate: 4-Bromofluorobenzene	99.4 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.68		0.499	meq/L	10	[CALC]	06/11/2024	06/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	2.22		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1128	06/11/2024	06/14/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

WH01@6'
6/7/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406247-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1128	06/11/2024	06/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	107 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	103 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.49			pH Units	1	B4F1119	06/11/2024	06/12/2024	
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SAR by 20B Saturated Paste

SAR	1.77		0.0100	SAR	1	B4F1113	06/11/2024	06/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.646		0.00500	mmhos/cm	1	B4F1119	06/11/2024	06/12/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

WH01@6'
6/7/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406247-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.24		0.243	mg/kg	10	B4F1031	06/10/2024	06/18/2024	
Barium	102		8.38	"	"	"	"	"	
Cadmium	0.241		0.0838	"	"	"	"	"	
Copper	11.4		8.38	"	"	"	"	"	
Lead	22.4		0.838	"	"	"	"	"	
Nickel	8.25		0.838	"	"	"	"	"	
Selenium	ND		0.218	"	"	"	"	"	
Silver	0.0897		0.0838	"	"	"	"	"	
Zinc	76.6		31.0	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.123	0.306	mg/kg dry	1	2630053	06/21/2024	06/24/2024	U
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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.

Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

FLR01@4
6/7/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y406247-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.198		0.0993	mg/L	1	B4F1014	06/10/2024	06/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4F1201	06/12/2024	06/13/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	86.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4F0901	06/09/2024	06/11/2024	Ua
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Benzene	ND		0.00200	"	"	"	"	"	Ua
Ethylbenzene	ND		0.00200	"	"	"	"	"	Ua
Toluene	ND		0.00200	"	"	"	"	"	Ua
Xylenes, total	ND		0.00200	"	"	"	"	"	Ua
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	97.9 %		70-130			"	"	"	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

FLR01@4
 6/7/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406247-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	105 %		70-130			B4F09 01	06/09/2024	06/11/2024	
Surrogate: 4-Bromofluorobenzene	100 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.70		0.499	meq/L	10	[CALC]	06/11/2024	06/12/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.72		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4F1128	06/11/2024	06/14/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

FLR01@4
 6/7/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406247-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4F1128	06/11/2024	06/14/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	104 %		60-130			"	"	"	
Surrogate: Anthracene-d10	102 %		60-130			"	"	"	
Surrogate: Pyrene-d10	101 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	102 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.69			pH Units	1	B4F1119	06/11/2024	06/12/2024	
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SAR by 20B Saturated Paste

SAR	1.36		0.0100	SAR	1	B4F1113	06/11/2024	06/12/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.576		0.00500	mmhos/cm	1	B4F1119	06/11/2024	06/12/2024	
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Table 915 metals by EPA 6020B

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

FLR01@4

6/7/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y406247-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.09		0.257	mg/kg	10	B4F1031	06/10/2024	06/18/2024	
Barium	101		8.87	"	"	"	"	"	
Cadmium	0.199		0.0887	"	"	"	"	"	
Copper	9.32		8.87	"	"	"	"	"	
Lead	14.3		0.887	"	"	"	"	"	
Nickel	7.64		0.887	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	ND		0.0887	"	"	"	"	"	
Zinc	50.8		32.8	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.157	0.392	mg/kg dry	1	2630053	06/21/2024	06/24/2024	U
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Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F0901 - EPA 5030 (soil)

Blank (B4F0901-BLK1)

Prepared: 06/09/2024 Analyzed: 06/10/2024

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							Ua
1,3,5-Trimethylbenzene	ND	0.00200	"							Ua
Benzene	ND	0.00200	"							Ua
Ethylbenzene	ND	0.00200	"							Ua
Naphthalene	ND	0.00380	"							Ua
Toluene	ND	0.00200	"							Ua
Xylenes, total	ND	0.00200	"							Ua
Gasoline Range Hydrocarbons	ND	0.200	"							Ua
Surrogate: 1,2-Dichloroethane-d4	0.099		"	0.125	78.9		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	104		70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125	96.8		70-130			

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F0901 - EPA 5030 (soil)

LCS (B4F0901-BS1)

Prepared: 06/09/2024 Analyzed: 06/10/2024

1,2,4-Trimethylbenzene	0.0906	0.00200	mg/kg	0.100		90.6	70-130			
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100		90.9	70-130			
Benzene	0.0837	0.00200	"	0.100		83.7	70-130			
Ethylbenzene	0.0882	0.00200	"	0.100		88.2	70-130			
Naphthalene	0.0912	0.00380	"	0.100		91.2	70-130			
Toluene	0.0864	0.00200	"	0.100		86.4	70-130			
o-Xylene	0.0905	0.00200	"	0.100		90.5	70-130			
m,p-Xylene	0.183	0.00400	"	0.200		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.098		"	0.125		78.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F0901 - EPA 5030 (soil)

