



Facility Closure Investigation and Environmental Summary

HSR-Lambert 10-26 Wellhead

ECMC Remediation Project #32509

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

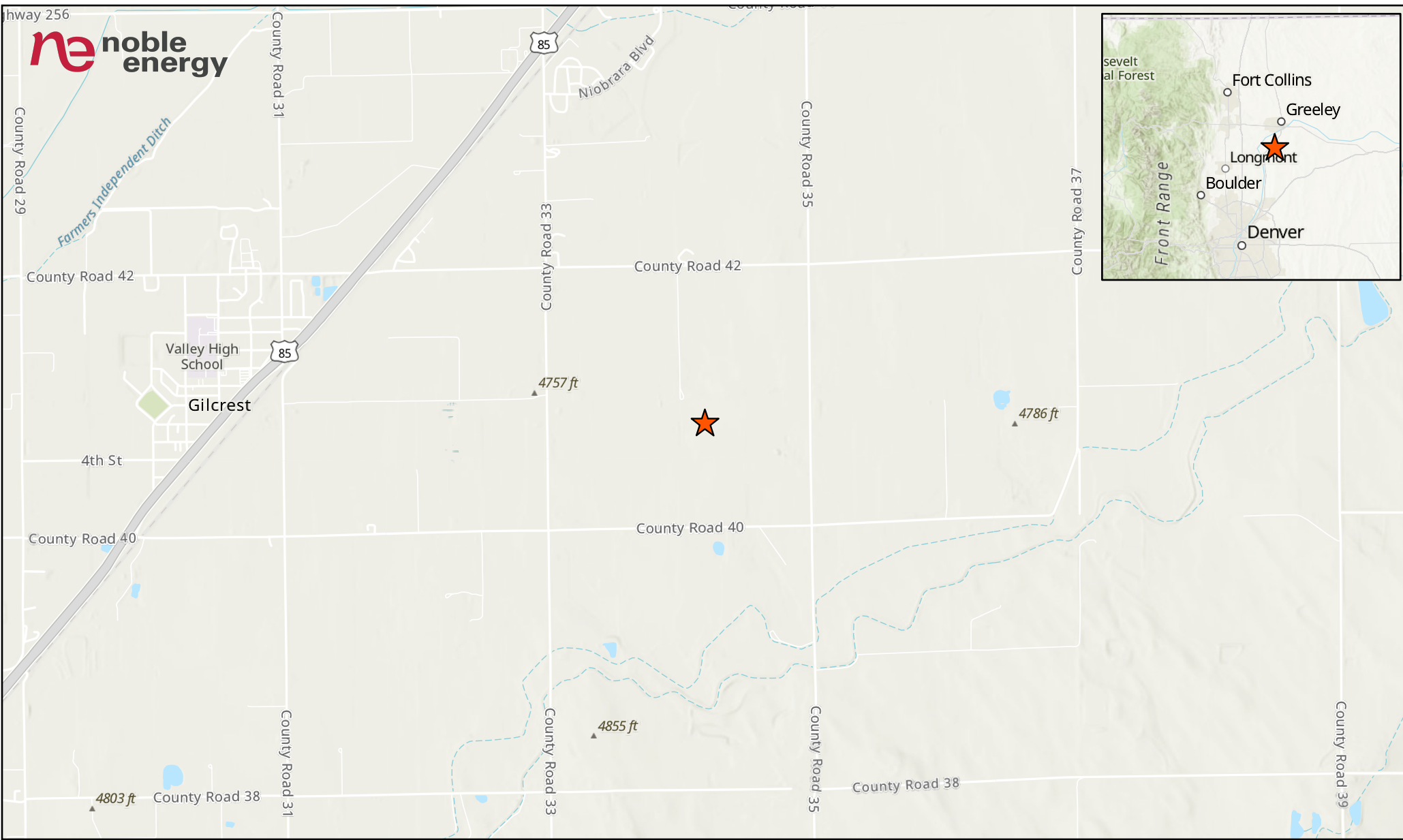
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

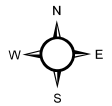
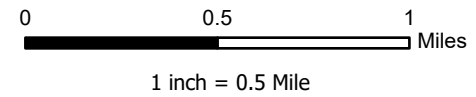
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

