

1R - 426-220

# REPORTS

DATE:

8-12-08

50

BD H-35 Boot

1R426-220

RECEIVED  
MAR 14 1970  
Environmental Bureau  
Oil Conservation Division

# Disclosure

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

**BOX LOCATION**

| SWD SYSTEM        | JUNCTION       | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET |       |       |
|-------------------|----------------|------|---------|----------|-------|--------|-----------------------|-------|-------|
|                   |                |      |         |          |       |        | Length                | Width | Depth |
| Blinebry-Drinkard | Jct. H-35 boot | H    | 35      | 21S      | 37E   | Lea    | moved 584 ft north    |       |       |

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Eva Owen Estate OTHER \_\_\_\_\_

Depth to Groundwater 44 feet NMOCD SITE ASSESSMENT RANKING SCORE: 40\*

Date Started 9/29/2005 Date Completed 4/20/2006 OCD Witness no

Soil Excavated 333 cubic yards Excavation Length 30 Width 25 Depth 12 feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date 9/30/2005, 10/20/2005 Sample Depth 12 ft

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 |
|-------------------|--------------------|---------------|---------------------|---------------------|-----------|-----------|-----------------|
| SOURCE 14 ft GRAB | 3.05               | 13.5          | 17.5                | 47.9                | 1850      | 4000      | 817             |
| 4-WALL COMP.      | PID = 79.9 (field) |               |                     |                     | <10.0     | 47.7      | 180             |
| BOTTOM COMP.      | 0.962              | 3.71          | 3.67                | 10.04               | 422       | 984       | 958             |
| BACKFILL          | PID = 627 (field)  |               |                     |                     | 261       | 683       | 712             |

General Description of Remedial Action: This junction was addressed under the pipeline replacement/upgrade program. A new, watertight junction box was installed 584 ft north of the former. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x25x12-ft-deep hole. Chloride field tests were performed on each sample, yielding chloride levels that did not relent with depth. Organic vapors were measured using a PID, which yielded elevated levels. Representative composite samples were collected and sent to a commercial laboratory for analysis of chloride, TPH, and BTEX. The excavated soil was blended on-site and returned to the excavation up to 6 ft below ground surface. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was used to backfill the excavation and to contour to the surrounding area. NMOCD was notified of potential groundwater impact on 8/11/2008.

**CHLORIDE FIELD TESTS**

| LOCATION   | DEPTH | mg/kg |
|--|-------|-------|
| source grab  | 14'   | 514   |
| 4-wall comp.   | n/a   | 545   |
| bottom comp.   | 12'   | 1298  |
| backfill comp.   | n/a   | 609   |
| vertical delineation trench 10 ft north of junction (source) | 1'    | 47    |
|  | 2'    | 58    |
|  | 3'    | 59    |
|  | 4'    | 128   |
|  | 5'    | 195   |
|  | 6'    | 712   |
|  | 7'    | 312   |
|  | 8'    | 684   |
|  | 9'    | 771   |
|  | 10'   | 502   |
|  | 11'   | 542   |
|  | 12'   | 2642  |

*\*One inactive stock well 45.1 ft north from site and housing within the radius.*

