



Facility Closure Investigation and Environmental Summary

Johnston 22-04 Wellhead

ECMC Remediation Project #33793

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

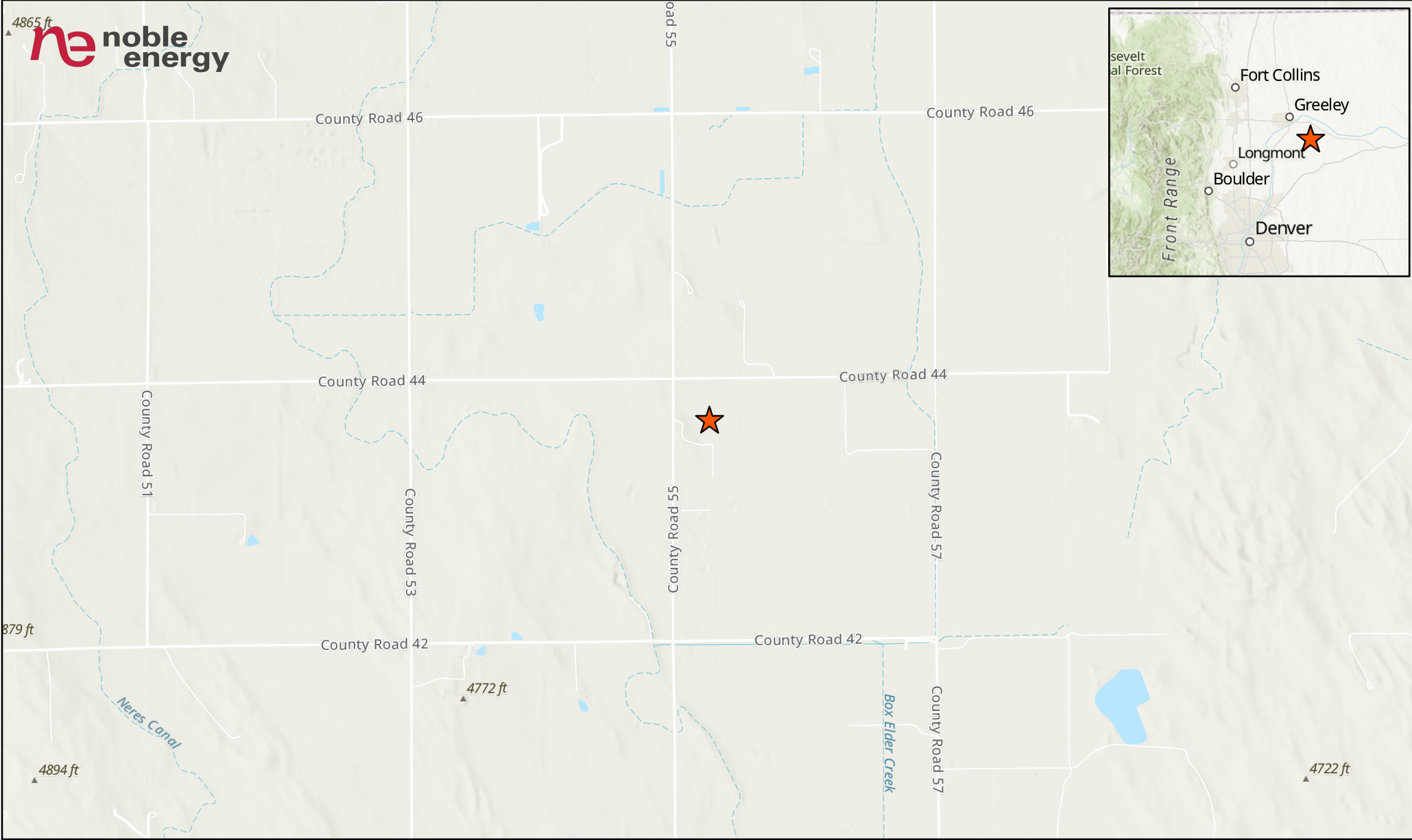
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

 Site Location

0 0.5 1 Miles

1 inch = 0.5 Mile



Project No:	024-117
Map By:	JW
Date:	06/10/2024

**JOHNSTON 22-04 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
NW 1/4 NW 1/4 SECTION 22
T4N R64W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure
1

FLR01@4	
4/16/2024	
pH:	8.43
Arsenic (mg/kg):	3.80
Barium (mg/kg):	134

WH01-N@4 (0.0)

WH01-E@4 (0.0)

WH01@6	
4/16/2024	
pH:	8.47
Arsenic (mg/kg):	4.03
Barium (mg/kg):	95.3
Lead (mg/kg):	39.3

WH01-S@4 (0.0)