 Site Location



Project No: 024-098

Map By: JW

Date: 06/26/2024

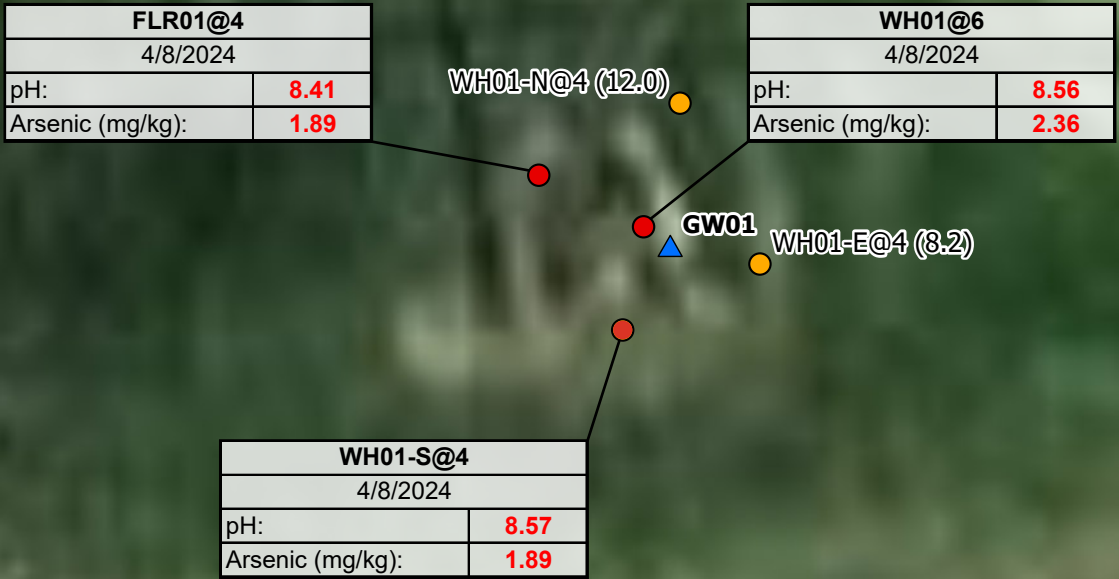
**HSR-LAMBERT 10-26 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
NW 1/4 SE 1/4 SECTION 26
T4N R66W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure

1



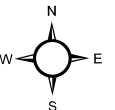
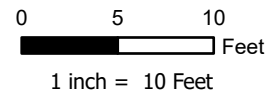
LABEL LEGEND
 XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
 FLR: FLOWLINE RISER SAMPLE
RED: ABOVE ECMC TABLE 915-1 GWSSL

Legend

- Soil Sample
- Screening Location

▲ Groundwater Sample

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



Project No: 024-098
 Map By: JW
 Date: 06/26/2024

**HSR-LAMBERT 10-26 WELLHEAD
 SOIL SAMPLE AND FIELD SCREENING LOCATIONS**
 NOBLE ENERGY
 NW 1/4 SE 1/4 SECTION 26
 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
HSR-LAMBERT 10-26 WELLHEAD, WELD COUNTY, COLORADO
REM # 32509

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	4/8/2024	6	40.281472	-104.742482	5.0
FLR01@4	4/8/2024	4	40.281479	-104.742502	17.2
WH01-N@4	4/8/2024	4	40.281489	-104.742475	12.0
WH01-S@4	4/8/2024	4	40.281457	-104.742487	42.0
WH01-E@4	4/8/2024	4	40.281466	-104.742461	8.2
GW01	4/8/2024	~6	40.281469	-104.742478	NM

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

NM - Not measured

TABLE 2
SUMMARY OF VOLATILE ORGANIC SOIL CHEMISTRY DATA
NOBLE 100322
HSR-LAMBERT 10-26 WELLHEAD, WELD COUNTY, COLORADO
REM # 32509

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	4/8/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	4/8/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
WH01-S@4	4/8/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	39.66	2.86	36.8	<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
HSR-LAMBERT 10-26 WELLHEAD, WELD COUNTY, COLORADO
REM # 32509

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	4/8/2024	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	4/8/2024	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
WH01-S@4	4/8/2024	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
HSR-LAMBERT 10-26 WELLHEAD, WELD COUNTY, COLORADO
REM # 32509

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	4/8/2024	6	8.56	0.771	3.21	0.314
FLR01@4	4/8/2024	4	8.41	0.700	3.00	0.326
WH01-S@4	4/8/2024	4	8.57	0.735	2.46	0.309

