



Facility Closure Investigation and Environmental Summary

Stroh H12-22 Wellhead

ECMC Remediation Project #28402

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

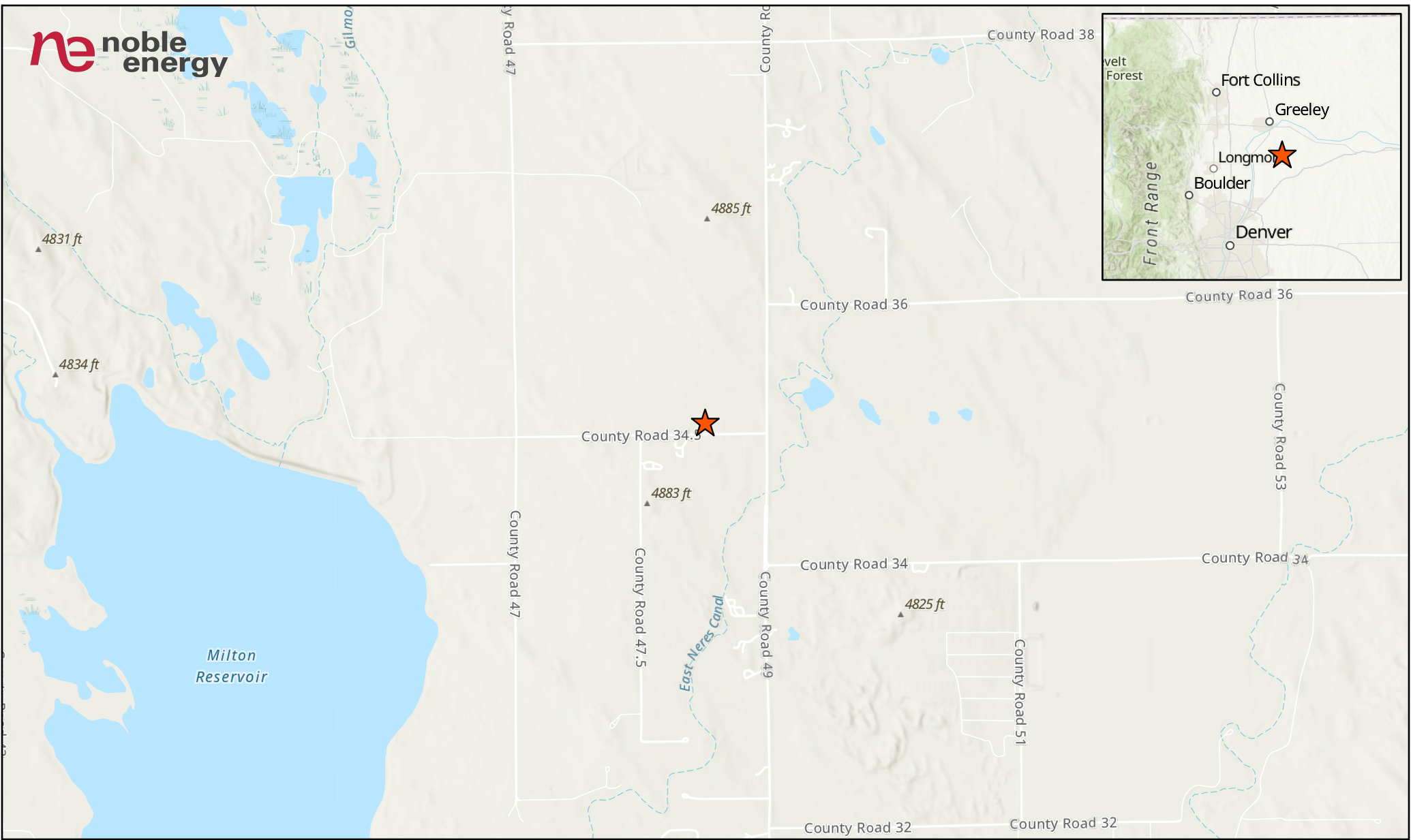
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

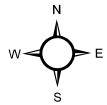
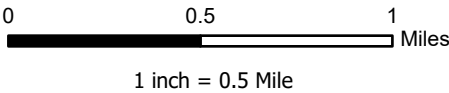
Attachment C: Laboratory Analytical Reports


FIGURES



LEGEND

 Site Location



Project No: 024-327	STROH H12-22 WELLHEAD GENERAL LOCATION MAP NOBLE ENERGY SE 1/4 NE 1/4 SECTION 12 T3N R65W, 6TH PM WELD COUNTY, COLORADO	 <div>1843 Sunlight Dr. Longmont, CO 80504 303.378.4036</div>	Figure
Map By: JW			1
Date: 09/04/2024			

TABLES

WH01@6	
7/1/2024	
Arsenic (mg/kg):	1.72
Lead (mg/kg):	14.9

● WH01-N@4 (0.0)
● WH01-W@4 (0.0) ● WH01-E@4 (0.0)

WH01-S@4	
7/1/2024	
Arsenic (mg/kg):	2.42
Barium (mg/kg):	88.4
Lead (mg/kg):	33.9

LABEL LEGEND

XXXX@X: SAMPLE NAME @ DEPTH IN FEET
 WH: WELLHEAD SAMPLE
RED: ABOVE ECMC TABLE 915-1 GWSSL

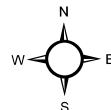
Legend

● Soil Sample ● Screening Location

NOTES:

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

0 5 10
 Feet
 1 inch = 10 Feet



Project No: 024-327

Map By: JW

Date: 09/04/2024

STROH H12-22 WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
 NOBLE ENERGY
 SE 1/4 NE 1/4 SECTION 12
 T3N R65W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Drive
 Longmont, CO 80504
 303.378.4036

Figure

2

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
STROH H12-22 WELLHEAD, WELD COUNTY, COLORADO
REM # 28402

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	7/1/2024	6	40.240486	-104.606970	0.0
WH01-S@4	7/1/2024	4	40.240476	-104.606970	0.0
WH01-N@4	7/1/2024	4	40.240497	-104.606971	0.0
WH01-W@4	7/1/2024	4	40.240487	-104.606988	0.0
WH01-E@4	7/1/2024	4	40.240486	-104.606957	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
STROH H12-22 WELLHEAD, WELD COUNTY, COLORADO
REM # 28402

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	7/1/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
WH01-S@4	7/1/2024	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
STROH H12-22 WELLHEAD, WELD COUNTY, COLORADO
REM # 28402

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	7/1/2024	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
WH01-S@4	7/1/2024	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
STROH H12-22 WELLHEAD, WELD COUNTY, COLORADO
REM # 28402

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	7/1/2024	6	8.22	0.297	2.14	<0.0991
WH01-S@4	7/1/2024	4	8.30	0.241	0.169	0.131

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

ft-bgs - feet below ground surface

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

mmhos/cm - millimhos per centimeter

mg/L - milligrams per liter

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
STROH H12-22 WELLHEAD, WELD COUNTY, COLORADO
REM # 28402

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	7/1/2024	6	1.72	73.4	0.116	<0.269*	<9.24	14.9	6.19	<0.240	<0.0924	<34.2
WH01-S@4	7/1/2024	4	2.42	88.4	0.114	<0.239*	<9.13	33.9	5.97	<0.237	<0.0913	<33.8

