



Facility Closure Investigation and Environmental Summary

Novacek C28-27D Wellhead

ECMC Remediation Project #34736

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

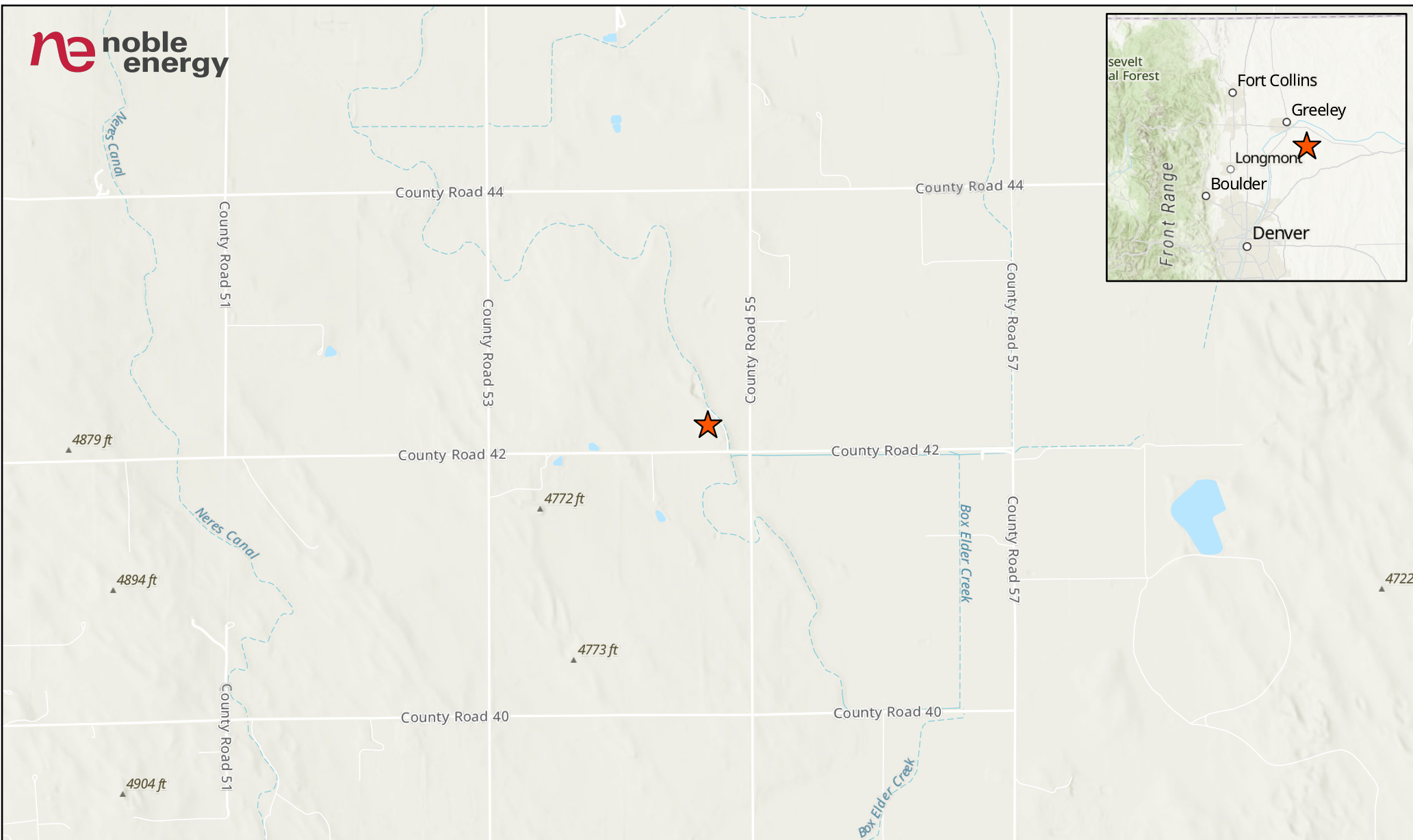
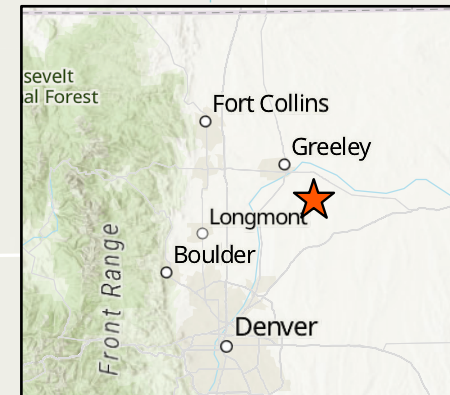
Table 5 – Soil Analytical Results Summary Table – Metals

