



Facility Closure Investigation and Environmental Summary

SH Farms C17-19 Wellhead

ECMC Remediation Project #34145

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

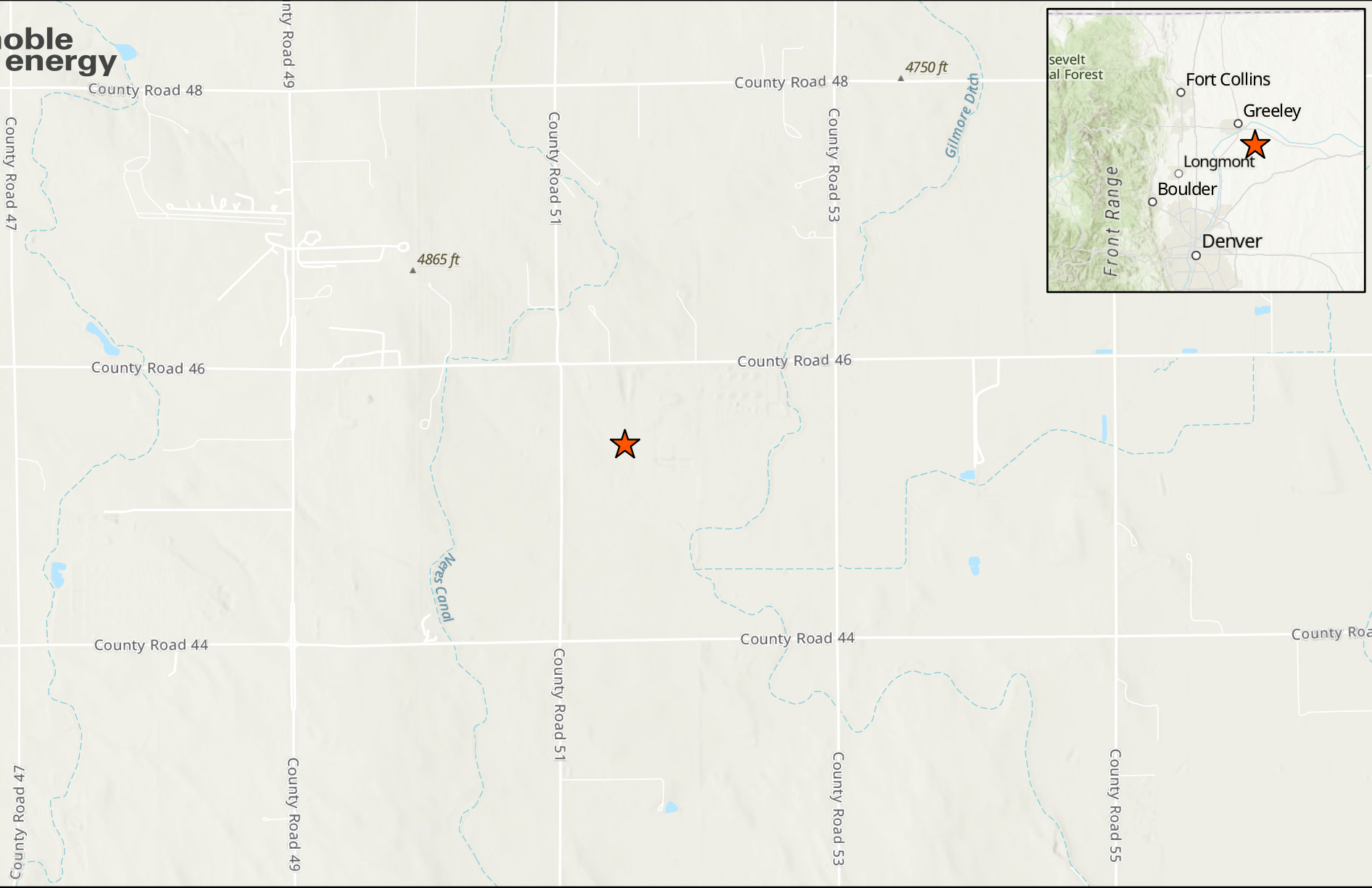
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