1. **RED** - Above ECMC Table 915-1 Standards

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
HSR-LAMBERT 10-26 WELLHEAD, WELD COUNTY, COLORADO
REM # 32509

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	4/8/2024	6	2.36	78.0	0.104	<0.173*	<9.87	8.72	5.77	<0.257	0.107	<36.5
FLR01@4	4/8/2024	4	1.89	57.4	0.152	<0.137*	<9.72	12.3	4.29	<0.253	0.132	<36.0
WH01-S@4	4/8/2024	4	1.89	60.8	<0.0890	<0.171*	<8.90	6.59	4.89	<0.231	0.0890	<32.9

1. **RED** - Above ECMC Table 915-1 Standards

2. Red 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

TABLE 6
SUMMARY OF ORGANIC GROUNDWATER CHEMISTRY DATA
NOBLE 100322
HSR-LAMBERT 10-26 WELLHEAD, WELD COUNTY, COLORADO
REM # 32509

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Xylenes (µg/L)	Naphthalene (µg/L)	1,2,4-Trimethyl-Benzene (µg/L)	1,3,5-Trimethyl-Benzene (µg/L)
ECMC Table 915-1 Limits			5.0	560	700	1400	140	67	67
GW01	4/8/2024	~6	<1.00	1.35	<1.00	4.78	<4.00	2.20	1.39

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
 ft-bgs - feet below ground surface
 µg/L - micrograms per liter

**ATTACHMENT A
PHOTOGRAPHIC LOG**

HSR-Lambert 10-26 Wellhead Photographic Log



HSR-Lambert 10-26 Wellhead Photographic Log



HSR-Lambert 10-26 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: HSR-Lambert 10-26, 248795		Date: 4/8/2024				Remediation Project #: 32509			
Associated Wells: NA		Age of Site: 1/31/1993-spud date				Number of Photos Attached: 3			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.281460 / -104.742470						Estimated Facility Size (acres): ~0.01			
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)									
Slight staining and odor observed									
USCS Soil Type: Clayey Sand (SC)				Estimated Depth to Groundwater: ~6 feet below ground surface (bgs)					
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	05-123-16597								
Age	1/31/1993-spud date								
Condition of surface around wellhead	Good								
PID Readings	5.0 to 42.0 ppm								
Condition of subsurface (staining present)	Staining, odor								
PID Readings	5.0 to 42.0 ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4, WH01-S@4								
Photo Number(s)	1-3								
Other observations regarding wellheads:									
Black staining and odor were observed between 4 ft bgs and 6ft bgs, around wellhead and flowline riser									
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: 42.0 ppm					Total number of samples submitted to lab for analysis: 3				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required?									
Was groundwater encountered during the investigation?									
No		<input checked="" type="checkbox"/> Yes - not impacted or in contact with impacted soils			Yes - groundwater impacted and/or in contact with impacted soils				
Measured depth to groundwater: ~6ft bgs					Was remedial groundwater removal conducted? Yes <input checked="" type="checkbox"/> No				
Date Groundwater was encountered: 4/8/2024					Commencement date of removal:				
Sheen on groundwater? Yes <input checked="" type="checkbox"/> No					Volume of groundwater removed prior to sampling:				
Free product observed? Yes <input checked="" type="checkbox"/> No					Volume of groundwater removed post sampling:				
Total number of samples collected: 1					Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis: 1									

**ATTACHMENT C
LABORATORY ANALYTICAL REPORTS**

April 19, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - HSR - Lambert 10-26

Project Number - [none]

Attached are your analytical results for Chevron - HSR - Lambert 10-26 received by Origins Laboratory, Inc. April 08, 2024. This project is associated with Origins project number Y404230-01.

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 Veryter

Project Number: [none]

Project: Chevron - HSR - Lambert 10-26

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y404230-01	Soil	April 8, 2024 9:00	04/08/2024 14:00
FLR01@4	Y404230-02	Soil	April 8, 2024 9:05	04/08/2024 14:00
WH01-S@4	Y404230-05	Soil	April 8, 2024 9:20	04/08/2024 14:00
GW01	Y404230-06	Water	April 8, 2024 9:30	04/08/2024 14:00

Chain of Custody Modification Request

On 4/18/2024, Lindsey Blankenship from Entrada contacted Jordan Bynon via email regarding Y404230 requesting that Naphthalene be added and TPH be removed from GW01. Requested modifications to the chain of custody were made by Jordan Bynon on 4/18/2024.