Attachment A: Photographic Log

Attachment B: Facility Closure Checklists

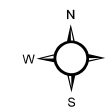
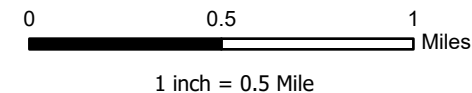
Attachment C: Laboratory Analytical Reports

FIGURES



LEGEND

★ Site Location



Project No: 024-214

Map By: JW

Date: 07/25/2024

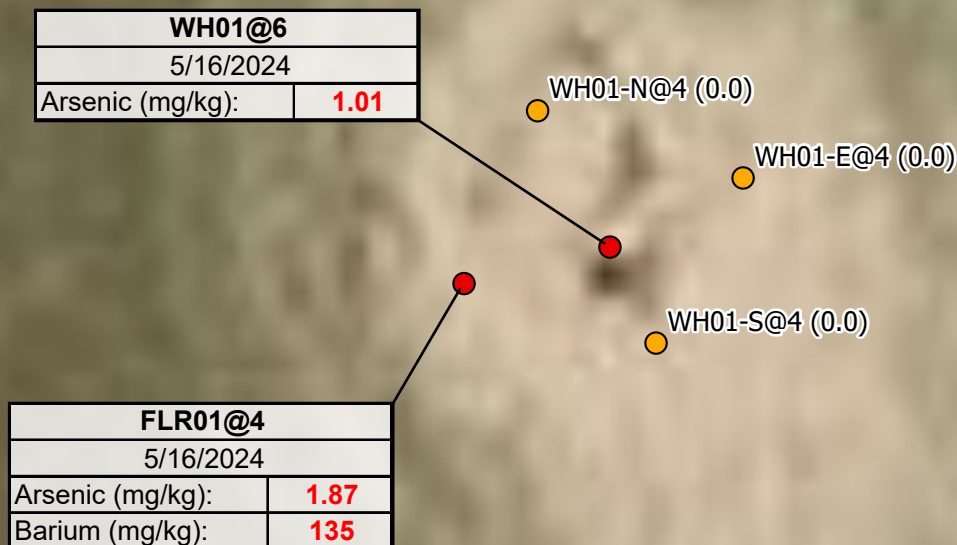
**NOVACEK C28-27D WELLHEAD
GENERAL LOCATION MAP**
NOBLE ENERGY
SE 1/4 SE 1/4 SECTION 21
T4N R64W, 6TH PM
WELD COUNTY, COLORADO



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

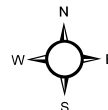
Legend

● 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: 024-214

Map By: JW

Date: 07/25/2024

NOVACEK C28-27D WELLHEAD
SOIL SAMPLE AND FIELD SCREENING LOCATIONS
 NOBLE ENERGY
 SE 1/4 SE 1/4 SECTION 21
 T4N R64W, 6TH PM
 WELD COUNTY, COLORADO



1843 Sunlight Drive
 Longmont, CO 80504
 303.378.4036

Figure

2

TABLES

TABLE 1
FIELD DATA SUMMARY TABLE
NOBLE 100322
NOVACEK C28-27D WELLHEAD, WELD COUNTY, COLORADO
REM # 34736

Sample ID	Sample Date	Depth (ft-bgs)	GPS Data Latitude/Longitude		VOC Concentration (ppm)
WH01@6	5/16/2024	6	40.292229	-104.549413	0.0
FLR01@4	5/16/2024	4	40.292224	-104.549440	0.0
WH01-N@4	5/16/2024	4	40.292248	-104.549426	0.0
WH01-S@4	5/16/2024	4	40.292215	-104.549404	0.0
WH01-E@4	5/16/2024	4	40.292238	-104.549388	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
NOVACEK C28-27D WELLHEAD, WELD COUNTY, COLORADO
REM # 34736

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	5/16/2024	6	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100
FLR01@4	5/16/2024	4	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<0.002	<125.200	<0.200	<25.0	<100

1. Grey highlighted soil analytical values indicate result is less than laboratory reporting limit
2. ** Summation of GRO+DRO+ORO must be less than 500 mg/kg
ft-bgs = feet below ground surface
mg/kg - milligrams per kilogram

TABLE 3
SUMMARY OF POLYCYCLIC AROMATIC HYDROCARBON SOIL CHEMISTRY DATA
NOBLE 100322
NOVACEK C28-27D WELLHEAD, WELD COUNTY, COLORADO
REM # 34736

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	5/16/2024	6	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.002	<0.002
FLR01@4	5/16/2024	4	<0.020	<0.020	<0.005	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<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
NOVACEK C28-27D WELLHEAD, WELD COUNTY, COLORADO
REM # 34736

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	5/16/2024	6	8.10	0.408	0.975	<0.100
FLR01@4	5/16/2024	4	8.30	0.389	0.294	0.0993