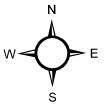
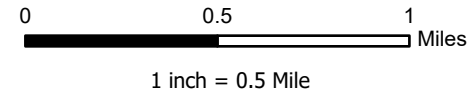
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

Site Location



Project No: 024-228

Map By: JW

Date: 07/11/2024

**SH FARMS C17-19 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SW 1/4 NW 1/4 SECTION 17
T4N R64W, 6TH PM
WELD COUNTY, COLORADO



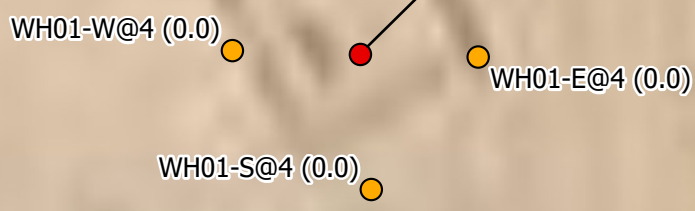
1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure

1

FLR01@4	
5/21/2024	
Arsenic (mg/kg):	2.81
Barium (mg/kg):	114

WH01@6	
5/21/2024	
Arsenic (mg/kg):	2.63



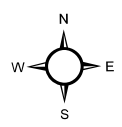
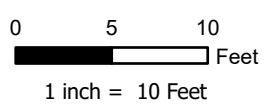
LABEL LEGEND	
XXXX@X: SAMPLE NAME @ DEPTH IN FEET	
WH: WELLHEAD SAMPLE	
FLR: FLOWLINE RISER SAMPLE	
RED: ABOVE ECMC TABLE 915-1 GWSSL	

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

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



Project No: 024-228	SH FARMS C17-19 WELLHEAD SOIL SAMPLE AND FIELD SCREENING LOCATIONS NOBLE ENERGY SW 1/4 NW 1/4 SECTION 17 T4N R64W, 6TH PM WELD COUNTY, COLORADO		1843 Sunlight Drive Longmont, CO 80504 303.378.4036	Figure
Map By: JW				2
Date: 07/11/2024				

Untitled, Figure 2 - Template Wellhead - Soil Sample and Field Screening Locations1

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
SH FARMS C17-19 WELLHEAD, WELD COUNTY, COLORADO
REM # 34145

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	5/21/2024	6	40.315414	-104.579450	0.0
FLR01@4	5/21/2024	4	40.315433	-104.579451	0.0
WH01-W@4	5/21/2024	4	40.315414	-104.579474	0.0
WH01-E@4	5/21/2024	4	40.315413	-104.579428	0.0
WH01-S@4	5/21/2024	4	40.315394	-104.579448	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
SH FARMS C17-19 WELLHEAD, WELD COUNTY, COLORADO
REM # 34145

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	5/21/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	5/21/2024	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
SH FARMS C17-19 WELLHEAD, WELD COUNTY, COLORADO
REM # 34145

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	5/21/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
FLR01@4	5/21/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<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
SH FARMS C17-19 WELLHEAD, WELD COUNTY, COLORADO
REM # 34145

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	5/21/2024	6	8.23	0.654	1.35	0.344
FLR01@4	5/21/2024	4	8.16	1.22	1.25	0.399

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
SH FARMS C17-19 WELLHEAD, WELD COUNTY, COLORADO
REM # 34145

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	5/21/2024	6	2.63	64.8	<0.0855	<0.103*	9.57	6.42	6.35	<0.222	<0.0855	56.6
FLR01@4	5/21/2024	4	2.81	114	<0.0876	<0.139*	<8.76	12.6	6.97	<0.228	<0.0876	248

