# $1R - \frac{426 - 127}{1}$

# REPORTS

# DATE: 9-20-/3

#### Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967 RECENCE OCD

2012 517 23 P 1: 34

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 8425

September 20<sup>th</sup>, 2013

Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

#### RE: CAP Report and Termination Request Rice Operating Company – BD SWD System BD Jct. P-30 west (1R426-127): UL/P sec. 30 T21S R37E BD P-30 EOL (1R426-218): UL/P sec. 30 T21S R37E

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced sites in the BD Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage/usage basis.

The sites are 44 ft apart from each other and are located approximately 2 miles west of Eunice, New Mexico at UL/P sec. 30 T21S R37E as shown on the Site Location Map and Geographical Location Map (Figure 1 and Figure 2). NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 97 +/- feet.

#### Background and Previous Work - BD Jct. P-30 west

In 2006, ROC initiated work on the former BD P-30 west junction box as part of the system pipeline replacement/upgrade program. The site was delineated using a backhoe to form an excavation 30 ft x 30 ft x 12 feet deep and soil samples from the excavation were screened at regular intervals for both hydrocarbons and chlorides. From the excavation, a 4-wall composite, bottom composite and backfill sample were collected for laboratory verification. Laboratory tests of the site showed negligible gasoline range organics (GRO) while diesel range organics (DRO) measured <10.0 mg/kg in the 4-wall composite, 20.9 mg/kg in the bottom composite, and 473.0 mg/kg in the backfill. However, chlorides concentrations from the excavation did not relent with depth or breadth. The chloride concentrations measured 832 mg/kg in the 4-wall composite, 1,360 mg/kg in the bottom composite, and 592 mg/kg in the backfill. The excavation was backfilled to 6 ft bgs where a 1 ft thick clay barrier was installed. The remaining soil was backfilled into the excavation, and the area was contoured to the surrounding landscape.

The site was seeded, and an identification plate was placed on the surface of the site to mark its location for future environmental considerations. NMOCD was notified of potential groundwater impact on November 17<sup>th</sup>, 2006 and a junction box disclosure report was submitted to NMOCD with all the 2006 junction box closures and disclosures.

As part of the Investigation and Characterization Plan (ICP) submitted to NMOCD on September 20<sup>th</sup>, 2010 and approved on September 22<sup>nd</sup>, 2010, five soil bores were advanced through the former junction box site on November 18th, 2010 and November  $22^{nd}$ , 2010. SB-1 was installed with an air rotary drilling rig and soil bores #2-5 were installed with a Geo-probe to avoid the high line electrical wires. Soil bore #2-5 could not advance below 25 ft bgs because of a hard stratum below 25 ft bgs. RECS personnel field tested the soil for chlorides and screened in the field with a photo-ionization detector (PID) for hydrocarbons. Representative samples from the bore were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers. Laboratory readings of SB-1 showed chloride readings of 1,700 mg/kg at 10 ft bgs, which decreased to 112 mg/kg at 70 ft bgs. Laboratory readings for GRO and DRO showed non-detect. SB-2 returned laboratory chloride readings of 1,800 mg/kg at 20 ft bgs and 2.480 mg/kg at 25 ft bgs. SB-3 returned laboratory chloride readings of 2.800 mg/kg at 10 ft bgs and 2,040 mg/kg at 25 ft bgs. SB-4 returned laboratory chloride readings of 1,660 mg/kg at 15 ft bgs and 1,760 mg/kg at 25 ft bgs. SB-5 returned laboratory chloride readings of 1,310 mg/kg at 20 ft bgs, which decreased to 1,040 mg/kg at 25 ft bgs. In all four bores (SB 2-5), GRO and DRO readings were non-detect.

#### Background and Previous Work - BD P-30 EOL

In 2008, ROC initiated work on the former BD P-30 EOL junction box, which was eliminated under the pipeline replacement/upgrade program. The site was delineated using a backhoe to form a 30 ft x 30 ft x 12 ft deep excavation. The soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the excavation, a 4-wall composite, bottom composite and backfill composite sample was collected for laboratory verification. Laboratory tests of the site showed negligible gasoline range organics (GRO) in the bottom composite and backfill and 22 mg/kg in the 4-wall composite. Diesel range organics (DRO) measured 389 mg/kg in the 4-wall composite, 19.2 mg/kg in the bottom composite and 470 mg/kg in the backfill. Chloride concentrations from the excavation measured 1,390 mg/kg in the 4-wall composite, 2,530 mg/kg in the bottom composite and 960 mg/kg in the backfill. The excavated soil was blended on site and returned to the excavation up to 6 ft below ground surface (bgs). At 6 ft bgs, a shelf was extended 15 ft out from the east wall and a 1 ft thick clay barrier was installed with a compaction test performed on January 31st, 2008. The remaining soil as backfilled over the clay barrier and was contoured to the surrounding landscape. An identification plate was placed on the surface of the site to mark its location for future environmental considerations. NMOCD was notified of potential groundwater impact on September 4<sup>th</sup>, 2008 and a junction box disclosure report was submitted to NMOCD with all the 2008 junction box closures and disclosures.