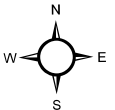
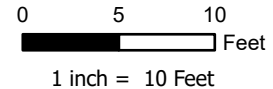
LABEL LEGEND	
XXXX@X: SAMPLE NAME @ DEPTH IN FEET	
WH: WELLHEAD SAMPLE	
FLR: FLOWLINE RISER SAMPLE	
RED: ABOVE ECMC TABLE 915-1 GWSSL	

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

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



Project No: 024-117
Map By: JW
Date: 06/10/2024

JOHNSTON 22-04 WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
 NOBLE ENERGY
 NW 1/4 NW 1/4 SECTION 22
 T4N R64W, 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
JOHNSTON 22-04 WELLHEAD, WELD COUNTY, COLORADO
REM # 33793

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	4/16/2024	6	40.302843	-104.543607	0.0
FLR01@4	4/16/2024	4	40.302852	-104.543647	0.0
WH01-N@4	4/16/2024	4	40.302881	-104.543612	0.0
WH01-S@4	4/16/2024	4	40.302827	-104.543588	0.0
WH01-E@4	4/16/2024	4	40.302857	-104.543565	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
JOHNSTON 22-04 WELLHEAD, WELD COUNTY, COLORADO
REM # 33793

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	4/16/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	4/16/2024	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
JOHNSTON 22-04 WELLHEAD, WELD COUNTY, COLORADO
REM # 33793

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
WHO1@6	4/16/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	
FLR01@4	4/16/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002	

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

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
JOHNSTON 22-04 WELLHEAD, WELD COUNTY, COLORADO
REM # 33793

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	4/16/2024	6	8.47	1.01	2.59	0.562
FLR01@4	4/16/2024	4	8.43	0.791	3.10	0.493

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
JOHNSTON 22-04 WELLHEAD, WELD COUNTY, COLORADO
REM # 33793

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	4/16/2024	6	4.03	95.3	0.188	<0.137*	13.0	39.3	9.71	<0.250	<0.0963	47.9
FLR01@4	4/16/2024	4	3.80	134	0.163	<0.151*	14.7	11.8	11.5	<0.243	<0.0934	54.9