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**

SH Farms C17-19 Wellhead Photographic Log



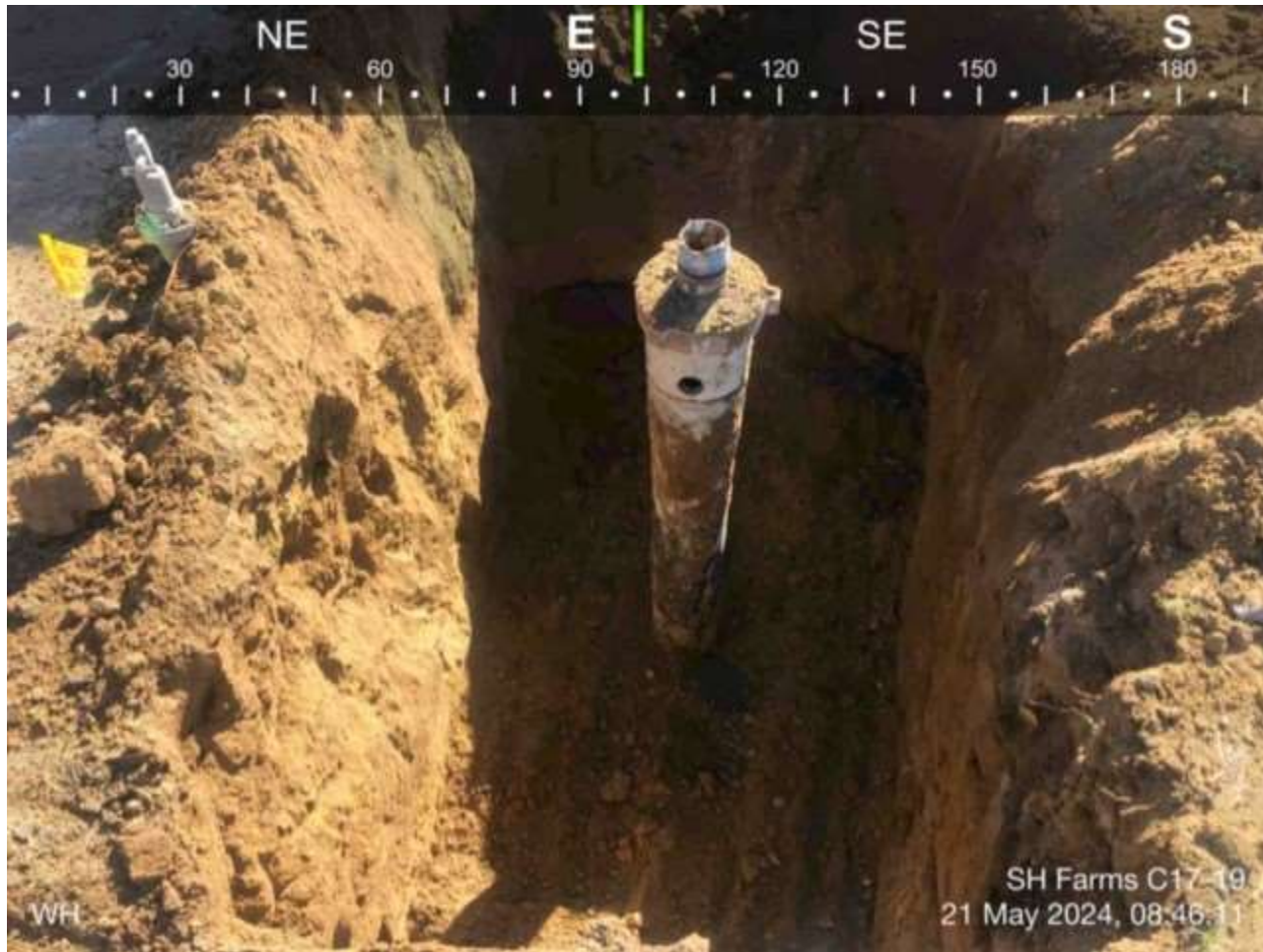
SH Farms C17-19 Wellhead Photographic Log



SH Farms C17-19 Wellhead Photographic Log



SH Farms C17-19 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: SH Farms C17-19, 278076		Date: 05/21/2024				Remediation Project #: 34145			
Associated Wells: NA		Age of Site: 03/16/2006- spud date				Number of Photos Attached: 4			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.315420 / -104.579440						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 encountered or observed									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None encountered or observed									
Wellhead(s)									
Well API	05-123-23008								
Age	03/16/2006-spud date								
Condition of surface around wellhead	Good								
PID Readings	0.0 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 ppm								
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: 0.0 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 18, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - SH Farms C17-19

Project Number - [none]

Attached are your analytical results for Chevron - SH Farms C17-19 received by Origins Laboratory, Inc. May 22, 2024. This project is associated with Origins project number Y405678-01.