As part of the Investigation and Characterization Plan submitted to NMOCD on September 10<sup>th</sup>, 2010 and approved on September 15<sup>th</sup>, 2010, seven soil bores were advanced through the former junction box site on November 19<sup>th</sup>, 2010 and November  $22^{nd}$ , 2010. Soil bores #1 - 5 were installed with an air rotary drilling rig and soil bores #6 - 7 were installed with a Geo-probe to avoid the high line electrical wires. Soil bores #6 - 7 could not be advanced below 25 ft bgs because of a hard stratum below 25 ft bgs. RECS personnel field tested the soil for chlorides and screened in the field with a photoionization detector (PID) for hydrocarbons. Representative samples from the bores were taken to a commercial laboratory for confirmation of chloride and hydrocarbon field numbers. All the soil bores showed chloride levels that decreased with depth and GRO and DRO readings of non-detect.

To further delineate the site, trenches were installed with a backhoe north, west, and south of the combined sites on February 4<sup>th</sup> and 7<sup>th</sup>, 2011. The trenches to the north showed a decrease in chlorides from the 30 ft north trench to the 35 ft north trench. Laboratory confirmation of the 5 ft bgs sample of the 35 ft north trench showed a chloride concentration of 144 mg/kg. The trenches to the west also showed a decrease in chlorides from the 48 ft west trench. Laboratory confirmation of the 48 ft west trench. Laboratory confirmation of the 48 ft west trench. Laboratory confirmation of the 48 ft west trench showed a chloride reading of 64 mg/kg and the 7 ft bgs sample of the 48 ft west trench showed a chloride reading of 2,840 mg/kg at 10 ft bgs.

On June 20<sup>th</sup>, 2013, RECS submitted an ICP Report and Corrective Action Plan (CAP) to NMOCD, which was approved July 1<sup>st</sup>, 2013. Based on a U.S. Environmental Protection Agency Exposure Assessment Multimedia Model (MULTIMED Version 1.5, 2005), the estimated increase in chloride concentrations in groundwater from residual chloride migration through the vadose zone from the site was determined to be below WQCC standards of 250 mg/L. Therefore, no further action was warranted for groundwater at the site.

To address the vadose zone, ROC proposed to excavate the site to the dimensions of 120 ft x 80 ft and properly seat a 20-mil reinforced poly liner at approximately 4-5 ft bgs. The liner would cover the existing clay layers installed at 6.5 ft bgs measuring 30 ft x 30 ft at the BD jct. P-30 west site and 30 ft x 45 ft at the BD P-30 EOL site. The soils placed above the liner would have a laboratory chloride reading no greater than 500 mg/kg and a field PID reading below 100 ppm. Excavated soils would be evaluated for use as backfill and any soils requiring disposal would be properly disposed of at a NMOCD approved facility. Upon completion of backfilling, the site would be seeded with a native vegetative mix and soil amendments will be added as needed. Vegetation above the liner would also provide a natural infiltration barrier for the site since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone to groundwater.

#### **Corrective Action Plan Report**

On July 12<sup>th</sup>, 2013, RECS personnel were on site to begin the Corrective Action Plan work. The site was excavated to 80 ft x 120 ft to a depth of 5 ft bgs (Figure 3). A total of 2,300 yards of excavated soil was disposed of at a NMOCD approved facility. At the base of the excavation, a 20-mil reinforced poly liner was installed and properly seated at a depth of 5 ft bgs. Since the site contained primarily sandy/silty soils without appreciable rock, it was not necessary to pad either the top or bottom of the liner. Approximately 2,256 yards of soil was imported to the site to serve as backfill. A sample of this imported soil was field tested for hydrocarbons and returned a result of 1.7 ppm. The sample was then taken to a commercial laboratory and returned a chloride result of non-detect. The excavation was backfilled with the imported soil and contoured to the surrounding location.

On August 30<sup>th</sup>, 2013, the site was prepared for seeding. The soil was tilled and amendments were added to the soil. The site was then seeded with a blend of native vegetation. A silt net fence was placed around the site to negate erosion and maintain seed integrity. Documentation for these CAP activities can be found in Appendix A.