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

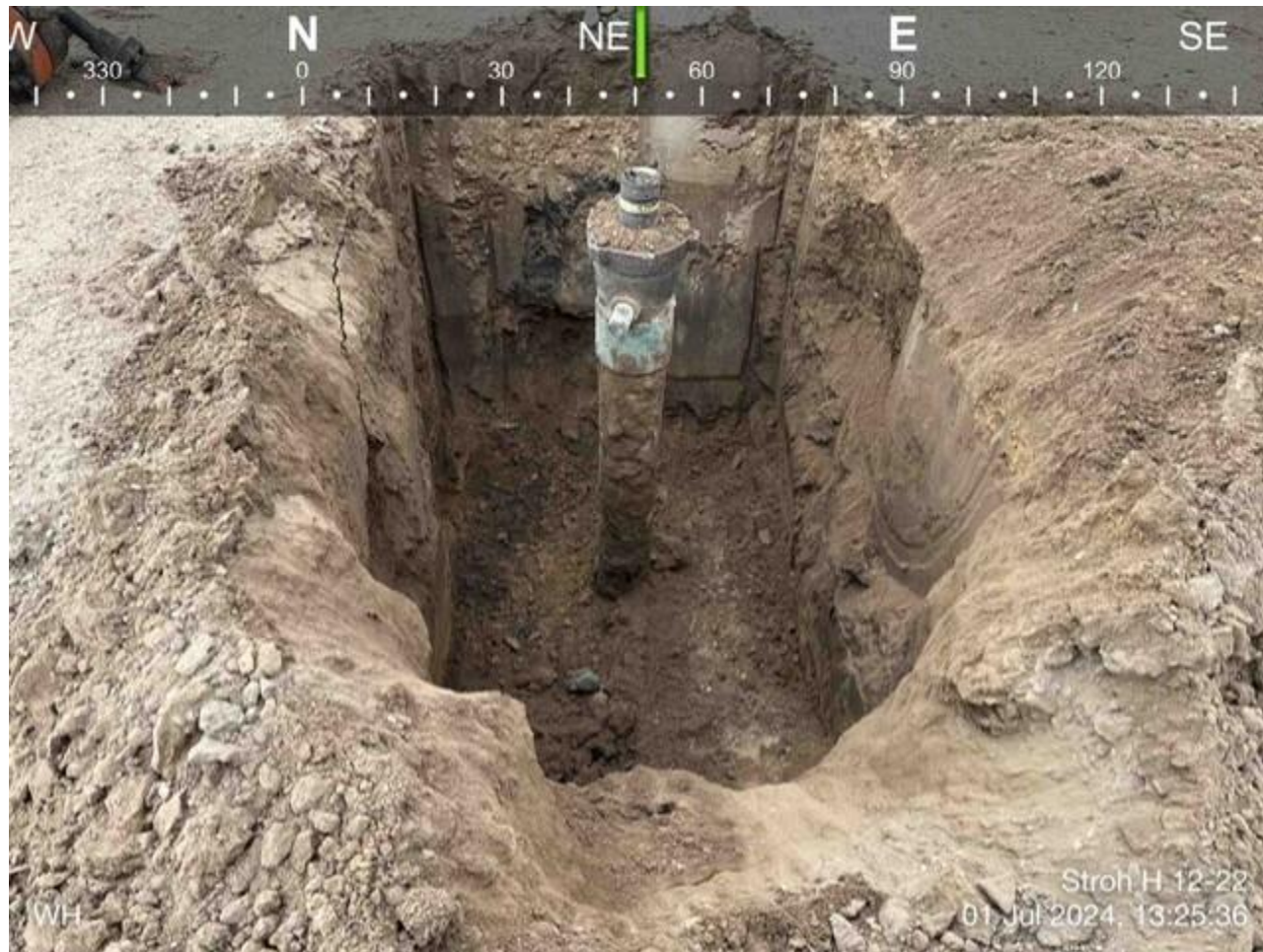
ATTACHMENT A
PHOTOGRAPHIC LOG

Stroh H12-22 Wellhead Photographic Log

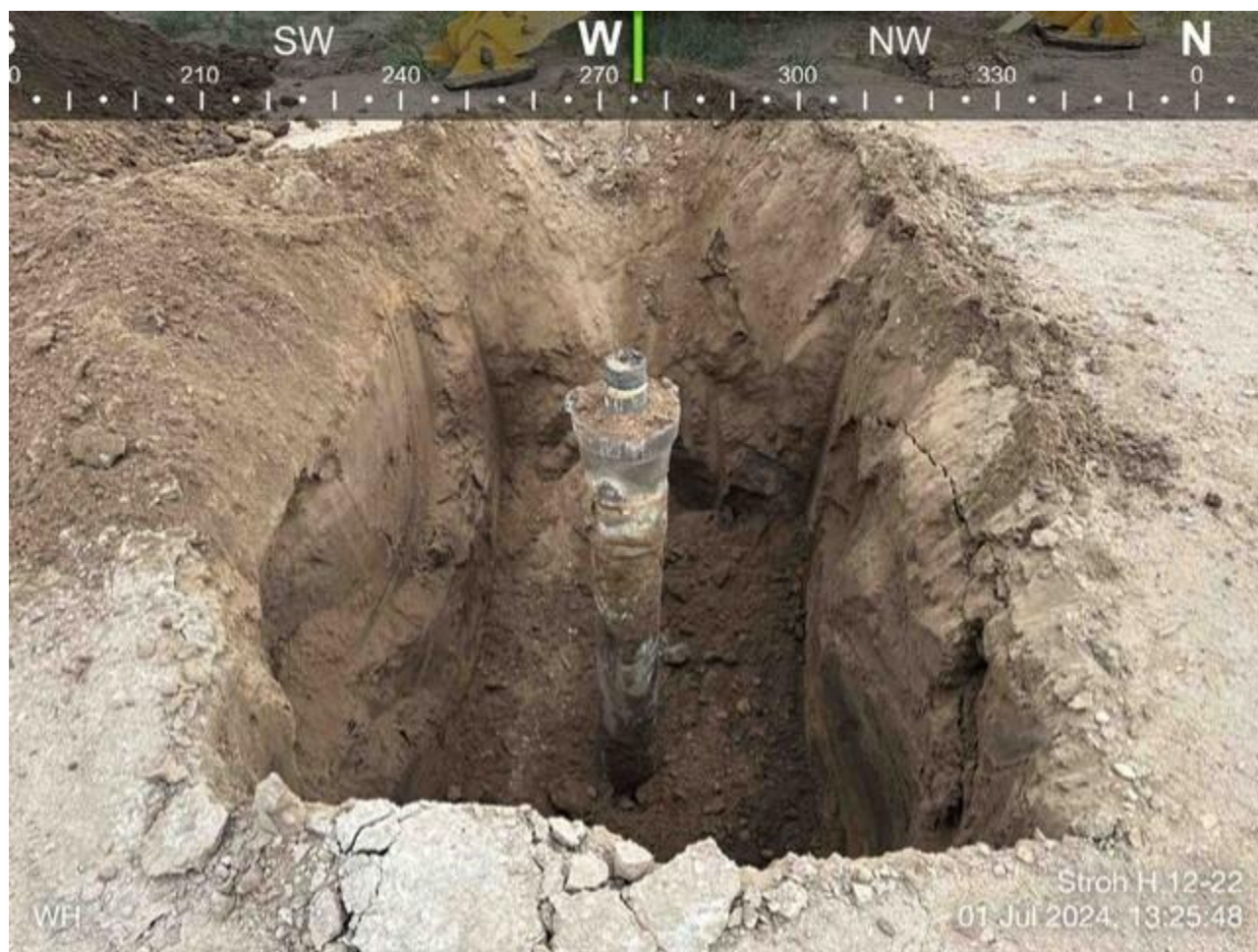


Entrada Consulting Group
July 2024

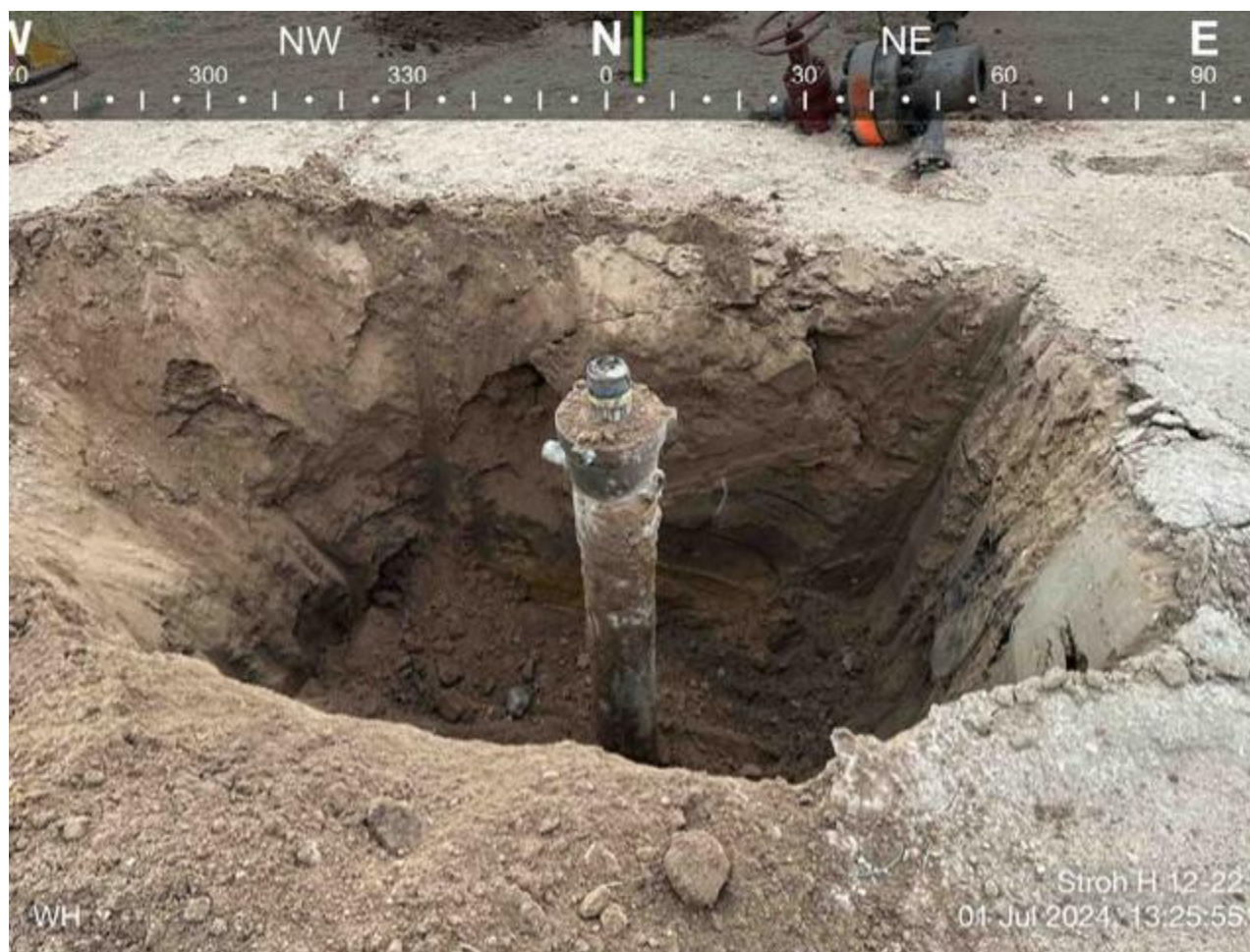
Stroh H12-22 Wellhead Photographic Log



Stroh H12-22 Wellhead Photographic Log



Stroh H12-22 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: Stroh H12-22, 412487		Date: 7/1/2024						Remediation Project #: 28402
Associated Wells: NA		Age of Site: 8/16/2009-spud date						Number of Photos Attached: 4
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.240479 / -104.606960								Estimated Facility Size (acres): ~0.01
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Overall good								
USCS Soil Type: Silty Sand (SM)					Estimated Depth to Groundwater: Unknown as none encountered			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None encountered or observed								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth)								
None encountered or observed								
Wellhead(s)								
Well API	05-123-30494							
Age	8/16/2009-spud date							
Condition of surface around wellhead	Good							
PID Readings	0.0 ppm							
Condition of subsurface (staining present)	Good							
PID Readings	0.0 ppm							
Sample taken? Location/Sample ID#	WH01@6, WH01-S@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



August 12, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Stroh H12-22

Project Number - [none]

Attached are your analytical results for Chevron - Stroh H12-22 received by Origins Laboratory, Inc. July 01, 2024. This project is associated with Origins project number Y407053-01.

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 Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y407053-01	Soil	July 1, 2024 14:00	07/01/2024 16:50
WH01-S@4	Y407053-05	Soil	July 1, 2024 14:20	07/01/2024 16:50

Origins Laboratory, Inc.



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

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

1725 Elk Place Denver, Co. 80221 | # 303.433.1322 | originslab.com

Temp Received: 11.5°C Received On Ice? ☒ Yes ☐ No

Relinquished By:	Date: 7/1/24	Time: 5:00	Received By:	Date: 07/01/24	Time: 15:05
Turnaround Time <input type="checkbox"/> SAME DAY <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr					

#	Sample ID	Date	Time	Sampled	# of Containers	Matrix	Preservative	Analysis										Comments
								1	2	3	4	5	6	7	8	9	10	
1	W40106	7/1/24	14:00		2	5	UNP	X										
2	W401. NQY		14:05															H ₂ O ₂
3	W401. E QY		14:10															H ₂ O ₂
4	W401. W QY		14:15															H ₂ O ₂
5	W401. S QY		14:20															
6																		
7																		
8																		
9																		
10																		

