



Hilcorp
382 Road 3100
Aztec NM, 87410

Project: Braden Head
Project Name / Number: [none]
Project Manager: David Bounds

Reported:
08/07/20 07:32

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Pierce Federal A 2E	2007286-01	Water	07/24/20 00:00	07/24/20 15:36	
Zachry 10 API#: 30-045-07727	2007286-02	Water	07/24/20 00:00	07/24/20 15:36	
Zachry 60	2007286-03	Water	07/24/20 00:00	07/24/20 15:36	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Zachry 10

2007286-02 (Produced Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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General Chemistry

Chloride*	36.9	50.0	4.43	mg/L	50	08/05/20 20:26	EPA300.0		AES
pH*	9.08			pH Units	1	07/28/20 13:10	EPA150.1	H1	VJW
Total Dissolved Solids*	3180	10.0		mg/L	1	07/29/20 10:55	EPA160.1		VJW
Sulfate*	2300	50.0	7.62	mg/L	50	08/05/20 20:26	EPA300.0		AES

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Notes and Definitions

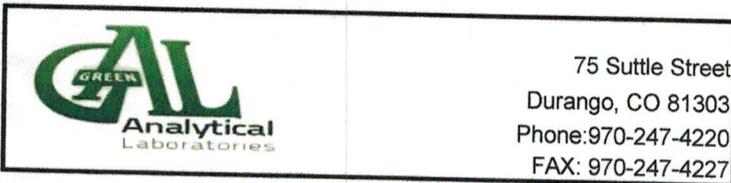
- H1 Sample was received several days after collected and subsequently analyzed past hold time.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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Client: Hilcorp	Asset: South	Phone# 505-419-3410	Contact David Bounds
Address: 9A CR# 5793, Farmington NM 87401		E-Mail Address dbounds@hilcorp.com	



CHAIN OF CUSTODY RECORD	
GAL Work Order #	
PO#	
Project Name:	

Sample Location:

- (1) BumperSpring, (2) CompressorDischarge, (3) Flowline, (4) Meter, (5) Oil Tank
 (6) PigLauncher, (7) PigReceiver, (8) Pipeline, (9) Pit Tank, (10) PostFilter, (11) PreFilter
 (12) SeparatorInlet, (13) SeparatorOutlet, (14) SeparatorDump, (15) SWDInlet
 (16) SWDOutlet, (17) TransferPump, (18) ValveCan, (19) WaterTank, (20) Wellhead
 (21) Other
- Sample Type:
- (1) Casing, (2) CO2GasTube, (3) Coupon, (4) Water, (5) H2SGasTube, (6) Metals
 (7) O2GasTube, (8) PipeSection, (9) Residual, (10) Sludge, (11) Solid, (12) Tubing, (13) Other

25.4°C
NDI cc
cc

Well Name (Sample Name)	Collection				Preservative				Analyses Required						
	Area	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y/N	Unpreserved	H2SO4	Other:	Iron and Manganese	Phosphate	Full Water API	Bradford
1. Pierce Federal A 2E	7	7/24		RS	20	4	1	N	✓						X
2. Zachry 10	7	7/24		RS	20	4	1	N	✓						X
3. Zachry 60	7	7/24		RS	20	4	1	N	✓						X
4.															
5.															
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20.															

007
286-01
-02
-03

Relinquished by: <i>[Signature]</i>	Date: 07/24/20	Time: 1536	Received By: <i>[Signature]</i>	Date: 7/24/20	Time: 1536
<i>[Signature]</i>	7/27/20	1455	Raprao Express		
Karyoo Express	7/28/20	0900	<i>[Signature]</i>		

5.6/5.7°C
on ice
laser #1