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 Veryer
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y404 230

Client: Entrada
 Client Project ID: Lambert 10-26

Checklist Completed by: EHS
 Date/time completed: 4/8/12

Shipped Via: HD
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A

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

Cooler Number/Temperature: 1 / 14.1 °C _____ / _____ °C _____ / _____ °C (Describe)

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

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

Reviewed by (Project Manager) [Signature] Date/Time Reviewed 4/9/12

Origins Laboratory, Inc.

[Signature]

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

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01@6
4/8/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.314		0.101	mg/L	1	B4D1011	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1023	04/10/2024	04/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	92.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1042	04/10/2024	04/14/2024	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	101 %		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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01@6
 4/8/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404230-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	98.0 %		70-130			B4D10 42	04/10/2024	04/14/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.53		0.499	meq/L	10	[CALC]	04/09/2024	04/10/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.41		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1130	04/11/2024	04/13/2024	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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01@6
 4/8/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	100 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.1 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.56			pH Units	1	B4D0913	04/09/2024	04/10/2024	
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SAR by 20B Saturated Paste

SAR	3.21		0.0100	SAR	1	B4D0910	04/09/2024	04/10/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.771		0.00500	mmhos/cm	1	B4D0913	04/09/2024	04/10/2024	
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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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01@6
 4/8/2024 9:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404230-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	2.36	0.286	mg/kg	10	B4D0918	04/09/2024	04/10/2024	
Barium	78.0	9.87	"	"	"	"	"	
Cadmium	0.104	0.0987	"	"	"	"	"	
Copper	ND	9.87	"	"	"	"	"	
Lead	8.72	0.987	"	"	"	"	"	
Nickel	5.77	0.987	"	"	"	"	"	
Selenium	ND	0.257	"	"	"	"	"	
Silver	0.107	0.0987	"	"	"	"	"	
Zinc	ND	36.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.173	0.433	mg/kg dry	1	2596345	04/12/2024	04/15/2024	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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

FLR01@4
 4/8/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404230-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.326		0.0998	mg/L	1	B4D1012	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1023	04/10/2024	04/11/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	89.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1042	04/10/2024	04/14/2024	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	102 %		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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

FLR01@4
 4/8/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404230-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	97.3 %		70-130			B4D10 42	04/10/2024	04/14/2024	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.96	0.499	meq/L	10	[CALC]		04/09/2024	04/10/2024	
Magnesium	0.840	0.823	"	"	"	"	"	"	
Sodium	3.55	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4D1130		04/11/2024	04/13/2024	
2-Methylnaphthalene	0.002	0.002	"	"	"	"	"	"	
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.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

FLR01@4
 4/8/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.9 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	89.1 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	93.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.41			pH Units	1	B4D0913	04/09/2024	04/10/2024	
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SAR by 20B Saturated Paste

SAR	3.00		0.0100	SAR	1	B4D0910	04/09/2024	04/10/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.700		0.00500	mmhos/cm	1	B4D0913	04/09/2024	04/10/2024	
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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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

FLR01@4

4/8/2024 9:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404230-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.89		0.282	mg/kg	10	B4D0918	04/09/2024	04/10/2024	
Barium	57.4		9.72	"	"	"	"	"	
Cadmium	0.152		0.0972	"	"	"	"	"	
Copper	ND		9.72	"	"	"	"	"	
Lead	12.3		0.972	"	"	"	"	"	
Nickel	4.29		0.972	"	"	"	"	"	
Selenium	ND		0.253	"	"	"	"	"	
Silver	0.132		0.0972	"	"	"	"	"	
Zinc	ND		36.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.137	0.343	mg/kg dry	1	2596345	04/12/2024	04/15/2024	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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01-S@4
4/8/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.309		0.0991	mg/L	1	B4D1012	04/10/2024	04/11/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	36.8		25.0	mg/kg	1	B4D1023	04/10/2024	04/11/2024	
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	93.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1042	04/10/2024	04/14/2024	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	2.86		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	103 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.6 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01-S@4

4/8/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene 103 % 70-130 B4D10 42 04/10/2024 04/14/2024