ORIGINS WORK ORDER # 4407053

LABORATORY INC

Client: Entrada

Project Manager: Chelsea Veryser

Key: W=Water

Address: _____

Project Name: Stroh H12-22

Project Number: _____

Telephone Number: 303-346-8703

Collected By: Ian Lohr

Invoice/Billing Info: Bill to (Admin) (Cash Smith) L-Liquid

Email Address: Entrada Distribution, c/o Origins Lab 2764 W 9th Ave

W=Surface Water

GW=Groundwater

WW=Waste Water

S=Soil | SO=Solid | G=Oil | A=Air | G=Gas | UNP=Unpres | HCL=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

Page 1 of 1

Origins Laboratory, Inc.

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 4407053

Client: Entrada

Client Project ID: Stroh H12-22

Checklist Completed by: WJL/EL

Shipped Via: 710

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 7/12/12

Airbill #: N/A

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

Cooler Number/Temperature: 1/11.0 °C °C °C (Describe) °C

Thermometer ID: 7005

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"/>	
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) AB

7/13/12
Date/Time Reviewed

Origins Laboratory, Inc.

J. Bynon

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

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

WH01@6

7/1/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-01 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	ND	0.0991	mg/L	1	B4G0309	ACC	07/03/2024	07/05/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G0302	ZZZ	07/03/2024	07/08/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	Ua

Surrogate: o-Terphenyl	106 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G0332	JSM	07/03/2024	07/07/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Benzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	Ua
Toluene	ND	0.00200	"	"	"	JSM	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	128 %	70-130			"	"	"	
Surrogate: Toluene-d8	97.6 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	95.8 %	70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

WH01@6

7/1/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-01 (Soil)

Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	0.709	0.499	meq/L	10	[CALC]	ACC	07/03/2024	07/08/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	1.48	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G0230	Nindows	07/02/2024	07/05/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	Nindows	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Anthracene	ND	0.020	"	"	"	Nindows	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Chrysene	ND	0.020	"	"	"	Nindows	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Fluorene	ND	0.020	"	"	"	Nindows	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	Ua
Naphthalene	ND	0.002	"	"	"	Nindows	"	"	Ua
Pyrene	ND	0.020	"	"	"	Nindows	"	"	Ua

Origins Laboratory, Inc.