**ADDITIONAL EVALUATION IS HIGH PRIORITY**

enclosures: photos, cross-section, lab results, PID

screening, BTEX comparison table, chloride curve

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

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 8-12-08

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

# BD Jct. H-35 boot

Unit H, Section 35, T21S, R37E



undisturbed junction box, facing north

7/23/2003



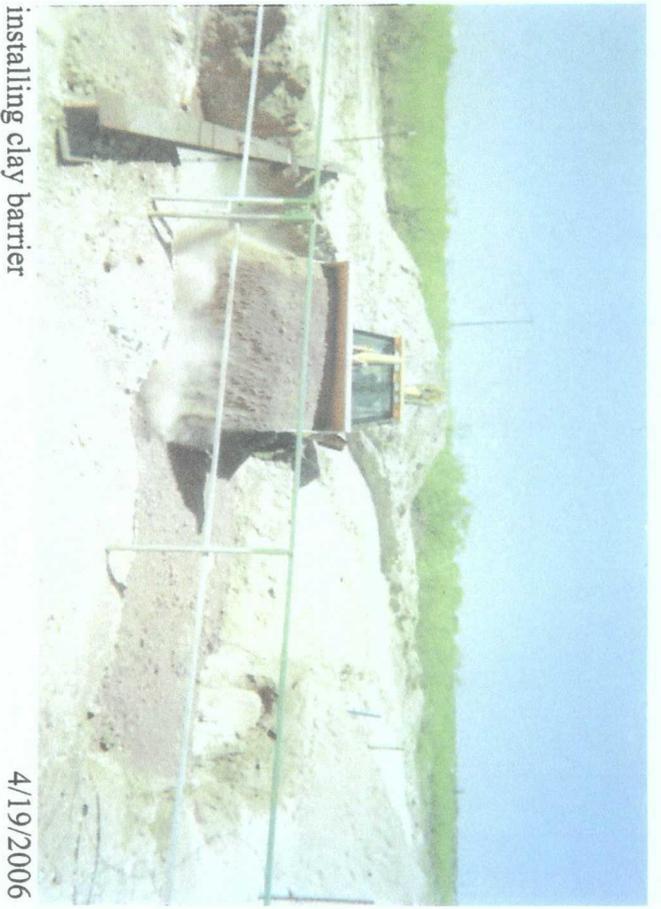
delineation trench, facing south

9/30/2005



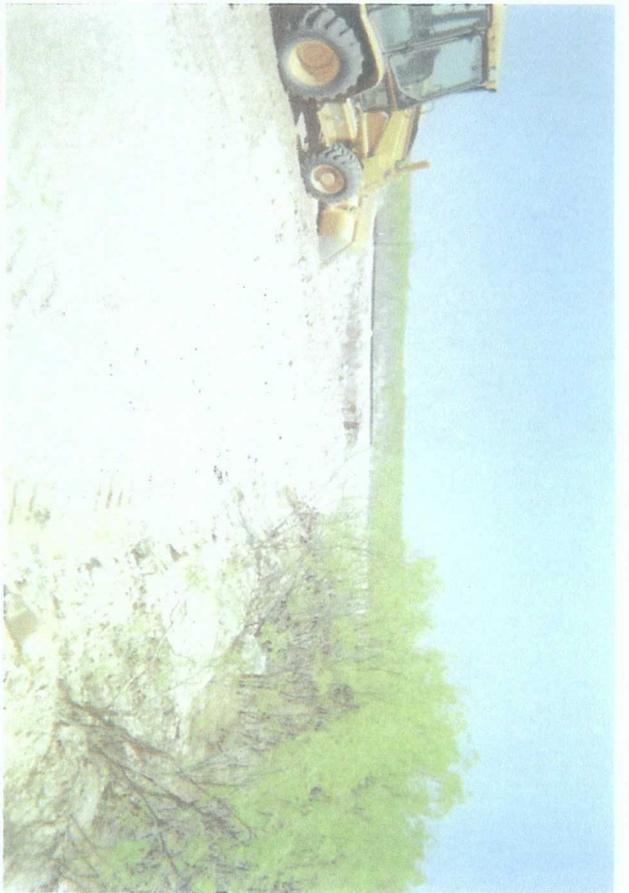
excavation, facing north

10/20/2005



installing clay barrier

4/19/2006



backfilling excavation

4/19/2006



backfilling excavation

4/20/2006

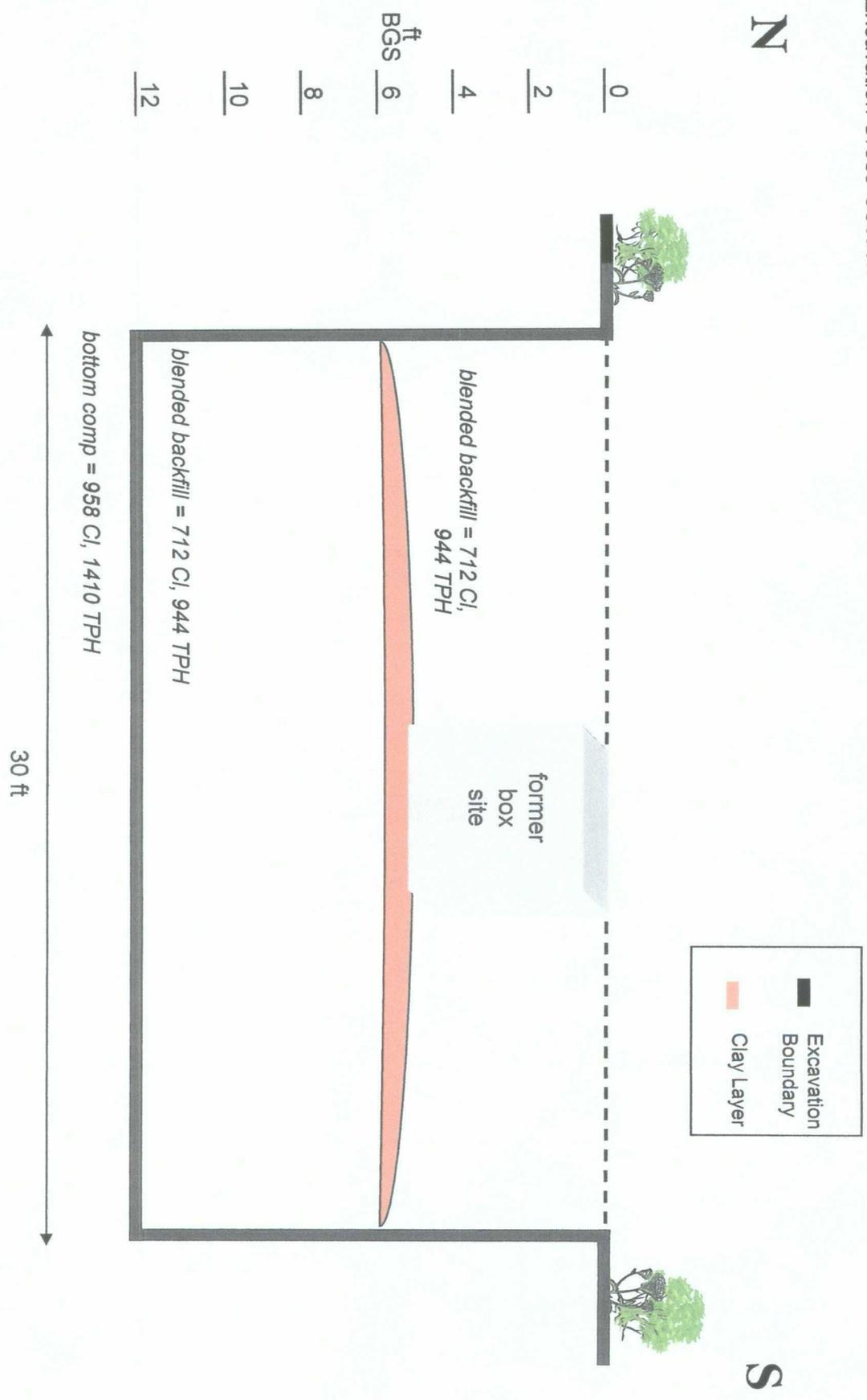


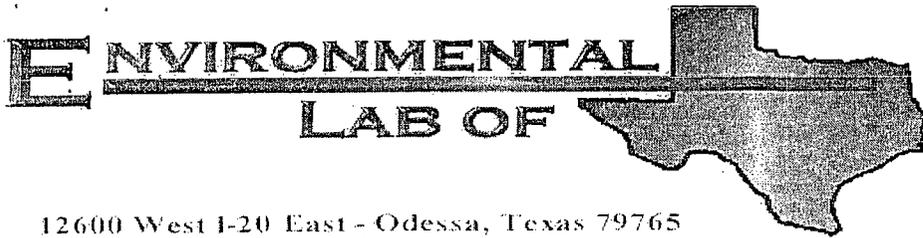
site complete

4/20/2006

**BD Jct. H-35 boot**  
**Unit H, Section 35, T21S, R37E**

**Excavation Cross-Section**





12600 West I-20 East - Odessa, Texas 79765

COPY

## Analytical Report

**Prepared for:**

Roy Rascon  
Rice Operating Co.  
122 W. Taylor  
Hobbs, NM 88240

Project: BD Jct. H-35  
Project Number: None Given  
Location: None Given

Lab Order Number: 5J03006

Report Date: 10/11/05

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/11/05 12:39

**ANALYTICAL REPORT FOR SAMPLES**

| Sample ID            | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|----------------------|---------------|--------|----------------|----------------|
| Vert. @ Source @ 14' | 5J03006-01    | Soil   | 09/30/05 11:00 | 09/30/05 17:45 |

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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/11/05 12:39

**Organics by GC**  
**Environmental Lab of Texas**

**COPY**

| Analyte                                       | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>Vert. @ Source @ 14' (5J03006-01) Soil</b> |        |                 |           |          |         |          |          |           |       |
| Benzene                                       | 3.05   | 0.200           | mg/kg dry | 200      | EJ50306 | 10/03/05 | 10/04/05 | EPA 8021B |       |
| Toluene                                       | 13.5   | 0.200           | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                  | 17.5   | 0.200           | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                  | 33.9   | 0.200           | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)                                    | 14.0   | 0.200           | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene             |        | 137 %           | 80-120    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 4-Bromofluorobenzene               |        | 125 %           | 80-120    |          | "       | "        | "        | "         | S-04  |
| Gasoline Range Organics C6-C12                | 1850   | 10.0            | mg/kg dry | 1        | EJ50309 | 10/03/05 | 10/04/05 | EPA 8015M |       |
| Diesel Range Organics >C12-C35                | 4000   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon C6-C35                      | 5850   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane                     |        | 119 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane                 |        | 118 %           | 70-130    |          | "       | "        | "        | "         |       |