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 - SH Farms C17-19

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405678-01	Soil	May 21, 2024 8:00	05/22/2024 15:40
FLR01@4	Y405678-02	Soil	May 21, 2024 8:05	05/22/2024 15:40

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 - SH Farms C17-19

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y405678

Client: Entrada

Client Project ID: SH Farms C17-19

Checklist Completed by: SAI

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

Date/time completed: 5/22/24

Airbill #: N/A

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

Cooler Number/Temperature: 1 12.9 °C 1 °C 1 °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⁾ ?	/			
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 HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by JB (Project Manager)

5/23/24
 Date/Time Reviewed

Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

WH01@6
 5/21/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405678-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.344		0.100	mg/L	1	B4E2313	05/23/2024	05/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2303	05/23/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.9 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2335	05/23/2024	05/25/2024	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	105 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

WH01@6
 5/21/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405678-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.5 %		70-130			B4E23 35	05/23/2024	05/25/2024	
Surrogate: 4-Bromofluorobenzene	106 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.06		0.499	meq/L	10	[CALC]	05/24/2024	05/29/2024	
Magnesium	1.04		0.823	"	"	"	"	"	
Sodium	1.68		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E2417	05/24/2024	05/29/2024	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 - SH Farms C17-19

WH01@6
 5/21/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405678-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E2417	05/24/2024	05/29/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	122 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	86.3 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.23			pH Units	1	B4E2413	05/24/2024	05/29/2024	
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SAR by 20B Saturated Paste

SAR	1.35		0.0100	SAR	1	B4E2403	05/24/2024	05/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.654		0.00500	mmhos/cm	1	B4E2413	05/24/2024	05/29/2024	
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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 - SH Farms C17-19

WH01@6
 5/21/2024 8:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405678-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.63		0.248	mg/kg	10	B4E2325	05/23/2024	05/24/2024	
Barium	64.8		8.55	"	"	"	"	"	
Cadmium	ND		0.0855	"	"	"	"	"	
Copper	9.57		8.55	"	"	"	"	"	
Lead	6.42		0.855	"	"	"	"	"	
Nickel	6.35		0.855	"	"	"	"	"	
Selenium	ND		0.222	"	"	"	"	"	
Silver	ND		0.0855	"	"	"	"	"	
Zinc	56.6		31.6	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.103	0.258	mg/kg dry	1	2625948	06/13/2024	06/14/2024	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 - SH Farms C17-19

FLR01@4

5/21/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405678-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.399		0.100	mg/L	1	B4E2313	05/23/2024	05/24/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E2303	05/23/2024	05/30/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	95.0 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E2335	05/23/2024	05/25/2024	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	107 %		70-130			"	"	"	
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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 - SH Farms C17-19

FLR01@4

5/21/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405678-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	99.0 %		70-130			B4E23 35	05/23/2024	05/25/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	5.06	0.499	meq/L	10	[CALC]		05/24/2024	05/29/2024	
Magnesium	3.12	0.823	"	"	"	"	"	"	
Sodium	2.53	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2417		05/24/2024	05/29/2024	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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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

FLR01@4

5/21/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405678-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E2417	05/24/2024	05/29/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	93.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	107 %		60-130			"	"	"	
Surrogate: Pyrene-d10	99.6 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.16			pH Units	1	B4E2413	05/24/2024	05/29/2024	
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SAR by 20B Saturated Paste

SAR	1.25		0.0100	SAR	1	B4E2403	05/24/2024	05/29/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.22		0.00500	mmhos/cm	1	B4E2413	05/24/2024	05/29/2024	
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Table 915 metals by EPA 6020B

