



Facility Closure Investigation and Environmental Summary

Nakagawa B13-16 Wellhead

ECMC Remediation Project #33881

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

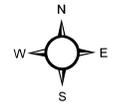
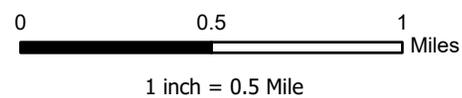
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

 Site Location



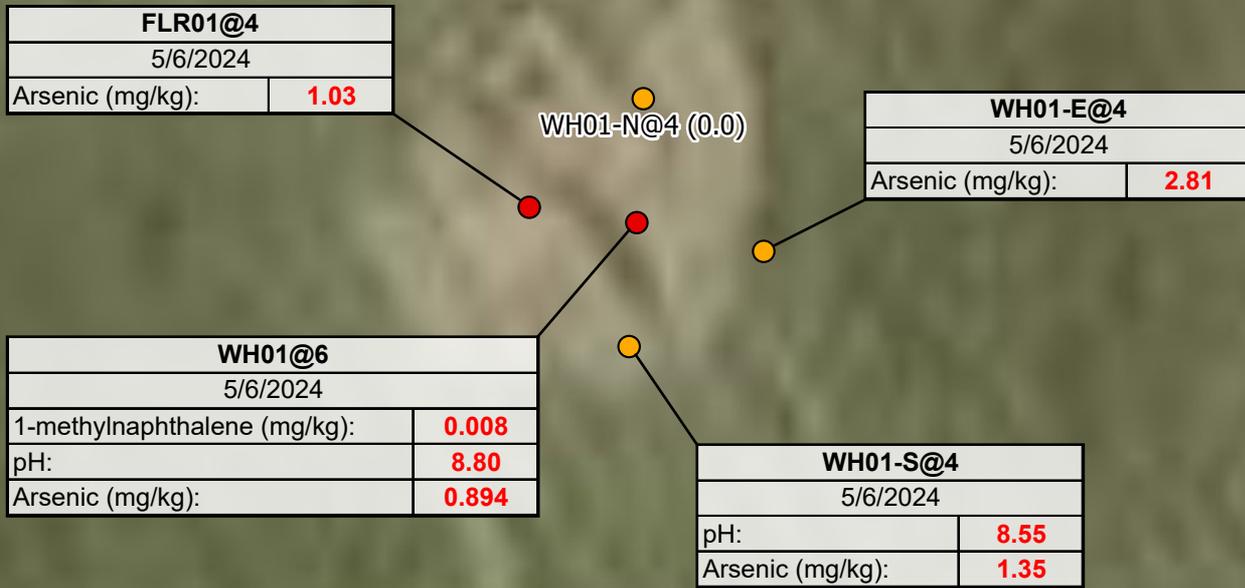
Project No:	024-179
Map By:	JW
Date:	06/28/2024

**NAKAGAWA PMB13-16 WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SE 1/4 SE 1/4 SECTION 13
T5N R64W, 6TH PM
WELD COUNTY, COLORADO



1843 Sunlight Dr.
Longmont, CO 80504
303.378.4036

Figure
1



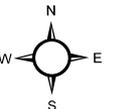
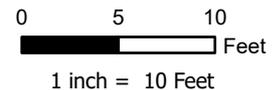
LABEL LEGEND	
XXXX@X:	SAMPLE NAME @ DEPTH IN FEET
WH:	WELLHEAD SAMPLE
FLR:	FLOWLINE RISER SAMPLE
RED:	ABOVE ECMC TABLE 915-1 GWSSL

Maxar, Microsoft

Legend

- Soil Sample
- Screening Location

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



Project No: 024-179	NAKAGAWA PMB13-16 WELLHEAD SOIL SAMPLE AND FIELD SCREENING LOCATIONS NOBLE ENERGY SE 1/4 SE 1/4 SECTION 13 T5N R64W, 6TH PM WELD COUNTY, COLORADO		1843 Sunlight Drive Longmont, CO 80504 303.378.4036	Figure
Map By: JW				2
Date: 06/27/2024				

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
NAKAGAWA PMB13-16 WELLHEAD, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data		VOC Concentration (ppm)
			Latitude/Longitude		
WH01@6	5/6/2024	6	40.393774	-104.491379	31.8
FLR01@4	5/6/2024	4	40.393777	-104.491399	1.1
WH01-E@4	5/6/2024	4	40.393770	-104.491356	30.0
WH01-S@4	5/6/2024	4	40.393757	-104.491381	30.1
WH01-N@4	5/6/2024	4	40.393792	-104.491378	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
NAKAGAWA PMB13-16 WELLHEAD, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft-bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Xylenes (mg/kg)	1,2,4-Trimethyl-Benzene (mg/kg)	1,3,5-Trimethyl-Benzene (mg/kg)	Naphthalene (mg/kg)	TPH (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			1.2	490	5.8	58	30	27	2	500	500**		
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.0026	0.69	0.78	9.9	0.0081	0.0087	0.0038	500	500**		
WH01@6	5/6/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	0.002	0.256	0.256	<25.0	<100
FLR01@4	5/6/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
WH01-E@4	5/6/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	0.216	0.216	<25.0	<100
WH01-S@4	5/6/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	0.517	0.517	<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
NAKAGAWA PMB13-16 WELLHEAD, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft-bgs)	Acenaphthene (mg/kg)	Anthracene (mg/kg)	Benzo (a) Anthracene (mg/kg)	Benzo (a) Pyrene (mg/kg)	Benzo (b) Fluoranthene (mg/kg)	Benzo (k) Fluoranthene (mg/kg)	Chrysene (mg/kg)	Dibenzo (a,h) Anthracene (mg/kg)	Fluoranthene (mg/kg)	Fluorene (mg/kg)	Indeno (1,2,3-cd) Pyrene (mg/kg)	Pyrene (mg/kg)	1-Methyl - Naphthalene (mg/kg)	2-Methyl- Naphthalene (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			360	1800	1.1	0.11	1.1	11	110	0.11	240	240	1.1	180	18	24
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.55	5.8	0.011	0.24	0.3	2.9	9	0.096	8.9	0.54	0.98	1.3	0.006	0.019
WH01@6	5/6/2024	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	0.008	0.009
FLR01@4	5/6/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
WH01-E@4	5/6/2024	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	0.003
WH01-S@4	5/6/2024	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	0.003	0.004

