



Facility Closure Investigation and Environmental Summary

Firestien 30-13 Wellhead

ECMC Remediation Project #33051

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

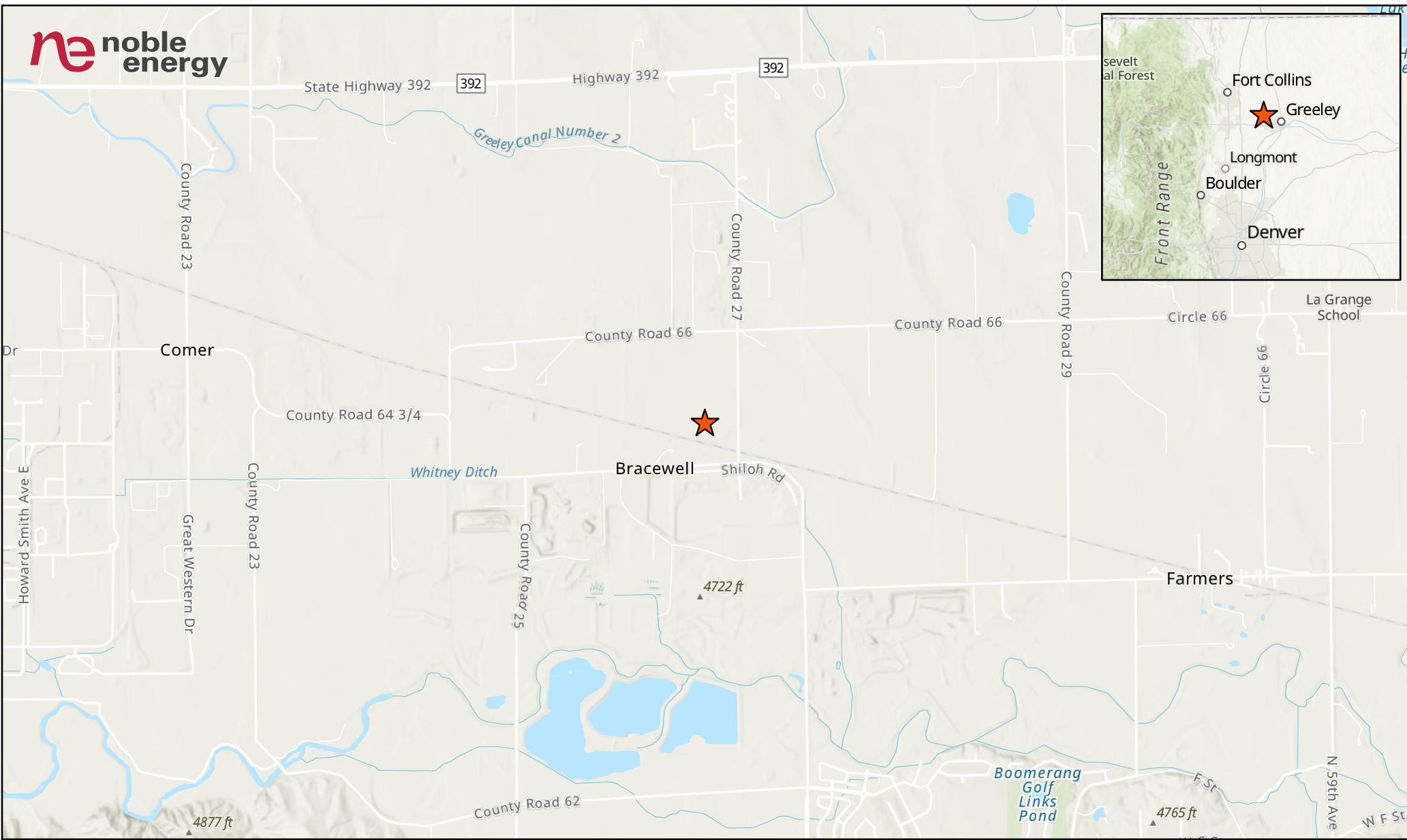
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

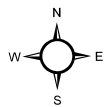
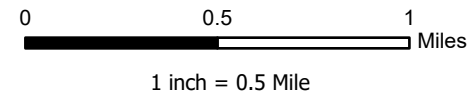
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