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

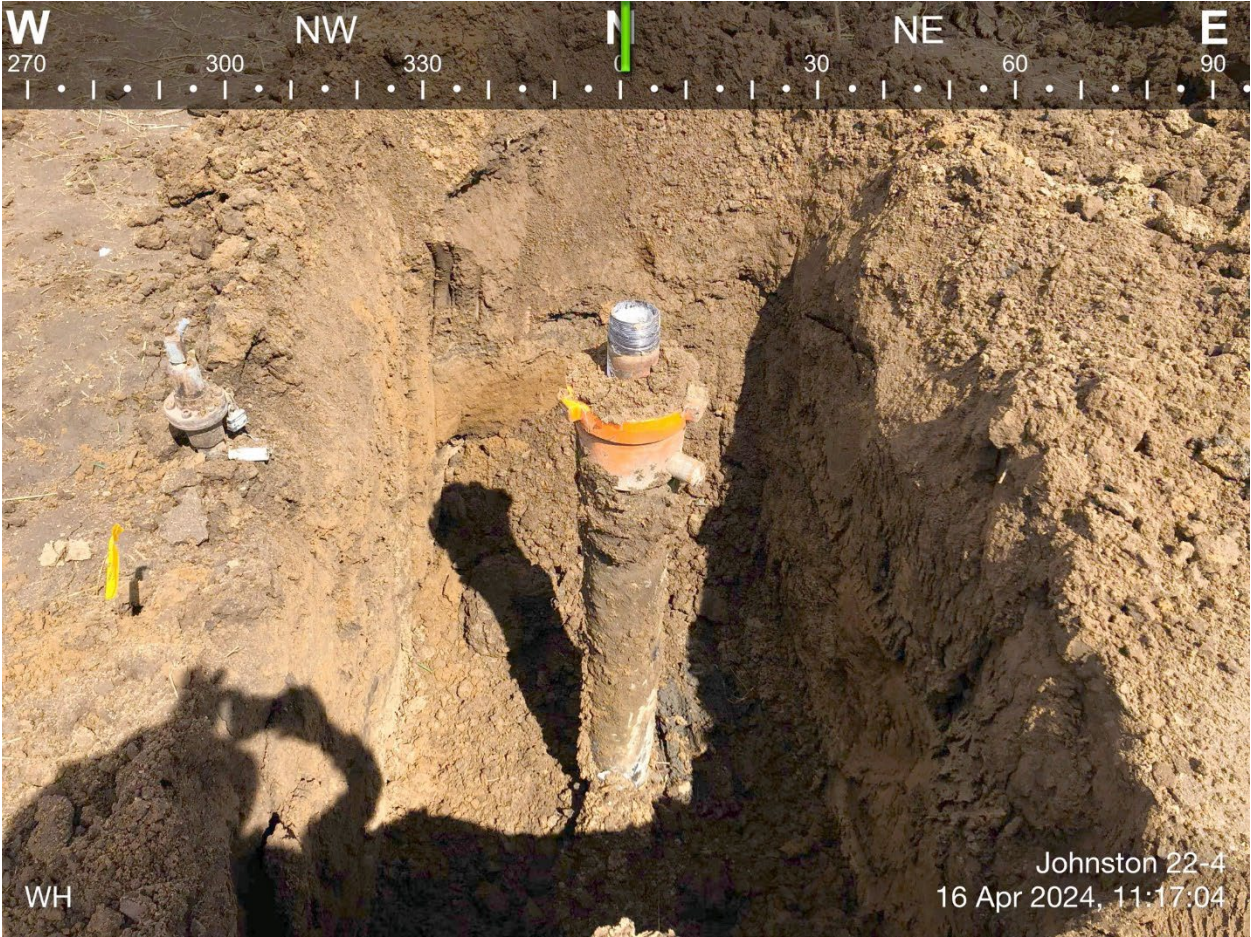
mg/kg - milligrams per kilogram

**ATTACHMENT A
PHOTOGRAPHIC LOG**

Johnston 22-04 Wellhead Photographic Log



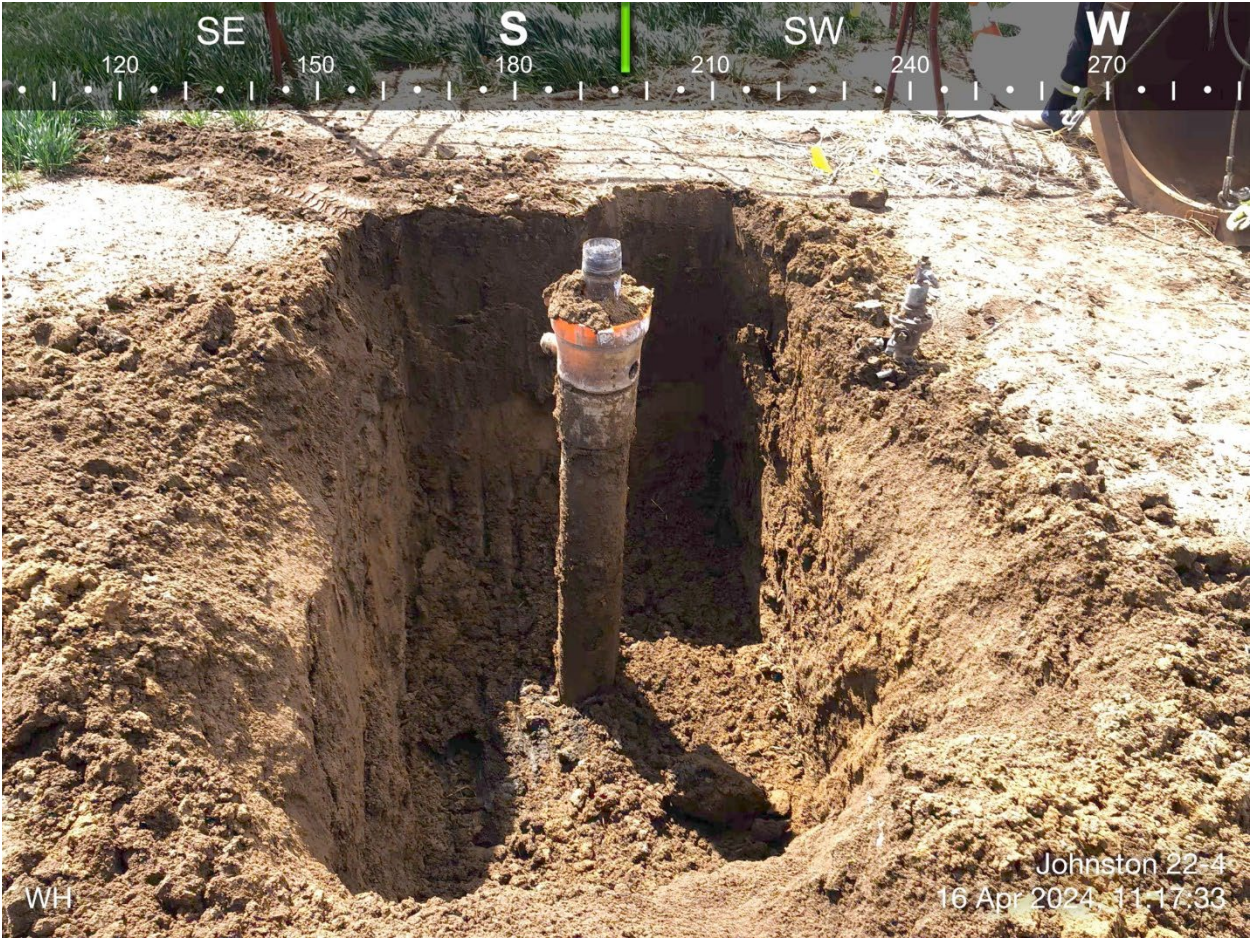
Johnston 22-04 Wellhead Photographic Log



