

75 Suttle Street Durango, CO 81303 970.247.4220 Phone jeremy.allen@greenanalytical.com

27 February 2025

Ashley Bates Hilcorp 382 CR 3100 Aztec, NM 87410

RE: [none]

Enclosed are the results of analyses for samples received by the laboratory on 02/21/25 12:00. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Jeremy D Allen

Laboratory Director

Jerry D. all

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: TX-C25-00012

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: TX-C24-00112

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HilcorpProject:Braden Head382 CR 3100Project Name / Number:[none]Reported:Aztec NM, 87410Project Manager:Ashley Bates02/27/25 14:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Howell K Unit 4	2502221-01	Water	02/20/25 10:00	02/21/25 12:00	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

Released to Imaging: 5/5/2025 2:59:21 PM



Hilcorp Project: Braden Head
382 CR 3100 Project Name / Number: [none]
Aztec NM, 87410 Project Manager: Ashley Bates

Reported: 02/27/25 14:25

Howell K Unit 4

2502221-01 (Other)

Sampled Date: 02/20/25 10:00 Sampled By: Rick Culak

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Chloride*	379	20.0	9.94	mg/L	20	02/26/25 00:35	EPA 300.0		AWG
pH*	11.8			pH Units	1	02/26/25 08:45	EPA 150.1/9040C	H2	HIC
pH Temperature, degrees C	17.6			pH Units	1	02/26/25 08:45	EPA 150.1/9040C	H2	HIC
Sulfate*	8450	100	56.3	mg/L	100	02/26/25 09:56	EPA 300.0		AWG
Total Dissolved Solids*	13500	20.0		mg/L	2	02/25/25 17:15	EPA 160.1/SM 2540C		HIC

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Jeren S. all



Hilcorp Project: Braden Head

382 CR 3100 Project Name / Number: [none] Reported:

Aztec NM, 87410 Project Manager: Ashley Bates 02/27/25 14:25

General Chemistry - Quality Control

	D. I.	Reporting	TT '	Spike	Source	0/DEC	%REC	DDD	RPD	NT.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B250464 - General Prep - Wet Chem										
Blank (B250464-BLK1)			Prep	ared & Anal	lyzed: 02/2:	5/25				
Total Dissolved Solids	ND	10.0	mg/L							
Reference (B250464-SRM1)			Prep	ared & Anal	lyzed: 02/2:	5/25				
Total Dissolved Solids	380	10.0	mg/L	400		95.0	85-115			
Batch B250466 - IC- Ion Chromatograph										
Blank (B250466-BLK1)			Prep	ared & Anal	lyzed: 02/2:	5/25				
Chloride	ND	1.00	mg/L							
Sulfate	ND	1.00	mg/L							
LCS (B250466-BS1)			Prep	ared & Anal	lyzed: 02/2:	5/25				
Chloride	24.6	1.00	mg/L	25.0		98.5	90-110			
Sulfate	24.6	1.00	mg/L	25.0		98.4	90-110			
LCS Dup (B250466-BSD1)			Prep	ared & Anal	lyzed: 02/2:	5/25				
Chloride	25.1	1.00	mg/L	25.0		100	90-110	1.79	20	
Sulfate	25.1	1.00	mg/L	25.0		100	90-110	1.80	20	
Batch B250476 - General Prep - Wet Chem										
Reference (B250476-SRM1)			Prep	ared & Anal	lyzed: 02/20	5/25				
pH	7.06		pH Units	7.00		101	97.5-102.5			

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HilcorpProject:Braden Head382 CR 3100Project Name / Number:[none]Reported:Aztec NM, 87410Project Manager:Ashley Bates02/27/25 14:25

Notes and Definitions

H2 Sample analysis performed past hold time specified by the method.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

RL Report Limit

MDL Method Detection Limit

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Jereny D. all

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. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

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Hilcorp Project: Braden Head

382 CR 3100 Project Name / Number: [none] Reported:

Aztec NM, 87410 Project Manager: Ashley Bates 02/27/25 14:25

Qualifier Summary

<u>LabNumber</u>	Analysis	<u>Analyte</u>	Qualifier	<u>TextBody</u>
2502221-01	pH	pН	H2	Sample analysis performed past hold time specified by the method.
2502221-01	pH	pH Temperature, degrees C	H2	Sample analysis performed past hold time specified by the method.