Site Location



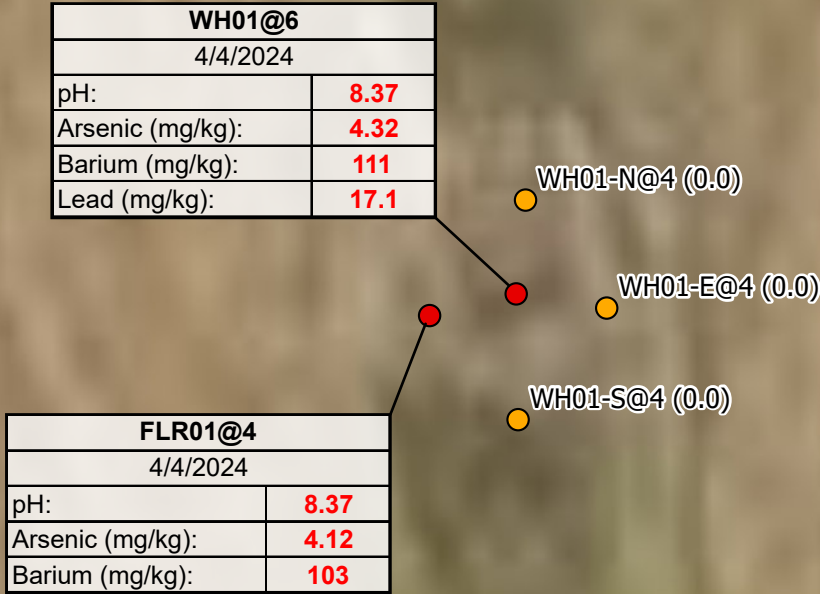
Project No:	024-088
Map By:	JW
Date:	06/11/2024

**FIRESTIEN 30-13 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SW 1/4 NE 1/4 SECTION 30
T6N R66W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure
1



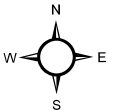
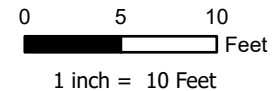
LABEL LEGEND	
XXXX@X:	SAMPLE NAME @ DEPTH IN FEET
WH:	WELLHEAD SAMPLE
FLR:	FLOWLINE RISER SAMPLE
RED:	ABOVE ECMC TABLE 915-1 GWSSL

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

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



Project No:	024-088
Map By:	JW
Date:	06/10/2024

FIRESTIEN 30-13 WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
 NOBLE ENERGY
 SW 1/4 NE 1/4 SECTION 30
 T6N 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
FIRESTIEN 30-13 WELLHEAD, WELD COUNTY, COLORADO
REM # 33051

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	4/4/2024	6	40.460913	-104.818682	0.0
FLR01@4	4/4/2024	4	40.460910	-104.818698	0.0
WH01-N@4	4/4/2024	4	40.460927	-104.818680	0.0
WH01-S@4	4/4/2024	4	40.460895	-104.818682	0.0
WH01-W@4	4/4/2024	4	40.460911	-104.818665	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
FIRESTIEN 30-13 WELLHEAD, WELD COUNTY, COLORADO
REM # 33051

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	4/4/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	4/4/2024	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
FIRESTIEN 30-13 WELLHEAD, WELD COUNTY, COLORADO
REM # 33051

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	4/4/2024	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	4/4/2024	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
FIRESTIEN 30-13 WELLHEAD, WELD COUNTY, COLORADO
REM # 33051

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	4/4/2024	6	8.37	0.396	0.714	0.221
FLR01@4	4/4/2024	4	8.37	0.340	0.741	0.115

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
FIRESTIEN 30-13 WELLHEAD, WELD COUNTY, COLORADO
REM # 33051

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	4/4/2024	6	4.32	111	0.141	<0.244*	8.91	17.1	8.31	<0.227	<0.0873	<32.3
FLR01@4	4/4/2024	4	4.12	103	0.119	<0.244*	<9.94	5.08	7.93	<0.258	<0.0994	<36.8

1. RED - Above ECMC Table 915-1 Standards

2. Red & blue highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)

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

* Indicates laboratory minimum detection limit in excess of SSL

ft-bgs = feet below ground surface

mg/kg - milligrams per kilogram

**ATTACHMENT A
PHOTOGRAPHIC LOG**

Firestien 30-13 Wellhead Photographic Log



Firestien 30-13 Wellhead Photographic Log



Firestien 30-13 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: Firestien 30-13, 290905		Date: 4/4/2024						Remediation Project #: 33051	
Associated Wells: NA		Age of Site: 9/11/2007 - spud date						Number of Photos Attached: 3	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.460913, -104.818682							Estimated Facility Size (acres): ~0.01		
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Overall good.									
USCS Soil Type: SM				Estimated Depth to Groundwater: Unknown/Not Encountered					
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.									
Wellhead(s)									
Well API	05-123-25275								
Age	9/11/2007 - spud date								
Condition of surface around wellhead	Good								
PID Readings	NA								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4								
Photo Number(s)	1-3								
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: NA									
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**