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

FLR01@4

5/21/2024 8:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405678-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.81		0.254	mg/kg	10	B4E2325	05/23/2024	05/24/2024	
Barium	114		8.76	"	"	"	"	"	
Cadmium	ND		0.0876	"	"	"	"	"	
Copper	ND		8.76	"	"	"	"	"	
Lead	12.6		0.876	"	"	"	"	"	
Nickel	6.97		0.876	"	"	"	"	"	
Selenium	ND		0.228	"	"	"	"	"	
Silver	ND		0.0876	"	"	"	"	"	
Zinc	248		32.4	"	"	"	"	"	

Total Metals 7196A

Hexavalent Chromium	ND	0.139	0.347	mg/kg dry	1	2625948	06/13/2024	06/14/2024	U
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

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 B4E2303 - EPA 3550B

Blank (B4E2303-BLK1)

Prepared: 05/23/2024 Analyzed: 05/30/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		107	50-150			

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

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 B4E2303 - EPA 3550B

LCS (B4E2303-BS1)

Prepared: 05/23/2024 Analyzed: 05/30/2024

Diesel (C10-C28)	957	50.0	mg/kg	1000		95.7	70-130			
Residual Range Organics (C28-C40)	1070	200	"	1000		107	70-130			
Surrogate: o-Terphenyl	53		"	49.8		108	50-150			

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 - SH Farms C17-19

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 B4E2303 - EPA 3550B

Matrix Spike (B4E2303-MS1)	Source: Y405663-01			Prepared: 05/23/2024 Analyzed: 05/30/2024						
Diesel (C10-C28)	944	50.0	mg/kg	1000	ND	94.4	70-130			
Residual Range Organics (C28-C40)	1090	200	"	1000	ND	109	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.7	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

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 B4E2303 - EPA 3550B										
Matrix Spike Dup (B4E2303-MSD1)					Source: Y405663-01					Prepared: 05/23/2024 Analyzed: 05/30/2024
Diesel (C10-C28)	871	50.0	mg/kg	1000	ND	87.1	70-130	8.10	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	8.35	35	
Surrogate: o-Terphenyl	46		"	49.8		92.4	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 - SH Farms C17-19

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 B4E2335 - EPA 5030 (soil)

Blank (B4E2335-BLK1)

Prepared: 05/23/2024 Analyzed: 05/25/2024

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	0.12		"	0.125	95.1		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	95.3		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	106		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 - SH Farms C17-19

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 B4E2335 - EPA 5030 (soil)

LCS (B4E2335-BS1)

Prepared: 05/23/2024 Analyzed: 05/25/2024

1,2,4-Trimethylbenzene	0.100	0.00200	mg/kg	0.100		100	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.103	0.00200	"	0.100		103	70-130			
Ethylbenzene	0.0967	0.00200	"	0.100		96.7	70-130			
Naphthalene	0.0956	0.00380	"	0.100		95.6	70-130			
Toluene	0.0994	0.00200	"	0.100		99.4	70-130			
o-Xylene	0.0960	0.00200	"	0.100		96.0	70-130			
m,p-Xylene	0.197	0.00400	"	0.200		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		94.8	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 - SH Farms C17-19

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 B4E2335 - EPA 5030 (soil)

Matrix Spike (B4E2335-MS1)	Source: Y405661-01			Prepared: 05/23/2024 Analyzed: 05/25/2024						
1,2,4-Trimethylbenzene	0.0964	0.00200	mg/kg	0.100	ND	96.4	70-130			
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130			
Benzene	0.0974	0.00200	"	0.100	ND	97.4	70-130			
Ethylbenzene	0.0924	0.00200	"	0.100	ND	92.4	70-130			
Naphthalene	0.0734	0.00380	"	0.100	ND	73.4	70-130			
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130			
o-Xylene	0.0769	0.00200	"	0.100	ND	76.9	70-130			
m,p-Xylene	0.177	0.00400	"	0.200	ND	88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.4	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.0	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 - SH Farms C17-19