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
NOVACEK C28-27D WELLHEAD, WELD COUNTY, COLORADO
REM # 34736

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	5/16/2024	6	1.01	49.4	<0.0905	<0.314*	<9.05	2.99	1.48	<0.235	<0.0905	<33.5
FLR01@4	5/16/2024	4	1.87	135	<0.0860	<0.332*	<8.60	4.99	3.37	<0.224	<0.0860	<31.8

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

Novacek C28-27D Wellhead Photographic Log



Novacek C28-27D Wellhead Photographic Log



Novacek C28-27D Wellhead Photographic Log



Novacek C28-27D 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
Site Name & COGCC Facility Number: Novacek C28-27D, 426071		Date: 05/16/2024				Remediation Project #: 34736
Associated Wells: NA		Age of Site: 02/10/2012- spud date				Number of Photos Attached: 4
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.292230 / -104.549400					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	05-123-34562					
Age	2/10/2012- 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, FLR01@4					
Photo Number(s)	1-4					
Other observations regarding wellheads:						
Summary						
Was impacted soil identified?						
<input checked="" type="checkbox"/> No		Yes - less than 10 cubic yards		Yes - more than 10 cubic yards		
Total number of samples field screened: 5				Total number of samples collected: 5		
Highest PID Reading: 0.0 ppm				Total number of samples submitted to lab for analysis: 2		
If more than 10 cubic yards of impacted soil were observed:						
Vertical extent:				Estimated spill volume:		
Lateral extent:				Volume of soil removed:		
Is additional investigation required?						
Was groundwater encountered during the investigation?						
<input checked="" type="checkbox"/> No		Yes - not impacted or in contact with impacted soils		Yes - groundwater impacted and/or in contact with impacted soils		
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No		
Date Groundwater was encountered:				Commencement date of removal:		
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:		
Free product observed? Yes No				Volume of groundwater removed post sampling:		
Total number of samples collected:				Total Volume of groundwater removed:		
Total number of samples submitted to lab for analysis:						

ATTACHMENT C
LABORATORY ANALYTICAL REPORTS



July 01, 2024

Entrada Consulting Group

Chelsea Veryser

330 Grand Ave. Unit C

Grand Junction CO 81501

Project Name - Chevron - Novacek C28-27D

Project Number - [none]

Attached are your analytical results for Chevron - Novacek C28-27D received by Origins Laboratory, Inc. May 17, 2024. This project is associated with Origins project number Y405577-01.

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 - Novacek C28-27D

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH01@6	Y405577-01	Soil	May 16, 2024 13:00	05/17/2024 16:04
FLR01@4	Y405577-02	Soil	May 16, 2024 13:05	05/17/2024 16:04

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 - Novacek C28-27D

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

ORIGINS

LABORATORY, INC

www.originslaboratory.com

Call to daren
(Dusty Smith) 1405577 page 1 of 1

Client: Entrada

Address:

Telephone Number: 303.514.8703

Email Address: Entrada Distribution CC: RRB@entrada.com

Project Manager: Chelsea Veryser

Project Name: Novacek C28-27D

Project Number:

Samples Collected By: Stan Lohr

Sample ID Description	Date Sampled	Time Sampled	# of Containers	Preservative			Matrix			Analysis			Sample Instructions
				Unpreserved	HCl	HNO ₃	Other	Groundwater	Soil	Air Summa Canister #	Other	Table 9/15	
WH01P6	5/16/24	1300	2	X									1
ELR0104		1305											2
WH01-N09		1310											3
WH01-E04		1315											4
WH01-S04		1320											5
													6
													7
													8
													9
													10

Temp Received- 15.3

Date Results Needed

Relinquished By:	Date:	Time:	Received By:	Date:	Time:	Turnaround Time:
<u>[Signature]</u>	<u>5/17/24</u>	<u>1400</u>	<u>SA</u>	<u>5/17/24</u>	<u>1400</u>	Same Day <input type="checkbox"/> 24 Hr <input type="checkbox"/> 48 Hr <input type="checkbox"/> 72 Hr <input type="checkbox"/> Standard <input checked="" type="checkbox"/>
<u>SA</u>	<u>5/17/24</u>	<u>1600</u>	<u>[Signature]</u>	<u>5/17/24</u>	<u>1600</u>	

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 - Novacek C28-27D

Origins Laboratory

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

Sample Receipt Checklist

Origins Work Order: 1405577

Client: Entrada

Client Project ID: Novacek C28-27D

Checklist Completed by: SA ICHD

Shipped Via: HD

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

Date/time completed: 5/17/12

Airbill #: N/A

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

Cooler Number/Temperature: 1 15.3°C 1°C 1°C (Describe)

Thermometer ID: TOOS

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"/>		
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) [Signature]

Date/Time Reviewed 5/20/12

Origins Laboratory, Inc.