April 29, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Firestien 30-13

Project Number - [none]

Attached are your analytical results for Chevron - Firestien 30-13 received by Origins Laboratory, Inc. April 04, 2024. This project is associated with Origins project number Y404144-01.

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 - Firestien 30-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6'	Y404144-01	Soil	April 4, 2024 11:00	04/04/2024 16:17
FLR01@4	Y404144-02	Soil	April 4, 2024 11:05	04/04/2024 16:17

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 - Firestien 30-13

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

Sample Receipt Checklist

Origins Work Order: 4404144 Client: Entrada
 Checklist Completed by: JST/18A Client Project ID: Firestien 30-13
 Date/time completed: 4/4/12 Shipped Via: HL
 (UPS, FedEx, Hand Delivered, Pick-up, etc.)
 Airbill #: N/A
 Matrix(s) Received: (Check all that apply): Soil/Solid Water Other: _____ (Describe)
 Cooler Number/Temperature: 1123 °C °C °C °C
 Thermometer ID: 7004

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		JD
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 (Project Manager) JD Date/Time Reviewed 4/8/12

Origins Laboratory, Inc.



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

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

WH01@6'
4/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404144-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.221		0.0984	mg/L	1	B4D0808	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0814	04/08/2024	04/09/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	102 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0941	04/09/2024	04/10/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	98.1 %		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 - Firestien 30-13

WH01@6'
4/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404144-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	108 %		70-130			B4D09 41	04/09/2024	04/10/2024	
Surrogate: 4-Bromofluorobenzene	123 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.87		0.499	meq/L	10	[CALC]	04/06/2024	04/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.820		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1024	04/10/2024	04/12/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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 - Firestien 30-13

WH01@6'
 4/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404144-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1024	04/10/2024	04/12/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	98.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	106 %		60-130			"	"	"	
Surrogate: Pyrene-d10	87.7 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	92.8 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B4D0618	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	0.714		0.0100	SAR	1	B4D0608	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.396		0.00500	mmhos/cm	1	B4D0618	04/06/2024	04/08/2024	
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Table 915 metals by EPA 6020B

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 - Firestien 30-13

WH01@6'

4/4/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.

Y404144-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.32	0.253	mg/kg	10	B4D0450	04/04/2024	04/06/2024
Barium	111	8.73	"	"	"	"	"
Cadmium	0.141	0.0873	"	"	"	"	"
Copper	8.91	8.73	"	"	"	"	"
Lead	17.1	0.873	"	"	"	"	"
Nickel	8.31	0.873	"	"	"	"	"
Selenium	ND	0.227	"	"	"	"	"
Silver	ND	0.0873	"	"	"	"	"
Zinc	ND	32.3	"	"	"	"	"

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L746800	04/04/2024	04/25/2024
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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 - Firestien 30-13

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404144-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.115		0.0985	mg/L	1	B4D0808	04/08/2024	04/09/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D0814	04/08/2024	04/09/2024	U
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	U

Surrogate: o-Terphenyl	101 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D0941	04/09/2024	04/10/2024	U
1,3,5-Trimethylbenzene	ND		0.00200	"	"	"	"	"	U
Benzene	ND		0.00200	"	"	"	"	"	U
Ethylbenzene	ND		0.00200	"	"	"	"	"	U
Toluene	ND		0.00200	"	"	"	"	"	U
Xylenes, total	ND		0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND		0.200	"	"	"	"	"	U

Surrogate: 1,2-Dichloroethane-d4	100 %		70-130			"	"	"	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

FLR01@4

4/4/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404144-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	107 %		70-130			B4D09 41	04/09/2024	04/10/2024	
Surrogate: 4-Bromofluorobenzene	124 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.48		0.499	meq/L	10	[CALC]	04/06/2024	04/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.769		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1024	04/10/2024	04/12/2024	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.020	"	"	"	"	"	U
Anthracene	ND		0.020	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	U
Chrysene	ND		0.020	"	"	"	"	"	U
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	U
Fluoranthene	ND		0.020	"	"	"	"	"	U

Origins Laboratory, Inc.