Johnston 22-04 Wellhead Photographic Log



Johnston 22-04 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: JOHNSTON 22-4, 249432		Date: 4/16/2024						Remediation Project #: 33793	
Associated Wells: NA		Age of Site: 9/2/1993 - Completion Date						Number of Photos Attached: 4	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.302850 / -104.543590								Estimated Facility Size (acres): ~0.01	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good overall.									
USCS Soil Type: SC					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	05-123-17235								
Age	9/2/1993 - Completion Date								
Condition of surface around wellhead	Good								
PID Readings	0.0 ppm								
Condition of subsurface (staining present)	Good								
PID Readings	0.0 ppm								
Sample taken? Location/Sample ID#	WH01@6, FLR01@4								
Photo Number(s)	1-4								
Other observations regarding wellheads:									
Summary									
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards									
Total number of samples field screened: 5					Total number of samples collected: 5				
Highest PID Reading: 0.0 ppm					Total number of samples submitted to lab for analysis: 2				
If more than 10 cubic yards of impacted soil were observed:									
Vertical extent:					Estimated spill volume:				
Lateral extent:					Volume of soil removed:				
Is additional investigation required?									
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils									
Measured depth to groundwater:					Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:					Commencement date of removal:				
Sheen on groundwater? Yes No					Volume of groundwater removed prior to sampling:				
Free product observed? Yes No					Volume of groundwater removed post sampling:				
Total number of samples collected:					Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:									

ATTACHMENT C
LABORATORY ANALYTICAL REPORTS



April 25, 2024

Entrada Consulting Group

Chelsea Veryter

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Johnston 22-04

Project Number - [none]

Attached are your analytical results for Chevron - Johnston 22-04 received by Origins Laboratory, Inc. April 16, 2024. This project is associated with Origins project number Y404451-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Johnston 22-04

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y404451-01	Soil	April 16, 2024 11:00	04/16/2024 14:43
FLR01@4	Y404451-02	Soil	April 16, 2024 11:05	04/16/2024 14:43

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 - Johnston 22-04

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: Y2104451

Client: Entrada

Client Project ID: Chevron - Johnston 22-

Checklist Completed by: SA/CHD

Shipped Via: HO

Date/time completed: 4/16/24

(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 / 17.9 °C / °C / °C (Describe) °C

Thermometer ID: 5004

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>D</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"/>	
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 [Signature] (Project Manager) Date/Time Reviewed 4/17/24

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 - Johnston 22-04

WH01@6

4/16/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404451-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.562		0.0999	mg/L	1	B4D1812	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1801	04/18/2024	04/19/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	103 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1720	04/17/2024	04/19/2024	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	104 %		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 - Johnston 22-04

WH01@6

4/16/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404451-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	101 %		70-130			B4D17 20	04/17/2024	04/19/2024	
Surrogate: 4-Bromofluorobenzene	104 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.84	0.499	meq/L	10	[CALC]		04/17/2024	04/18/2024	
Magnesium	1.68	0.823	"	"	"	"	"	"	
Sodium	3.89	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4D1715		04/17/2024	04/22/2024	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 - Johnston 22-04

WH01@6

4/16/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404451-01 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1715	04/17/2024	04/22/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	101 %		60-130			"	"	"	
Surrogate: Pyrene-d10	96.2 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	112 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.47			pH Units	1	B4D1709	04/17/2024	04/18/2024	
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SAR by 20B Saturated Paste

SAR	2.59		0.0100	SAR	1	B4D1707	04/17/2024	04/18/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	1.01		0.00500	mmhos/cm	1	B4D1709	04/17/2024	04/18/2024	
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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 - Johnston 22-04

WH01@6

4/16/2024 11:00:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404451-01 (Soil)