[Signature]

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

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

Chelsea Veryser
Project Number: [none]
Project: Chevron - Novacek C28-27D

WH01@6
5/16/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-01 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	ND	0.100	mg/L	1	B4E2108	ACC	05/21/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2002	ZZZ	05/20/2024	05/22/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	Ua

Surrogate: o-Terphenyl	82.7 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2027	HK	05/20/2024	05/20/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	Ua
Benzene	ND	0.00200	"	"	"	HK	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	Ua
Toluene	ND	0.00200	"	"	"	HK	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130			"	"	"	
Surrogate: Toluene-d8	103 %	70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	99.2 %	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 - Novacek C28-27D

WH01@6
5/16/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-01 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	2.26	0.499	meq/L	10	[CALC]	ACC	05/21/2024	05/23/2024
Magnesium	ND	0.823	"	"	"	ACC	"	"
Sodium	1.14	0.435	"	"	"	ACC	"	"

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2033	agilent	05/20/2024	05/21/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	agilent	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	agilent	"	"	Ua
Anthracene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	agilent	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Chrysene	ND	0.020	"	"	"	agilent	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agilent	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Fluorene	ND	0.020	"	"	"	agilent	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agilent	"	"	Ua
Naphthalene	ND	0.002	"	"	"	agilent	"	"	Ua
Pyrene	ND	0.020	"	"	"	agilent	"	"	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 - Novacek C28-27D

WH01@6
5/16/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-01 (Soil)
Origins Laboratory, Inc.

PAH by EPA 8270E

Surrogate: Fluorene-d10	98.5 %	60-130			B4E20 33		05/20/2024	05/21/2024	
Surrogate: Anthracene-d10	102 %	60-130			"		"	"	
Surrogate: Pyrene-d10	105 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	100 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.10		pH Units	1	B4E2121	EAL	05/21/2024	05/22/2024	
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SAR by 20B Saturated Paste

SAR	0.975	0.0100	SAR	1	B4E2115	ACC	05/21/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.408	0.00500	mmhos/cm	1	B4E2121	EAL	05/21/2024	05/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.01	0.262	mg/kg	10	B4E1749	KMC	05/20/2024	05/21/2024	
Barium	49.4	9.05	"	"	"	KMC	"	"	
Cadmium	ND	0.0905	"	"	"	KMC	"	"	
Copper	ND	9.05	"	"	"	KMC	"	"	
Lead	2.99	0.905	"	"	"	KMC	"	"	
Nickel	1.48	0.905	"	"	"	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 - Novacek C28-27D

WH01@6

5/16/2024 1:00:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-01 (Soil)

Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Selenium	ND	0.235	mg/kg	10	B4E1749	KMC	05/20/2024	05/21/2024	
Silver	ND	0.0905	"	"	"	KMC	"	"	
Zinc	ND	33.5	"	"	"	KMC	"	"	

GEL Laboratories, LLC

Total Metals 7196A

Hexavalent Chromium	ND	0.314	mg/kg dry	1	2620905	HH2	06/04/2024	06/06/2024	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 - Novacek C28-27D

FLR01@4
5/16/2024 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-02 (Soil)
Origins Laboratory, Inc.

Boron (DTPA Sorbitol)

Boron	0.0993	0.0993	mg/L	1	B4E2108	ACC	05/21/2024	05/22/2024	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B4E2002	ZZZ	05/20/2024	05/22/2024	Ua
Residual Range Organics (C28-C40)	ND	100	"	"	"	ZZZ	"	"	Ua

Surrogate: o-Terphenyl	84.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B4E2027	HK	05/20/2024	05/20/2024	Ua
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	HK	"	"	Ua
Benzene	ND	0.00200	"	"	"	HK	"	"	Ua
Ethylbenzene	ND	0.00200	"	"	"	HK	"	"	Ua
Toluene	ND	0.00200	"	"	"	HK	"	"	Ua
Xylenes, total	ND	0.00200	"	"	"	HK	"	"	Ua
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	HK	"	"	Ua

Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130			"	"	"
Surrogate: Toluene-d8	103 %	70-130			"	"	"
Surrogate: 4-Bromofluorobenzene	97.8 %	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 - Novacek C28-27D

FLR01@4
5/16/2024 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-02 (Soil)
Origins Laboratory, Inc.

Metals by Saturated Paste by EPA 6010

Calcium	2.65	0.499	meq/L	10	[CALC]	ACC	05/21/2024	05/23/2024	
Magnesium	ND	0.823	"	"	"	ACC	"	"	
Sodium	ND	0.435	"	"	"	ACC	"	"	

PAH by EPA 8270E

1-Methylnaphthalene	ND	0.002	mg/kg	1	B4E2033	agilent	05/20/2024	05/21/2024	Ua
2-Methylnaphthalene	ND	0.002	"	"	"	agilent	"	"	Ua
Acenaphthene	ND	0.020	"	"	"	agilent	"	"	Ua
Anthracene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (a) anthracene	ND	0.005	"	"	"	agilent	"	"	Ua
Benzo (a) pyrene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (b) fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Benzo (k) fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Chrysene	ND	0.020	"	"	"	agilent	"	"	Ua
Dibenz (a,h) anthracene	ND	0.020	"	"	"	agilent	"	"	Ua
Fluoranthene	ND	0.020	"	"	"	agilent	"	"	Ua
Fluorene	ND	0.020	"	"	"	agilent	"	"	Ua
Indeno (1,2,3-cd) pyrene	ND	0.020	"	"	"	agilent	"	"	Ua
Naphthalene	ND	0.002	"	"	"	agilent	"	"	Ua
Pyrene	ND	0.020	"	"	"	agilent	"	"	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 - Novacek C28-27D

FLR01@4

5/16/2024 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-02 (Soil)

Origins Laboratory, Inc.