Matrix Spike (B4F0901-MS1)	Source: Y406188-01			Prepared: 06/09/2024 Analyzed: 06/10/2024						
1,2,4-Trimethylbenzene	0.0921	0.00200	mg/kg	0.100	0.00104	91.1	70-130			
1,3,5-Trimethylbenzene	0.0909	0.00200	"	0.100	ND	90.9	70-130			
Benzene	0.0838	0.00200	"	0.100	0.000900	82.9	70-130			
Ethylbenzene	0.0899	0.00200	"	0.100	0.00128	88.6	70-130			
Naphthalene	0.0939	0.00380	"	0.100	0.00160	92.3	70-130			
Toluene	0.110	0.00200	"	0.100	0.0215	88.6	70-130			
o-Xylene	0.0945	0.00200	"	0.100	0.00150	93.0	70-130			
m,p-Xylene	0.186	0.00400	"	0.200	0.00456	90.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		88.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F0901 - EPA 5030 (soil)

Matrix Spike Dup (B4F0901-MSD1)	Source: Y406188-01			Prepared: 06/09/2024 Analyzed: 06/10/2024						
1,2,4-Trimethylbenzene	0.0875	0.00200	mg/kg	0.100	0.00104	86.5	70-130	5.17	20	
1,3,5-Trimethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130	5.31	20	
Benzene	0.0808	0.00200	"	0.100	0.000900	79.9	70-130	3.67	20	
Ethylbenzene	0.0853	0.00200	"	0.100	0.00128	84.0	70-130	5.18	20	
Naphthalene	0.0927	0.00380	"	0.100	0.00160	91.1	70-130	1.22	20	
Toluene	0.108	0.00200	"	0.100	0.0215	86.2	70-130	2.24	20	
o-Xylene	0.0911	0.00200	"	0.100	0.00150	89.6	70-130	3.69	20	
m,p-Xylene	0.179	0.00400	"	0.200	0.00456	87.4	70-130	3.90	20	
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		89.7	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	70-130			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1201 - EPA 3550B										
Blank (B4F1201-BLK1)										
					Prepared: 06/12/2024 Analyzed: 06/13/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		90.9	50-150			

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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1201 - EPA 3550B

LCS (B4F1201-BS1)

Prepared: 06/12/2024 Analyzed: 06/13/2024

Diesel (C10-C28)	900	50.0	mg/kg	1000		90.0	70-130			
Residual Range Organics (C28-C40)	893	200	"	1000		89.3	70-130			
Surrogate: o-Terphenyl	50		"	49.8		101	50-150			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1201 - EPA 3550B

Matrix Spike (B4F1201-MS1)	Source: Y406202-01			Prepared: 06/12/2024 Analyzed: 06/13/2024						
Diesel (C10-C28)	893	50.0	mg/kg	1000	ND	89.3	70-130			
Residual Range Organics (C28-C40)	896	200	"	1000	ND	89.6	70-130			
Surrogate: o-Terphenyl	49		"	49.8		99.0	50-150			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1201 - EPA 3550B										
Matrix Spike Dup (B4F1201-MSD1)					Source: Y406202-01					Prepared: 06/12/2024 Analyzed: 06/13/2024
Diesel (C10-C28)	886	50.0	mg/kg	1000	ND	88.6	70-130	0.809	35	
Residual Range Organics (C28-C40)	889	200	"	1000	ND	88.9	70-130	0.804	35	
Surrogate: o-Terphenyl	51		"	49.8		103	50-150			

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1031 - EPA 3050B

Blank (B4F1031-BLK1)

Prepared: 06/10/2024 Analyzed: 06/18/2024

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 (B4F1031-BS1)

Prepared: 06/10/2024 Analyzed: 06/18/2024

Arsenic	5.01	0.290	mg/kg	5.00		100	80-120			
Barium	552	10.0	"	500		110	80-120			
Cadmium	5.34	0.100	"	5.00		107	80-120			
Copper	50.3	10.0	"	50.0		101	80-120			
Lead	5.38	1.00	"	5.00		108	80-120			
Nickel	5.32	1.00	"	5.00		106	80-120			
Selenium	9.51	0.260	"	9.50		100	80-120			
Silver	5.56	0.100	"	5.00		111	80-120			
Zinc	54.8	37.0	"	50.0		110	80-120			

Matrix Spike (B4F1031-MS1)

Source: Y406246-01

Prepared: 06/10/2024 Analyzed: 06/18/2024

Origins Laboratory, Inc.