Since the CAP actions have been completed, ROC respectfully requests 'remediation termination' or similar site closure status for the site. ROC acknowledges they have met the requirements of 19.15.29 NMAC, and no further action is required.

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,

ACW

Lara Weinheimer Project Scientist RECS (575) 441-0431

Attachments:

Figure 1 – Site Location Map Figure 2 – Geographical Location Map Figure 3 – NMOCD Approved Liner Appendix A – CAP Activities Documentation



RICE Environmental Consulting and Safety (RECS) P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

## Site Location Map



# **Geographical Location Map**



### NMOCD Approved Liner



# Appendix A CAP Activities Documentation

RICE Environmental Consulting and Safety (RECS) P.O. Box 2948 Hobbs, NM 88241 Phone 575.393.2967



August 06, 2013

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD JCT P-30 WEST & BD P-30 EOL

Enclosed are the results of analyses for samples received by the laboratory on 07/30/13 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

| Received:         | 07/30/2013                     | Sampling Date:      | 07/30/2013     |
|-------------------|--------------------------------|---------------------|----------------|
| Reported:         | 08/06/2013                     | Sampling Type:      | Soil           |
| Project Name:     | BD JCT P-30 WEST & BD P-30 EOL | Sampling Condition: | ** (See Notes) |
| Project Number:   | NONE GIVEN                     | Sample Received By: | Jodi Henson    |
| Project Location: | NOT GIVEN                      |                     |                |
|                   |                                |                     |                |

#### Sample ID: IMPORTED SAND (H301798-01)

| Chloride, SM4500Cl-B | mg,    | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 08/01/2013 | ND           | 416 | 104        | 400           | 3.92 |           |

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal'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 client for analyses. All claims, including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise, Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celez D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



#### **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 SM4500CI-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

Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Lability and Damages. Cardinal'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 client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors ansing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#### 101 East Marland, Hobbs, NM 88240

| Company Name   | Bice Operating   |  | BILL TO  |                                 | ANALYSIS I                     | REQUEST   |
|--|--|--|--|---------------------------------|--------------------------------|---|
| Project Manage   | " Katie Jones  |  | P.O. #:  |                                 |                                |   |
| Address:   | i ing uund   |  | Company:   |                                 |                                |   |
| City:  | State:   | Zip:   | Attn:  |                                 |                                |   |
| Phone #:   | Fax #:   |  | Address:   |                                 |                                |   |
| Project #:   | Project Owne   | r:   | City:  |                                 |                                |   |
| Project Name:  | Jet.   | 1  | State: Zip:  |                                 |                                |   |
| Project Location   | BOAP-30 West 4 E   | SUPSECL *  | Phone #:   |                                 |                                |   |
| Sampler Name:  | Zach Conder  |  | Fax #:   |                                 |                                |   |
| FOR LAB USE ONLY   |  | MATRIX   | PRESERV. SAMPLING  |                                 |                                |   |
|  |  | W S B A  |  | $\square$                       |                                |   |
| Labin  | Sample I D   | NER (C   |  |                                 |                                |   |
| Lau 1.0.   | Sample I.B.  |  | RBAS<br>COC  |                                 |                                |   |
| 17301798   |  | G)R<br>CO<br>SOIL<br>SOIL<br>SILUE   | HON HON THE  |                                 |                                |   |
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| Delivered By   | : (Circle One)   | Sample Condit  | tion CHECKED BY:   |                                 |                                |   |
| Sampler - HPS  | - Bus - Other: 2   | 5 8° Cool Intact   | s (Invitante)  |                                 |                                |   |
| Campiel - 0P3  | $\mathcal{I}$  |  |  |                                 |                                |   |

74

† Cardinal cannot accept verbal changes. Please fax written changes to (6(5) 393-2326

### RICE ENVIRONMENTAL CONSULTING & SAFETY

122 West Taylor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

| CK.   |   |
|-------|---|
| MODEL |   |
| NO.   |   |
|       | Y |

 MODEL: PGM 7300
 SERIAL NO: 590-000508

 MODEL: PGM 7300
 SERIAL NO: 590-000504

 MODEL: PGM 7320
 SERIAL NO: 592-903318

 MODEL: PGM 7300
 SERIAL NO: 590-001413

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : HAL-248-100-1

METER READING ACCURACY: 100.0 ppm

EXPIRATION DATE: 07/01/2015

ACCURACY : +/- 2%

| COMPANY        |  |
|----------------|--|
| RICE Operating |  |

| SITE                                 | UNIT | SECTION | TOWN SHIP | RANGE |
|--------------------------------------|------|---------|-----------|-------|
| BD Jct. P-30 west and<br>BD P-30 EOL | Р    | 30      | 218       | 37E   |

| SAMPLE ID     | PID | SAMPLE ID                             | PID |
|---------------|-----|---------------------------------------|-----|
| Imported Sand | 1.7 | · · ·                                 |     |
|               |     |                                       |     |
|               |     | · · · · · · · · · · · · · · · · · · · |     |
|               |     | 1                                     |     |
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|               |     |                                       |     |
|               |     |                                       |     |
|               |     |                                       |     |