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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

WH01@6

7/1/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-01 (Soil)

Origins Laboratory, Inc.

PAH by EPA 8270E

Surrogate: Fluorene-d10	104 %	60-130			B4G02 30		07/02/2024	07/05/2024	
Surrogate: Anthracene-d10	89.9 %	60-130			"		"	"	
Surrogate: Pyrene-d10	98.3 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	103 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.22		pH Units	1	B4G0321	GCG	07/03/2024	07/06/2024	
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SAR by 20B Saturated Paste

SAR	2.14	0.0100	SAR	1	B4G0316	ACC	07/03/2024	07/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.297	0.00500	mmhos/cm	1	B4G0321	GCG	07/03/2024	07/06/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.72	0.268	mg/kg	10	B4G0229	KMC	07/02/2024	07/06/2024	
Barium	73.4	9.24	"	"	"	KMC	"	"	
Cadmium	0.116	0.0924	"	"	"	KMC	"	"	
Copper	ND	9.24	"	"	"	KMC	"	"	
Lead	14.9	0.924	"	"	"	KMC	"	"	
Nickel	6.19	0.924	"	"	"	KMC	"	"	

Origins Laboratory, Inc.



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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

WH01@6

7/1/2024 2:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-01 (Soil)

Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Selenium	ND	0.240	mg/kg	10	B4G0229	KMC	07/02/2024	07/06/2024
Silver	ND	0.0924	"	"	"	KMC	"	"
Zinc	ND	34.2	"	"	"	KMC	"	"

GEL Laboratories, LLC

Total Metals by 7196A

U

Hexavalent Chromium	ND	0.269	mg/kg dry	1	2642981	HH2	07/18/2024	07/24/2024
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

WH01-S@4

7/1/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-05 (Soil) Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.131	0.0991	mg/L	1	B4G2605	ACC	07/26/2024	07/29/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4G2636	ZZZ	07/26/2024	07/29/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	Ua

Surrogate: o-Terphenyl	81.9 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4G2629	JSM	07/26/2024	07/28/2024	I-02, Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	JSM	"	"	I-02, Ua
Benzene	ND	0.00200	"	"	"	JSM	"	"	I-02, Ua
Ethylbenzene	ND	0.00200	"	"	"	JSM	"	"	I-02, Ua
Toluene	ND	0.00200	"	"	"	JSM	"	"	I-02, Ua
Xylenes, total	ND	0.00200	"	"	"	JSM	"	"	I-02, Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	JSM	"	"	I-02, Ua

Surrogate: 1,2-Dichloroethane-d4	104 %	70-130			"	"	"	I-02
Surrogate: Toluene-d8	98.3 %	70-130			"	"	"	I-02
Surrogate: 4-Bromofluorobenzene	97.4 %	70-130			"	"	"	I-02

Metals by Saturated Paste by EPA 6010

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

WH01-S@4

7/1/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-05 (Soil)

Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	0.715	0.499	meq/L	10	[CALC]	ACC	07/26/2024	07/30/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	ND	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

O-05

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4G2531	Nindows	07/25/2024	07/25/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	Nindows	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Anthracene	ND	0.020	"	"	"	Nindows	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	Nindows	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	Nindows	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Chrysene	ND	0.020	"	"	"	Nindows	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	Nindows	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	Nindows	"	"	Ua
Fluorene	ND	0.020	"	"	"	Nindows	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	Nindows	"	"	Ua

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

WH01-S@4

7/1/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-05 (Soil)
Origins Laboratory, Inc.

PAH by EPA 8270E

O-05

Naphthalene	ND	0.002	mg/kg	1	B4G2531	N/windows	07/25/2024	07/25/2024	Ua
Pyrene	ND	0.020	"	"	"	N/windows	"	"	Ua

Surrogate: Fluorene-d10	98.8 %	60-130			"	"	"
Surrogate: Anthracene-d10	101 %	60-130			"	"	"
Surrogate: Pyrene-d10	103 %	60-130			"	"	"
Surrogate: Benzo (a) pyrene-d12	101 %	60-130			"	"	"

pH in Soil by 9045D

pH	8.30	pH Units	1	B4G2618	EAL	07/26/2024	07/30/2024
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SAR by 20B Saturated Paste

SAR	0.169	0.0100	SAR	1	B4G2610	ACC	07/26/2024	07/30/2024
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.241	0.00500	mmhos/cm	1	B4G2618	EAL	07/26/2024	07/30/2024
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Table 915 metals by EPA 6020B

Arsenic	2.42	0.265	mg/kg	10	B4G2532	KMC	07/25/2024	07/26/2024
Barium	88.4	9.13	"	"	"	KMC	"	"

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

WH01-S@4

7/1/2024 2:20:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y407053-05 (Soil)

Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Cadmium	0.114	0.0913	mg/kg	10	B4G2532	KMC	07/25/2024	07/26/2024	
Copper	ND	9.13	"	"	"	KMC	"	"	
Lead	33.9	0.913	"	"	"	KMC	"	"	
Nickel	5.97	0.913	"	"	"	KMC	"	"	
Selenium	ND	0.237	"	"	"	KMC	"	"	
Silver	ND	0.0913	"	"	"	KMC	"	"	
Zinc	ND	33.8	"	"	"	KMC	"	"	

GEL Laboratories, LLC

Total Metals 7196A

Hexavalent Chromium	ND	0.239	mg/kg dry	1	2651138	HH2	08/05/2024	08/07/2024	hU
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0302 - EPA 3550B										
Blank (B4G0302-BLK1)					Prepared: 07/03/2024 Analyzed: 07/08/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	24		"	24.9		96.5	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0302 - EPA 3550B

LCS (B4G0302-BS1)

Prepared: 07/03/2024 Analyzed: 07/08/2024

Diesel (C10-C28)	894	50.0	mg/kg	1000		89.4	70-130			
Residual Range Organics (C28-C40)	973	200	"	1000		97.3	70-130			
Surrogate: o-Terphenyl	48		"	49.8		97.0	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0302 - EPA 3550B

Matrix Spike (B4G0302-MS1)		Source: Y407051-01			Prepared: 07/03/2024 Analyzed: 07/08/2024					
Diesel (C10-C28)	954	50.0	mg/kg	1000	ND	95.4	70-130			
Residual Range Organics (C28-C40)	1020	200	"	1000	ND	102	70-130			
Surrogate: o-Terphenyl	49		"	49.8		97.8	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0302 - EPA 3550B

Matrix Spike Dup (B4G0302-MSD1)		Source: Y407051-01			Prepared: 07/03/2024 Analyzed: 07/08/2024					
Diesel (C10-C28)	943	50.0	mg/kg	1000	ND	94.3	70-130	1.23	35	
Residual Range Organics (C28-C40)	1040	200	"	1000	ND	104	70-130	2.48	35	
Surrogate: o-Terphenyl	50		"	49.8		99.9	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0332 - EPA 5030 (soil)										
Blank (B4G0332-BLK1)					Prepared: 07/03/2024 Analyzed: 07/05/2024					
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		96.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		104	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		93.6	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0332 - EPA 5030 (soil)

LCS (B4G0332-BS1)