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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1031 - EPA 3050B

Matrix Spike (B4F1031-MS1)		Source: Y406246-01			Prepared: 06/10/2024 Analyzed: 06/18/2024					
Arsenic	5.40	0.245	mg/kg	4.22	1.06	103	75-125			
Barium	518	8.45	"	422	66.5	107	75-125			
Cadmium	4.65	0.0845	"	4.22	0.0668	109	75-125			
Copper	47.6	8.45	"	42.2	3.16	105	75-125			
Lead	10.1	0.845	"	4.22	5.40	111	75-125			
Nickel	6.98	0.845	"	4.22	2.40	108	75-125			
Selenium	8.02	0.220	"	8.03	0.0600	99.2	75-125			
Silver	4.78	0.0845	"	4.22	0.00968	113	75-125			
Zinc	60.6	31.3	"	42.2	16.6	104	75-125			

Matrix Spike Dup (B4F1031-MSD1)		Source: Y406246-01			Prepared: 06/10/2024 Analyzed: 06/18/2024					
Arsenic	4.64	0.211	mg/kg	3.64	1.06	98.3	75-125	15.3	20	
Barium	450	7.28	"	364	66.5	106	75-125	14.0	20	
Cadmium	3.93	0.0728	"	3.64	0.0668	106	75-125	16.8	20	
Copper	40.7	7.28	"	36.4	3.16	103	75-125	15.7	20	
Lead	9.96	0.728	"	3.64	5.40	125	75-125	1.21	20	
Nickel	6.04	0.728	"	3.64	2.40	99.9	75-125	14.4	20	
Selenium	7.30	0.189	"	6.91	0.0600	105	75-125	9.47	20	
Silver	4.02	0.0728	"	3.64	0.00968	110	75-125	17.4	20	
Zinc	55.1	26.9	"	36.4	16.6	106	75-125	9.53	20	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1128 - EPA 3580

Blank (B4F1128-BLK1)

Prepared: 06/11/2024 Analyzed: 06/14/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	230		"	200		113	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		107	60-130			

LCS (B4F1128-BS1)

Prepared: 06/11/2024 Analyzed: 06/17/2024

1-Methylnaphthalene	0.184	0.002	mg/kg	0.200		92.2	70-130			
2-Methylnaphthalene	0.184	0.002	"	0.200		92.1	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.3	70-130			
Anthracene	0.201	0.020	"	0.200		100	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1128 - EPA 3580

LCS (B4F1128-BS1)

Prepared: 06/11/2024 Analyzed: 06/17/2024

Benzo (a) anthracene	0.228	0.005	mg/kg	0.200		114	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200		102	70-130			
Benzo (b) fluoranthene	0.182	0.020	"	0.200		90.8	70-130			
Benzo (g,h,i) perylene	0.172	0.020	"	0.200		85.9	70-130			
Benzo (k) fluoranthene	0.185	0.020	"	0.200		92.7	70-130			
Chrysene	0.204	0.020	"	0.200		102	70-130			
Dibenz (a,h) anthracene	0.190	0.020	"	0.200		94.9	70-130			
Fluoranthene	0.198	0.020	"	0.200		99.0	70-130			
Fluorene	0.194	0.020	"	0.200		97.0	70-130			
Indeno (1,2,3-cd) pyrene	0.226	0.020	"	0.200		113	70-130			
Naphthalene	0.187	0.002	"	0.200		93.5	70-130			
Phenanthrene	0.185	0.020	"	0.200		92.5	70-130			
Pyrene	0.200	0.020	"	0.200		100	70-130			

Surrogate: Fluorene-d10	210		ug/kg	200		103	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike (B4F1128-MS1)

Source: Y406247-01

Prepared: 06/11/2024 Analyzed: 06/14/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.0005	96.5	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	0.001	96.3	70-130			
Acenaphthene	0.195	0.020	"	0.200	ND	97.4	70-130			
Anthracene	0.206	0.020	"	0.200	0.0004	103	70-130			
Benzo (a) anthracene	0.230	0.005	"	0.200	0.002	114	70-130			
Benzo (a) pyrene	0.209	0.020	"	0.200	0.003	103	70-130			
Benzo (b) fluoranthene	0.203	0.020	"	0.200	0.002	100	70-130			
Benzo (g,h,i) perylene	0.199	0.020	"	0.200	0.004	97.8	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1128 - EPA 3580

Matrix Spike (B4F1128-MS1)	Source: Y406247-01			Prepared: 06/11/2024 Analyzed: 06/14/2024						
Benzo (k) fluoranthene	0.224	0.020	mg/kg	0.200	0.0006	112	70-130			
Chrysene	0.209	0.020	"	0.200	0.003	103	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.224	0.020	"	0.200	0.002	111	70-130			
Fluorene	0.203	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	0.001	105	70-130			
Naphthalene	0.194	0.002	"	0.200	0.001	96.1	70-130			
Phenanthrene	0.195	0.020	"	0.200	0.002	96.5	70-130			
Pyrene	0.194	0.020	"	0.200	0.004	94.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	200		"	200		97.6	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		105	60-130			

