

1R - 427-10

# REPORTS

DATE:

7-29-2003

EME P-27 EOL

IR 0 427-10

# DISCLOSURE REPORT

**RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORT**

**BOX LOCATION**

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET |       |       |
|------------|----------|------|---------|----------|-------|--------|-----------------------|-------|-------|
| EME        | P-27 EOL | P    | 27      | T20S     | R36E  | Lea    | Length                | Width | Depth |
|            |          |      |         |          |       |        | Moved 45 ft Southeast |       |       |

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 107 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 7/22/2003 Date Completed 7/28/2003 OCD Witness No

Soil Excavated 26 cubic yards Excavation Length 15 Width 4 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 7/22/2003 Sample Depth 12 ft bgs

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

| Sample Location  | Benzene mg/kg | Toluene mg/kg | Ethyl Benzene mg/kg | Total Xylenes mg/kg | GRO mg/kg | DRO mg/kg | Chlorides mg/kg |
|------------------|---------------|---------------|---------------------|---------------------|-----------|-----------|-----------------|
| VERTICAL @ 12 ft | 0.115         | 0.076         | <0.025              | 0.029               | <10.0     | <10.0     | 1400            |

General Description of Remedial Action: The surface surrounding the EOL box

was vegetated and impact was not evident. However, vertical delineation yielded  
consistent chloride impact to 12 feet while TPH concentrations were well below NMOCD  
guidelines. The hole has been backfilled and the location identified for further consideration  
at a later date. A new watertight junction box has been built 45 feet southeast of this site.

**ADDITIONAL EVALUATION IS LOW PRIORITY.**

cc: chloride graph, lab results, photos

**CHLORIDE FIELD TESTS**

| LOCATION | DEPTH (ft) | ppm  |
|----------|------------|------|
| Vertical | 3          | 1100 |
|          | 4          | 900  |
|          | 5          | 1400 |
|          | 6          | 1600 |
|          | 7          | 1100 |
|          | 8          | 1400 |
|          | 9          | 1300 |
|          | 10         | 1100 |
|          | 11         | 1100 |
|          | 12         | 1400 |

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

DATE 7/29/2003 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Project Scientist

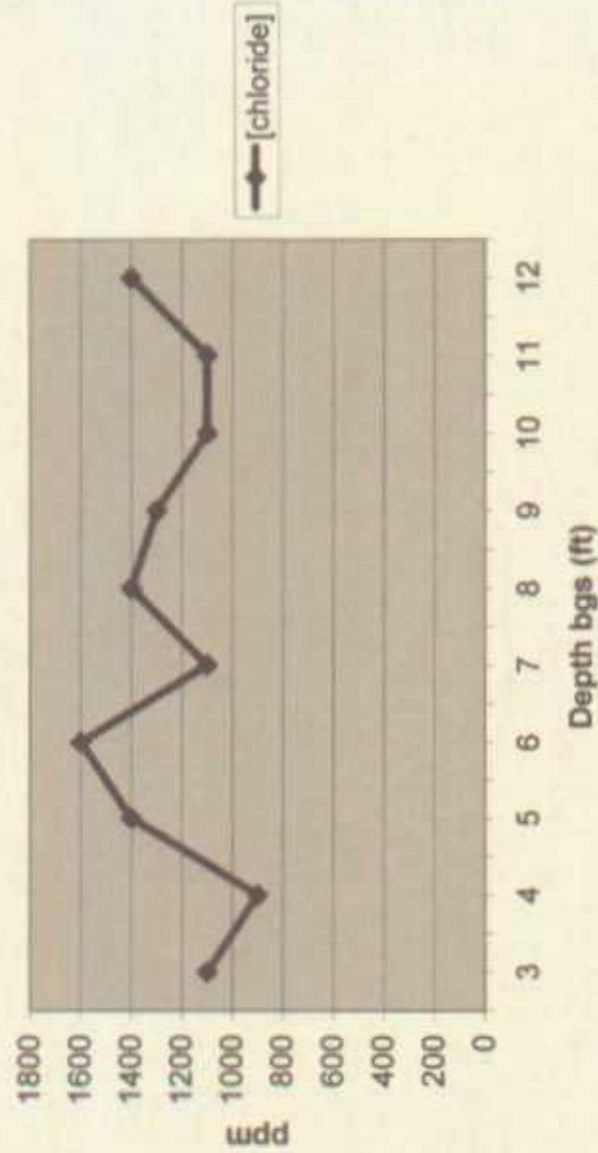
**\* This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.**

## EME P-27 EOL

T20S, R36E

| Depth bgs (ft) | [Cl <sup>-</sup> ] ppm |
|----------------|------------------------|
| 3              | 1100                   |
| 4              | 900                    |
| 5              | 1400                   |
| 6              | 1600                   |
| 7              | 1100                   |
| 8              | 1400                   |
| 9              | 1300                   |
| 10             | 1100                   |
| 11             | 1100                   |
| 12             | 1400                   |