PAH by EPA 8270E

Surrogate: Fluorene-d10	99.7 %	60-130			B4E20 33		05/20/2024	05/21/2024	
Surrogate: Anthracene-d10	95.7 %	60-130			"		"	"	
Surrogate: Pyrene-d10	94.9 %	60-130			"		"	"	
Surrogate: Benzo (a) pyrene-d12	98.0 %	60-130			"		"	"	

pH in Soil by 9045D

pH	8.30		pH Units	1	B4E2121	EAL	05/21/2024	05/22/2024	
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SAR by 20B Saturated Paste

SAR	0.294	0.0100	SAR	1	B4E2115	ACC	05/21/2024	05/23/2024	
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.389	0.00500	mmhos/cm	1	B4E2121	EAL	05/21/2024	05/22/2024	
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Table 915 metals by EPA 6020B

Arsenic	1.87	0.249	mg/kg	10	B4E1749	KMC	05/20/2024	05/21/2024	
Barium	135	8.60	"	"	"	KMC	"	"	
Cadmium	ND	0.0860	"	"	"	KMC	"	"	
Copper	ND	8.60	"	"	"	KMC	"	"	
Lead	4.99	0.860	"	"	"	KMC	"	"	
Nickel	3.37	0.860	"	"	"	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 - Novacek C28-27D

FLR01@4

5/16/2024 1:05:00PM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Y405577-02 (Soil)

Origins Laboratory, Inc.

Table 915 metals by EPA 6020B

Selenium	ND	0.224	mg/kg	10	B4E1749	KMC	05/20/2024	05/21/2024	
Silver	ND	0.0860	"	"	"	KMC	"	"	
Zinc	ND	31.8	"	"	"	KMC	"	"	

GEL Laboratories, LLC

Total Metals 7196A

Hexavalent Chromium	ND	0.332	mg/kg dry	1	2620905	HH2	06/04/2024	06/06/2024	U
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Origins Laboratory, Inc.



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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Novacek C28-27D

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 B4E2002 - EPA 3550B

Blank (B4E2002-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	ND	25.0	mg/kg							Ua
Residual Range Organics (C28-C40)	ND	100	"							Ua
Surrogate: o-Terphenyl	20		"	24.9		81.2	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 - Novacek C28-27D

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 B4E2002 - EPA 3550B

LCS (B4E2002-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Diesel (C10-C28)	863	50.0	mg/kg	1000		86.3	70-130			
Residual Range Organics (C28-C40)	949	200	"	1000		94.9	70-130			
Surrogate: o-Terphenyl	51		"	49.8		102	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 - Novacek C28-27D

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 B4E2002 - EPA 3550B

Matrix Spike (B4E2002-MS1)		Source: Y405574-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Diesel (C10-C28)	885	50.0	mg/kg	1000	ND	88.5	70-130			
Residual Range Organics (C28-C40)	995	200	"	1000	ND	99.5	70-130			
Surrogate: o-Terphenyl	52		"	49.8		104	50-150			

Origins Laboratory, Inc.



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330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Novacek C28-27D

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 B4E2002 - EPA 3550B

Matrix Spike Dup (B4E2002-MSD1)		Source: Y405574-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Diesel (C10-C28)	792	50.0	mg/kg	1000	ND	79.2	70-130	11.1	35	
Residual Range Organics (C28-C40)	898	200	"	1000	ND	89.8	70-130	10.2	35	
Surrogate: o-Terphenyl	47		"	49.8		93.6	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 - Novacek C28-27D

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 B4E2027 - EPA 5030 (soil)										
Blank (B4E2027-BLK1)					Prepared: 05/20/2024 Analyzed: 05/20/2024					
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		95.4	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		99.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.081		"	0.125		64.6	70-130			S-GC

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 - Novacek C28-27D

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 B4E2027 - EPA 5030 (soil)

LCS (B4E2027-BS1)