1. Red values exceed the ECMC Table 915-1 limit(s)

2. 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

ft-bgs - feet below ground surface

mg/kg - milligrams per kilogram

TABLE 4
SUMMARY OF SOIL SUITABILITY FOR RECLAMATION
NOBLE 100322
NAKAGAWA PMB13-16 WELLHEAD, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft-bgs)	pH (Standard Units)	EC (mmhos/cm)	SAR (Standard Units)	Boron (mg/L)
ECMC Table 915-1 Soil Suitability Limits			6 - 8.3	<4	<6	2
WH01@6	5/6/2024	6	8.80	0.295	0.616	0.217
FLR01@4	5/6/2024	4	8.08	0.164	0.549	0.120
WH01-E@4	5/6/2024	4	8.14	0.215	0.334	0.134
WH01-S@4	5/6/2024	4	8.55	0.220	0.485	0.208

1. **Red** values exceed the ECMC Table 915-1 limit(s)

ft-bgs = feet below ground surface

EC - Electrical Conductivity

SAR - Sodium adsorption ratio

mg/l - milligrams per liter

mmhos/cm - millimhos per centimeter

TABLE 5
SUMMARY OF METALS IN SOIL CHEMISTRY DATA
NOBLE 100322
NAKAGAWA PMB13-16 WELLHEAD, WELD COUNTY, COLORADO
REM # 33881

Sample ID	Sample Date	Depth (ft-bgs)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (VI) (mg/kg)	Copper (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Zinc (mg/kg)
ECMC Table 915-1 Limits (Residential SSL)			0.68	15000	71	0.3	3100	400	1500	390	390	23000
ECMC Table 915-1 Limits (Protection of Groundwater SSL)			0.29	82	0.38	0.00067	46	14	26	0.26	0.8	370
WH01@6	5/6/2024	6	0.894	18.9	<0.0891	<0.146*	<8.91	8.86	1.48	<0.232	<0.0891	<33.0
FLR01@4	5/6/2024	4	1.03	14.6	<0.0862	<0.0979*	<8.62	5.57	1.03	<0.224	0.112	<31.9
WH01-E@4	5/6/2024	4	2.81	40.5	0.120	<0.0987*	<8.57	8.32	1.94	<0.223	0.117	<31.7
WH01-S@4	5/6/2024	4	1.35	27.4	<0.0946	<0.108*	<9.46	5.62	1.53	<0.246	0.114	<35.0

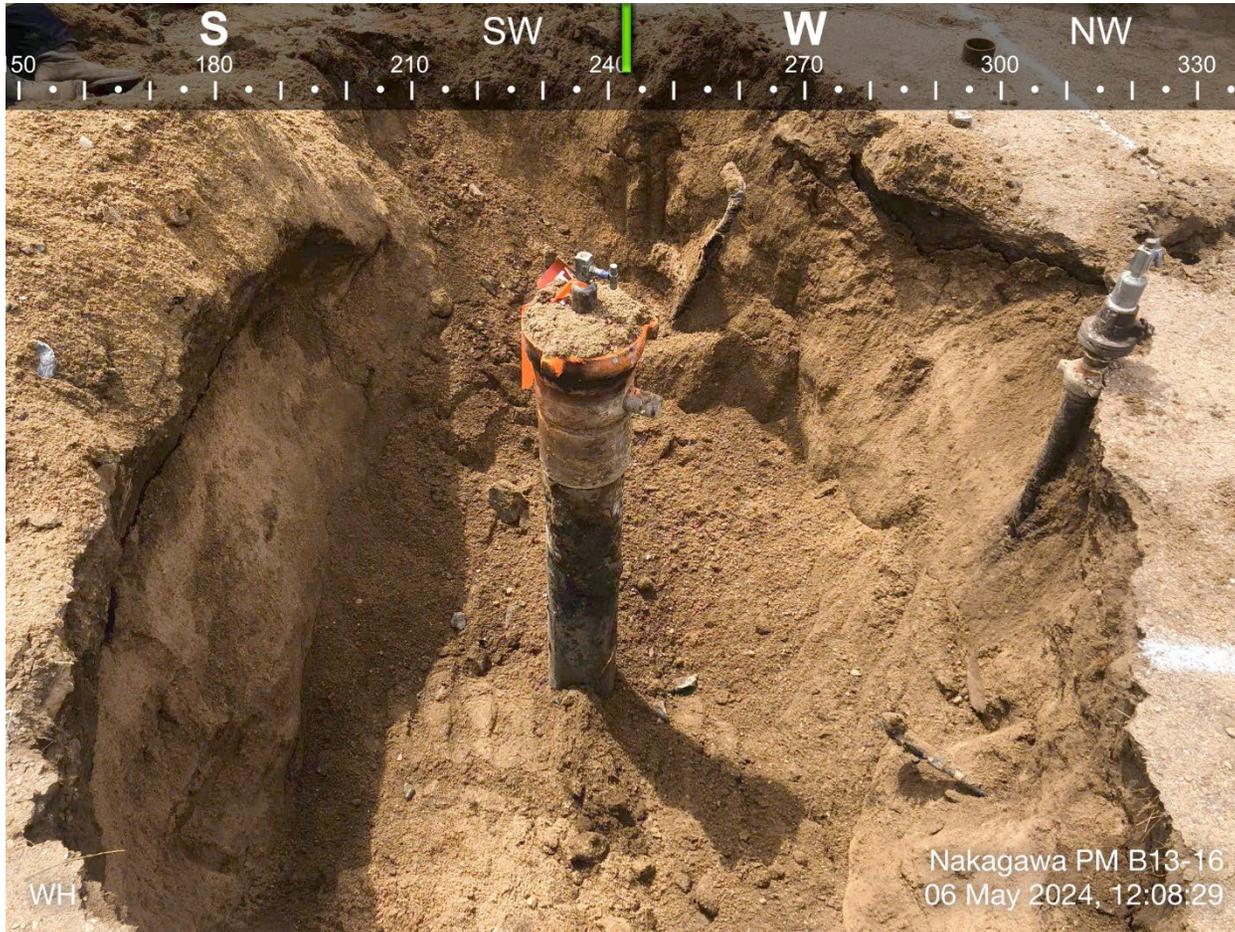
1. Red values exceed the ECMC Table 915-1 limit(s)
 2. Red highlighted soil analytical values indicate an exceedance of the referenced soil screening level (SSL)
 3. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
- * Indicates laboratory reporting or minimum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

