

RECEIVED By OCD District 1 at 12:45 pm, Jun 19, 2015

PO Box 2948 | Hobbs, NM 88241 | Phone 575.393.2967

June 15th, 2015

Kellie Jones Environmental Specialist– New Mexico Oil Conservation Division Energy, Minerals and Natural Resources Department 1625 N. French Dr. Hobbs, NM 88240

> RE: Amended Path Forward Apache Hawk B-3 #9 (1RP-3572) UL/Q sec. 3 T21S R37E API No. 30-025-06501

APPROVED By OCD District 1 at 12:45 pm, Jun 19, 2015

1. Ensure BLM concurrence

Ms. Jones:

A Path Forward was submitted to NMOCD and BLM on April 30th, 2015. NMOCD approved the Path Forward on April 30th, 2015, and BLM approved the Path Forward on May 7th, 2015.

The Path Forward stated that the bell hole is located under a series of high line electric lines, negating the possibility of installing soil bores at the site. Therefore, in order to hinder the movement of residual chlorides through the vadose zone, the area around Vertical 1 would be excavated to a depth of 13 ft bgs. Once the excavation was completed, wall samples would be taken and a 20-mil reinforced liner would be installed and properly seated at the base of the excavation. All excavated soil would be taken to a NMOCD approved facility for disposal. The excavation would then be backfilled with imported soil.

Addendum to the Path Forward

The bell hole has been excavated to a depth of 22 ft, and the area to the south of the bell hole has been excavated to a depth of 10 ft bgs. The excavated soil was evaluated for use as backfill, and soil that did not meet regulatory standards was taken to a NMOCD facility for disposal. The remaining soil was blended on site, and a sample of the blended soil was taken to a commercial laboratory for analyses. The blended soil returned a chloride reading of 656 mg/kg, a GRO reading of non-detect, a DRO reading of 464 mg/kg and a total BTEX reading of non-detect.

An additional vertical, Vertical 4, was installed north of the bell hole to determine the extent of contamination in this area. The vertical was installed to a depth of 4 ft bgs, and that sample was taken to a commercial laboratory for analyses. The 4 ft sample returned a chloride reading of 1,170 mg/kg with GRO and DRO readings of non-detect.

Based on these sampling data, a 20-mil, reinforced liner will be installed within the 22 ft bgs excavation. The 22 ft bgs and 10 ft bgs excavations will then be backfilled with the blended soil to 4 ft bgs. The northern portion of the release area will be excavated to a depth of 4 ft bgs. Once the entire release area reaches 4 ft bgs, discrete wall samples will be taken and sent to a

commercial laboratory. The samples will be tested for chlorides and volatile organic compounds to confirm that the walls return readings below regulatory standards.

At 4 ft bgs, a 20-mil reinforced poly liner will be installed and properly seated throughout the base of the excavation. The excavation will be backfilled with clean, imported soil as needed. The release area will be contoured to the surrounding location, and the site will be seeded with a blend of native vegetation.

Once these actions have been completed, a Termination Request will be submitted to NMOCD and BLM with a request for 'remediation termination' and site closure.

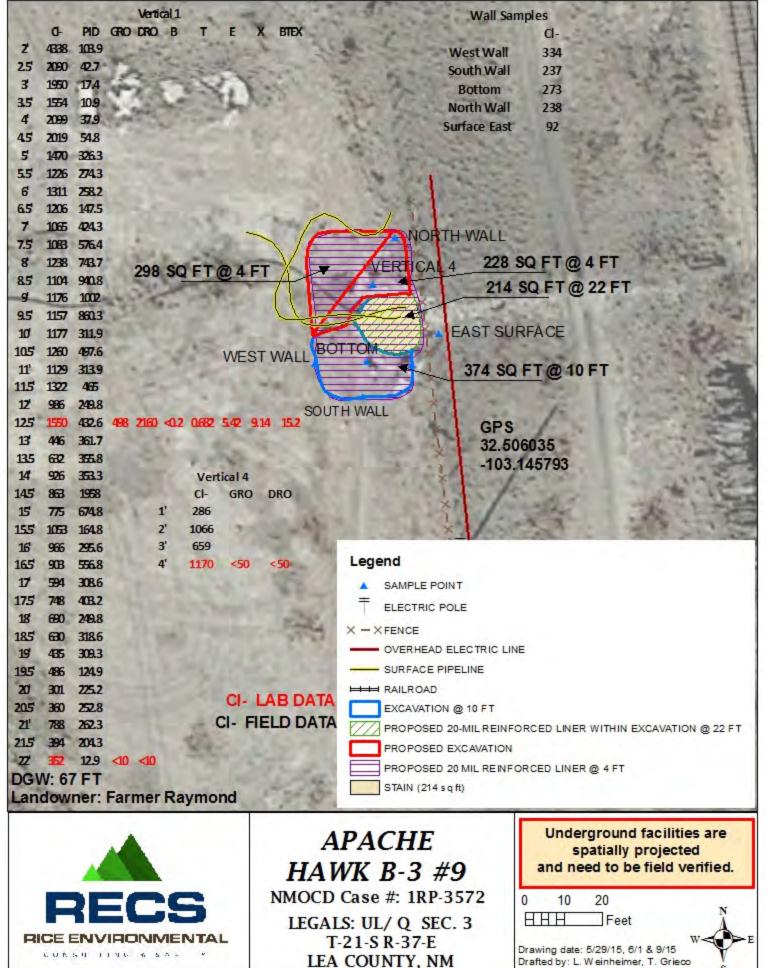
RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

JC.W.