Table 915 metals by EPA 6020B

Arsenic	4.03		0.279	mg/kg	10	B4D1639	04/16/2024	04/17/2024	
Barium	95.3		9.63	"	"	"	"	"	
Cadmium	0.188		0.0963	"	"	"	"	"	
Copper	13.0		9.63	"	"	"	"	"	
Lead	39.3		0.963	"	"	"	"	"	
Nickel	9.71		0.963	"	"	"	"	"	
Selenium	ND		0.250	"	"	"	"	"	
Silver	ND		0.0963	"	"	"	"	"	
Zinc	47.9		35.6	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.137	0.342	mg/kg dry	1	2600173	04/22/2024	04/22/2024	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 - Johnston 22-04

FLR01@4
 4/16/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404451-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.493		0.100	mg/L	1	B4D1812	04/18/2024	04/19/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4D1801	04/18/2024	04/19/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	97.3 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4D1720	04/17/2024	04/19/2024	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	106 %		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 - Johnston 22-04

FLR01@4
 4/16/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y404451-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	102 %		70-130			B4D17 20	04/17/2024	04/19/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.84		0.499	meq/L	10	[CALC]	04/17/2024	04/18/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.53		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4D1715	04/17/2024	04/19/2024	Ua
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	Ua
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

FLR01@4

4/16/2024 11:05:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y404451-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4D1715	04/17/2024	04/19/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	98.6 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	131 %		60-130			"	"	"	S-04
Surrogate: Benzo (a) pyrene-d12	100 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.43			pH Units	1	B4D1709	04/17/2024	04/18/2024	
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SAR by 20B Saturated Paste

SAR	3.10		0.0100	SAR	1	B4D1707	04/17/2024	04/18/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.791		0.00500	mmhos/cm	1	B4D1709	04/17/2024	04/18/2024	
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Table 915 metals by EPA 6020B

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Johnston 22-04

FLR01@4

4/16/2024 11:05:00AM

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

Y404451-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	3.80		0.271	mg/kg	10	B4D1639	04/16/2024	04/17/2024	
Barium	134		9.34	"	"	"	"	"	
Cadmium	0.163		0.0934	"	"	"	"	"	
Copper	14.7		9.34	"	"	"	"	"	
Lead	11.8		0.934	"	"	"	"	"	
Nickel	11.5		0.934	"	"	"	"	"	
Selenium	ND		0.243	"	"	"	"	"	
Silver	ND		0.0934	"	"	"	"	"	
Zinc	54.9		34.5	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.151	0.377	mg/kg dry	1	2600173	04/22/2024	04/22/2024	U
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 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1720 - EPA 5030 (soil)

Blank (B4D1720-BLK1)

Prepared: 04/17/2024 Analyzed: 04/19/2024

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	0.13		"	0.125	103		70-130			
Surrogate: Toluene-d8	0.13		"	0.125	101		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	104		70-130			

Origins Laboratory, Inc.



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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1720 - EPA 5030 (soil)

LCS (B4D1720-BS1)

Prepared: 04/17/2024 Analyzed: 04/19/2024

1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100		106	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100		107	70-130			
Benzene	0.102	0.00200	"	0.100		102	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.104	0.00380	"	0.100		104	70-130			
Toluene	0.0978	0.00200	"	0.100		97.8	70-130			
o-Xylene	0.105	0.00200	"	0.100		105	70-130			
m,p-Xylene	0.198	0.00400	"	0.200		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		103	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1720 - EPA 5030 (soil)

Matrix Spike (B4D1720-MS1)	Source: Y404412-21			Prepared: 04/17/2024 Analyzed: 04/19/2024						
1,2,4-Trimethylbenzene	0.0855	0.00200	mg/kg	0.100	ND	85.5	70-130			
1,3,5-Trimethylbenzene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Naphthalene	0.0722	0.00380	"	0.100	ND	72.2	70-130			
Toluene	0.0871	0.00200	"	0.100	ND	87.1	70-130			
o-Xylene	0.0833	0.00200	"	0.100	ND	83.3	70-130			
m,p-Xylene	0.170	0.00400	"	0.200	ND	85.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.9	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		104	70-130			

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 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1720 - EPA 5030 (soil)

Matrix Spike Dup (B4D1720-MSD1)	Source: Y404412-21			Prepared: 04/17/2024 Analyzed: 04/19/2024						
1,2,4-Trimethylbenzene	0.0843	0.00200	mg/kg	0.100	ND	84.3	70-130	1.48	20	
1,3,5-Trimethylbenzene	0.0846	0.00200	"	0.100	ND	84.6	70-130	2.91	20	
Benzene	0.104	0.00200	"	0.100	ND	104	70-130	2.92	20	
Ethylbenzene	0.0875	0.00200	"	0.100	ND	87.5	70-130	3.21	20	
Naphthalene	0.0743	0.00380	"	0.100	ND	74.3	70-130	2.90	20	
Toluene	0.0888	0.00200	"	0.100	ND	88.8	70-130	1.96	20	
o-Xylene	0.0813	0.00200	"	0.100	ND	81.3	70-130	2.45	20	
m,p-Xylene	0.164	0.00400	"	0.200	ND	82.1	70-130	3.72	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