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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404144-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1024	04/10/2024	04/12/2024	U
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.020	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.7 %		60-130			"	"	"	
Surrogate: Anthracene-d10	104 %		60-130			"	"	"	
Surrogate: Pyrene-d10	88.0 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	91.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.37			pH Units	1	B4D0618	04/06/2024	04/08/2024	
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SAR by 20B Saturated Paste

SAR	0.741		0.0100	SAR	1	B4D0608	04/06/2024	04/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.340		0.00500	mmhos/cm	1	B4D0618	04/06/2024	04/08/2024	
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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 Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404144-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.12	0.288	mg/kg	10	B4D0450	04/04/2024	04/06/2024	
Barium	103	9.94	"	"	"	"	"	
Cadmium	0.119	0.0994	"	"	"	"	"	
Copper	ND	9.94	"	"	"	"	"	
Lead	5.08	0.994	"	"	"	"	"	
Nickel	7.93	0.994	"	"	"	"	"	
Selenium	ND	0.258	"	"	"	"	"	
Silver	ND	0.0994	"	"	"	"	"	
Zinc	ND	36.8	"	"	"	"	"	

Total Metals by 7196A

Chromium, Hexavalent	ND	0.244	0.5	mg/Kg	1	L746800	04/04/2024	04/25/2024
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D0814 - EPA 3550B										
Blank (B4D0814-BLK1)										
					Prepared: 04/08/2024 Analyzed: 04/09/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	27		"	24.9		108	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Firestien 30-13

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 B4D0814 - EPA 3550B

LCS (B4D0814-BS1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Diesel (C10-C28)	909	50.0	mg/kg	1000		90.9	70-130			
Residual Range Organics (C28-C40)	1000	200	"	1000		100	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Firestien 30-13

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 B4D0814 - EPA 3550B

Matrix Spike (B4D0814-MS1)	Source: Y404105-01			Prepared: 04/08/2024 Analyzed: 04/09/2024						
Diesel (C10-C28)	868	50.0	mg/kg	1000	ND	86.8	70-130			
Residual Range Organics (C28-C40)	946	200	"	1000	ND	94.6	70-130			
<i>Surrogate: o-Terphenyl</i>	<i>51</i>		<i>"</i>	<i>49.8</i>		<i>102</i>	<i>50-150</i>			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Firestien 30-13

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 B4D0814 - EPA 3550B

Matrix Spike Dup (B4D0814-MSD1)	Source: Y404105-01		Prepared: 04/08/2024 Analyzed: 04/09/2024							
Diesel (C10-C28)	917	50.0	mg/kg	1000	ND	91.7	70-130	5.45	35	
Residual Range Organics (C28-C40)	1000	200	"	1000	ND	100	70-130	5.81	35	
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D0941 - EPA 5030 (soil)

Blank (B4D0941-BLK1)

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

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	85.4		70-130			
Surrogate: Toluene-d8	0.14		"	0.125	112		70-130			
Surrogate: 4-Bromofluorobenzene	0.16		"	0.125	125		70-130			

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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D0941 - EPA 5030 (soil)

LCS (B4D0941-BS1)

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

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.0808	0.00200	"	0.100		80.8	70-130			
Ethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Naphthalene	0.105	0.00380	"	0.100		105	70-130			
Toluene	0.0942	0.00200	"	0.100		94.2	70-130			
o-Xylene	0.107	0.00200	"	0.100		107	70-130			
m,p-Xylene	0.209	0.00400	"	0.200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		91.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		107	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 - Firestien 30-13

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 B4D0941 - EPA 5030 (soil)

Matrix Spike (B4D0941-MS1)	Source: Y404144-01			Prepared: 04/09/2024 Analyzed: 04/10/2024						
1,2,4-Trimethylbenzene	0.0948	0.00200	mg/kg	0.100	0.00112	93.6	70-130			
1,3,5-Trimethylbenzene	0.0953	0.00200	"	0.100	ND	95.3	70-130			
Benzene	0.0703	0.00200	"	0.100	ND	70.3	70-130			
Ethylbenzene	0.0927	0.00200	"	0.100	0.00102	91.7	70-130			
Naphthalene	0.0853	0.00380	"	0.100	ND	85.3	70-130			
Toluene	0.0821	0.00200	"	0.100	0.00108	81.0	70-130			
o-Xylene	0.0949	0.00200	"	0.100	ND	94.9	70-130			
m,p-Xylene	0.188	0.00400	"	0.200	0.00154	93.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		90.1	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D0941 - EPA 5030 (soil)