Prepared: 05/20/2024 Analyzed: 05/20/2024

1,2,4-Trimethylbenzene	0.111	0.00200	mg/kg	0.100		111	70-130			
1,3,5-Trimethylbenzene	0.110	0.00200	"	0.100		110	70-130			
Benzene	0.111	0.00200	"	0.100		111	70-130			
Ethylbenzene	0.109	0.00200	"	0.100		109	70-130			
Naphthalene	0.107	0.00380	"	0.100		107	70-130			
Toluene	0.112	0.00200	"	0.100		112	70-130			
o-Xylene	0.111	0.00200	"	0.100		111	70-130			
m,p-Xylene	0.215	0.00400	"	0.200		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		101	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		95.8	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 - Novacek C28-27D

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 B4E2027 - EPA 5030 (soil)

Matrix Spike (B4E2027-MS1)		Source: Y405557-01			Prepared: 05/20/2024 Analyzed: 05/20/2024					
1,2,4-Trimethylbenzene	0.108	0.00200	mg/kg	0.100	ND	108	70-130			
1,3,5-Trimethylbenzene	0.107	0.00200	"	0.100	ND	107	70-130			
Benzene	0.107	0.00200	"	0.100	ND	107	70-130			
Ethylbenzene	0.108	0.00200	"	0.100	ND	108	70-130			
Naphthalene	0.104	0.00380	"	0.100	ND	104	70-130			
Toluene	0.108	0.00200	"	0.100	ND	108	70-130			
o-Xylene	0.109	0.00200	"	0.100	ND	109	70-130			
m,p-Xylene	0.218	0.00400	"	0.200	ND	109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.0	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		99.0	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 - Novacek C28-27D

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 B4E2027 - EPA 5030 (soil)

Matrix Spike Dup (B4E2027-MSD1)		Source: Y405557-01			Prepared: 05/20/2024 Analyzed: 05/20/2024					
1,2,4-Trimethylbenzene	0.106	0.00200	mg/kg	0.100	ND	106	70-130	1.93	20	
1,3,5-Trimethylbenzene	0.105	0.00200	"	0.100	ND	105	70-130	1.94	20	
Benzene	0.107	0.00200	"	0.100	ND	107	70-130	0.392	20	
Ethylbenzene	0.109	0.00200	"	0.100	ND	109	70-130	0.899	20	
Naphthalene	0.103	0.00380	"	0.100	ND	103	70-130	0.617	20	
Toluene	0.108	0.00200	"	0.100	ND	108	70-130	0.0185	20	
o-Xylene	0.111	0.00200	"	0.100	ND	111	70-130	1.60	20	
m,p-Xylene	0.221	0.00400	"	0.200	ND	110	70-130	1.09	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		95.5	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		101	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 - Novacek C28-27D

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 B4E1749 - EPA 3050B

Blank (B4E1749-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

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 (B4E1749-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Arsenic	5.38	0.290	mg/kg	5.00	108	80-120
Barium	551	10.0	"	500	110	80-120
Cadmium	5.62	0.100	"	5.00	112	80-120
Copper	52.5	10.0	"	50.0	105	80-120
Lead	5.25	1.00	"	5.00	105	80-120
Nickel	4.44	1.00	"	5.00	88.7	80-120
Selenium	9.77	0.260	"	9.50	103	80-120
Silver	5.41	0.100	"	5.00	108	80-120
Zinc	52.8	37.0	"	50.0	106	80-120

Matrix Spike (B4E1749-MS1)

Source: Y405563-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

Origins Laboratory, Inc.



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

Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Novacek C28-27D

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 B4E1749 - EPA 3050B

Matrix Spike (B4E1749-MS1)		Source: Y405563-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Arsenic	7.06	0.262	mg/kg	4.52	1.72	118	75-125			
Barium	549	9.04	"	452	43.2	112	75-125			
Cadmium	5.05	0.0904	"	4.52	0.0686	110	75-125			
Copper	52.5	9.04	"	45.2	3.86	108	75-125			
Lead	10.5	0.904	"	4.52	6.15	95.5	75-125			
Nickel	8.36	0.904	"	4.52	3.34	111	75-125			
Selenium	8.44	0.235	"	8.59	0.0703	97.4	75-125			
Silver	4.90	0.0904	"	4.52	0.0137	108	75-125			
Zinc	69.1	33.5	"	45.2	16.6	116	75-125			
Matrix Spike Dup (B4E1749-MSD1)		Source: Y405563-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Arsenic	6.40	0.253	mg/kg	4.37	1.72	107	75-125	9.74	20	
Barium	525	8.74	"	437	43.2	110	75-125	4.33	20	
Cadmium	4.81	0.0874	"	4.37	0.0686	108	75-125	4.98	20	
Copper	50.1	8.74	"	43.7	3.86	106	75-125	4.74	20	
Lead	10.8	0.874	"	4.37	6.15	105	75-125	2.62	20	
Nickel	7.82	0.874	"	4.37	3.34	103	75-125	6.68	20	
Selenium	8.62	0.227	"	8.30	0.0703	103	75-125	2.10	20	
Silver	4.65	0.0874	"	4.37	0.0137	106	75-125	5.20	20	
Zinc	64.2	32.3	"	43.7	16.6	109	75-125	7.34	20	