Metals by Saturated Paste by EPA 6010

Calcium	1.49	0.499	meq/L	10	[CALC]	04/09/2024	04/10/2024
Magnesium	ND	0.823	"	"	"	"	"
Sodium	2.59	0.435	"	"	"	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1130	04/11/2024	04/13/2024	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
Fluorene	ND	0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01-S@4

4/8/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-05 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4D1130	04/11/2024	04/13/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	97.8 %		60-130			"	"	"	
Surrogate: Anthracene-d10	94.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	92.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.57			pH Units	1	B4D0913	04/09/2024	04/10/2024	
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SAR by 20B Saturated Paste

SAR	2.46		0.0100	SAR	1	B4D0910	04/09/2024	04/10/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.735		0.00500	mmhos/cm	1	B4D0913	04/09/2024	04/10/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.89		0.258	mg/kg	10	B4D0918	04/09/2024	04/10/2024	
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Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

WH01-S@4

4/8/2024 9:20:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-05 (Soil)

Table 915 metals by EPA 6020B

Barium	60.8		8.90	mg/kg	10	B4D0918	04/09/2024	04/10/2024	
Cadmium	ND		0.0890	"	"	"	"	"	
Copper	ND		8.90	"	"	"	"	"	
Lead	6.59		0.890	"	"	"	"	"	
Nickel	4.89		0.890	"	"	"	"	"	
Selenium	ND		0.231	"	"	"	"	"	
Silver	0.0890		0.0890	"	"	"	"	"	
Zinc	ND		32.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.171	0.427	mg/kg dry	1	2596345	04/12/2024	04/15/2024	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 Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

GW01

4/8/2024 9:30:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404230-06 (Water)

GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	2.20		1.00	ug/L	1	B4D0927	04/09/2024	04/10/2024	
1,3,5-Trimethylbenzene	1.39		1.00	"	"	"	"	"	
Benzene	ND		1.00	"	"	"	"	"	Ua
Ethylbenzene	ND		1.00	"	"	"	"	"	Ua
Naphthalene	ND		4.00	"	"	"	"	"	Ua
Toluene	1.35		1.00	"	"	"	"	"	
Xylenes, total	4.78		1.00	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	97.5 %		70-130			"	"	"	
Surrogate: Toluene-d8	107 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	121 %		70-130			"	"	"	

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1023 - EPA 3550B										
Blank (B4D1023-BLK1)										
					Prepared: 04/10/2024 Analyzed: 04/11/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		88.6	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1023 - EPA 3550B

LCS (B4D1023-BS1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

Diesel (C10-C28)	937	50.0	mg/kg	1000		93.7	70-130			
Residual Range Organics (C28-C40)	909	200	"	1000		90.9	70-130			
Surrogate: o-Terphenyl	65		"	49.8		130	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1023 - EPA 3550B

Matrix Spike (B4D1023-MS1)	Source: Y404219-01			Prepared: 04/10/2024 Analyzed: 04/11/2024						
Diesel (C10-C28)	928	50.0	mg/kg	1000	ND	92.8	70-130			
Residual Range Organics (C28-C40)	918	200	"	1000	ND	91.8	70-130			
Surrogate: o-Terphenyl	53		"	49.8		107	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1023 - EPA 3550B										
Matrix Spike Dup (B4D1023-MSD1)		Source: Y404219-01			Prepared: 04/10/2024 Analyzed: 04/11/2024					
Diesel (C10-C28)	927	50.0	mg/kg	1000	ND	92.7	70-130	0.131	35	
Residual Range Organics (C28-C40)	924	200	"	1000	ND	92.4	70-130	0.627	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1042 - EPA 5030 (soil)

Blank (B4D1042-BLK1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

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	96.9		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	100		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	103		70-130			

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1042 - EPA 5030 (soil)

LCS (B4D1042-BS1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

1,2,4-Trimethylbenzene	0.118	0.00200	mg/kg	0.100		118	70-130			
1,3,5-Trimethylbenzene	0.115	0.00200	"	0.100		115	70-130			
Benzene	0.0994	0.00200	"	0.100		99.4	70-130			
Ethylbenzene	0.114	0.00200	"	0.100		114	70-130			
Naphthalene	0.106	0.00380	"	0.100		106	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.103	0.00200	"	0.100		103	70-130			
m,p-Xylene	0.220	0.00400	"	0.200		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.2	70-130			

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1042 - EPA 5030 (soil)

