



OCD Received
8/17/2020

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www.GreenAnalytical.com

Hilcorp
382 Road 3100
Aztec NM, 87410

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

Reported:
08/17/20 09:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Pierce Federal A 2E API# 30-045-24410	2007286-01	Water	07/24/20 00:00	07/24/20 15:36	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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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Reported:
08/17/20 09:00

Client requested each of the 3 samples be reported individually. This RE report is revised and replaces the original report dated 08/07/20.

Green Analytical Laboratories

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt, Reports Manager

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

Reported:
08/17/20 09:00

Pierce Federal A 2E API# 30-045-24410

2007286-01 (Produced Water)

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

Chloride*	37.8	50.0	4.43	mg/L	50	08/05/20 20:06	EPA300.0		AES
pH*	10.9			pH Units	1	07/28/20 13:10	EPA150.1	H1	VJW
Total Dissolved Solids*	3650	10.0		mg/L	1	07/29/20 10:55	EPA160.1		VJW
Sulfate*	2440	100	15.2	mg/L	100	08/06/20 08:22	EPA300.0		AES

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Debbie Zufelt, Reports Manager

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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	

GAL Analytical Laboratories

75 Suttle Street
Durango, CO 81303
Phone: 970-247-4220
FAX: 970-247-4227

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

Collection								Preservative			Analyses Required				
Well Name (Sample Name)	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	Brackish
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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Relinquished by: <i>[Signature]</i>	Date: 072420	Time: 1536	Received By: <i>[Signature]</i>	Date: 7/24/20	Time: 1536
<i>Karyn Express</i>	7/27/20	1455	<i>Rafaelo Lopez</i>		
	7/28/20	0900	<i>Clara Bui</i>		

5.6/5.7°C
on ice
laser #1