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 330 Grand Ave. Unit C
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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4D1801 - EPA 3550B										
Blank (B4D1801-BLK1)										
					Prepared: 04/18/2024 Analyzed: 04/18/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	27		"	24.9		108	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Johnston 22-04

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 B4D1801 - EPA 3550B

LCS (B4D1801-BS1)

Prepared: 04/18/2024 Analyzed: 04/18/2024

Diesel (C10-C28)	1190	50.0	mg/kg	1000		119	70-130			
Residual Range Organics (C28-C40)	1210	200	"	1000		121	70-130			
Surrogate: o-Terphenyl	53		"	49.8		106	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryter

Project Number: [none]

Project: Chevron - Johnston 22-04

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 B4D1801 - EPA 3550B

Matrix Spike (B4D1801-MS1)	Source: Y404425-04			Prepared: 04/18/2024 Analyzed: 04/18/2024						
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130			
Residual Range Organics (C28-C40)	1160	200	"	1000	ND	116	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.2	50-150			

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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1801 - EPA 3550B										
Matrix Spike Dup (B4D1801-MSD1)					Source: Y404425-04					Prepared: 04/18/2024 Analyzed: 04/18/2024
Diesel (C10-C28)	1130	50.0	mg/kg	1000	ND	113	70-130	0.184	35	
Residual Range Organics (C28-C40)	1150	200	"	1000	ND	115	70-130	0.589	35	
Surrogate: o-Terphenyl	45		"	49.8		90.6	50-150			

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 Project Number: [none]
 Project: Chevron - Johnston 22-04

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4D1639 - EPA 3050B

Blank (B4D1639-BLK1)

Prepared: 04/16/2024 Analyzed: 04/17/2024

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 (B4D1639-BS1)

Prepared: 04/16/2024 Analyzed: 04/17/2024

Arsenic	5.54	0.290	mg/kg	5.00		111	80-120			
Barium	555	10.0	"	500		111	80-120			
Cadmium	5.69	0.100	"	5.00		114	80-120			
Copper	50.4	10.0	"	50.0		101	80-120			
Lead	5.52	1.00	"	5.00		110	80-120			
Nickel	5.98	1.00	"	5.00		120	80-120			
Selenium	11.4	0.260	"	9.50		120	80-120			
Silver	5.62	0.100	"	5.00		112	80-120			
Zinc	56.4	37.0	"	50.0		113	80-120			

Matrix Spike (B4D1639-MS1)

Source: Y404444-01

Prepared: 04/16/2024 Analyzed: 04/17/2024

Origins Laboratory, Inc.



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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1639 - EPA 3050B

Matrix Spike (B4D1639-MS1)		Source: Y404444-01			Prepared: 04/16/2024 Analyzed: 04/17/2024					
Arsenic	7.33	0.282	mg/kg	4.86	2.23	105	75-125			
Barium	674	9.72	"	486	140	110	75-125			
Cadmium	5.71	0.0972	"	4.86	0.167	114	75-125			
Copper	71.4	9.72	"	48.6	14.4	117	75-125			
Lead	12.1	0.972	"	4.86	7.28	99.9	75-125			
Nickel	17.9	0.972	"	4.86	12.4	114	75-125			
Selenium	11.4	0.253	"	9.24	0.241	120	75-125			
Silver	5.42	0.0972	"	4.86	0.0997	110	75-125			
Zinc	92.9	36.0	"	48.6	56.6	74.5	75-125			QM-07

Matrix Spike Dup (B4D1639-MSD1)		Source: Y404444-01			Prepared: 04/16/2024 Analyzed: 04/17/2024					
Arsenic	7.31	0.263	mg/kg	4.54	2.23	112	75-125	0.186	20	
Barium	669	9.08	"	454	140	116	75-125	0.821	20	
Cadmium	5.49	0.0908	"	4.54	0.167	117	75-125	3.78	20	
Copper	69.8	9.08	"	45.4	14.4	122	75-125	2.27	20	
Lead	12.6	0.908	"	4.54	7.28	116	75-125	3.38	20	
Nickel	18.6	0.908	"	4.54	12.4	136	75-125	3.52	20	QM-07
Selenium	10.8	0.236	"	8.63	0.241	122	75-125	5.15	20	
Silver	5.28	0.0908	"	4.54	0.0997	114	75-125	2.64	20	
Zinc	95.2	33.6	"	45.4	56.6	84.9	75-125	2.47	20	

Origins Laboratory, Inc.