Prepared: 07/03/2024 Analyzed: 07/05/2024

1,2,4-Trimethylbenzene	0.0922	0.00200	mg/kg	0.100		92.2	70-130			
1,3,5-Trimethylbenzene	0.0919	0.00200	"	0.100		91.9	70-130			
Benzene	0.0971	0.00200	"	0.100		97.1	70-130			
Ethylbenzene	0.0885	0.00200	"	0.100		88.5	70-130			
Naphthalene	0.108	0.00380	"	0.100		108	70-130			
Toluene	0.0890	0.00200	"	0.100		89.0	70-130			
o-Xylene	0.0880	0.00200	"	0.100		88.0	70-130			
m,p-Xylene	0.177	0.00400	"	0.200		88.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		94.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		109	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0332 - EPA 5030 (soil)

Matrix Spike (B4G0332-MS1)		Source: Y406868-01			Prepared: 07/03/2024 Analyzed: 07/05/2024					
1,2,4-Trimethylbenzene	0.0916	0.00200	mg/kg	0.100	ND	91.6	70-130			
1,3,5-Trimethylbenzene	0.0904	0.00200	"	0.100	ND	90.4	70-130			
Benzene	0.0973	0.00200	"	0.100	ND	97.3	70-130			
Ethylbenzene	0.0891	0.00200	"	0.100	ND	89.1	70-130			
Naphthalene	0.107	0.00380	"	0.100	ND	107	70-130			
Toluene	0.0888	0.00200	"	0.100	ND	88.8	70-130			
o-Xylene	0.0874	0.00200	"	0.100	ND	87.4	70-130			
m,p-Xylene	0.179	0.00400	"	0.200	ND	89.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.0	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		108	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0332 - EPA 5030 (soil)

Matrix Spike Dup (B4G0332-MSD1)		Source: Y406868-01			Prepared: 07/03/2024 Analyzed: 07/05/2024					
1,2,4-Trimethylbenzene	0.0881	0.00200	mg/kg	0.100	ND	88.1	70-130	3.98	20	
1,3,5-Trimethylbenzene	0.0870	0.00200	"	0.100	ND	87.0	70-130	3.88	20	
Benzene	0.0971	0.00200	"	0.100	ND	97.1	70-130	0.267	20	
Ethylbenzene	0.0862	0.00200	"	0.100	ND	86.2	70-130	3.33	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	5.79	20	
Toluene	0.0883	0.00200	"	0.100	ND	88.3	70-130	0.587	20	
o-Xylene	0.0857	0.00200	"	0.100	ND	85.7	70-130	1.94	20	
m,p-Xylene	0.172	0.00400	"	0.200	ND	85.9	70-130	3.90	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.5	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2629 - EPA 5030 (soil)

Blank (B4G2629-BLK1)

Prepared: 07/26/2024 Analyzed: 07/28/2024

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	102		70-130			
Surrogate: 4-Bromofluorobenzene	0.11		"	0.125	91.6		70-130			

Origins Laboratory, Inc.



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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2629 - EPA 5030 (soil)

LCS (B4G2629-BS1)

Prepared: 07/26/2024 Analyzed: 07/28/2024

1,2,4-Trimethylbenzene	0.107	0.00200	mg/kg	0.100		107	70-130			
1,3,5-Trimethylbenzene	0.108	0.00200	"	0.100		108	70-130			
Benzene	0.101	0.00200	"	0.100		101	70-130			
Ethylbenzene	0.105	0.00200	"	0.100		105	70-130			
Naphthalene	0.109	0.00380	"	0.100		109	70-130			
Toluene	0.104	0.00200	"	0.100		104	70-130			
o-Xylene	0.102	0.00200	"	0.100		102	70-130			
m,p-Xylene	0.212	0.00400	"	0.200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.8	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.8	70-130			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2629 - EPA 5030 (soil)

Matrix Spike (B4G2629-MS1)		Source: Y407053-05			Prepared: 07/26/2024 Analyzed: 07/28/2024					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.112	0.00200	"	0.100	ND	112	70-130			
Benzene	0.101	0.00200	"	0.100	ND	101	70-130			
Ethylbenzene	0.111	0.00200	"	0.100	ND	111	70-130			
Naphthalene	0.0856	0.00380	"	0.100	ND	85.6	70-130			
Toluene	0.103	0.00200	"	0.100	ND	103	70-130			
o-Xylene	0.103	0.00200	"	0.100	ND	103	70-130			
m,p-Xylene	0.223	0.00400	"	0.200	ND	112	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125		87.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		103	70-130			

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2629 - EPA 5030 (soil)										
Matrix Spike Dup (B4G2629-MSD1)					Source: Y407053-05					Prepared: 07/26/2024 Analyzed: 07/28/2024
1,2,4-Trimethylbenzene	0.101	0.00200	mg/kg	0.100	ND	101	70-130	7.31	20	
1,3,5-Trimethylbenzene	0.101	0.00200	"	0.100	ND	101	70-130	10.2	20	
Benzene	0.102	0.00200	"	0.100	ND	102	70-130	0.374	20	
Ethylbenzene	0.0997	0.00200	"	0.100	ND	99.7	70-130	10.3	20	
Naphthalene	0.0950	0.00380	"	0.100	ND	95.0	70-130	10.4	20	
Toluene	0.0989	0.00200	"	0.100	ND	98.9	70-130	4.23	20	
o-Xylene	0.0947	0.00200	"	0.100	ND	94.7	70-130	8.50	20	
m,p-Xylene	0.202	0.00400	"	0.200	ND	101	70-130	10.0	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		96.6	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 Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2636 - EPA 3550B

Blank (B4G2636-BLK1)

Prepared: 07/26/2024 Analyzed: 07/29/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	22		"	24.9		86.8	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2636 - EPA 3550B

LCS (B4G2636-BS1)

Prepared: 07/26/2024 Analyzed: 07/29/2024

Diesel (C10-C28)	1150	50.0	mg/kg	1000		115	70-130			
Residual Range Organics (C28-C40)	1120	200	"	1000		112	70-130			
Surrogate: o-Terphenyl	55		"	49.8		111	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2636 - EPA 3550B

Matrix Spike (B4G2636-MS1)		Source: Y407677-01			Prepared: 07/26/2024 Analyzed: 07/29/2024					
Diesel (C10-C28)	1110	50.0	mg/kg	1000	ND	111	70-130			
Residual Range Organics (C28-C40)	1130	200	"	1000	ND	113	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.2	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2636 - EPA 3550B

Matrix Spike Dup (B4G2636-MSD1)		Source: Y407677-01			Prepared: 07/26/2024 Analyzed: 07/29/2024					
Diesel (C10-C28)	1070	50.0	mg/kg	1000	ND	107	70-130	3.72	35	
Residual Range Organics (C28-C40)	1070	200	"	1000	ND	107	70-130	4.90	35	
Surrogate: o-Terphenyl	43		"	49.8		87.1	50-150			

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0229 - EPA 3050B

Blank (B4G0229-BLK1)

Prepared: 07/02/2024 Analyzed: 07/06/2024

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 (B4G0229-BS1)

Prepared: 07/02/2024 Analyzed: 07/06/2024

Arsenic	5.32	0.290	mg/kg	5.00	106	80-120
Barium	536	10.0	"	500	107	80-120
Cadmium	5.31	0.100	"	5.00	106	80-120
Copper	55.2	10.0	"	50.0	110	80-120
Lead	5.24	1.00	"	5.00	105	80-120
Nickel	5.59	1.00	"	5.00	112	80-120
Selenium	5.22	0.260	"	5.00	104	80-120
Silver	5.12	0.100	"	5.00	102	80-120
Zinc	53.7	37.0	"	50.0	107	80-120

Matrix Spike (B4G0229-MS1)

Source: Y407053-01

Prepared: 07/02/2024 Analyzed: 07/06/2024

Origins Laboratory, Inc.