Matrix Spike (B4D1042-MS1)	Source: Y404211-01			Prepared: 04/10/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130			
Benzene	0.110	0.00200	"	0.100	ND	110	70-130			
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130			
Naphthalene	0.0899	0.00380	"	0.100	ND	89.9	70-130			
Toluene	0.105	0.00200	"	0.100	ND	105	70-130			
o-Xylene	0.110	0.00200	"	0.100	ND	110	70-130			
m,p-Xylene	0.222	0.00400	"	0.200	ND	111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.1	70-130			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1042 - EPA 5030 (soil)

Matrix Spike Dup (B4D1042-MSD1)	Source: Y404211-01			Prepared: 04/10/2024 Analyzed: 04/11/2024						
1,2,4-Trimethylbenzene	0.127	0.00200	mg/kg	0.100	ND	127	70-130	16.1	20	
1,3,5-Trimethylbenzene	0.124	0.00200	"	0.100	ND	124	70-130	17.1	20	
Benzene	0.124	0.00200	"	0.100	ND	124	70-130	12.0	20	
Ethylbenzene	0.128	0.00200	"	0.100	ND	128	70-130	16.1	20	
Naphthalene	0.110	0.00380	"	0.100	ND	110	70-130	20.4	20	QR-02
Toluene	0.123	0.00200	"	0.100	ND	123	70-130	15.7	20	
o-Xylene	0.130	0.00200	"	0.100	ND	130	70-130	16.5	20	
m,p-Xylene	0.258	0.00400	"	0.200	ND	129	70-130	15.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.8	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		96.8	70-130			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D0918 - EPA 3050B

Blank (B4D0918-BLK1)

Prepared: 04/09/2024 Analyzed: 04/10/2024

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 (B4D0918-BS1)

Prepared: 04/09/2024 Analyzed: 04/10/2024

Arsenic	5.21	0.290	mg/kg	5.00		104	80-120			
Barium	527	10.0	"	500		105	80-120			
Cadmium	5.32	0.100	"	5.00		106	80-120			
Copper	55.0	10.0	"	50.0		110	80-120			
Lead	5.15	1.00	"	5.00		103	80-120			
Nickel	5.47	1.00	"	5.00		109	80-120			
Selenium	10.3	0.260	"	9.50		109	80-120			
Silver	5.47	0.100	"	5.00		109	80-120			
Zinc	52.8	37.0	"	50.0		106	80-120			

Matrix Spike (B4D0918-MS1)

Source: Y404230-01

Prepared: 04/09/2024 Analyzed: 04/10/2024

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 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D0918 - EPA 3050B

Matrix Spike (B4D0918-MS1)		Source: Y404230-01			Prepared: 04/09/2024 Analyzed: 04/10/2024					
Arsenic	7.42	0.287	mg/kg	4.94	2.36	102	75-125			
Barium	606	9.89	"	494	78.0	107	75-125			
Cadmium	5.58	0.0989	"	4.94	0.104	111	75-125			
Copper	66.6	9.89	"	49.4	7.55	119	75-125			
Lead	16.9	0.989	"	4.94	8.72	166	75-125			QM-07
Nickel	10.1	0.989	"	4.94	5.77	87.6	75-125			
Selenium	10.4	0.257	"	9.39	0.196	109	75-125			
Silver	5.73	0.0989	"	4.94	0.107	114	75-125			
Zinc	85.3	36.6	"	49.4	33.9	104	75-125			

Matrix Spike Dup (B4D0918-MSD1)		Source: Y404230-01			Prepared: 04/09/2024 Analyzed: 04/10/2024					
Arsenic	7.03	0.266	mg/kg	4.58	2.36	102	75-125	5.41	20	
Barium	558	9.16	"	458	78.0	105	75-125	8.27	20	
Cadmium	5.17	0.0916	"	4.58	0.104	111	75-125	7.73	20	
Copper	60.8	9.16	"	45.8	7.55	116	75-125	9.04	20	
Lead	16.0	0.916	"	4.58	8.72	158	75-125	5.86	20	QM-07
Nickel	9.64	0.916	"	4.58	5.77	84.6	75-125	4.61	20	
Selenium	9.67	0.238	"	8.70	0.196	109	75-125	7.23	20	
Silver	5.24	0.0916	"	4.58	0.107	112	75-125	8.81	20	
Zinc	79.2	33.9	"	45.8	33.9	98.8	75-125	7.48	20	