**ATTACHMENT A
PHOTOGRAPHIC LOG**

Nakagawa PMB13-16 Wellhead Photographic Log



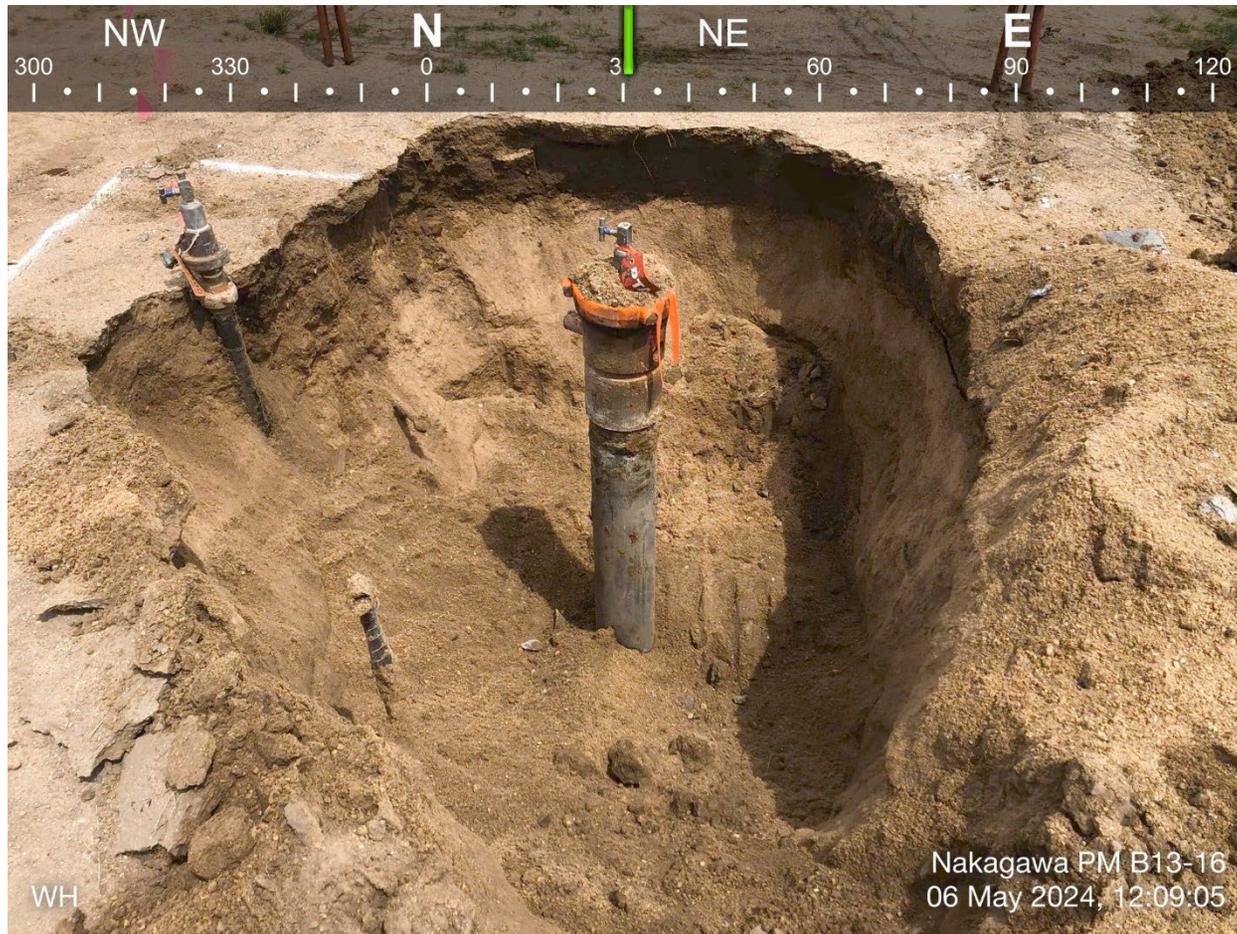
Nakagawa PMB13-16 Wellhead Photographic Log