Chloride Concentration v. Depth



Groundwater = 107 ft

## EME P-27 EOL



Site of Old Junction Before Excavation (Box Removed)



Vertical Delineation Excavation At Old Jct. Site—7/22/2003



Backfilled With ID Plate in Right Foreground—7/28/2003  
(New Box Excavation in Background)



New Watertight Junction Box 45 ft Southeast

# ANALYTICAL REPORT

## Prepared for:

Kristin Farris  
Rice Operating  
122 W. Taylor  
Hobbs, NM 88240

**Project:** Brough Elliot EOL

**PO#:**

**Order#:** G0307038

**Report Date:** 07/29/2003

## Certificates

US EPA Laboratory Code TX00158

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# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

Rice Operating  
122 W. Taylor  
Hobbs, NM 88240  
505-397-1471

Order#: G0307038  
Project:  
Project Name: Brough Elliot EOL  
Location: EME

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

| <u>Lab ID:</u>      | <u>Sample :</u>         | <u>Matrix:</u> | <u>Date / Time</u><br><u>Collected</u> | <u>Date / Time</u><br><u>Received</u> | <u>Container</u> | <u>Preservative</u> |
|---------------------|-------------------------|----------------|----------------------------------------|---------------------------------------|------------------|---------------------|
| 0307038-01          | Vertical @ 12' (Bottom) | SOIL           | 7/22/03<br>11:00                       | 7/23/03<br>8:00                       | 4 oz glass       | ice                 |
| <u>Lab Testing:</u> |                         | Rejected: No   | Temp: 1.0 C                            |                                       |                  |                     |
| 8015M               |                         |                |                                        |                                       |                  |                     |
| 8021B/5030 BTEX     |                         |                |                                        |                                       |                  |                     |
| Chloride            |                         |                |                                        |                                       |                  |                     |

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# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Kristin Farris  
Rice Operating  
122 W. Taylor  
Hobbs, NM 88240

Order#: G0307038  
Project:  
Project Name: Brough Elliot EOL  
Location: EME

Lab ID: 0307038-01  
Sample ID: Vertical @ 12' (Bottom)

### 8015M

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed | Sample<br>Amount | Dilution<br>Factor | Analyst | Method |
|-----------------|------------------|------------------|------------------|--------------------|---------|--------|
|                 |                  | 7/23/03          | 1                | 1                  | CK      | 8015M  |

| Parameter     | Result<br>mg/kg | RL   |
|---------------|-----------------|------|
| GRO, C6-C12   | <10.0           | 10.0 |
| DRO, >C12-C35 | <10.0           | 10.0 |
| TOTAL, C6-C35 | <10.0           | 10.0 |

| Surrogates         | % Recovered | QC Limits (%) |     |
|--------------------|-------------|---------------|-----|
| 1-Chlorooctane     | 113%        | 70            | 130 |
| 1-Chlorooctadecane | 105%        | 70            | 130 |

### 8021B/5030 BTEX

| Method<br>Blank | Date<br>Prepared | Date<br>Analyzed | Sample<br>Amount | Dilution<br>Factor | Analyst | Method |
|-----------------|------------------|------------------|------------------|--------------------|---------|--------|
| 0006339-02      |                  | 7/25/03<br>14:38 | 1                | 25                 | CK      | 8021B  |

| Parameter    | Result<br>mg/kg | RL    |
|--------------|-----------------|-------|
| Benzene      | 0.115           | 0.025 |
| Toluene      | 0.076           | 0.025 |
| Ethylbenzene | <0.025          | 0.025 |
| p/m-Xylene   | 0.029           | 0.025 |
| o-Xylene     | <0.025          | 0.025 |

| Surrogates         | % Recovered | QC Limits (%) |     |
|--------------------|-------------|---------------|-----|
| aaa-Toluene        | 99%         | 80            | 120 |
| Bromofluorobenzene | 86%         | 80            | 120 |

Approval: Raland K. Tuttle 7-29-03  
 Raland K. Tuttle, Lab Director, QA Officer Date  
 Celey D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biczugbe, Lab Tech.  
 Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

Kristin Farris  
Rice Operating  
122 W. Taylor  
Hobbs, NM 88240

Order#: G0307038  
Project:  
Project Name: Brough Elliot EOL  
Location: EME

Lab ID: 0307038-01  
Sample ID: Vertical @ 12' (Bottom)

### Test Parameters

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> | <u>Dilution</u><br><u>Factor</u> | <u>RL</u> | <u>Method</u> | <u>Date</u><br><u>Analyzed</u> | <u>Analyst</u> |
|------------------|---------------|--------------|----------------------------------|-----------|---------------|--------------------------------|----------------|
| Chloride         | 1400          | mg/kg        | 1                                | 20        | 9253          | 7/26/03                        | SB             |

Approval:

*Raland K. Tuttle* 7-29-03  
Raland K. Tuttle, Lab Director, QA Officer  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8015M****Order#: G0307038**

|                     |      |            |                     |                    |                   |                     |      |
|---------------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>        | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006288-02 |                     |                    | <10.0             |                     |      |
| <b>CONTROL</b>      | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006288-03 |                     | 952                | 981               | 103.2%              |      |
| <b>CONTROL DUP</b>  | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006288-04 |                     | 952                | 973               | 102.2%              | 0.8% |
| <b>SRM</b>          | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| TOTAL, C6-C35-mg/kg |      | 0006288-05 |                     | 1000               | 1249              | 124.9%              |      |

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### 8021B/5030 BTEX

Order#: G0307038

| <b>BLANK</b>       | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
|--------------------|------|------------|------------------|-----------------|----------------|------------------|-------|
| Benzene-mg/kg      |      | 0006339-02 |                  |                 | <0.025         |                  |       |
| Toluene-mg/kg      |      | 0006339-02 |                  |                 | <0.025         |                  |       |
| Ethylbenzene-mg/kg |      | 0006339-02 |                  |                 | <0.025         |                  |       |
| p/m-Xylene-mg/kg   |      | 0006339-02 |                  |                 | <0.025         |                  |       |
| o-Xylene-mg/kg     |      | 0006339-02 |                  |                 | <0.025         |                  |       |
| <b>MS</b>          | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Benzene-mg/kg      |      | 0307038-01 | 0.115            | 2.5             | 2.95           | 113.4%           |       |
| Toluene-mg/kg      |      | 0307038-01 | 0.076            | 2.5             | 2.69           | 104.6%           |       |
| Ethylbenzene-mg/kg |      | 0307038-01 | 0                | 2.5             | 2.69           | 107.6%           |       |
| p/m-Xylene-mg/kg   |      | 0307038-01 | 0.029            | 5               | 5.47           | 108.8%           |       |
| o-Xylene-mg/kg     |      | 0307038-01 | 0                | 2.5             | 2.64           | 105.6%           |       |
| <b>MSD</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Benzene-mg/kg      |      | 0307038-01 | 0.115            | 2.5             | 2.81           | 107.8%           | 4.9%  |
| Toluene-mg/kg      |      | 0307038-01 | 0.076            | 2.5             | 2.42           | 93.8%            | 10.6% |
| Ethylbenzene-mg/kg |      | 0307038-01 | 0                | 2.5             | 2.49           | 99.6%            | 7.7%  |
| p/m-Xylene-mg/kg   |      | 0307038-01 | 0.029            | 5               | 5.14           | 102.2%           | 6.2%  |
| o-Xylene-mg/kg     |      | 0307038-01 | 0                | 2.5             | 2.43           | 97.2%            | 8.3%  |
| <b>SRM</b>         | SOIL | LAB-ID #   | Sample Concentr. | Spike Concentr. | QC Test Result | Pct (%) Recovery | RPD   |
| Benzene-mg/kg      |      | 0006339-05 |                  | 0.1             | 0.108          | 108.%            |       |
| Toluene-mg/kg      |      | 0006339-05 |                  | 0.1             | 0.105          | 105.%            |       |
| Ethylbenzene-mg/kg |      | 0006339-05 |                  | 0.1             | 0.099          | 99.%             |       |
| p/m-Xylene-mg/kg   |      | 0006339-05 |                  | 0.2             | 0.200          | 100.%            |       |
| o-Xylene-mg/kg     |      | 0006339-05 |                  | 0.1             | 0.097          | 97.%             |       |

**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****Test Parameters**

Order#: G0307038

|                |      |            |                     |                    |                   |                     |      |
|----------------|------|------------|---------------------|--------------------|-------------------|---------------------|------|
| <b>BLANK</b>   | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Chloride-mg/kg |      | 0006306-01 |                     |                    | <20.0             |                     |      |
| <b>MS</b>      | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Chloride-mg/kg |      | 0307052-01 | 0                   | 500                | 496               | 99.2%               |      |
| <b>MSD</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Chloride-mg/kg |      | 0307052-01 | 0                   | 500                | 478               | 95.6%               | 3.7% |
| <b>SRM</b>     | SOIL | LAB-ID #   | Sample<br>Concentr. | Spike<br>Concentr. | QC Test<br>Result | Pct (%)<br>Recovery | RPD  |
| Chloride-mg/kg |      | 0006306-04 |                     | 5000               | 4960              | 99.2%               |      |

Phone: 915-563-1800  
Fax: 915-563-1713

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager;**

Kristin Farris

**Project Name:**

Brough Elliot. E22

**Company Name**

Rice Operating

**Project #:**

**Company Address:**

122 W Taylor

**Project Loc:**

EME

City/State/Zip:

Hobbs, Alon 88 240

PO#:

Telephone No:

(505) 631-9174

**Fax No:**

**Sampler Signature:**

[illegible]