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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 B4G0229 - EPA 3050B

Matrix Spike (B4G0229-MS1)		Source: Y407053-01			Prepared: 07/02/2024 Analyzed: 07/06/2024					
Arsenic	6.99	0.289	mg/kg	4.98	1.72	106	75-125			
Barium	660	9.97	"	498	73.4	118	75-125			
Cadmium	5.79	0.0997	"	4.98	0.116	114	75-125			
Copper	62.5	9.97	"	49.8	6.12	113	75-125			
Lead	23.8	0.997	"	4.98	14.9	180	75-125			QM-07
Nickel	11.8	0.997	"	4.98	6.19	112	75-125			
Selenium	5.14	0.259	"	4.98	0.0712	102	75-125			
Silver	5.53	0.0997	"	4.98	0.0240	110	75-125			
Zinc	85.8	36.9	"	49.8	30.4	111	75-125			

Matrix Spike Dup (B4G0229-MSD1)		Source: Y407053-01			Prepared: 07/02/2024 Analyzed: 07/06/2024					
Arsenic	6.04	0.279	mg/kg	4.82	1.72	89.6	75-125	14.6	20	
Barium	694	9.64	"	482	73.4	129	75-125	4.92	20	QM-07
Cadmium	5.15	0.0964	"	4.82	0.116	104	75-125	11.8	20	
Copper	52.7	9.64	"	48.2	6.12	96.7	75-125	17.0	20	
Lead	130	0.964	"	4.82	14.9	NR	75-125	138	20	QM-07
Nickel	10.4	0.964	"	4.82	6.19	87.9	75-125	12.2	20	
Selenium	4.48	0.251	"	4.82	0.0712	91.4	75-125	13.8	20	
Silver	4.95	0.0964	"	4.82	0.0240	102	75-125	11.0	20	
Zinc	75.6	35.7	"	48.2	30.4	93.6	75-125	12.7	20	

Batch B4G2532 - EPA 3050B

Blank (B4G2532-BLK1)		Prepared: 07/25/2024 Analyzed: 07/26/2024								
Arsenic	ND	0.290	mg/kg							
Barium	ND	10.0	"							
Cadmium	ND	0.100	"							

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2532 - EPA 3050B

Blank (B4G2532-BLK1)

Prepared: 07/25/2024 Analyzed: 07/26/2024

Copper	ND	10.0	mg/kg
Lead	ND	1.00	"
Nickel	ND	1.00	"
Selenium	ND	0.260	"
Silver	ND	0.100	"
Zinc	ND	37.0	"

LCS (B4G2532-BS1)

Prepared: 07/25/2024 Analyzed: 07/26/2024

Arsenic	4.93	0.290	mg/kg	5.00	98.6	80-120
Barium	502	10.0	"	500	100	80-120
Cadmium	4.90	0.100	"	5.00	98.0	80-120
Copper	52.4	10.0	"	50.0	105	80-120
Lead	4.85	1.00	"	5.00	97.1	80-120
Nickel	5.41	1.00	"	5.00	108	80-120
Selenium	4.47	0.260	"	5.00	89.5	80-120
Silver	5.19	0.100	"	5.00	104	80-120
Zinc	49.7	37.0	"	50.0	99.4	80-120

Matrix Spike (B4G2532-MS1)

Source: Y407645-08

Prepared: 07/25/2024 Analyzed: 07/26/2024

Arsenic	8.89	0.283	mg/kg	4.89	3.69	107	75-125
Barium	654	9.77	"	489	140	105	75-125
Cadmium	5.57	0.0977	"	4.89	0.0851	112	75-125
Copper	74.1	9.77	"	48.9	15.8	119	75-125
Lead	12.7	0.977	"	4.89	8.08	94.9	75-125
Nickel	14.8	0.977	"	4.89	9.51	109	75-125
Selenium	5.04	0.254	"	4.89	0.105	101	75-125
Silver	5.81	0.0977	"	4.89	0.0464	118	75-125

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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
Batch B4G2532 - EPA 3050B										
Matrix Spike (B4G2532-MS1)		Source: Y407645-08			Prepared: 07/25/2024 Analyzed: 07/26/2024					
Zinc	107	36.2	mg/kg	48.9	55.9	105	75-125			
Matrix Spike Dup (B4G2532-MSD1)		Source: Y407645-08			Prepared: 07/25/2024 Analyzed: 07/26/2024					
Arsenic	8.85	0.289	mg/kg	4.98	3.69	104	75-125	0.458	20	
Barium	678	9.95	"	498	140	108	75-125	3.57	20	
Cadmium	5.46	0.0995	"	4.98	0.0851	108	75-125	1.88	20	
Copper	73.6	9.95	"	49.8	15.8	116	75-125	0.637	20	
Lead	13.5	0.995	"	4.98	8.08	109	75-125	6.17	20	
Nickel	15.6	0.995	"	4.98	9.51	123	75-125	5.17	20	
Selenium	4.91	0.259	"	4.98	0.105	96.6	75-125	2.49	20	
Silver	5.74	0.0995	"	4.98	0.0464	114	75-125	1.17	20	
Zinc	113	36.8	"	49.8	55.9	115	75-125	5.44	20	

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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0230 - EPA 3580

Blank (B4G0230-BLK1)

Prepared: 07/02/2024 Analyzed: 07/05/2024

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	210		ug/kg	200		105	60-130
Surrogate: Anthracene-d10	180		"	200		90.1	60-130
Surrogate: Pyrene-d10	190		"	200		96.1	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

LCS (B4G0230-BS1)

Prepared: 07/02/2024 Analyzed: 07/05/2024

1-Methylnaphthalene	0.193	0.002	mg/kg	0.200		96.3	70-130
2-Methylnaphthalene	0.192	0.002	"	0.200		96.1	70-130
Acenaphthene	0.202	0.020	"	0.200		101	70-130
Anthracene	0.179	0.020	"	0.200		89.3	70-130

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G0230 - EPA 3580

LCS (B4G0230-BS1)

Prepared: 07/02/2024 Analyzed: 07/05/2024

Benzo (a) anthracene	0.188	0.005	mg/kg	0.200		94.1	70-130			
Benzo (a) pyrene	0.198	0.020	"	0.200		99.0	70-130			
Benzo (b) fluoranthene	0.192	0.020	"	0.200		96.2	70-130			
Benzo (g,h,i) perylene	0.196	0.020	"	0.200		98.1	70-130			
Benzo (k) fluoranthene	0.192	0.020	"	0.200		96.2	70-130			
Chrysene	0.193	0.020	"	0.200		96.3	70-130			
Dibenz (a,h) anthracene	0.200	0.020	"	0.200		99.9	70-130			
Fluoranthene	0.184	0.020	"	0.200		91.8	70-130			
Fluorene	0.210	0.020	"	0.200		105	70-130			
Indeno (1,2,3-cd) pyrene	0.194	0.020	"	0.200		97.1	70-130			
Naphthalene	0.206	0.002	"	0.200		103	70-130			
Phenanthrene	0.181	0.020	"	0.200		90.6	70-130			
Pyrene	0.186	0.020	"	0.200		93.0	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		104	60-130			
Surrogate: Anthracene-d10	180		"	200		90.2	60-130			
Surrogate: Pyrene-d10	200		"	200		98.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike (B4G0230-MS1)