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Entrada Consulting Group

330 Grand Ave. Unit C

Grand Junction CO 81501

Chelsea Veryser

Project Number: [none]

Project: Chevron - Novacek C28-27D

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 B4E2033 - EPA 3580

Blank (B4E2033-BLK1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

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	99.2	60-130
Surrogate: Anthracene-d10	200		"	200	102	60-130
Surrogate: Pyrene-d10	200		"	200	101	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200	99.4	60-130

LCS (B4E2033-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.207	0.002	mg/kg	0.200	104	70-130
2-Methylnaphthalene	0.209	0.002	"	0.200	104	70-130
Acenaphthene	0.210	0.020	"	0.200	105	70-130
Anthracene	0.211	0.020	"	0.200	105	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 - Novacek C28-27D

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 B4E2033 - EPA 3580

LCS (B4E2033-BS1)

Prepared: 05/20/2024 Analyzed: 05/21/2024

Benzo (a) anthracene	0.221	0.005	mg/kg	0.200		111	70-130
Benzo (a) pyrene	0.217	0.020	"	0.200		109	70-130
Benzo (b) fluoranthene	0.223	0.020	"	0.200		111	70-130
Benzo (g,h,i) perylene	0.214	0.020	"	0.200		107	70-130
Benzo (k) fluoranthene	0.208	0.020	"	0.200		104	70-130
Chrysene	0.214	0.020	"	0.200		107	70-130
Dibenz (a,h) anthracene	0.221	0.020	"	0.200		110	70-130
Fluoranthene	0.205	0.020	"	0.200		102	70-130
Fluorene	0.214	0.020	"	0.200		107	70-130
Indeno (1,2,3-cd) pyrene	0.218	0.020	"	0.200		109	70-130
Naphthalene	0.209	0.002	"	0.200		104	70-130
Phenanthrene	0.210	0.020	"	0.200		105	70-130
Pyrene	0.210	0.020	"	0.200		105	70-130
Surrogate: Fluorene-d10	210		ug/kg	200		107	60-130
Surrogate: Anthracene-d10	200		"	200		99.2	60-130
Surrogate: Pyrene-d10	200		"	200		98.5	60-130
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	60-130

Matrix Spike (B4E2033-MS1)

Source: Y405567-01

Prepared: 05/20/2024 Analyzed: 05/21/2024

1-Methylnaphthalene	0.221	0.002	mg/kg	0.200	ND	111	70-130
2-Methylnaphthalene	0.221	0.002	"	0.200	ND	110	70-130
Acenaphthene	0.213	0.020	"	0.200	ND	107	70-130
Anthracene	0.231	0.020	"	0.200	ND	115	70-130
Benzo (a) anthracene	0.222	0.005	"	0.200	ND	111	70-130
Benzo (a) pyrene	0.219	0.020	"	0.200	ND	110	70-130
Benzo (b) fluoranthene	0.219	0.020	"	0.200	ND	110	70-130
Benzo (g,h,i) perylene	0.204	0.020	"	0.200	0.0006	101	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 - Novacek C28-27D

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 B4E2033 - EPA 3580

Matrix Spike (B4E2033-MS1)		Source: Y405567-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Benzo (k) fluoranthene	0.189	0.020	mg/kg	0.200	0.0005	94.4	70-130			
Chrysene	0.221	0.020	"	0.200	ND	110	70-130			
Dibenz (a,h) anthracene	0.208	0.020	"	0.200	0.0009	104	70-130			
Fluoranthene	0.212	0.020	"	0.200	ND	106	70-130			
Fluorene	0.213	0.020	"	0.200	ND	107	70-130			
Indeno (1,2,3-cd) pyrene	0.206	0.020	"	0.200	ND	103	70-130			
Naphthalene	0.214	0.002	"	0.200	ND	107	70-130			
Phenanthrene	0.218	0.020	"	0.200	ND	109	70-130			
Pyrene	0.212	0.020	"	0.200	ND	106	70-130			
Surrogate: Fluorene-d10	200		ug/kg	200		97.6	60-130			
Surrogate: Anthracene-d10	200		"	200		99.1	60-130			
Surrogate: Pyrene-d10	190		"	200		95.0	60-130			
Surrogate: Benzo (a) pyrene-d12	190		"	200		97.4	60-130			