Lara Weinheimer Project Scientist RECS (575) 441-0431

Vertical Data





May 28, 2015

BRUCE BAKER APACHE CORP - HOBBS 2350 W. MARLAND BLVD. HOBBS, NM 88240

RE: HAWK B -3 #9

Enclosed are the results of analyses for samples received by the laboratory on 05/27/15 16:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
|------------------|------------------------------|
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

| Received: | 05/27/2015 | Sampling Date: | 05/27/2015 |
|-------------------|--------------|---------------------|---------------|
| Reported: | 05/28/2015 | Sampling Type: | Soil |
| Project Name: | HAWK B -3 #9 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | HAWK B-3 #9 | | |

Sample ID: VERT 4 @ 4' (H501332-01)

| Chloride, SM4500Cl-B | mg | /kg | Analyze | d By: AP | | | | | |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1170 | 16.0 | 05/28/2015 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 05/28/2015 | ND | 186 | 92.9 | 200 | 0.301 | |
| DRO >C10-C28 | <50.0 | 50.0 | 05/28/2015 | ND | 203 | 102 | 200 | 0.397 | |
| Surrogate: 1-Chlorooctane | 93.6 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 134 | % 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

| Received: | 05/27/2015 | Sampling Date: | 05/27/2015 |
|-------------------|--------------|---------------------|---------------|
| Reported: | 05/28/2015 | Sampling Type: | Soil |
| Project Name: | HAWK B -3 #9 | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | HAWK B-3 #9 | | |

Sample ID: SPOIL PILE (H501332-02)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.051 | 0.050 | 05/28/2015 | ND | 1.83 | 91.4 | 2.00 | 0.634 | |
| Toluene* | 0.096 | 0.050 | 05/28/2015 | ND | 1.87 | 93.3 | 2.00 | 1.71 | |
| Ethylbenzene* | <0.050 | 0.050 | 05/28/2015 | ND | 1.75 | 87.5 | 2.00 | 3.91 | |
| Total Xylenes* | <0.150 | 0.150 | 05/28/2015 | ND | 5.04 | 84.0 | 6.00 | 3.69 | |
| Total BTEX | <0.300 | 0.300 | 05/28/2015 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 119 % | 61-154 | 1 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: AP | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 656 | 16.0 | 05/28/2015 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10 | <50.0 | 50.0 | 05/28/2015 | ND | 186 | 92.9 | 200 | 0.301 | |
| DRO >C10-C28 | 464 | 50.0 | 05/28/2015 | ND | 203 | 102 | 200 | 0.397 | |
| Surrogate: 1-Chlorooctane | 93.6 | % 47.2-15 | 7 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 151 9 | 52.1-17 | 6 | | | | | | |

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

RDINAL LABORATORIES st Marland Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

404 Ea

| Company Name: | (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 F. ame: Apache | | | | BILL TO | | | ANALYSIS REQUEST | | | | | | | | | | | |
|--|---|--|---|--------------------------------------|-------------------------------|--------------------------------|---------------------------------------|---|------------------------------------|----------|------------------|------------------|----------|---------|--------|------------------|---------------------|--------------------|--------|
| | Bruce Baker / Kyle Norman | | | | P.O. #: Company: | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | S | | | | | | |
| ddress: 419 W Cain ity: Hobbs State: NM Zip: 88240 | | | | Attn: | | | | | | | | Cations/Anions | | | | | | | |
| Sity: Hobbs State: NM Zip: 88240 Phone #: 575-393-2967 Fax #: 575-393-0293 | | 1 | Addre | SS: | | | 1.1 | | | | An | | | | | | | | |
| | Project | | | 100 | City: | | | | | Σ | | I | s/I | | | | | | |
| Project #: | Project | - miler. | | | State: | | Zip: | | Chlorides | 15 | × | TPH | on | 0 | | | | | |
| Project Name: | HAUK B-3 | 40 | | | Phone | e #: | | | ric | TPH 8015 | BTEX | S | ati | TDS | | | | | |
| Project Location | HAUK VS | # -1 | | | Fax # | | | | 음 | T | B | Texas | | F | | | | | |
| FOR LAB USE ONLY | | | I N | ATRIX | PR | ESERV. | SAMPL | ING | O | đ | | Le | te | | | | | | |
| Lab I.D. | Sample I.D. | CGRAB OR (C)OMP | # CONTAINERS GROUNDWATER WASTEWATER | SOIL | OTHER : ACID/BASE: | JCE / COOL OTHER : | DATE | TIME | | | | | Complete | | | | | | |
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| 2 | Sport Pilp | 6 | 1 | / | | (| 5-12-5 | 4:15 | - | - | - | - | - | | | - | | | |
| | | | | | | | - | | | - | - | - | | | | | | | |
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