Source: Y407011-01

Prepared: 07/02/2024 Analyzed: 07/05/2024

1-Methylnaphthalene	0.433	0.002	mg/kg	0.200	0.367	33.1	70-130			QM-07
2-Methylnaphthalene	0.816	0.002	"	0.200	0.968	NR	70-130			QM-07
Acenaphthene	0.250	0.020	"	0.200	ND	125	70-130			
Anthracene	0.212	0.020	"	0.200	0.003	105	70-130			
Benzo (a) anthracene	0.194	0.005	"	0.200	0.001	96.7	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	0.001	96.9	70-130			
Benzo (b) fluoranthene	0.199	0.020	"	0.200	0.002	98.5	70-130			
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.001	101	70-130			

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330 Grand Ave. Unit C
Grand Junction CO 81501

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 B4G0230 - EPA 3580

Matrix Spike (B4G0230-MS1)		Source: Y407011-01			Prepared: 07/02/2024 Analyzed: 07/05/2024					
Benzo (k) fluoranthene	0.205	0.020	mg/kg	0.200	ND	102	70-130			
Chrysene	0.201	0.020	"	0.200	0.005	98.1	70-130			
Dibenz (a,h) anthracene	0.205	0.020	"	0.200	ND	103	70-130			
Fluoranthene	0.194	0.020	"	0.200	0.0006	96.5	70-130			
Fluorene	0.255	0.020	"	0.200	0.053	101	70-130			
Indeno (1,2,3-cd) pyrene	0.203	0.020	"	0.200	ND	101	70-130			
Naphthalene	0.374	0.002	"	0.200	0.295	39.3	70-130			QM-07
Phenanthrene	0.227	0.020	"	0.200	0.054	86.6	70-130			
Pyrene	0.184	0.020	"	0.200	0.004	89.9	70-130			
Surrogate: Fluorene-d10	210		ug/kg	200		106	60-130			
Surrogate: Anthracene-d10	180		"	200		91.0	60-130			
Surrogate: Pyrene-d10	190		"	200		93.1	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

Matrix Spike Dup (B4G0230-MSD1)		Source: Y407011-01			Prepared: 07/02/2024 Analyzed: 07/05/2024					
1-Methylnaphthalene	0.509	0.002	mg/kg	0.200	0.367	71.2	70-130	16.2	20	
2-Methylnaphthalene	1.02	0.002	"	0.200	0.968	23.9	70-130	21.9	20	QM-07, QR-DUP
Acenaphthene	0.262	0.020	"	0.200	ND	131	70-130	4.69	20	QM-07
Anthracene	0.208	0.020	"	0.200	0.003	102	70-130	2.04	20	
Benzo (a) anthracene	0.195	0.005	"	0.200	0.001	97.1	70-130	0.422	20	
Benzo (a) pyrene	0.200	0.020	"	0.200	0.001	99.5	70-130	2.61	20	
Benzo (b) fluoranthene	0.209	0.020	"	0.200	0.002	103	70-130	4.51	20	
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.001	101	70-130	0.0407	20	
Benzo (k) fluoranthene	0.213	0.020	"	0.200	ND	106	70-130	3.73	20	
Chrysene	0.211	0.020	"	0.200	0.005	103	70-130	4.66	20	
Dibenz (a,h) anthracene	0.207	0.020	"	0.200	ND	104	70-130	0.937	20	
Fluoranthene	0.199	0.020	"	0.200	0.0006	99.2	70-130	2.70	20	

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 B4G0230 - EPA 3580

Matrix Spike Dup (B4G0230-MSD1)		Source: Y407011-01			Prepared: 07/02/2024 Analyzed: 07/05/2024					
Fluorene	0.269	0.020	"	0.200	0.053	108	70-130	5.58	20	
Indeno (1,2,3-cd) pyrene	0.202	0.020	"	0.200	ND	101	70-130	0.530	20	
Naphthalene	0.477	0.002	"	0.200	0.295	90.8	70-130	24.2	20	QR-DUP
Phenanthrene	0.245	0.020	"	0.200	0.054	95.8	70-130	7.74	20	
Pyrene	0.192	0.020	"	0.200	0.004	93.8	70-130	4.21	20	
Surrogate: Fluorene-d10	210		ug/kg	200		105	60-130			
Surrogate: Anthracene-d10	180		"	200		92.2	60-130			
Surrogate: Pyrene-d10	180		"	200		92.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		102	60-130			

Batch B4G2531 - EPA 3580

Blank (B4G2531-BLK1)		Prepared: 07/25/2024 Analyzed: 07/25/2024								
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

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2531 - EPA 3580

Blank (B4G2531-BLK1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

Naphthalene	ND	0.002	mg/kg							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		99.7	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130			

LCS (B4G2531-BS1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.7	70-130			
2-Methylnaphthalene	0.183	0.002	"	0.200		91.5	70-130			
Acenaphthene	0.189	0.020	"	0.200		94.6	70-130			
Anthracene	0.189	0.020	"	0.200		94.5	70-130			
Benzo (a) anthracene	0.189	0.005	"	0.200		94.7	70-130			
Benzo (a) pyrene	0.209	0.020	"	0.200		104	70-130			
Benzo (b) fluoranthene	0.197	0.020	"	0.200		98.3	70-130			
Benzo (g,h,i) perylene	0.193	0.020	"	0.200		96.3	70-130			
Benzo (k) fluoranthene	0.192	0.020	"	0.200		95.9	70-130			
Chrysene	0.197	0.020	"	0.200		98.5	70-130			
Dibenz (a,h) anthracene	0.184	0.020	"	0.200		91.9	70-130			
Fluoranthene	0.194	0.020	"	0.200		97.2	70-130			
Fluorene	0.187	0.020	"	0.200		93.5	70-130			
Indeno (1,2,3-cd) pyrene	0.193	0.020	"	0.200		96.3	70-130			
Naphthalene	0.189	0.002	"	0.200		94.3	70-130			
Phenanthrene	0.188	0.020	"	0.200		94.1	70-130			
Pyrene	0.191	0.020	"	0.200		95.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		99.4	60-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 B4G2531 - EPA 3580

LCS (B4G2531-BS1)

Prepared: 07/25/2024 Analyzed: 07/25/2024

Surrogate: Anthracene-d10	200		ug/kg	200		100	60-130
Surrogate: Pyrene-d10	200		"	200		99.6	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.0	60-130

Matrix Spike (B4G2531-MS1)

Source: Y407607-01

Prepared: 07/25/2024 Analyzed: 07/25/2024

1-Methylnaphthalene	0.192	0.002	mg/kg	0.200	0.0009	95.7	70-130
2-Methylnaphthalene	0.191	0.002	"	0.200	ND	95.3	70-130
Acenaphthene	0.197	0.020	"	0.200	0.0009	97.9	70-130
Anthracene	0.198	0.020	"	0.200	0.004	97.0	70-130
Benzo (a) anthracene	0.218	0.005	"	0.200	0.020	99.1	70-130
Benzo (a) pyrene	0.231	0.020	"	0.200	0.027	102	70-130
Benzo (b) fluoranthene	0.215	0.020	"	0.200	0.018	98.3	70-130
Benzo (g,h,i) perylene	0.205	0.020	"	0.200	0.018	93.6	70-130
Benzo (k) fluoranthene	0.216	0.020	"	0.200	0.009	104	70-130
Chrysene	0.224	0.020	"	0.200	0.027	98.1	70-130
Dibenz (a,h) anthracene	0.197	0.020	"	0.200	0.003	97.3	70-130
Fluoranthene	0.219	0.020	"	0.200	0.023	98.1	70-130
Fluorene	0.198	0.020	"	0.200	ND	98.9	70-130
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	0.016	95.4	70-130
Naphthalene	0.192	0.002	"	0.200	ND	96.0	70-130
Phenanthrene	0.202	0.020	"	0.200	0.010	96.2	70-130
Pyrene	0.230	0.020	"	0.200	0.032	99.0	70-130

