

1R - 427-378

**REPORTS**

**DATE:**

3-22-12

1R427-378  
RECEIVED OOD  
2012 MAY -1 P 1:51

EME Jct. G-4  
2011

CLOSURE

# **RICE** *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

May 1, 2012

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: Termination Request  
EME Jct. G-4: UL/G, Sec. 4, T20S, R36E  
RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (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 ownership/usage basis.

## **Background**

In 2011, ROC initiated work on the former G-4 junction box. The site is located in UL/G, Sec. 4, T20S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 40 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 2x5x7-ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low concentrations of each. The 7-ft sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in a chloride concentration of <16 mg/kg, and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The excavated soil was returned to the excavation and contoured to the surrounding area. On 12/16/2011, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. The junction box final report, photo documentation, laboratory analysis, PID sheet, chloride graph, and revegetation form are attached.

## **Recommendations**

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction

Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,  
RICE Operating Company

A handwritten signature in black ink, appearing to read "H. Conder", with a long horizontal flourish extending to the right.

Hack Conder  
Environmental Manager

enclosures

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

| SWD SYSTEM                      | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET |       |       |
|---------------------------------|----------|------|---------|----------|-------|--------|-----------------------|-------|-------|
| Eunice Monument<br>Eumont (EME) | Jct. G-4 | G    | 4       | 20S      | 36E   | Lea    | Length                | Width | Depth |
|                                 |          |      |         |          |       |        | Eliminated            |       |       |

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Faye Klein Family Trust OTHER \_\_\_\_\_

Depth to Groundwater 40 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 5/26/2011 Date Completed 5/26/2011 OCD Witness No

Soil Excavated 2.6 cubic yards Excavation Length 2 Width 5 Depth 7 feet

Soil Disposed None cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 5/26/2011 Sample Depth 7'

TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

| Sample Location | PID (field) ppm | GRO mg/kg | DRO mg/kg | Chloride mg/kg |
|-----------------|-----------------|-----------|-----------|----------------|
| SOURCE 7' GRAB  | 1.4             | <10.0     | <10.0     | <16            |

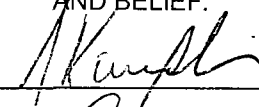
| CHLORIDE FIELD TESTS                                 |       |       |
|--|-------|-------|
| LOCATION   | DEPTH | mg/kg |
| background   | 6"    | 121   |
| vertical delineation trench at the junction (source) | 3'    | 155   |
|  | 4'    | 149   |
|  | 5'    | 102   |
|  | 6'    | 158   |
|  | 7'    | 146   |

**General Description of Remedial Action:** This junction was eliminated

during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals creating a 2X5X7-ft. deep excavation. Chloride field tests performed on each sample yielded concentrations similar to that of the background sample. Organic vapors were measured using a PID, which yielded low concentrations. The deepest sample, 7 ft. BGS, was sent to a commercial laboratory for analysis of chloride and TPH, which confirmed low concentrations of each. The excavation was backfilled with excavated soil to ground surface and contoured to the surrounding area. On 12/16/2011, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

enclosures: photos, lab results, PID (field) screenings, chloride graph, revegetation form

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Jacob Kamplain SIGNATURE 

REPORT ASSEMBLED BY Laura Peña SIGNATURE 

COMPANY RICE OPERATING COMPANY

PROJECT LEADER Zach Conder SIGNATURE 

DATE 3-22-12

# EME Jct. G-4

Unit G, Section 4, T20S, R36E



Excavating site, facing north

5.26.11



Collecting sample, facing south

5.26.11



Spreading seed, facing east

12.16.11



Site complete, facing west

12.16.11



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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May 31, 2011

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME JCT G-4

Enclosed are the results of analyses for samples received by the laboratory on 05/26/11 16:33.

Cardinal Laboratories is accredited through Texas NELAP for:

|                    |  |
|--------------------|--|
| Method SW-846 8021 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method SW-846 8260 | Benzene, Toluene, Ethyl Benzene, and Total Xylenes |
| Method TX 1005     | Total Petroleum Hydrocarbons                       |

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited 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 (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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

COPY

**Analytical Results For:**

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

Received: 05/26/2011  
Reported: 05/31/2011  
Project Name: EME JCT G-4  
Project Number: EME JCT G-4 20/36  
Project Location: NOT GIVEN

Sampling Date: 05/26/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SOURCE @ 7' (H101097-01)**

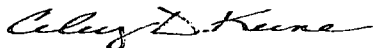
| Chloride, SM4500Cl-B          |        | mg/kg           |            | Analyzed By: HM |     |            |               |      |           |
|-------------------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                      | <16.0  | 16.0            | 05/27/2011 | ND              | 416 | 104        | 400           | 0.00 |           |
| TPH 8015M                     |        | mg/kg           |            | Analyzed By: AB |     |            |               |      |           |
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10                    | <10.0  | 10.0            | 05/29/2011 | ND              | 182 | 90.9       | 200           | 3.56 |           |
| DRO >C10-C28                  | <10.0  | 10.0            | 05/29/2011 | ND              | 144 | 72.0       | 200           | 1.37 |           |
|                               |        |                 |            |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctane     |        | 114 %           | 70-130     |                 |     |            |               |      |           |
| Surrogate: 1-Chlorooctadecane |        | 109 %           | 70-130     |                 |     |            |               |      |           |