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1130 - EPA 3580

Blank (B4D1130-BLK1)

Prepared: 04/11/2024 Analyzed: 04/13/2024

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		97.8	60-130			
Surrogate: Anthracene-d10	220		"	200		111	60-130			
Surrogate: Pyrene-d10	190		"	200		92.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

LCS (B4D1130-BS1)

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	0.199	0.002	mg/kg	0.200		99.6	70-130			
2-Methylnaphthalene	0.195	0.002	"	0.200		97.7	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.7	70-130			
Anthracene	0.183	0.020	"	0.200		91.6	70-130			

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Entrada Consulting Group
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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1130 - EPA 3580

LCS (B4D1130-BS1)

Prepared: 04/11/2024 Analyzed: 04/13/2024

Benzo (a) anthracene	0.197	0.005	mg/kg	0.200		98.3	70-130			
Benzo (a) pyrene	0.200	0.020	"	0.200		100	70-130			
Benzo (b) fluoranthene	0.181	0.020	"	0.200		90.6	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200		100	70-130			
Benzo (k) fluoranthene	0.184	0.020	"	0.200		92.0	70-130			
Chrysene	0.182	0.020	"	0.200		91.0	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200		96.3	70-130			
Fluoranthene	0.199	0.020	"	0.200		99.3	70-130			
Fluorene	0.190	0.020	"	0.200		94.9	70-130			
Indeno (1,2,3-cd) pyrene	0.230	0.020	"	0.200		115	70-130			
Naphthalene	0.191	0.002	"	0.200		95.3	70-130			
Phenanthrene	0.187	0.020	"	0.200		93.5	70-130			
Pyrene	0.183	0.020	"	0.200		91.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.1	60-130			
Surrogate: Anthracene-d10	210		"	200		103	60-130			
Surrogate: Pyrene-d10	190		"	200		93.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		100	60-130			

Matrix Spike (B4D1130-MS1)

Source: Y404172-01

Prepared: 04/11/2024 Analyzed: 04/13/2024

1-Methylnaphthalene	0.217	0.002	mg/kg	0.200	ND	108	70-130			
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130			
Acenaphthene	0.204	0.020	"	0.200	ND	102	70-130			
Anthracene	0.184	0.020	"	0.200	ND	91.9	70-130			
Benzo (a) anthracene	0.207	0.005	"	0.200	ND	104	70-130			
Benzo (a) pyrene	0.209	0.020	"	0.200	ND	105	70-130			
Benzo (b) fluoranthene	0.208	0.020	"	0.200	0.0003	104	70-130			
Benzo (g,h,i) perylene	0.213	0.020	"	0.200	ND	106	70-130			

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Chelsea Veryer
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1130 - EPA 3580

Matrix Spike (B4D1130-MS1)		Source: Y404172-01			Prepared: 04/11/2024 Analyzed: 04/13/2024					
Benzo (k) fluoranthene	0.219	0.020	mg/kg	0.200	ND	109	70-130			
Chrysene	0.199	0.020	"	0.200	0.002	98.2	70-130			
Dibenz (a,h) anthracene	0.193	0.020	"	0.200	ND	96.7	70-130			
Fluoranthene	0.217	0.020	"	0.200	ND	108	70-130			
Fluorene	0.203	0.020	"	0.200	ND	102	70-130			
Indeno (1,2,3-cd) pyrene	0.219	0.020	"	0.200	ND	109	70-130			
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130			
Phenanthrene	0.204	0.020	"	0.200	ND	102	70-130			
Pyrene	0.192	0.020	"	0.200	ND	95.9	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