Nakagawa PMB13-16 Wellhead Photographic Log



Nakagawa PMB13-16 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: Nakagawa B13-16, 247281		Date: 5/6/2024			Remediation Project #: 33881			
Associated Wells: NA		Age of Site: 7/3/1991-spud date			Number of Photos Attached: 4			
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.393783 / -104.491378							Estimated Facility Size (acres): ~0.01	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.)								
Odor was present at three of the five samples								
USCS Soil Type: Well-graded, coarse sand (SW)				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)								
Yes, size and impact of spill currently unknown, further excavation needed								
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	05-123-15078							
Age	7/3/1991-spud date							
Condition of surface around wellhead	Odor							
PID Readings	0.0 to 31.8 ppm							
Condition of subsurface (staining present)	Odor							
PID Readings	0.0 to 31.8 ppm							
Sample taken? Location/Sample ID#	WH01@6, FLR01@4 WH01-E@4, WH01-S@4							
Photo Number(s)	1-4							
Other observations regarding wellheads:								
Odor detected at the floor, east sidewall, and south sidewall of the wellhead excavation								
Summary								
Was impacted soil identified?								
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: 31.8 ppm				Total number of samples submitted to lab for analysis: 4				
If more than 10 cubic yards of impacted soil were observed: NA								
Vertical extent:				Estimated spill volume:				
Lateral extent:				Volume of soil removed:				
Is additional investigation required? Yes								
Was groundwater encountered during the investigation?								
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**

May 20, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Nakagawa PM B13-16 Project Number - [none]

Attached are your analytical results for Chevron - Nakagawa PM B13-16 received by Origins Laboratory, Inc. May 06, 2024. This project is associated with Origins project number Y405160-01.

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

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

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

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

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

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



Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Nakagawa PM B13-16

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405160-01	Soil	May 6, 2024 12:00	05/06/2024 15:45
FLR01@4	Y405160-02	Soil	May 6, 2024 12:05	05/06/2024 15:45
WH01-E@4	Y405160-04	Soil	May 6, 2024 12:15	05/06/2024 15:45
WH01-S@4	Y405160-05	Soil	May 6, 2024 12:20	05/06/2024 15:45

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 - Nakagawa PM B13-16

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: V405160 Client: Entrada
 Client Project ID: Nakagawa PM
 Checklist Completed by: EAD/141 Shipped Via: HD
 Date/time completed: 5/6/12 (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 18.6 °C / _____ °C / _____ °C (Describe)
 Thermometer ID: 2805

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?		/		SD
Is there ice present (document if blue ice is used)		/		
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		/		
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)		/		
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO3, HCL, H2SO4) / (pH >10 for samples preserved with NaAsO2+NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

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

Reviewed by (Project Manager)

Date/Time Reviewed

Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01@6
5/6/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.217		0.0983	mg/L	1	B4E0712	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0702	05/07/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	88.7 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0727	05/07/2024	05/10/2024	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	0.256		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	114 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.2 %		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 - Nakagawa PM B13-16

WH01@6
5/6/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	100 %		70-130			B4E07 27	05/07/2024	05/10/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	1.24		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	0.576		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.008		0.002	mg/kg	1	B4E0739	05/07/2024	05/10/2024	
2-Methylnaphthalene	0.009		0.002	"	"	"	"	"	
Acenaphthene	ND		0.020	"	"	"	"	"	Ua
Anthracene	ND		0.020	"	"	"	"	"	Ua
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	Ua
Benzo (a) pyrene	ND		0.020	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND		0.020	"	"	"	"	"	Ua
Chrysene	ND		0.020	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND		0.020	"	"	"	"	"	Ua
Fluoranthene	ND		0.020	"	"	"	"	"	Ua
Fluorene	ND		0.020	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01@6
 5/6/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405160-01 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4E0739	05/07/2024	05/10/2024	Ua
Naphthalene	0.002		0.002	"	"	"	"	"	
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	97.7 %		60-130			"	"	"	
Surrogate: Pyrene-d10	83.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	94.0 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.80			pH Units	1	B4E0722	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.616		0.0100	SAR	1	B4E0717	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.295		0.00500	mmhos/cm	1	B4E0722	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	0.894		0.258	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
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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 - Nakagawa PM B13-16

WH01@6
 5/6/2024 12:00:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405160-01 (Soil)

Table 915 metals by EPA 6020B

Barium	18.9		8.91	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
Cadmium	ND		0.0891	"	"	"	"	"	
Copper	ND		8.91	"	"	"	"	"	
Lead	8.86		0.891	"	"	"	"	"	
Nickel	1.48		0.891	"	"	"	"	"	
Selenium	ND		0.232	"	"	"	"	"	
Silver	ND		0.0891	"	"	"	"	"	
Zinc	ND		33.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.146	0.364	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

FLR01@4
 5/6/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405160-02 (Soil)

Boron (DTPA Sorbitol)

Boron	0.120		0.101	mg/L	1	B4E0712	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0702	05/07/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	96.1 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0727	05/07/2024	05/10/2024	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	112 %		70-130			"	"	"	
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

FLR01@4
 5/6/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405160-02 (Soil)

GBTEX+TMBs by 8260D

Surrogate: Toluene-d8	96.5 %		70-130			B4E07 27	05/07/2024	05/10/2024	
Surrogate: 4-Bromofluorobenzene	103 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.582		0.499	meq/L	10	[CALC]	05/07/2024	05/08/2024	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND		0.002	mg/kg	1	B4E0739	05/07/2024	05/10/2024	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.



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

FLR01@4
 5/6/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405160-02 (Soil)

PAH by EPA 8270E

Fluorene	ND		0.020	mg/kg	1	B4E0739	05/07/2024	05/10/2024	Ua
Indeno (1,2,3-cd) pyrene	ND		0.020	"	"	"	"	"	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	100 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.6 %		60-130			"	"	"	
Surrogate: Pyrene-d10	95.4 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.9 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.08			pH Units	1	B4E0722	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.549		0.0100	SAR	1	B4E0717	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.164		0.00500	mmhos/cm	1	B4E0722	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Origins Laboratory, Inc.