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Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1715 - EPA 3580

Blank (B4D1715-BLK1)

Prepared: 04/17/2024 Analyzed: 04/19/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	200		"	200		98.2	60-130			
Surrogate: Pyrene-d10	190		"	200		96.1	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

LCS (B4D1715-BS1)

Prepared: 04/17/2024 Analyzed: 04/19/2024

1-Methylnaphthalene	0.188	0.002	mg/kg	0.200		94.2	70-130			
2-Methylnaphthalene	0.186	0.002	"	0.200		92.8	70-130			
Acenaphthene	0.176	0.020	"	0.200		87.8	70-130			
Anthracene	0.170	0.020	"	0.200		84.8	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 - Johnston 22-04

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 B4D1715 - EPA 3580

LCS (B4D1715-BS1)

Prepared: 04/17/2024 Analyzed: 04/19/2024

Benzo (a) anthracene	0.192	0.005	mg/kg	0.200		95.9	70-130			
Benzo (a) pyrene	0.186	0.020	"	0.200		93.1	70-130			
Benzo (b) fluoranthene	0.176	0.020	"	0.200		87.8	70-130			
Benzo (g,h,i) perylene	0.174	0.020	"	0.200		87.1	70-130			
Benzo (k) fluoranthene	0.164	0.020	"	0.200		82.1	70-130			
Chrysene	0.175	0.020	"	0.200		87.5	70-130			
Dibenz (a,h) anthracene	0.172	0.020	"	0.200		86.1	70-130			
Fluoranthene	0.169	0.020	"	0.200		84.6	70-130			
Fluorene	0.181	0.020	"	0.200		90.3	70-130			
Indeno (1,2,3-cd) pyrene	0.179	0.020	"	0.200		89.3	70-130			
Naphthalene	0.177	0.002	"	0.200		88.4	70-130			
Phenanthrene	0.173	0.020	"	0.200		86.4	70-130			
Pyrene	0.213	0.020	"	0.200		106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.0	60-130			
Surrogate: Anthracene-d10	200		"	200		97.6	60-130			
Surrogate: Pyrene-d10	230		"	200		114	60-130			
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike (B4D1715-MS1)

Source: Y404412-21

Prepared: 04/17/2024 Analyzed: 04/19/2024

1-Methylnaphthalene	0.196	0.002	mg/kg	0.200	ND	97.8	70-130			
2-Methylnaphthalene	0.194	0.002	"	0.200	ND	97.2	70-130			
Acenaphthene	0.184	0.020	"	0.200	ND	91.8	70-130			
Anthracene	0.180	0.020	"	0.200	ND	89.9	70-130			
Benzo (a) anthracene	0.201	0.005	"	0.200	ND	101	70-130			
Benzo (a) pyrene	0.204	0.020	"	0.200	ND	102	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200	0.004	93.9	70-130			
Benzo (g,h,i) perylene	0.179	0.020	"	0.200	0.003	87.8	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 - Johnston 22-04

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 B4D1715 - EPA 3580

Matrix Spike (B4D1715-MS1)		Source: Y404412-21			Prepared: 04/17/2024 Analyzed: 04/19/2024					
Benzo (k) fluoranthene	0.188	0.020	mg/kg	0.200	0.004	91.8	70-130			
Chrysene	0.183	0.020	"	0.200	0.002	90.5	70-130			
Dibenz (a,h) anthracene	0.175	0.020	"	0.200	ND	87.3	70-130			
Fluoranthene	0.172	0.020	"	0.200	0.003	84.4	70-130			
Fluorene	0.189	0.020	"	0.200	ND	94.3	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130			
Naphthalene	0.186	0.002	"	0.200	ND	92.8	70-130			
Phenanthrene	0.183	0.020	"	0.200	ND	91.3	70-130			
Pyrene	0.261	0.020	"	0.200	0.007	127	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130			
Surrogate: Anthracene-d10	190		"	200		97.1	60-130			
Surrogate: Pyrene-d10	260		"	200		131	60-130			S-04
Surrogate: Benzo (a) pyrene-d12	210		"	200		103	60-130			