Matrix Spike Dup (B4D1130-MSD1)		Source: Y404172-01			Prepared: 04/11/2024 Analyzed: 04/13/2024					
1-Methylnaphthalene	0.185	0.002	mg/kg	0.200	ND	92.3	70-130	16.1	20	
2-Methylnaphthalene	0.181	0.002	"	0.200	ND	90.7	70-130	15.2	20	
Acenaphthene	0.175	0.020	"	0.200	ND	87.7	70-130	15.0	20	
Anthracene	0.168	0.020	"	0.200	ND	83.9	70-130	9.09	20	
Benzo (a) anthracene	0.200	0.005	"	0.200	ND	100	70-130	3.35	20	
Benzo (a) pyrene	0.179	0.020	"	0.200	ND	89.3	70-130	15.8	20	
Benzo (b) fluoranthene	0.178	0.020	"	0.200	0.0003	89.0	70-130	15.3	20	
Benzo (g,h,i) perylene	0.181	0.020	"	0.200	ND	90.4	70-130	16.3	20	
Benzo (k) fluoranthene	0.162	0.020	"	0.200	ND	81.1	70-130	29.8	20	QR-02
Chrysene	0.171	0.020	"	0.200	0.002	84.3	70-130	15.0	20	
Dibenz (a,h) anthracene	0.177	0.020	"	0.200	ND	88.6	70-130	8.76	20	
Fluoranthene	0.182	0.020	"	0.200	ND	91.2	70-130	17.1	20	

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D1130 - EPA 3580

Matrix Spike Dup (B4D1130-MSD1)	Source: Y404172-01			Prepared: 04/11/2024 Analyzed: 04/13/2024						
Fluorene	0.173	0.020	mg/kg	0.200	ND	86.5	70-130	16.0	20	
Indeno (1,2,3-cd) pyrene	0.195	0.020	"	0.200	ND	97.4	70-130	11.5	20	
Naphthalene	0.178	0.002	"	0.200	ND	88.8	70-130	15.8	20	
Phenanthrene	0.175	0.020	"	0.200	ND	87.6	70-130	15.1	20	
Pyrene	0.167	0.020	"	0.200	ND	83.3	70-130	14.1	20	
Surrogate: Fluorene-d10	200		ug/kg	200		98.2	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		91.6	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.7	60-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

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 B4D0910 - Saturated Paste Metals

Blank (B4D0910-BLK1)

Prepared: 04/09/2024 Analyzed: 04/10/2024

SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							

Duplicate (B4D0910-DUP1)

Source: Y404221-04

Prepared: 04/09/2024 Analyzed: 04/10/2024

Calcium PPM	19.6	10.0	mg/L		19.6			0.00	50	
SAR	ND	0.0100	SAR		0.662				200	
Magnesium PPM	4.28	10.0	mg/L		4.52			5.45	50	
Sodium PPM	11.3	10.0	"		12.5			10.3	50	

Batch B4D1011 - DTPA Sorbitol Preparation

Blank (B4D1011-BLK1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D1011-DUP1)

Source: Y404230-01

Prepared: 04/10/2024 Analyzed: 04/11/2024

Boron	0.309	0.0986	mg/L		0.314			1.54	50	
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Batch B4D1012 - DTPA Sorbitol Preparation

Blank (B4D1012-BLK1)

Prepared: 04/10/2024 Analyzed: 04/11/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D1012-DUP1)

Source: Y404230-02

Prepared: 04/10/2024 Analyzed: 04/11/2024

Boron	0.328	0.0996	mg/L		0.326			0.533	50	
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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0913 - Saturated Paste pH/EC										
Blank (B4D0913-BLK1)					Prepared: 04/09/2024 Analyzed: 04/10/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D0913-DUP1)					Source: Y404221-04 Prepared: 04/09/2024 Analyzed: 04/10/2024					
pH	8.42		pH Units		8.43			0.119	25	
Specific Conductance (EC)	0.261	0.00500	mmhos/cm		0.297			13.2	25	

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - HSR - Lambert 10-26

Total Metals by 7196A - Quality Control
GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2596345 - SW846 3060A										
BLANK (1205702492-BLK)					Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	ND	0.343	mg/kg				-			U
LCS (1205702493-BKS)					Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	3.86	0.387	mg/kg	3.87		99.9	80-120			
DUP (1205702494 D)					Source: 662737001 Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	ND	0.297	mg/kg dry		<0.119		0-50	N/A	50	U
MS (1205702495 S)					Source: 662737001 Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	2.47	0.365	mg/kg dry	3.65	<0.146	67.6	75-125			
DUP (1205702496 D)					Source: 662772002 Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	ND	0.386	mg/kg dry		0.180		0-50	N/A	50	U
MS (1205702497 S)					Source: 662772002 Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	3.22	0.408	mg/kg dry	4.08	0.180	74.4	75-125			
ILCS (1205702498-ILCS)					Prepared: 04/12/2024 Analyzed: 04/15/2024					
Hexavalent Chromium	6.86	0.340	mg/kg	6.86		100	80-120			

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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.

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