



NMOCD REC'D
9/23/20

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22 September 2020

David Bounds

Hilcorp

382 Road 3100

Aztec, NM 87410

RE: Braden Head Zachry 48 - API 3004525608

Enclosed are the results of analyses for samples received by the laboratory on 09/17/20 15:35.
If you need any further assistance, please feel free to contact me.

Sincerely,

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

Debbie Zufelt

Reports Manager

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.

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.



| | | |
|---|--|------------------------------------|
| Hilcorp 382 Road 3100 Aztec NM, 87410 | Project: Braden Head Project Name / Number: [none] Project Manager: David Bounds | Reported: 09/22/20 16:48 |
|---|--|------------------------------------|

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received | Notes |
|-----------|---------------|--------|----------------|----------------|-------|
| Zachry 48 | 2009210-01 | Water | 09/16/20 00:00 | 09/17/20 15:35 | Q1 |

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.



| | | |
|---|--|------------------------------------|
| Hilcorp 382 Road 3100 Aztec NM, 87410 | Project: Braden Head Project Name / Number: [none] Project Manager: David Bounds | Reported: 09/22/20 16:48 |
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Zachry 48

2009210-01 (Water)

| Analyte | Result | RL | MDL | Units | Dilution | Analyzed | Method | Notes | Analyst |
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|
|---------|--------|----|-----|-------|----------|----------|--------|-------|---------|

General Chemistry

| | | | | | | | | | |
|-------------------------|-------|-----|------|----------|-----|----------------|----------|----|-----|
| Chloride* | 315 | 500 | 44.3 | mg/L | 500 | 09/22/20 06:32 | EPA300.0 | | AES |
| pH* | 12.9 | | | pH Units | 1 | 09/18/20 14:05 | EPA150.1 | H1 | VJW |
| Total Dissolved Solids* | 23600 | 100 | | mg/L | 10 | 09/18/20 16:47 | EPA160.1 | | VJW |
| Sulfate* | 7490 | 500 | 76.2 | mg/L | 500 | 09/22/20 06:32 | EPA300.0 | | AES |

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ASAP Rush

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



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CHAIN OF CUSTODY RECORD

GAL Work Order # 2009-210,01
 PO# _____
 Project Name: _____

17.2°C
 cooler

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

| 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 | |
| 1. Zachry 48 | 7 | 9/16 | | PH | 20 | 4 | 1 | N | K | | | | | | X Broken well |
| 2. | | | | | | | | | | | | | | | |
| 3. | | | | | | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | |
| 11. | | | | | | | | | | | | | | | |
| 12. | | | | | | | | | | | | | | | |
| 13. | | | | | | | | | | | | | | | |
| 14. | | | | | | | | | | | | | | | |
| 15. | | | | | | | | | | | | | | | |
| 16. | | | | | | | | | | | | | | | |
| 17. | | | | | | | | | | | | | | | |
| 18. | | | | | | | | | | | | | | | |
| 19. | | | | | | | | | | | | | | | |
| 20. | | | | | | | | | | | | | | | |

Relinquished by: [Signature] Date: 9-17-20 Time: 15:35 Received By: [Signature] Date: 9/18/20 Time: 15:35
Angela Clau 9/18/20 16:55 Kangaroo Express 9/17/20 16:55
Kangaroo Express 9/18/20 0830 [Signature]

[Signature] on pH

[Signature]