Matrix Spike Dup (B4D0941-MSD1)	Source: Y404144-01			Prepared: 04/09/2024 Analyzed: 04/10/2024						
1,2,4-Trimethylbenzene	0.124	0.00200	mg/kg	0.100	0.00112	123	70-130	26.7	20	QR-02
1,3,5-Trimethylbenzene	0.123	0.00200	"	0.100	ND	123	70-130	25.7	20	QR-02
Benzene	0.0921	0.00200	"	0.100	ND	92.1	70-130	26.8	20	QR-02
Ethylbenzene	0.119	0.00200	"	0.100	0.00102	118	70-130	24.9	20	QR-02
Naphthalene	0.119	0.00380	"	0.100	ND	119	70-130	33.1	20	QR-02
Toluene	0.109	0.00200	"	0.100	0.00108	108	70-130	28.2	20	QR-02
o-Xylene	0.123	0.00200	"	0.100	ND	123	70-130	25.7	20	QR-02
m,p-Xylene	0.239	0.00400	"	0.200	0.00154	118	70-130	23.4	20	QR-02
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		93.2	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		105	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		100	70-130			

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D0450 - EPA 3050B

Blank (B4D0450-BLK1)

Prepared: 04/04/2024 Analyzed: 04/06/2024

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 (B4D0450-BS1)

Prepared: 04/04/2024 Analyzed: 04/06/2024

Arsenic	5.17	0.290	mg/kg	5.00		103	80-120			
Barium	531	10.0	"	500		106	80-120			
Cadmium	5.59	0.100	"	5.00		112	80-120			
Copper	56.2	10.0	"	50.0		112	80-120			
Lead	5.40	1.00	"	5.00		108	80-120			
Nickel	5.53	1.00	"	5.00		111	80-120			
Selenium	10.4	0.260	"	9.50		109	80-120			
Silver	5.42	0.100	"	5.00		108	80-120			
Zinc	51.4	37.0	"	50.0		103	80-120			

Matrix Spike (B4D0450-MS1)

Source: Y404134-01

Prepared: 04/04/2024 Analyzed: 04/06/2024

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 - Firestien 30-13

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 B4D0450 - EPA 3050B

Matrix Spike (B4D0450-MS1)		Source: Y404134-01			Prepared: 04/04/2024 Analyzed: 04/06/2024					
Arsenic	8.60	0.265	mg/kg	4.57	4.15	97.5	75-125			
Barium	565	9.14	"	457	110	99.7	75-125			
Cadmium	5.21	0.0914	"	4.57	0.305	107	75-125			
Copper	65.0	9.14	"	45.7	12.7	114	75-125			
Lead	18.1	0.914	"	4.57	13.9	90.2	75-125			
Nickel	17.1	0.914	"	4.57	12.5	102	75-125			
Selenium	9.32	0.238	"	8.68	0.528	101	75-125			
Silver	5.04	0.0914	"	4.57	0.0819	108	75-125			
Zinc	109	33.8	"	45.7	61.3	103	75-125			

Matrix Spike Dup (B4D0450-MSD1)		Source: Y404134-01			Prepared: 04/04/2024 Analyzed: 04/06/2024					
Arsenic	9.06	0.282	mg/kg	4.86	4.15	101	75-125	5.22	20	
Barium	640	9.73	"	486	110	109	75-125	12.4	20	
Cadmium	5.84	0.0973	"	4.86	0.305	114	75-125	11.3	20	
Copper	68.2	9.73	"	48.6	12.7	114	75-125	4.90	20	
Lead	19.0	0.973	"	4.86	13.9	104	75-125	5.06	20	
Nickel	16.9	0.973	"	4.86	12.5	92.4	75-125	1.05	20	
Selenium	10.8	0.253	"	9.24	0.528	111	75-125	14.8	20	
Silver	5.55	0.0973	"	4.86	0.0819	112	75-125	9.62	20	
Zinc	112	36.0	"	48.6	61.3	104	75-125	3.07	20	

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D1024 - EPA 3580

Blank (B4D1024-BLK1)