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 B4E2335 - EPA 5030 (soil)

Matrix Spike Dup (B4E2335-MSD1)	Source: Y405661-01			Prepared: 05/23/2024 Analyzed: 05/25/2024						
1,2,4-Trimethylbenzene	0.0934	0.00200	mg/kg	0.100	ND	93.4	70-130	3.08	20	
1,3,5-Trimethylbenzene	0.0892	0.00200	"	0.100	ND	89.2	70-130	12.3	20	
Benzene	0.0937	0.00200	"	0.100	ND	93.7	70-130	3.85	20	
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130	5.45	20	
Naphthalene	0.0910	0.00380	"	0.100	ND	91.0	70-130	21.5	20	QR-02
Toluene	0.0866	0.00200	"	0.100	ND	86.6	70-130	4.60	20	
o-Xylene	0.0734	0.00200	"	0.100	ND	73.4	70-130	4.61	20	
m,p-Xylene	0.167	0.00400	"	0.200	ND	83.7	70-130	5.52	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125		88.6	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 - SH Farms C17-19

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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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 B4E2325 - EPA 3050B

Blank (B4E2325-BLK1)

Prepared: 05/23/2024 Analyzed: 05/24/2024

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 (B4E2325-BS1)

Prepared: 05/23/2024 Analyzed: 05/28/2024

Arsenic	5.20	0.290	mg/kg	5.00		104	80-120			
Barium	558	10.0	"	500		112	80-120			
Cadmium	5.82	0.100	"	5.00		116	80-120			
Copper	57.8	10.0	"	50.0		116	80-120			
Lead	5.75	1.00	"	5.00		115	80-120			
Nickel	5.78	1.00	"	5.00		116	80-120			
Selenium	10.9	0.260	"	9.50		115	80-120			
Silver	5.81	0.100	"	5.00		116	80-120			
Zinc	56.9	37.0	"	50.0		114	80-120			

Matrix Spike (B4E2325-MS1)

Source: Y405667-01

Prepared: 05/23/2024 Analyzed: 05/24/2024

Origins Laboratory, Inc.



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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - SH Farms C17-19

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 B4E2325 - EPA 3050B

Matrix Spike (B4E2325-MS1)		Source: Y405667-01			Prepared: 05/23/2024 Analyzed: 05/24/2024					
Arsenic	9.13	0.269	mg/kg	4.64	3.54	120	75-125			
Barium	674	9.28	"	464	120	119	75-125			
Cadmium	5.45	0.0928	"	4.64	0.215	113	75-125			
Copper	66.8	9.28	"	46.4	16.0	110	75-125			
Lead	26.3	0.928	"	4.64	28.7	NR	75-125			QM-07
Nickel	16.7	0.928	"	4.64	11.3	118	75-125			
Selenium	9.46	0.241	"	8.81	0.120	106	75-125			
Silver	5.18	0.0928	"	4.64	ND	112	75-125			
Zinc	114	34.3	"	46.4	64.8	106	75-125			

Matrix Spike Dup (B4E2325-MSD1)		Source: Y405667-01			Prepared: 05/23/2024 Analyzed: 05/24/2024					
Arsenic	8.39	0.278	mg/kg	4.80	3.54	101	75-125	8.40	20	
Barium	637	9.60	"	480	120	108	75-125	5.65	20	
Cadmium	5.35	0.0960	"	4.80	0.215	107	75-125	1.74	20	
Copper	62.3	9.60	"	48.0	16.0	96.5	75-125	6.97	20	
Lead	23.8	0.960	"	4.80	28.7	NR	75-125	10.1	20	QM-07
Nickel	15.2	0.960	"	4.80	11.3	81.3	75-125	9.83	20	
Selenium	9.04	0.250	"	9.12	0.120	97.8	75-125	4.57	20	
Silver	5.24	0.0960	"	4.80	ND	109	75-125	1.11	20	
Zinc	102	35.5	"	48.0	64.8	76.9	75-125	11.3	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 - SH Farms C17-19