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

FLR01@4
 5/6/2024 12:05:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
 Y405160-02 (Soil)

Table 915 metals by EPA 6020B

Arsenic	1.03		0.250	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
Barium	14.6		8.62	"	"	"	"	"	
Cadmium	ND		0.0862	"	"	"	"	"	
Copper	ND		8.62	"	"	"	"	"	
Lead	5.57		0.862	"	"	"	"	"	
Nickel	1.03		0.862	"	"	"	"	"	
Selenium	ND		0.224	"	"	"	"	"	
Silver	0.112		0.0862	"	"	"	"	"	
Zinc	ND		31.9	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.0979	0.245	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01-E@4
5/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-04 (Soil)

Boron (DTPA Sorbitol)

Boron	0.134		0.0985	mg/L	1	B4E0712	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0702	05/07/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: <i>o</i> -Terphenyl	89.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0727	05/07/2024	05/10/2024	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	0.216		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	109 %		70-130			"	"	"	
Surrogate: Toluene-d8	96.6 %		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 - Nakagawa PM B13-16

WH01-E@4
5/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-04 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	101 %		70-130			B4E07 27	05/07/2024	05/10/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.692	0.499	meq/L	10	[CALC]		05/07/2024	05/08/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.002	0.002	mg/kg	1	B4E0739		05/07/2024	05/10/2024	
2-Methylnaphthalene	0.003	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01-E@4

5/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-04 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4E0739	05/07/2024	05/10/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	102 %		60-130			"	"	"	
Surrogate: Anthracene-d10	96.4 %		60-130			"	"	"	
Surrogate: Pyrene-d10	83.9 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.14			pH Units	1	B4E0722	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.334		0.0100	SAR	1	B4E0717	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.215		0.00500	mmhos/cm	1	B4E0722	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	2.81		0.249	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
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Origins Laboratory, Inc.



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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01-E@4
5/6/2024 12:15:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-04 (Soil)

Table 915 metals by EPA 6020B

Barium	40.5		8.57	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
Cadmium	0.120		0.0857	"	"	"	"	"	
Copper	ND		8.57	"	"	"	"	"	
Lead	8.32		0.857	"	"	"	"	"	
Nickel	1.94		0.857	"	"	"	"	"	
Selenium	ND		0.223	"	"	"	"	"	
Silver	0.117		0.0857	"	"	"	"	"	
Zinc	ND		31.7	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.0987	0.247	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01-S@4
5/6/2024 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-05 (Soil)

Boron (DTPA Sorbitol)

Boron	0.208		0.0999	mg/L	1	B4E0712	05/07/2024	05/10/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND		25.0	mg/kg	1	B4E0702	05/07/2024	05/10/2024	Ua
Residual Range Organics (C28-C40)	ND		100	"	"	"	"	"	Ua

Surrogate: o-Terphenyl	91.6 %		50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND		0.00200	mg/kg	1	B4E0727	05/07/2024	05/10/2024	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	0.517		0.200	"	"	"	"	"	

Surrogate: 1,2-Dichloroethane-d4	111 %		70-130			"	"	"	
Surrogate: Toluene-d8	95.7 %		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 - Nakagawa PM B13-16

WH01-S@4
5/6/2024 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-05 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 4-Bromofluorobenzene	99.4 %	70-130				B4E07 27	05/07/2024	05/10/2024	
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Metals by Saturated Paste by EPA 6010

Calcium	0.758	0.499	meq/L	10	[CALC]		05/07/2024	05/08/2024	
Magnesium	ND	0.823	"	"	"	"	"	"	
Sodium	ND	0.435	"	"	"	"	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	0.003	0.002	mg/kg	1	B4E0739		05/07/2024	05/10/2024	
2-Methylnaphthalene	0.004	0.002	"	"	"	"	"	"	
Acenaphthene	ND	0.020	"	"	"	"	"	"	Ua
Anthracene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	"	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Chrysene	ND	0.020	"	"	"	"	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	"	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	"	"	"	Ua
Fluorene	ND	0.020	"	"	"	"	"	"	Ua

Origins Laboratory, Inc.



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

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

WH01-S@4
5/6/2024 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-05 (Soil)

PAH by EPA 8270E

Indeno (1,2,3-cd) pyrene	ND		0.020	mg/kg	1	B4E0739	05/07/2024	05/10/2024	Ua
Naphthalene	ND		0.002	"	"	"	"	"	Ua
Pyrene	ND		0.020	"	"	"	"	"	Ua

Surrogate: Fluorene-d10	101 %		60-130			"	"	"	
Surrogate: Anthracene-d10	98.1 %		60-130			"	"	"	
Surrogate: Pyrene-d10	82.8 %		60-130			"	"	"	
Surrogate: Benzo (a) pyrene-d12	98.6 %		60-130			"	"	"	

pH in Soil by 9045D

pH	8.55			pH Units	1	B4E0722	05/07/2024	05/08/2024	
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SAR by 20B Saturated Paste

SAR	0.485		0.0100	SAR	1	B4E0717	05/07/2024	05/08/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.220		0.00500	mmhos/cm	1	B4E0722	05/07/2024	05/08/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.35		0.274	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
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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 - Nakagawa PM B13-16

WH01-S@4

5/6/2024 12:20:00PM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y405160-05 (Soil)

Table 915 metals by EPA 6020B

Barium	27.4		9.46	mg/kg	10	B4E0650	05/06/2024	05/09/2024	
Cadmium	ND		0.0946	"	"	"	"	"	
Copper	ND		9.46	"	"	"	"	"	
Lead	5.62		0.946	"	"	"	"	"	
Nickel	1.53		0.946	"	"	"	"	"	
Selenium	ND		0.246	"	"	"	"	"	
Silver	0.114		0.0946	"	"	"	"	"	
Zinc	ND		35.0	"	"	"	"	"	

Total Metals by 7196A

Hexavalent Chromium	ND	0.108	0.269	mg/kg dry	1	2609801	05/13/2024	05/14/2024	U
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Entrada Consulting Group
 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0702 - EPA 3550B										
Blank (B4E0702-BLK1)										
					Prepared: 05/07/2024 Analyzed: 05/10/2024					
Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	23		"	24.9		93.7	50-150			

Origins Laboratory, Inc.