Surrogate: Fluorene-d10	200		ug/kg	200		99.6	60-130
Surrogate: Anthracene-d10	200		"	200		100	60-130
Surrogate: Pyrene-d10	200		"	200		100	60-130
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.2	60-130

Matrix Spike Dup (B4G2531-MSD1)

Source: Y407607-01

Prepared: 07/25/2024 Analyzed: 07/25/2024

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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
Batch B4G2531 - EPA 3580										
1-Methylnaphthalene	0.194	0.002	mg/kg	0.200	0.0009	96.5	70-130	0.814	20	
2-Methylnaphthalene	0.188	0.002	"	0.200	ND	94.2	70-130	1.10	20	
Acenaphthene	0.191	0.020	"	0.200	0.0009	95.1	70-130	2.89	20	
Anthracene	0.200	0.020	"	0.200	0.004	97.9	70-130	0.925	20	
Benzo (a) anthracene	0.223	0.005	"	0.200	0.020	102	70-130	2.23	20	
Benzo (a) pyrene	0.248	0.020	"	0.200	0.027	111	70-130	6.84	20	
Benzo (b) fluoranthene	0.207	0.020	"	0.200	0.018	94.1	70-130	3.92	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.018	94.3	70-130	0.655	20	
Benzo (k) fluoranthene	0.199	0.020	"	0.200	0.009	94.9	70-130	8.48	20	
Chrysene	0.234	0.020	"	0.200	0.027	103	70-130	4.38	20	
Dibenz (a,h) anthracene	0.196	0.020	"	0.200	0.003	96.5	70-130	0.852	20	
Fluoranthene	0.226	0.020	"	0.200	0.023	102	70-130	3.08	20	
Fluorene	0.192	0.020	"	0.200	ND	96.0	70-130	2.98	20	
Indeno (1,2,3-cd) pyrene	0.200	0.020	"	0.200	0.016	92.0	70-130	3.29	20	
Naphthalene	0.190	0.002	"	0.200	ND	95.0	70-130	1.01	20	
Phenanthrene	0.202	0.020	"	0.200	0.010	96.0	70-130	0.270	20	
Pyrene	0.236	0.020	"	0.200	0.032	102	70-130	2.37	20	
Surrogate: Fluorene-d10	200		ug/kg	200		99.1	60-130			
Surrogate: Anthracene-d10	200		"	200		100	60-130			
Surrogate: Pyrene-d10	200		"	200		100	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		94.5	60-130			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 B4G0309 - DTPA Sorbitol Preparation

Blank (B4G0309-BLK1)

Prepared: 07/03/2024 Analyzed: 07/05/2024

Boron ND 0.100 mg/L

Duplicate (B4G0309-DUP1)

Source: Y407031-01

Prepared: 07/03/2024 Analyzed: 07/05/2024

Boron 0.218 0.0986 mg/L 0.277 23.8 50

Batch B4G0316 - Saturated Paste Metals

Blank (B4G0316-BLK1)

Prepared: 07/03/2024 Analyzed: 07/08/2024

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

Duplicate (B4G0316-DUP1)

Source: Y407049-03

Prepared: 07/03/2024 Analyzed: 07/08/2024

SAR ND 0.0100 SAR 3.43 200
Calcium PPM 21.3 10.0 mg/L 21.5 0.935 50
Magnesium PPM 2.32 10.0 " 2.30 0.866 50
Sodium PPM 64.8 10.0 " 62.6 3.44 50

Batch B4G2605 - DTPA Sorbitol Preparation

Blank (B4G2605-BLK1)

Prepared: 07/26/2024 Analyzed: 07/29/2024

Boron ND 0.100 mg/L

Duplicate (B4G2605-DUP1)

Source: Y407053-05

Prepared: 07/26/2024 Analyzed: 07/29/2024

Boron 0.145 0.101 mg/L 0.131 10.4 50

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

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 B4G2610 - Saturated Paste Metals

Blank (B4G2610-BLK1)

Prepared: 07/26/2024 Analyzed: 07/30/2024

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

Duplicate (B4G2610-DUP1)

Source: Y407053-05

Prepared: 07/26/2024 Analyzed: 07/30/2024

SAR	ND	0.0100	SAR	0.169			200
Calcium PPM	14.6	10.0	mg/L	14.3		1.52	50
Magnesium PPM	3.09	10.0	"	3.03		1.96	50
Sodium PPM	2.70	10.0	"	2.70		0.00	50

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 B4G0321 - Saturated Paste pH/EC

Blank (B4G0321-BLK1)

Prepared: 07/03/2024 Analyzed: 07/06/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G0321-DUP1)

Source: Y407049-03

Prepared: 07/03/2024 Analyzed: 07/06/2024

pH	8.19		pH Units	8.08			1.35	25
Specific Conductance (EC)	0.486	0.00500	mmhos/cm	0.451			7.55	25

Batch B4G2618 - Saturated Paste pH/EC

Blank (B4G2618-BLK1)

Prepared: 07/26/2024 Analyzed: 07/30/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4G2618-DUP1)

Source: Y407053-05

Prepared: 07/26/2024 Analyzed: 07/30/2024

pH	8.10		pH Units	8.30			2.44	25
Specific Conductance (EC)	0.264	0.00500	mmhos/cm	0.241			9.10	25

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

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 2642981 - SW846 3060A										
BLANK (1205793919-BLK)					Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	ND	0.327	mg/kg				-			U
LCS (1205793920-BKS)					Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	3.83	0.392	mg/kg	3.92		97.9	80-120			
DUP (1205793921 D)					Source: 674104001 Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	ND	0.227	mg/kg dry		<0.0907		0-50	N/A	50	U
MS (1205793922 S)					Source: 674104001 Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	0.910	0.229	mg/kg dry	2.29	<0.0916	36.2	75-125			
DUP (1205793923 D)					Source: 674104002 Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	ND	0.273	mg/kg dry		<0.109		0-50	N/A	50	U
MS (1205793924 S)					Source: 674104002 Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	2.03	0.355	mg/kg dry	3.55	<0.142	56.2	75-125			
ILCS (1205793925-ILCS)					Prepared: 07/18/2024 Analyzed: 07/24/2024					
Hexavalent Chromium	6.15	0.297	mg/kg	6.06		102	80-120			

Origins Laboratory, Inc.



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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Stroh H12-22

Total Metals 7196A - Quality Control GEL Laboratories, LLC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2651138 - SW846 3060A										
BLANK (1205810673-BLK)					Prepared: 08/05/2024 Analyzed: 08/07/2024					
Hexavalent Chromium	ND	0.225	mg/kg				-			U
LCS (1205810674-BKS)					Prepared: 08/05/2024 Analyzed: 08/07/2024					
Hexavalent Chromium	2.35	0.237	mg/kg	2.37		99.3	80-120			
DUP (1205810675 D)					Prepared: 08/05/2024 Analyzed: 08/07/2024					
Hexavalent Chromium	ND	0.239	mg/kg dry		<0.0955		0-50	N/A	50	hU
MS (1205810676 S)					Prepared: 08/05/2024 Analyzed: 08/07/2024					
Hexavalent Chromium	0.393	0.224	mg/kg dry	2.24	<0.0895	17.4	75-125			h
ILCS (1205810679-ILCS)					Prepared: 08/05/2024 Analyzed: 08/07/2024					
Hexavalent Chromium	5.20	0.258	mg/kg	5.20		99.8	80-120			

Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Stroh H12-22

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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

O-05 This sample was extracted outside of the EPA recommended holding time.

I-02 This result was analyzed outside of the EPA recommended holding time.

hU [Undefined]

h Preparation or preservation holding time was exceeded

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at 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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