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 B4E2417 - EPA 3580

Blank (B4E2417-BLK1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

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		101	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	210		"	200		107	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.7	60-130			

LCS (B4E2417-BS1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

1-Methylnaphthalene	0.224	0.002	mg/kg	0.200		112	70-130			
2-Methylnaphthalene	0.227	0.002	"	0.200		114	70-130			
Acenaphthene	0.206	0.020	"	0.200		103	70-130			
Anthracene	0.213	0.020	"	0.200		107	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 - SH Farms C17-19

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 B4E2417 - EPA 3580

LCS (B4E2417-BS1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

Benzo (a) anthracene	0.209	0.005	mg/kg	0.200		105	70-130			
Benzo (a) pyrene	0.221	0.020	"	0.200		110	70-130			
Benzo (b) fluoranthene	0.211	0.020	"	0.200		106	70-130			
Benzo (g,h,i) perylene	0.211	0.020	"	0.200		105	70-130			
Benzo (k) fluoranthene	0.218	0.020	"	0.200		109	70-130			
Chrysene	0.205	0.020	"	0.200		103	70-130			
Dibenz (a,h) anthracene	0.221	0.020	"	0.200		111	70-130			
Fluoranthene	0.209	0.020	"	0.200		104	70-130			
Fluorene	0.207	0.020	"	0.200		103	70-130			
Indeno (1,2,3-cd) pyrene	0.213	0.020	"	0.200		107	70-130			
Naphthalene	0.210	0.002	"	0.200		105	70-130			
Phenanthrene	0.202	0.020	"	0.200		101	70-130			
Pyrene	0.212	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.6	60-130			
Surrogate: Pyrene-d10	210		"	200		103	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4E2417-MS1)

Source: Y405673-01

Prepared: 05/24/2024 Analyzed: 05/29/2024

1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	ND	96.8	70-130			
2-Methylnaphthalene	0.200	0.002	"	0.200	ND	99.9	70-130			
Acenaphthene	0.189	0.020	"	0.200	ND	94.6	70-130			
Anthracene	0.196	0.020	"	0.200	0.005	95.6	70-130			
Benzo (a) anthracene	0.206	0.005	"	0.200	0.002	102	70-130			
Benzo (a) pyrene	0.203	0.020	"	0.200	0.004	99.9	70-130			
Benzo (b) fluoranthene	0.196	0.020	"	0.200	0.002	97.1	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200	0.002	97.7	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 - SH Farms C17-19

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 B4E2417 - EPA 3580

Matrix Spike (B4E2417-MS1)		Source: Y405673-01			Prepared: 05/24/2024 Analyzed: 05/29/2024					
Benzo (k) fluoranthene	0.190	0.020	mg/kg	0.200	0.002	94.2	70-130			
Chrysene	0.191	0.020	"	0.200	0.003	93.9	70-130			
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.002	100	70-130			
Fluoranthene	0.206	0.020	"	0.200	0.003	101	70-130			
Fluorene	0.195	0.020	"	0.200	0.0009	97.2	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	0.002	97.7	70-130			
Naphthalene	0.201	0.002	"	0.200	ND	100	70-130			
Phenanthrene	0.189	0.020	"	0.200	0.002	93.3	70-130			
Pyrene	0.215	0.020	"	0.200	0.002	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.2	60-130			
Surrogate: Anthracene-d10	200		"	200		102	60-130			
Surrogate: Pyrene-d10	210		"	200		106	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4E2417-MSD1)		Source: Y405673-01			Prepared: 05/24/2024 Analyzed: 05/29/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	5.88	20	
2-Methylnaphthalene	0.212	0.002	"	0.200	ND	106	70-130	5.83	20	
Acenaphthene	0.195	0.020	"	0.200	ND	97.5	70-130	2.93	20	
Anthracene	0.210	0.020	"	0.200	0.005	103	70-130	6.95	20	
Benzo (a) anthracene	0.201	0.005	"	0.200	0.002	99.2	70-130	2.65	20	
Benzo (a) pyrene	0.218	0.020	"	0.200	0.004	107	70-130	6.85	20	
Benzo (b) fluoranthene	0.229	0.020	"	0.200	0.002	113	70-130	15.2	20	
Benzo (g,h,i) perylene	0.219	0.020	"	0.200	0.002	108	70-130	9.97	20	
Benzo (k) fluoranthene	0.191	0.020	"	0.200	0.002	94.4	70-130	0.221	20	
Chrysene	0.204	0.020	"	0.200	0.003	100	70-130	6.68	20	
Dibenz (a,h) anthracene	0.231	0.020	"	0.200	0.002	114	70-130	12.9	20	
Fluoranthene	0.210	0.020	"	0.200	0.003	103	70-130	2.15	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 - SH Farms C17-19