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Entrada Consulting Group
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 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0702 - EPA 3550B

LCS (B4E0702-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

Diesel (C10-C28)	965	50.0	mg/kg	1000		96.5	70-130			
Residual Range Organics (C28-C40)	975	200	"	1000		97.5	70-130			
Surrogate: o-Terphenyl	59		"	49.8		118	50-150			

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0702 - EPA 3550B

Matrix Spike (B4E0702-MS1)	Source: Y405142-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
Diesel (C10-C28)	889	50.0	mg/kg	1000	ND	88.9	70-130			
Residual Range Organics (C28-C40)	979	200	"	1000	ND	97.9	70-130			
Surrogate: o-Terphenyl	55		"	49.8		110	50-150			

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Entrada Consulting Group
 330 Grand Ave. Unit C
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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0702 - EPA 3550B										
Matrix Spike Dup (B4E0702-MSD1)					Source: Y405142-01					Prepared: 05/07/2024 Analyzed: 05/10/2024
Diesel (C10-C28)	847	50.0	mg/kg	1000	ND	84.7	70-130	4.83	35	
Residual Range Organics (C28-C40)	948	200	"	1000	ND	94.8	70-130	3.22	35	
Surrogate: o-Terphenyl	54		"	49.8		109	50-150			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0727 - EPA 5030 (soil)

Blank (B4E0727-BLK1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

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	0.14		"	0.125	109		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	98.9		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	102		70-130			

Origins Laboratory, Inc.



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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0727 - EPA 5030 (soil)

LCS (B4E0727-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1,2,4-Trimethylbenzene	0.0975	0.00200	mg/kg	0.100		97.5	70-130			
1,3,5-Trimethylbenzene	0.0982	0.00200	"	0.100		98.2	70-130			
Benzene	0.0975	0.00200	"	0.100		97.5	70-130			
Ethylbenzene	0.0958	0.00200	"	0.100		95.8	70-130			
Naphthalene	0.103	0.00380	"	0.100		103	70-130			
Toluene	0.0957	0.00200	"	0.100		95.7	70-130			
o-Xylene	0.0938	0.00200	"	0.100		93.8	70-130			
m,p-Xylene	0.186	0.00400	"	0.200		93.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		106	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.5	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0727 - EPA 5030 (soil)

Matrix Spike (B4E0727-MS1)	Source: Y405138-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
1,2,4-Trimethylbenzene	0.0761	0.00200	mg/kg	0.100	ND	76.1	70-130			
1,3,5-Trimethylbenzene	0.0760	0.00200	"	0.100	0.000680	75.3	70-130			
Benzene	0.0807	0.00200	"	0.100	ND	80.7	70-130			
Ethylbenzene	0.0747	0.00200	"	0.100	ND	74.7	70-130			
Naphthalene	0.0825	0.00380	"	0.100	ND	82.5	70-130			
Toluene	0.0768	0.00200	"	0.100	ND	76.8	70-130			
o-Xylene	0.0742	0.00200	"	0.100	ND	74.2	70-130			
m,p-Xylene	0.146	0.00400	"	0.200	ND	73.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		113	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.3	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.1	70-130			

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Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0727 - EPA 5030 (soil)

Matrix Spike Dup (B4E0727-MSD1)	Source: Y405138-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
1,2,4-Trimethylbenzene	0.0915	0.00200	mg/kg	0.100	ND	91.5	70-130	18.4	20	
1,3,5-Trimethylbenzene	0.0910	0.00200	"	0.100	0.000680	90.3	70-130	18.0	20	
Benzene	0.0949	0.00200	"	0.100	ND	94.9	70-130	16.1	20	
Ethylbenzene	0.0896	0.00200	"	0.100	ND	89.6	70-130	18.2	20	
Naphthalene	0.101	0.00380	"	0.100	ND	101	70-130	20.1	20	QR-02
Toluene	0.0907	0.00200	"	0.100	ND	90.7	70-130	16.6	20	
o-Xylene	0.0894	0.00200	"	0.100	ND	89.4	70-130	18.6	20	
m,p-Xylene	0.176	0.00400	"	0.200	ND	88.0	70-130	18.7	20	
Surrogate: 1,2-Dichloroethane-d4	0.14		"	0.125		111	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.7	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		98.9	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B4E0650 - EPA 3050B

Blank (B4E0650-BLK1)

Prepared: 05/06/2024 Analyzed: 05/09/2024

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 (B4E0650-BS1)

Prepared: 05/06/2024 Analyzed: 05/09/2024

Arsenic	4.72	0.290	mg/kg	5.00		94.5	80-120			
Barium	499	10.0	"	500		99.9	80-120			
Cadmium	5.04	0.100	"	5.00		101	80-120			
Copper	42.3	10.0	"	50.0		84.5	80-120			
Lead	5.02	1.00	"	5.00		100	80-120			
Nickel	4.61	1.00	"	5.00		92.2	80-120			
Selenium	9.13	0.260	"	9.50		96.1	80-120			
Silver	4.63	0.100	"	5.00		92.7	80-120			
Zinc	47.4	37.0	"	50.0		94.7	80-120			

Matrix Spike (B4E0650-MS1)