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

2/12 SIGNATURE:

DATE: 7-30-13



PO Box 2498 Hobbs, NM 88241 Phone: (575) 393-2967 Fax: (575) 393-0293

#### **VEGETATION FORM**

| 1. General Info | rmation              |                             |                        |                        |                      |                  |  |  |  |
|-----------------|----------------------|-----------------------------|------------------------|------------------------|----------------------|------------------|--|--|--|
| Site name:      | BD Jct. P-30 west    |                             |                        |                        |                      |                  |  |  |  |
|                 | BD P-30 EOL          |                             |                        |                        |                      |                  |  |  |  |
| U/L             | Section              | Township                    | Range                  | County                 | Latitude             | Longitude        |  |  |  |
| Р               | 30                   | T21S                        | R37E                   | LEA                    | 32°26'42.017" N      | 103°11'47.486" W |  |  |  |
| Contact Name:   | Kyle Norman          |                             |                        |                        | 32°26'42.018"N       | 103°11'47.94" W  |  |  |  |
| Email           | knormanärice-ecs.com |                             |                        |                        |                      |                  |  |  |  |
| Site size       | : 132'X140'          |                             | square feet: 19,00     | 0                      |                      |                  |  |  |  |
| 2. Soils        | *Do ne               | ot rip caliche subsoils; ca | liche rocks brought te | o the surface by rippi | ng shall be removed. |                  |  |  |  |
| Salvaged from s | ite Bioremediated    | Imported                    | X Blend                | led                    | Depth (in)           |                  |  |  |  |
| Texture:        | Sandy                | Describ                     | e soil & subsoil:      | Red Sand               |                      |                  |  |  |  |
| Soil prep metho | ds; Rip              | Depth (in)                  |                        | Disc X                 | Depth (in) 3"        | Rollerpack       |  |  |  |

#### 3. Bioremediation

Date completed: 8/30/2013

| Fertilizer | Hay | Other X                                    |
|------------|-----|--|
| Туре:      |     | Describe: 78 BAGS OF BIONHANCE, 39 BAGS OF |
| Lbs/acre:  |     | GARDEN SOIL, 3 BAGS OF MANURE              |

| 4. Seeding                                       | *Attach seed be | ag tags to this form. | Seed bag tags sha | ll contain the site name and S-T-R.     |                 |
|--|-----------------|-----------------------|-------------------|---|-----------------|
| Custom Seed Mix                                  | X Prescribe     | d Mix                 | Seed Mix Name:    | 15 LBS OF BLUE GRAMA, 15 LBS SIDE OATS, | Date: 8/30/2013 |
| Broadcast N                                      | IECHANICAL SEE  | DER                   | 15 LBS OF SUM     | MER GRASS                               |                 |
| Soil conditions dur                              | ing seed: Dr    | y X Dam               | p Wet             | Method: USED THE DEW DROP DRILL SE      | EDER.           |
| Observations: The seed was tilled into the soil. |                 |                       |                   |   |                 |

5. Certification I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

| Name: Edwardo Garcia | / | Λ   | Title: Field Technician | Date: 8/30/2013 |
|----------------------|---|-----|-------------------------|-----------------|
| Signature: Standi    | 0 | Kin |                         |                 |

#### BD Jct. P-30 west (1R426-127) and BD P-30 EOL (1R426-218) Unit Letter P, Section 30, T21S, R37E



Site prior to excavation, facing west 7/16/2013



Exporting soil, facing east

7/16/2013



Liner complete, facing southwest

7/30/2013



Excavating, facing west

7/16/2013



Excavation final, facing northeast 7,

7/30/2013



Importing, facing east

7/30/2013

#### BD Jct. P-30 west (1R426-127) and BD P-30 EOL (1R426-218) Unit Letter P, Section 30, T21S, R37E



Backfilling above the liner, facing northeast 7/31/2013



Silt net fence complete, facing west 8/28/2013



Spreading seed, facing south

8/30/2013



Backfilling excavation, facing southwest 8/1/2013



Spreading amendments, facing north 8/30/2013



Site complete with vegetation, facing west 9/3/2013