Green Analytical Laboratories

Jereny D. all

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST FORM-006, R 8.0

75 Suttle Street
Durango, CO 81303
(970) 247-4220

	Kermanen Ex	Relinquished By:	Relinquished By:	PLEASE NOTE: GAL's liability waived unless made in writing a clic										6)	Lab I.D. 1537-771 Lab Use Only		Sampler Name (Print):	Project Name(optional):	Email Report to:	Contact Person:	Phone #:	City:	Address:	Company or Client:	Laboratories
† GAL cannot accept verbal changes. Please email changes to keceiving@greenanalytic * Chain of Custody must be signed in "Relinquished By:" as an acceptance of services	Time: 09 55	1125	12:00	PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause vertices made in writing and received by GAL within 30 days after completion of the applicable service. In no event shall GAL be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	10)	9)	8)	7)	6)	5)	4)	3)	2)	n Howell K Unit 4	Sample Name or Location		Rick Culak Run 409		Abates@Hilcorp.com	Ashley Bates	505-635-4123	Aztec State: NM Zip:	382 Road 3100, Aztec, NM 87410	Hilcorp/ East	Note: Wite-Out TM
s. Please email changes to in "Relinquished By:" as an	Received by:	Received By: KARA OO TE	Received By:	act or tort, shall be limited to the accept. In no event shall GAL be liab performance of services hereund										2/20/25 10am	Date Time	Collected						87410			or similar products cann
Faceiving@greenanalytical.com 6-1/6-3 n acceptance of services and all applicable charges.	Time 15 18:79 of	1 Time: 1/35	Tim9:200 ADDITIONAL REMARKS:	amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed ble for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by der by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.										7 1	GROUNDWATER SURFACE WATER WASTEWATER PRODUCED WATER DRINKING WATER SOIL OTHER: No preservation Nitric Acid Hydrochloric Acid Sulfuric Acid Sodium Hydroxide OTHER:	Matrix (check one) # of containers	Y Needed? J Day	וכ				Alea 4	Aroo	Bill to (if different):	Note: Wite-Out TM or similar products cannot be used on the Chain of Custody
	°C		AARKS:	ose for negligo ation, business of the above sta										?				nhead							
unn	Checked by:			nce and any interruption ited reasons											Complete API wa	ate	r ana		e, N	/ln/F	hos	pha	te	ANALYSIS	
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Y Page	Y (N)			use whats use, or loo														90400						REQUEST	
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				feemed rred by														olved							



nalytical boratories SAMPLE CONDITION RECEIPT FORM

Date/Initials of person examining contents:	0.2575 CA-
Labeled by initials:	

Client Name: Hilare	Work Order # 2502 - 271
Courier: □Fed Ex □UPS □USPS □Client ☑	Kangaroo □ Third Party □ Other
Custody Seals on Box/Cooler Present: ☐ Yes ☐ No Se	als Intact: ☐ Yes ☐ No GAL Cooler #:
Thermometer Used: #2 Samples on ice, cooling proc	cess has begun: □Yes □ No
Type of Ice: ☐ Wet ☐ Blue ☐ None Cooler Temp: Or	oserved Temp: 6-1 °C Correction Factor: 7-2 °C Final Temp: 6-3 °C
Compliance: ☐ Yes ☑ No	*Temp should be above freezing 6°C
Chain of Custody Filled Out:	□No 1.
COC Signed when Relinguished and Received:	7No. 2.
, i	
Sampler Name and Signature on COC: *Required for compliance	□No 3.
Samples arrived within hold time:	□No ^{4.}
Correct Containers Used & Intact:	3No 5.
Short Hold Time Analysis (<72hr):	□No 6-21-1
Rush Turn Around Time Requested:	No 7. 3day
Sufficient Volume:	□No 8.
pH's acceptable upon receipt, where applicable: "Yes \(\subseteq \) Not including metals bottles	ZN/A 9.
Dissolved Testing Needed:	△No 10.
Field Filtered: ☐Yes ☐No Sample Labels match COC: ☐Yes ☐	TINIO 11.
Sample Labels match COC: -Includes Date/Time/ID	
	OT .
Trip Blank Present: □Yes □No □	
Trip Blank Custody Seals Present:	
VOA's meet headspace requirement (<6mm bubbles) ☐Yes ☐No ☐	DN/A
Non-Conformance(s): □Yes	☑No 13.
Client Notification/Resolution:	
Person Contacted:	Date/Time:
Comments/Resolution:	

FORM-039, Rev 4

Page 1 of 1

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Action 438419

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	438419
	Action Type:
	[UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehlir	g TDS 13500	5/1/2025