Source: Y405176-03

Prepared: 05/06/2024 Analyzed: 05/09/2024

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 - Nakagawa PM B13-16

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 B4E0650 - EPA 3050B

Matrix Spike (B4E0650-MS1)		Source: Y405176-03			Prepared: 05/06/2024 Analyzed: 05/09/2024					
Arsenic	7.45	0.279	mg/kg	4.80	2.82	96.5	75-125			
Barium	706	9.60	"	480	165	113	75-125			
Cadmium	4.82	0.0960	"	4.80	0.205	96.1	75-125			
Copper	55.3	9.60	"	48.0	9.12	96.1	75-125			
Lead	15.7	0.960	"	4.80	11.1	96.1	75-125			
Nickel	17.0	0.960	"	4.80	12.4	95.9	75-125			
Selenium	7.64	0.250	"	9.12	0.286	80.5	75-125			
Silver	4.34	0.0960	"	4.80	0.0947	88.4	75-125			
Zinc	86.6	35.5	"	48.0	43.4	89.9	75-125			

Matrix Spike Dup (B4E0650-MSD1)		Source: Y405176-03			Prepared: 05/06/2024 Analyzed: 05/09/2024					
Arsenic	7.74	0.271	mg/kg	4.68	2.82	105	75-125	3.83	20	
Barium	546	9.35	"	468	165	81.6	75-125	25.5	20	QR-02
Cadmium	4.68	0.0935	"	4.68	0.205	95.7	75-125	2.95	20	
Copper	53.7	9.35	"	46.8	9.12	95.3	75-125	2.92	20	
Lead	15.4	0.935	"	4.68	11.1	92.5	75-125	1.85	20	
Nickel	16.8	0.935	"	4.68	12.4	93.8	75-125	1.29	20	
Selenium	7.77	0.243	"	8.89	0.286	84.2	75-125	1.73	20	
Silver	4.16	0.0935	"	4.68	0.0947	87.0	75-125	4.24	20	
Zinc	85.7	34.6	"	46.8	43.4	90.4	75-125	1.01	20	

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0739 - EPA 3580

Blank (B4E0739-BLK1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1-Methylnaphthalene	ND	0.002	mg/kg							Ua
2-Methylnaphthalene	ND	0.002	"							Ua
Acenaphthene	ND	0.020	"							Ua
Anthracene	ND	0.020	"							Ua
Benzo (a) anthracene	ND	0.005	"							Ua
Benzo (a) pyrene	ND	0.020	"							Ua
Benzo (b) fluoranthene	ND	0.020	"							Ua
Benzo (g,h,i) perylene	ND	0.020	"							Ua
Benzo (k) fluoranthene	ND	0.020	"							Ua
Chrysene	ND	0.020	"							Ua
Dibenz (a,h) anthracene	ND	0.020	"							Ua
Fluoranthene	ND	0.020	"							Ua
Fluorene	ND	0.020	"							Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"							Ua
Naphthalene	ND	0.002	"							Ua
Phenanthrene	ND	0.020	"							Ua
Pyrene	ND	0.020	"							Ua
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		95.5	60-130			
Surrogate: Pyrene-d10	170		"	200		83.7	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	60-130			

LCS (B4E0739-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

1-Methylnaphthalene	0.187	0.002	mg/kg	0.200		93.6	70-130			
2-Methylnaphthalene	0.187	0.002	"	0.200		93.3	70-130			
Acenaphthene	0.195	0.020	"	0.200		97.6	70-130			
Anthracene	0.192	0.020	"	0.200		96.0	70-130			

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 330 Grand Ave. Unit C
 Grand Junction CO 81501

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0739 - EPA 3580

LCS (B4E0739-BS1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

Benzo (a) anthracene	0.190	0.005	mg/kg	0.200		95.2	70-130			
Benzo (a) pyrene	0.194	0.020	"	0.200		96.8	70-130			
Benzo (b) fluoranthene	0.179	0.020	"	0.200		89.6	70-130			
Benzo (g,h,i) perylene	0.198	0.020	"	0.200		98.9	70-130			
Benzo (k) fluoranthene	0.171	0.020	"	0.200		85.6	70-130			
Chrysene	0.182	0.020	"	0.200		90.9	70-130			
Dibenz (a,h) anthracene	0.218	0.020	"	0.200		109	70-130			
Fluoranthene	0.197	0.020	"	0.200		98.7	70-130			
Fluorene	0.199	0.020	"	0.200		99.4	70-130			
Indeno (1,2,3-cd) pyrene	0.191	0.020	"	0.200		95.3	70-130			
Naphthalene	0.197	0.002	"	0.200		98.3	70-130			
Phenanthrene	0.188	0.020	"	0.200		94.1	70-130			
Pyrene	0.167	0.020	"	0.200		83.4	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		102	60-130			
Surrogate: Anthracene-d10	190		"	200		96.2	60-130			
Surrogate: Pyrene-d10	170		"	200		84.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.8	60-130			

Matrix Spike (B4E0739-MS1)

Source: Y405143-01

Prepared: 05/07/2024 Analyzed: 05/10/2024

1-Methylnaphthalene	0.191	0.002	mg/kg	0.200	0.001	94.9	70-130			
2-Methylnaphthalene	0.190	0.002	"	0.200	0.001	94.4	70-130			
Acenaphthene	0.197	0.020	"	0.200	ND	98.7	70-130			
Anthracene	0.195	0.020	"	0.200	0.002	96.8	70-130			
Benzo (a) anthracene	0.196	0.005	"	0.200	0.0005	97.8	70-130			
Benzo (a) pyrene	0.195	0.020	"	0.200	0.001	97.0	70-130			
Benzo (b) fluoranthene	0.189	0.020	"	0.200	0.0004	94.1	70-130			
Benzo (g,h,i) perylene	0.200	0.020	"	0.200	0.0009	99.6	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 - Nakagawa PM B13-16