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Cardinal Laboratories

\*=Accredited Analyte

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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<br>Samples reported on an as received basis (wet) unless otherwise noted on report |

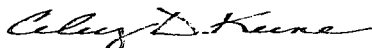
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

|   |  |                |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|----------------|--|-------------------------|--|--------------|--|-------------|--|------------|--|------|--|-----|--|--------|--|---------|--|------------|--|------------|--|---------|--|--------|--|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company Name: <u>Rice</u>                             |  | <b>BILL TO</b> |  | <b>ANALYSIS REQUEST</b> |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Manager: <u>Hack Conder</u>                   |  | P.O. #:        |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Address: <u>1322 W. Taylor</u>                        |  | Company:       |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u> |  | Attn:          |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone #: Fax #:                                       |  | Address:       |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project #: Project Owner:                             |  | City:          |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Name:   |  | State: Zip:    |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Location: <u>EME SCT B-4 20.36</u>            |  | Phone #:       |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sampler Name: <u>OSCAR FRANK</u>                      |  | Fax #:         |  |                         |  |              |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FOR LAB USE ONLY                                      |  | MATRIX         |  | PRESERV                 |  | SAMPLING     |  |             |  |            |  |      |  |     |  |        |  |         |  |            |  |            |  |         |  |        |  |       |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Lab I.D.  |  | Sample I.D.    |  | GRAB OR (C)OMP.         |  | # CONTAINERS |  | GROUNDWATER |  | WASTEWATER |  | SOIL |  | OIL |  | SLUDGE |  | OTHER : |  | ACID/BASE: |  | ICE / COOL |  | OTHER : |  | DATE   |  | TIME  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H101097   |  | Source @ 7'    |  | G                       |  |              |  |             |  |            |  | /    |  |     |  |        |  |         |  |            |  | /          |  |         |  | 5/6/11 |  | 11:00 |  | <div style="display: flex; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 2em; margin-right: 10px;">COPY</div> <div> <p style="font-size: 1.5em; margin: 0;">CL</p> <p style="font-size: 1.5em; margin: 0;">Tp H8015m</p> </div> </div> |  |  |  |  |  |  |  |  |  |  |  |

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|                                     |  |                      |  |                                  |   |                |
|-------------------------------------|--|----------------------|--|----------------------------------|---|----------------|
| Relinquished By: <i>[Signature]</i> |  | Date: <i>5-24-11</i> | Received By: <i>[Signature]</i>  |                                  | Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No  | Add'l Phone #: |
| Time: <i>4:33</i>                   |  |                      |  |                                  | Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No  | Add'l Fax #:   |
| Relinquished By:                    |  | Date:                | Received By:   |                                  | REMARKS:<br><i>1 - Tracya Price - ecs.com, 'K' Jones @rice-swd.com.<br/>H - Condon Price - ecs.com;<br/>L - Weinheimer Price - ecs.com;<br/>B - Batten Price - ecs.com<br/>Z - Condon Price - ecs.com</i> |                |
| Time:                               |  |                      |  |                                  |   |                |
| Delivered By: (Circle One)          |  |                      | Sample Condition   | CHECKED BY:                      |   |                |
| Sampler - UPS - Bus - Other:        |  |                      | Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Initials)<br><i>[Signature]</i> |   |                |

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

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

|                               |                         |
|-------------------------------|-------------------------|
| LOT NO :930132                | EXPIRATION DATE:4-28-13 |
| METER READING ACCURACY:100.00 |                         |

# COMPANY

| SYSTEM | JUNCTION | UNIT | SECTION | TOWN SHIP | RANGE |
|--------|----------|------|---------|-----------|-------|
| EME    | JCT G-4  | G    | 4       | 20S       | 36E   |

[illegible]

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

SIGNATURE:

DATE: 5-26-11

## CHLORIDE CONCENTRATION CURVE

RICE Operating Company

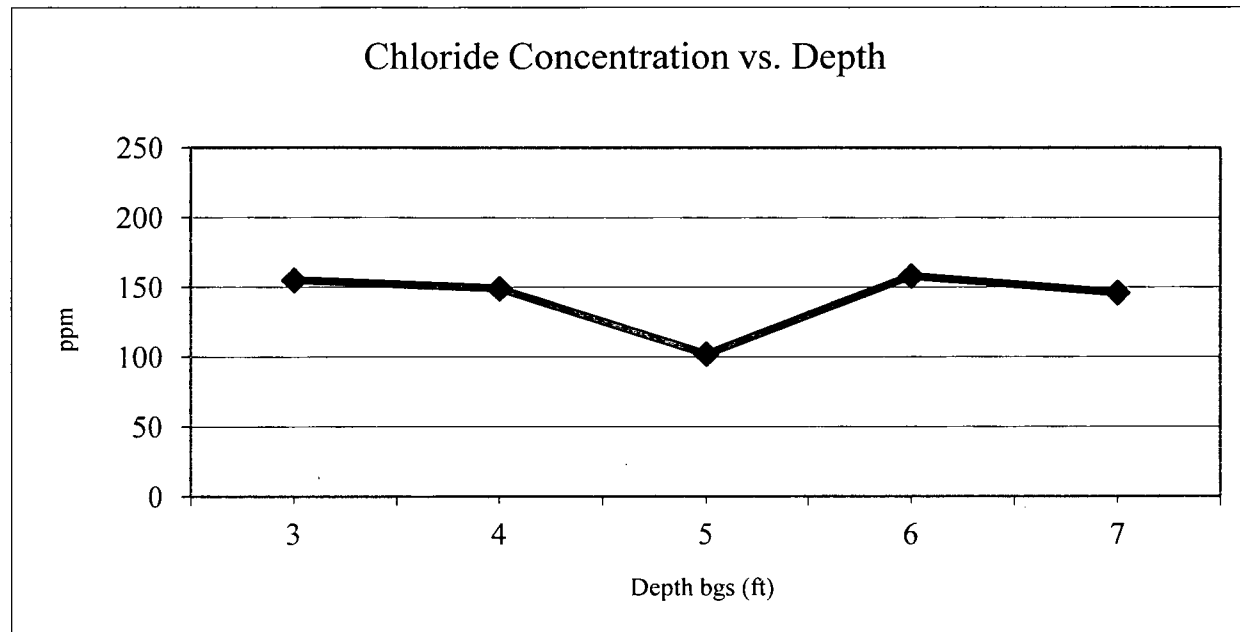
### EME Jct. G-4

Unit 'G', Sec. 4, T20S, R36E

*Backhoe samples at junction (source)*

| Depth bgs (ft) | [Cl <sup>-</sup> ] ppm |
|----------------|------------------------|
| 3              | 155                    |
| 4              | 149                    |
| 5              | 102                    |
| 6              | 158                    |
| 7              | 146                    |

Groundwater = 40 ft





PO Box 5630  
Hobbs, NM 88241  
Phone: (575) 393-4411  
Fax: (575) 393-0293

## VEGETATION FORM

### 1. General Information

|   |              |                 |              |   |                         |                           |
|---|--------------|-----------------|--------------|---|-------------------------|---------------------------|
| Site name: EME  |              | Jct. G-4        |              |   |                         |                           |
| U/L<br>G  | Section<br>4 | Township<br>20S | Range<br>36E | County<br>Lea   | Latitude<br>32° 36'0.3" | Longitude<br>103°21'19.8" |
| Contact Name: Zac Conder  |              |                 |              |   |                         |                           |
| Email: <a href="mailto:zconder@rice-ecs.com">zconder@rice-ecs.com</a> |              |                 |              |   |                         |                           |
| Site size: 204  |              | square feet     |              | Map detail of site attached <input checked="" type="checkbox"/> |                         |                           |
| Additional information:   |              |                 |              |   |                         |                           |

### 2. Soils

*\*Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

|  |  |                                   |                                  |             |                                     |  |
|--|--|-----------------------------------|----------------------------------|-------------|-------------------------------------|--|
| Salvaged from site <input checked="" type="checkbox"/> | Bioremediated <input type="checkbox"/> | Imported <input type="checkbox"/> | Blended <input type="checkbox"/> | Depth (in): |                                     |  |
| Texture:   |  | Describe soil & subsoil:          |                                  |             |                                     |  |
| Soil prep methods:                                     | Rip <input type="checkbox"/>           | Depth(in):                        | Disc <input type="checkbox"/>    | Depth (in): | Rollerpack <input type="checkbox"/> |  |
| Date completed: 12/26/2011                             |  |                                   |                                  |             |                                     |  |

### 3. Bioremediation

|                                     |                              |                                |
|-------------------------------------|------------------------------|--------------------------------|
| Fertilizer <input type="checkbox"/> | Hay <input type="checkbox"/> | Other <input type="checkbox"/> |
| Type:                               |                              | Describe:                      |
| Lbs/acre:                           |                              |                                |

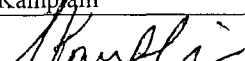
### 4. Seeding

*\*Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

|  |   |   |                          |
|--|---|---|--------------------------|
| Custom seed mix <input checked="" type="checkbox"/>  | Prescribed mix <input type="checkbox"/> | Seed mix name: 1 lb black grama, 1 lb blue/side oat grama mix | Seeding date: 12/16/2011 |
| Broadcast <input checked="" type="checkbox"/>  |   |   |                          |
| Method: Hand Broadcast   |   |   |                          |
| Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/> |   |   |                          |
| Photos attached <input type="checkbox"/>   | Observations:                           |   |                          |
| Number of photos:  |   |   |                          |

### 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: Jacob Kampain  | Title: Environmental Tech. | Date: 12/16/2011 |
| Signature:  |                            |                  |

COPY