Matrix Spike Dup (B4E2033-MSD1)		Source: Y405567-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
1-Methylnaphthalene	0.205	0.002	mg/kg	0.200	ND	103	70-130	7.66	20	
2-Methylnaphthalene	0.211	0.002	"	0.200	ND	106	70-130	4.41	20	
Acenaphthene	0.209	0.020	"	0.200	ND	105	70-130	1.85	20	
Anthracene	0.227	0.020	"	0.200	ND	113	70-130	1.77	20	
Benzo (a) anthracene	0.215	0.005	"	0.200	ND	108	70-130	2.95	20	
Benzo (a) pyrene	0.211	0.020	"	0.200	ND	105	70-130	3.93	20	
Benzo (b) fluoranthene	0.214	0.020	"	0.200	ND	107	70-130	2.35	20	
Benzo (g,h,i) perylene	0.197	0.020	"	0.200	0.0006	98.3	70-130	3.17	20	
Benzo (k) fluoranthene	0.174	0.020	"	0.200	0.0005	86.5	70-130	8.69	20	
Chrysene	0.200	0.020	"	0.200	ND	99.9	70-130	9.95	20	
Dibenz (a,h) anthracene	0.203	0.020	"	0.200	0.0009	101	70-130	2.34	20	
Fluoranthene	0.200	0.020	"	0.200	ND	99.9	70-130	5.93	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 - Novacek C28-27D

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 B4E2033 - EPA 3580

Matrix Spike Dup (B4E2033-MSD1)		Source: Y405567-01			Prepared: 05/20/2024 Analyzed: 05/21/2024					
Fluorene	0.206	0.020	mg/kg	0.200	ND	103	70-130	3.30	20	
Indeno (1,2,3-cd) pyrene	0.212	0.020	"	0.200	ND	106	70-130	3.10	20	
Naphthalene	0.208	0.002	"	0.200	ND	104	70-130	2.99	20	
Phenanthrene	0.205	0.020	"	0.200	ND	102	70-130	6.30	20	
Pyrene	0.207	0.020	"	0.200	ND	104	70-130	2.00	20	
Surrogate: Fluorene-d10	190		ug/kg	200		94.8	60-130			
Surrogate: Anthracene-d10	190		"	200		94.1	60-130			
Surrogate: Pyrene-d10	190		"	200		96.3	60-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		97.6	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 - Novacek C28-27D

Classical Chemistry Parameters - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B4E2108 - DTPA Sorbitol Preparation										
Blank (B4E2108-BLK1)					Prepared: 05/21/2024 Analyzed: 05/22/2024					
Boron	ND	0.100	mg/L							
Duplicate (B4E2108-DUP1)					Source: Y405565-01 Prepared: 05/21/2024 Analyzed: 05/22/2024					
Boron	0.183	0.0996	mg/L		0.173			6.16	50	
Batch B4E2115 - Saturated Paste Metals										
Blank (B4E2115-BLK1)					Prepared: 05/21/2024 Analyzed: 05/23/2024					
SAR	ND	0.0100	SAR							
Calcium PPM	ND	10.0	mg/L							
Magnesium PPM	ND	10.0	"							
Sodium PPM	ND	10.0	"							
Duplicate (B4E2115-DUP1)					Source: Y405565-01 Prepared: 05/21/2024 Analyzed: 05/23/2024					
Calcium PPM	39.5	10.0	mg/L		37.7			4.79	50	
SAR	ND	0.0100	SAR		0.451				200	
Magnesium PPM	9.42	10.0	mg/L		9.73			3.24	50	
Sodium PPM	12.0	10.0	"		12.0			0.417	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 - Novacek C28-27D

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 B4E2121 - Saturated Paste pH/EC

Blank (B4E2121-BLK1)

Prepared: 05/21/2024 Analyzed: 05/22/2024

Specific Conductance (EC) ND 0.00500 mmhos/cm

Duplicate (B4E2121-DUP1)

Source: Y405565-01

Prepared: 05/21/2024 Analyzed: 05/22/2024

Specific Conductance (EC)	0.348	0.00500	mmhos/cm	0.334	4.17	25
pH	8.17		pH Units	8.32	1.82	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 - Novacek C28-27D

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 2620905 - SW846 3060A										
BLANK (1205751398-BLK)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.293	mg/kg				-			U
LCS (1205751399-BKS)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.77	0.281	mg/kg	2.81		98.6	80-120			
DUP (1205751400 D)					Source: 669686001 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	0.147	0.334	mg/kg dry		0.184		0-50	22.5	50	J
MS (1205751401 S)					Source: 669686001 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	2.74	0.334	mg/kg dry	3.34	0.184	76.5	75-125			
DUP (1205751402 D)					Source: 669718002 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	ND	0.323	mg/kg dry		0.142		0-50	N/A	50	U
MS (1205751403 S)					Source: 669718002 Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	3.05	0.323	mg/kg dry	3.23	0.142	89.8	75-125			
ILCS (1205751404-ILCS)					Prepared: 06/04/2024 Analyzed: 06/06/2024					
Hexavalent Chromium	5.24	0.261	mg/kg	5.22		100	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 - Novacek C28-27D

Notes and Definitions

Ua Sample is Non-Detect.

U Result not detected above the detection limit

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

J Greater than the detection limit but less than the reporting limit

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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