Prepared: 04/10/2024 Analyzed: 04/12/2024

1-Methylnaphthalene	ND	0.002	mg/kg							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (g,h,i) perylene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Phenanthrene	ND	0.020	"							U
Pyrene	ND	0.020	"							U
Surrogate: Fluorene-d10	200		ug/kg	200		98.9	60-130			
Surrogate: Anthracene-d10	210		"	200		105	60-130			
Surrogate: Pyrene-d10	180		"	200		89.3	60-130			
Surrogate: Benzo (a) pyrene-d12	180		"	200		92.2	60-130			

LCS (B4D1024-BS1)

Prepared: 04/10/2024 Analyzed: 04/12/2024

1-Methylnaphthalene	0.176	0.002	mg/kg	0.200		88.1	70-130			
2-Methylnaphthalene	0.176	0.002	"	0.200		88.0	70-130			
Acenaphthene	0.170	0.020	"	0.200		85.1	70-130			
Anthracene	0.166	0.020	"	0.200		82.8	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 - Firestien 30-13

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 B4D1024 - EPA 3580

LCS (B4D1024-BS1)

Prepared: 04/10/2024 Analyzed: 04/12/2024

Benzo (a) anthracene	0.179	0.005	mg/kg	0.200		89.6	70-130			
Benzo (a) pyrene	0.164	0.020	"	0.200		81.9	70-130			
Benzo (b) fluoranthene	0.169	0.020	"	0.200		84.7	70-130			
Benzo (g,h,i) perylene	0.178	0.020	"	0.200		89.1	70-130			
Benzo (k) fluoranthene	0.188	0.020	"	0.200		94.1	70-130			
Chrysene	0.169	0.020	"	0.200		84.4	70-130			
Dibenz (a,h) anthracene	0.173	0.020	"	0.200		86.4	70-130			
Fluoranthene	0.187	0.020	"	0.200		93.6	70-130			
Fluorene	0.174	0.020	"	0.200		86.8	70-130			
Indeno (1,2,3-cd) pyrene	0.208	0.020	"	0.200		104	70-130			
Naphthalene	0.170	0.002	"	0.200		85.2	70-130			
Phenanthrene	0.174	0.020	"	0.200		87.0	70-130			
Pyrene	0.159	0.020	"	0.200		79.6	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		98.6	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	180		"	200		89.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	60-130			

Matrix Spike (B4D1024-MS1)

Source: Y404144-01

Prepared: 04/10/2024 Analyzed: 04/12/2024

1-Methylnaphthalene	0.190	0.002	mg/kg	0.200	ND	95.2	70-130			
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	93.9	70-130			
Acenaphthene	0.184	0.020	"	0.200	ND	91.9	70-130			
Anthracene	0.178	0.020	"	0.200	ND	89.1	70-130			
Benzo (a) anthracene	0.199	0.005	"	0.200	ND	99.5	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200	ND	93.2	70-130			
Benzo (b) fluoranthene	0.171	0.020	"	0.200	ND	85.5	70-130			
Benzo (g,h,i) perylene	0.190	0.020	"	0.200	ND	95.2	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 - Firestien 30-13

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 B4D1024 - EPA 3580

Matrix Spike (B4D1024-MS1)	Source: Y404144-01			Prepared: 04/10/2024 Analyzed: 04/12/2024						
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	ND	94.2	70-130			
Chrysene	0.193	0.020	"	0.200	ND	96.7	70-130			
Dibenz (a,h) anthracene	0.189	0.020	"	0.200	ND	94.3	70-130			
Fluoranthene	0.209	0.020	"	0.200	ND	104	70-130			
Fluorene	0.185	0.020	"	0.200	ND	92.4	70-130			
Indeno (1,2,3-cd) pyrene	0.196	0.020	"	0.200	ND	98.2	70-130			
Naphthalene	0.182	0.002	"	0.200	ND	91.0	70-130			
Phenanthrene	0.185	0.020	"	0.200	ND	92.4	70-130			
Pyrene	0.163	0.020	"	0.200	ND	81.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			
Surrogate: Anthracene-d10	210		"	200		104	60-130			
Surrogate: Pyrene-d10	170		"	200		86.4	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.1	60-130			