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 B4E2417 - EPA 3580

Matrix Spike Dup (B4E2417-MSD1)	Source: Y405673-01			Prepared: 05/24/2024 Analyzed: 05/29/2024						
Fluorene	0.198	0.020	mg/kg	0.200	0.0009	98.6	70-130	1.47	20	
Indeno (1,2,3-cd) pyrene	0.229	0.020	"	0.200	0.002	114	70-130	15.0	20	
Naphthalene	0.206	0.002	"	0.200	ND	103	70-130	2.89	20	
Phenanthrene	0.218	0.020	"	0.200	0.002	108	70-130	14.5	20	
Pyrene	0.206	0.020	"	0.200	0.002	102	70-130	4.20	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.7	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	200		"	200		97.7	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 - SH Farms C17-19

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 B4E2313 - DTPA Sorbitol Preparation

Blank (B4E2313-BLK1)

Prepared: 05/23/2024 Analyzed: 05/24/2024

Boron ND 0.100 mg/L

Duplicate (B4E2313-DUP1)

Source: Y405663-01

Prepared: 05/23/2024 Analyzed: 05/24/2024

Boron 0.253 0.100 mg/L 0.244 3.55 50

Batch B4E2403 - Saturated Paste Metals

Blank (B4E2403-BLK1)

Prepared: 05/24/2024 Analyzed: 05/29/2024

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 (B4E2403-DUP1)

Source: Y405663-01

Prepared: 05/24/2024 Analyzed: 05/29/2024

SAR ND 0.0100 SAR 2.01 200

Calcium PPM 25.1 10.0 mg/L 26.9 7.01 50

Magnesium PPM 4.79 10.0 " 5.26 9.35 50

Sodium PPM 40.4 10.0 " 43.6 7.57 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 - SH Farms C17-19

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2413 - Saturated Paste pH/EC										
Blank (B4E2413-BLK1)					Prepared: 05/24/2024 Analyzed: 05/29/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4E2413-DUP1)					Source: Y405663-01 Prepared: 05/24/2024 Analyzed: 05/29/2024					
pH	8.18		pH Units		8.20			0.244	25	
Specific Conductance (EC)	0.425	0.00500	mmhos/cm		0.444			4.46	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 - SH Farms C17-19

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 2625948 - SW846 3060A										
BLANK (1205760168-BLK)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.274	mg/kg				-			U
LCS (1205760169-BKS)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	3.17	0.316	mg/kg	3.16		100	80-120			
DUP (1205760170 D)					Source: 670292001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.423	mg/kg dry		<0.169		0-50	N/A	50	U
MS (1205760171 S)					Source: 670292001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	3.45	0.423	mg/kg dry	4.23	<0.169	79.3	75-125			
DUP (1205760172 D)					Source: 670394001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	ND	0.321	mg/kg dry		<0.128		0-50	N/A	50	U
MS (1205760173 S)					Source: 670394001 Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	1.74	0.321	mg/kg dry	3.21	<0.128	51.8	75-125			
ILCS (1205760174-ILCS)					Prepared: 06/13/2024 Analyzed: 06/14/2024					
Hexavalent Chromium	4.60	0.224	mg/kg	4.61		99.8	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 - SH Farms C17-19

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

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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