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 B4E0739 - EPA 3580

Matrix Spike (B4E0739-MS1)	Source: Y405143-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
Benzo (k) fluoranthene	0.181	0.020	mg/kg	0.200	ND	90.4	70-130			
Chrysene	0.195	0.020	"	0.200	ND	97.3	70-130			
Dibenz (a,h) anthracene	0.225	0.020	"	0.200	ND	112	70-130			
Fluoranthene	0.201	0.020	"	0.200	ND	100	70-130			
Fluorene	0.200	0.020	"	0.200	ND	100	70-130			
Indeno (1,2,3-cd) pyrene	0.197	0.020	"	0.200	ND	98.5	70-130			
Naphthalene	0.199	0.002	"	0.200	ND	99.4	70-130			
Phenanthrene	0.190	0.020	"	0.200	ND	94.9	70-130			
Pyrene	0.165	0.020	"	0.200	ND	82.3	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		100	60-130			
Surrogate: Anthracene-d10	190		"	200		96.7	60-130			
Surrogate: Pyrene-d10	170		"	200		83.0	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.3	60-130			

Matrix Spike Dup (B4E0739-MSD1)	Source: Y405143-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
1-Methylnaphthalene	0.193	0.002	mg/kg	0.200	0.001	95.8	70-130	0.968	20	
2-Methylnaphthalene	0.193	0.002	"	0.200	0.001	96.2	70-130	1.81	20	
Acenaphthene	0.199	0.020	"	0.200	ND	99.7	70-130	1.02	20	
Anthracene	0.197	0.020	"	0.200	0.002	97.9	70-130	1.04	20	
Benzo (a) anthracene	0.188	0.005	"	0.200	0.0005	93.7	70-130	4.27	20	
Benzo (a) pyrene	0.191	0.020	"	0.200	0.001	95.0	70-130	2.03	20	
Benzo (b) fluoranthene	0.188	0.020	"	0.200	0.0004	94.0	70-130	0.162	20	
Benzo (g,h,i) perylene	0.207	0.020	"	0.200	0.0009	103	70-130	3.53	20	
Benzo (k) fluoranthene	0.175	0.020	"	0.200	ND	87.7	70-130	3.02	20	
Chrysene	0.190	0.020	"	0.200	ND	95.0	70-130	2.37	20	
Dibenz (a,h) anthracene	0.241	0.020	"	0.200	ND	121	70-130	7.04	20	
Fluoranthene	0.202	0.020	"	0.200	ND	101	70-130	0.757	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 - Nakagawa PM B13-16

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 B4E0739 - EPA 3580

Matrix Spike Dup (B4E0739-MSD1)	Source: Y405143-01			Prepared: 05/07/2024 Analyzed: 05/10/2024						
Fluorene	0.203	0.020	mg/kg	0.200	ND	102	70-130	1.62	20	
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.200	ND	107	70-130	8.14	20	
Naphthalene	0.202	0.002	"	0.200	ND	101	70-130	1.54	20	
Phenanthrene	0.192	0.020	"	0.200	ND	96.2	70-130	1.40	20	
Pyrene	0.167	0.020	"	0.200	ND	83.5	70-130	1.49	20	
Surrogate: Fluorene-d10	200		ug/kg	200		101	60-130			
Surrogate: Anthracene-d10	190		"	200		96.0	60-130			
Surrogate: Pyrene-d10	170		"	200		82.8	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		98.1	60-130			

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0712 - DTPA Sorbitol Preparation

Blank (B4E0712-BLK1)

Prepared: 05/07/2024 Analyzed: 05/10/2024

Boron ND 0.100 mg/L

Duplicate (B4E0712-DUP1)

Source: Y405140-02

Prepared: 05/07/2024 Analyzed: 05/10/2024

Boron 0.539 0.101 mg/L 0.515 4.60 50

Batch B4E0717 - Saturated Paste Metals

Blank (B4E0717-BLK1)

Prepared: 05/07/2024 Analyzed: 05/08/2024

SAR ND 0.0100 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B4E0717-DUP1)

Source: Y405158-02

Prepared: 05/07/2024 Analyzed: 05/08/2024

Calcium PPM 36.4 10.0 mg/L 33.1 9.41 50

SAR ND 0.0100 SAR 1.16 200

Magnesium PPM 14.1 10.0 mg/L 12.5 11.7 50

Sodium PPM 33.9 10.0 " 30.8 9.43 50

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

Chelsea Veryser
 Project Number: [none]
 Project: Chevron - Nakagawa PM B13-16

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 B4E0722 - Saturated Paste pH/EC

Blank (B4E0722-BLK1)

Prepared: 05/07/2024 Analyzed: 05/08/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E0722-DUP1)

Source: Y405158-02

Prepared: 05/07/2024 Analyzed: 05/08/2024

Specific Conductance (EC)	0.562	0.00500	mmhos/cm	0.461	19.7	25
pH	8.19		pH Units	8.15	0.490	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 - Nakagawa PM B13-16

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 2609801 - SW846 3060A										
BLANK (1205729069-BLK)					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.242	mg/kg				-			U
LCS (1205729070-BKS)					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	3.06	0.297	mg/kg	2.97		103	80-120			
DUP (1205729071 D)					Source: 666556001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.327	mg/kg dry		<0.131		0-50	N/A	50	U
MS (1205729072 S)					Source: 666556001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	2.76	0.327	mg/kg dry	3.27	<0.131	81.8	75-125			
DUP (1205729073 D)					Source: 666603001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	ND	0.350	mg/kg dry		<0.140		0-50	N/A	50	U
MS (1205729074 S)					Source: 666603001 Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	2.49	0.350	mg/kg dry	3.50	<0.140	69.6	75-125			
ILCS (1205729075-ILCS)					Prepared: 05/13/2024 Analyzed: 05/14/2024					
Hexavalent Chromium	5.76	0.268	mg/kg	5.57			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 - Nakagawa PM B13-16

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

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

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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