Matrix Spike Dup (B4D1024-MSD1)	Source: Y404144-01			Prepared: 04/10/2024 Analyzed: 04/12/2024						
1-Methylnaphthalene	0.189	0.002	mg/kg	0.200	ND	94.4	70-130	0.820	20	
2-Methylnaphthalene	0.184	0.002	"	0.200	ND	92.1	70-130	1.93	20	
Acenaphthene	0.180	0.020	"	0.200	ND	90.0	70-130	2.05	20	
Anthracene	0.188	0.020	"	0.200	ND	93.8	70-130	5.04	20	
Benzo (a) anthracene	0.178	0.005	"	0.200	ND	88.8	70-130	11.4	20	
Benzo (a) pyrene	0.178	0.020	"	0.200	ND	88.9	70-130	4.78	20	
Benzo (b) fluoranthene	0.168	0.020	"	0.200	ND	83.8	70-130	2.06	20	
Benzo (g,h,i) perylene	0.188	0.020	"	0.200	ND	93.9	70-130	1.33	20	
Benzo (k) fluoranthene	0.191	0.020	"	0.200	ND	95.6	70-130	1.45	20	
Chrysene	0.192	0.020	"	0.200	ND	95.9	70-130	0.853	20	
Dibenz (a,h) anthracene	0.184	0.020	"	0.200	ND	92.0	70-130	2.48	20	
Fluoranthene	0.212	0.020	"	0.200	ND	106	70-130	1.62	20	

Origins Laboratory, Inc.



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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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 B4D1024 - EPA 3580

Matrix Spike Dup (B4D1024-MSD1)	Source: Y404144-01			Prepared: 04/10/2024 Analyzed: 04/12/2024						
Fluorene	0.183	0.020	mg/kg	0.200	ND	91.6	70-130	0.905	20	
Indeno (1,2,3-cd) pyrene	0.189	0.020	"	0.200	ND	94.5	70-130	3.83	20	
Naphthalene	0.180	0.002	"	0.200	ND	90.1	70-130	1.06	20	
Phenanthrene	0.188	0.020	"	0.200	ND	93.9	70-130	1.56	20	
Pyrene	0.163	0.020	"	0.200	ND	81.3	70-130	0.0276	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	190		"	200		92.7	60-130			
Surrogate: Pyrene-d10	170		"	200		87.2	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.3	60-130			

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 - Firestien 30-13

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 B4D0608 - Saturated Paste Metals

Blank (B4D0608-BLK1)

Prepared: 04/06/2024 Analyzed: 04/08/2024

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 (B4D0608-DUP1)

Source: Y404132-01

Prepared: 04/06/2024 Analyzed: 04/08/2024

SAR	ND	0.0100	SAR		15.5				200	
Calcium PPM	385	10.0	mg/L		369			4.19	50	
Magnesium PPM	535	10.0	"		535			0.0131	50	
Sodium PPM	1930	10.0	"		1990			3.35	50	

Batch B4D0808 - DTPA Sorbitol Preparation

Blank (B4D0808-BLK1)

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D0808-DUP1)

Source: Y404127-04

Prepared: 04/08/2024 Analyzed: 04/09/2024

Boron	1.03	0.0998	mg/L		1.02			1.01	50	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D0618 - Saturated Paste pH/EC										
Blank (B4D0618-BLK1)					Prepared: 04/06/2024 Analyzed: 04/08/2024					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B4D0618-DUP1)					Source: Y404132-01 Prepared: 04/06/2024 Analyzed: 04/08/2024					
Specific Conductance (EC)	9.31	0.00500	mmhos/cm		9.53			2.36	25	
pH	8.09		pH Units		8.11			0.247	25	

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Firestien 30-13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L746800 -										
DUP (L 89909-DUP)		Source: 89909			Prepared: Analyzed: 04/25/2024					
Chromium, Hexavalent	ND	0.5	mg/Kg		<0.500		-	0	20	
MS (L 89909-MS)		Source: 89909			Prepared: Analyzed: 04/25/2024					
Chromium, Hexavalent	19.3	2.5	mg/Kg	39.6	< 0.244	49	75-125			*
LCS (LCS)		Prepared: Analyzed: 04/25/2024								
Chromium, Hexavalent	6.8	0.5	mg/Kg	8		85	75-125			
LRB (LRB)		Prepared: Analyzed: 04/25/2024								
Chromium, Hexavalent	ND	0.5	mg/Kg				-			

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 - Firestien 30-13

Notes and Definitions

U Sample is Non-Detect.

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.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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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