Matrix Spike Dup (B4F1128-MSD1)	Source: Y406247-01			Prepared: 06/11/2024 Analyzed: 06/14/2024						
1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0005	95.7	70-130	0.835	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	0.001	95.9	70-130	0.439	20	
Acenaphthene	0.196	0.020	"	0.200	ND	97.9	70-130	0.497	20	
Anthracene	0.202	0.020	"	0.200	0.0004	101	70-130	1.96	20	
Benzo (a) anthracene	0.216	0.005	"	0.200	0.002	107	70-130	6.01	20	
Benzo (a) pyrene	0.213	0.020	"	0.200	0.003	105	70-130	2.10	20	
Benzo (b) fluoranthene	0.201	0.020	"	0.200	0.002	99.5	70-130	0.799	20	
Benzo (g,h,i) perylene	0.182	0.020	"	0.200	0.004	89.3	70-130	8.86	20	
Benzo (k) fluoranthene	0.214	0.020	"	0.200	0.0006	107	70-130	4.23	20	
Chrysene	0.205	0.020	"	0.200	0.003	101	70-130	1.81	20	
Dibenz (a,h) anthracene	0.194	0.020	"	0.200	ND	97.1	70-130	5.57	20	
Fluoranthene	0.210	0.020	"	0.200	0.002	104	70-130	6.66	20	

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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1128 - EPA 3580

Matrix Spike Dup (B4F1128-MSD1)	Source: Y406247-01			Prepared: 06/11/2024 Analyzed: 06/14/2024						
Fluorene	0.200	0.020	mg/kg	0.200	ND	100	70-130	1.71	20	
Indeno (1,2,3-cd) pyrene	0.198	0.020	"	0.200	0.001	98.1	70-130	7.07	20	
Naphthalene	0.192	0.002	"	0.200	0.001	95.3	70-130	0.926	20	
Phenanthrene	0.195	0.020	"	0.200	0.002	96.4	70-130	0.0584	20	
Pyrene	0.201	0.020	"	0.200	0.004	98.5	70-130	3.69	20	
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	200		"	200		101	60-130			
Surrogate: Pyrene-d10	200		"	200		102	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

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 B4F1014 - DTPA Sorbitol Preparation

Blank (B4F1014-BLK1)

Prepared: 06/10/2024 Analyzed: 06/11/2024

Boron ND 0.100 mg/L

Duplicate (B4F1014-DUP1)

Source: Y406231-10

Prepared: 06/10/2024 Analyzed: 06/11/2024

Boron ND 0.994 mg/L ND 50

Batch B4F1113 - Saturated Paste Metals

Blank (B4F1113-BLK1)

Prepared: 06/11/2024 Analyzed: 06/12/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4F1113-DUP1)

Source: Y406202-01

Prepared: 06/11/2024 Analyzed: 06/12/2024

Calcium PPM 30.7 10.0 mg/L 30.8 0.130 50

SAR ND 0.0100 SAR 2.47 200

Magnesium PPM 8.53 10.0 mg/L 8.44 1.06 50

Sodium PPM 67.9 10.0 " 60.0 12.4 50

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4F1119 - Saturated Paste pH/EC										
Blank (B4F1119-BLK1)					Prepared: 06/11/2024 Analyzed: 06/12/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4F1119-DUP1)					Source: Y406202-01 Prepared: 06/11/2024 Analyzed: 06/12/2024					
pH	8.21		pH Units		8.41			2.41	25	
Specific Conductance (EC)	0.622	0.00500	mmhos/cm		0.566			9.40	25	

Origins Laboratory, Inc.



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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Brown 44-24

Total Metals 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2630053 - SW846 3060A										
BLANK (1205768635-BLK)					Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	ND	0.391	mg/kg				-			U
LCS (1205768636-BKS)					Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	3.74	0.375	mg/kg	3.75		99.7	80-120			
DUP (1205768637 D)					Source: 671014001 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	ND	0.392	mg/kg dry		<0.157		0-50	N/A	50	U
MS (1205768638 S)					Source: 671014001 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	3.00	0.392	mg/kg dry	3.92	<0.157	74.2	75-125			
DUP (1205768639 D)					Source: Y406247-01 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	ND	0.306	mg/kg dry		<0.123		0-50	N/A	50	U
MS (1205768640 S)					Source: Y406247-01 Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	1.80	0.306	mg/kg dry	3.06	<0.123	57.6	75-125			
ILCS (1205768641-ILCS)					Prepared: 06/21/2024 Analyzed: 06/24/2024					
Hexavalent Chromium	5.37	0.261	mg/kg	5.29		102	80-120			

Origins Laboratory, Inc.



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Entrada Consulting Group
330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Brown 44-24

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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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