Matrix Spike Dup (B4D1715-MSD1)		Source: Y404412-21			Prepared: 04/17/2024 Analyzed: 04/22/2024					
1-Methylnaphthalene	0.175	0.002	mg/kg	0.200	ND	87.4	70-130	11.3	20	
2-Methylnaphthalene	0.175	0.002	"	0.200	ND	87.4	70-130	10.6	20	
Acenaphthene	0.175	0.020	"	0.200	ND	87.3	70-130	4.96	20	
Anthracene	0.183	0.020	"	0.200	ND	91.6	70-130	1.87	20	
Benzo (a) anthracene	0.182	0.005	"	0.200	ND	90.8	70-130	10.4	20	
Benzo (a) pyrene	0.194	0.020	"	0.200	ND	96.8	70-130	5.02	20	
Benzo (b) fluoranthene	0.180	0.020	"	0.200	0.004	87.7	70-130	6.67	20	
Benzo (g,h,i) perylene	0.195	0.020	"	0.200	0.003	96.1	70-130	8.80	20	
Benzo (k) fluoranthene	0.194	0.020	"	0.200	0.004	95.2	70-130	3.57	20	
Chrysene	0.180	0.020	"	0.200	0.002	89.0	70-130	1.63	20	
Dibenz (a,h) anthracene	0.201	0.020	"	0.200	ND	101	70-130	14.1	20	
Fluoranthene	0.172	0.020	"	0.200	0.003	84.9	70-130	0.516	20	

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 B4D1715 - EPA 3580

Matrix Spike Dup (B4D1715-MSD1)	Source: Y404412-21			Prepared: 04/17/2024 Analyzed: 04/22/2024						
Fluorene	0.171	0.020	mg/kg	0.200	ND	85.7	70-130	9.55	20	
Indeno (1,2,3-cd) pyrene	0.185	0.020	"	0.200	ND	92.6	70-130	14.5	20	
Naphthalene	0.173	0.002	"	0.200	ND	86.7	70-130	6.73	20	
Phenanthrene	0.185	0.020	"	0.200	ND	92.4	70-130	1.17	20	
Pyrene	0.174	0.020	"	0.200	0.007	84.0	70-130	39.7	20	QR-02
Surrogate: Fluorene-d10	200		ug/kg	200		98.8	60-130			
Surrogate: Anthracene-d10	200		"	200		98.8	60-130			
Surrogate: Pyrene-d10	190		"	200		95.4	60-130			
Surrogate: Benzo (a) pyrene-d12	230		"	200		114	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 - Johnston 22-04

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 B4D1707 - Saturated Paste Metals

Blank (B4D1707-BLK1)

Prepared: 04/17/2024 Analyzed: 04/18/2024

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 (B4D1707-DUP1)

Source: Y404444-05

Prepared: 04/17/2024 Analyzed: 04/18/2024

SAR	ND	0.0100	SAR		0.701				200	
Calcium PPM	28.8	10.0	mg/L		22.4			25.3	50	
Magnesium PPM	5.30	10.0	"		4.16			24.1	50	
Sodium PPM	3.57	10.0	"		13.8			118	50	QR-DUP

Batch B4D1812 - DTPA Sorbitol Preparation

Blank (B4D1812-BLK1)

Prepared: 04/18/2024 Analyzed: 04/19/2024

Boron	ND	0.100	mg/L							
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Duplicate (B4D1812-DUP1)

Source: Y404448-01

Prepared: 04/18/2024 Analyzed: 04/19/2024

Boron	0.147	0.0991	mg/L		0.168			13.7	50	
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

Saturated Paste - 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 B4D1709 - Saturated Paste pH/EC

Blank (B4D1709-BLK1)

Prepared: 04/17/2024 Analyzed: 04/18/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4D1709-DUP1)

Source: Y404444-05

Prepared: 04/17/2024 Analyzed: 04/18/2024

Specific Conductance (EC)	0.249	0.00500	mmhos/cm	0.244	1.74	25
pH	8.33		pH Units	8.39	0.718	25

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

Chelsea Veryter
 Project Number: [none]
 Project: Chevron - Johnston 22-04

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 2600173 - SW846 3060A										
BLANK (1205709658-BLK)					Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	ND	0.387	mg/kg				-			U
LCS (1205709659-BKS)					Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	3.72	0.376	mg/kg	3.76		99	80-120			
DUP (1205709660 D)					Source: 663548001 Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	ND	0.265	mg/kg dry		<0.106		0-50	N/A	50	U
MS (1205709661 S)					Source: 663548001 Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	2.16	0.266	mg/kg dry	2.66	<0.106	80.2	75-125			
DUP (1205709662 D)					Source: 663946001 Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	ND	0.340	mg/kg dry		<0.136		0-50	N/A	50	U
MS (1205709663 S)					Source: 663946001 Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	1.51	0.340	mg/kg dry	3.40	<0.136	44.4	75-125			
ILCS (1205709664-ILCS)					Prepared: 04/22/2024 Analyzed: 04/22/2024					
Hexavalent Chromium	8.16	0.394	mg/kg	8.04		101	80-120			

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

Chelsea Veryter
Project Number: [none]
Project: Chevron - Johnston 22-04

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-DUP RPD exceeds QC acceptance criteria, this indicates source sample is not homogenous.

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

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

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

Origins Laboratory, Inc.



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