Rice Operating Co.  
122 W. Taylor  
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Reported: .  
10/11/05 12:39

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

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| Analyte                                       | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|---|--------|--------------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>Vert. @ Source @ 14' (5J03006-01) Soil</b> |        |                    |       |          |         |          |          |               |       |
| Chloride                                      | 817    | 10.0               | mg/kg | 20       | EJ50605 | 10/05/05 | 10/06/05 | EPA 300.0     |       |
| % Moisture                                    | 12.4   | 0.1                | %     | 1        | EJ50404 | 10/03/05 | 10/04/05 | % calculation |       |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35  
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Project Manager: Roy Rascon

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Reported:  
10/11/05 12:39

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

**COPY**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|--------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|--------|-----|-----------|-------|

**Batch EJ50306 - EPA 5030C (GC)**

**Blank (EJ50306-BLK1)**

Prepared & Analyzed: 10/03/05

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | ND   | 0.0250 | mg/kg wet |      |  |      |        |  |  |  |
| Toluene                           | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Ethylbenzene                      | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Xylene (p/m)                      | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Xylene (o)                        | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.7 |        | ug/kg     | 40.0 |  | 96.8 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 37.4 |        | "         | 40.0 |  | 93.5 | 80-120 |  |  |  |

**LCS (EJ50306-BS1)**

Prepared & Analyzed: 10/03/05

|                                   |        |         |           |        |  |     |        |  |  |  |
|-----------------------------------|--------|---------|-----------|--------|--|-----|--------|--|--|--|
| Benzene                           | 0.0534 | 0.00100 | mg/kg wet | 0.0500 |  | 107 | 80-120 |  |  |  |
| Toluene                           | 0.0533 | 0.00100 | "         | 0.0500 |  | 107 | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0593 | 0.00100 | "         | 0.0500 |  | 119 | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.109  | 0.00100 | "         | 0.100  |  | 109 | 80-120 |  |  |  |
| Xylene (o)                        | 0.0595 | 0.00100 | "         | 0.0500 |  | 119 | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 41.1   |         | ug/kg     | 40.0   |  | 103 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 43.5   |         | "         | 40.0   |  | 109 | 80-120 |  |  |  |

**Calibration Check (EJ50306-CCV1)**

Prepared: 10/03/05 Analyzed: 10/04/05

|                                   |      |  |       |      |  |      |        |  |  |  |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene                           | 49.6 |  | ug/kg | 50.0 |  | 99.2 | 80-120 |  |  |  |
| Toluene                           | 48.9 |  | "     | 50.0 |  | 97.8 | 80-120 |  |  |  |
| Ethylbenzene                      | 54.7 |  | "     | 50.0 |  | 109  | 80-120 |  |  |  |
| Xylene (p/m)                      | 102  |  | "     | 100  |  | 102  | 80-120 |  |  |  |
| Xylene (o)                        | 57.7 |  | "     | 50.0 |  | 115  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.4 |  | "     | 40.0 |  | 96.0 | 0-200  |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 39.7 |  | "     | 40.0 |  | 99.2 | 0-200  |  |  |  |

**Matrix Spike (EJ50306-MS1)**

Source: 5I30004-02

Prepared: 10/03/05 Analyzed: 10/04/05

|                                   |        |         |           |        |    |      |        |  |  |  |
|-----------------------------------|--------|---------|-----------|--------|----|------|--------|--|--|--|
| Benzene                           | 0.0525 | 0.00100 | mg/kg dry | 0.0524 | ND | 100  | 80-120 |  |  |  |
| Toluene                           | 0.0523 | 0.00100 | "         | 0.0524 | ND | 99.8 | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0571 | 0.00100 | "         | 0.0524 | ND | 109  | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.106  | 0.00100 | "         | 0.105  | ND | 101  | 80-120 |  |  |  |
| Xylene (o)                        | 0.0563 | 0.00100 | "         | 0.0524 | ND | 107  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 38.6   |         | ug/kg     | 40.0   |    | 96.5 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 34.3   |         | "         | 40.0   |    | 85.8 | 80-120 |  |  |  |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/11/05 12:39

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

**COPY**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch EJ50306 - EPA 5030C (GC)**

| Matrix Spike Dup (EJ50306-MSD1)   |        | Source: 5I30004-02 |           | Prepared: 10/03/05 |    | Analyzed: 10/04/05 |        |      |    |
|-----------------------------------|--------|--------------------|-----------|--------------------|----|--------------------|--------|------|----|
| Benzene                           | 0.0603 | 0.00100            | mg/kg dry | 0.0524             | ND | 115                | 80-120 | 14.0 | 20 |
| Toluene                           | 0.0601 | 0.00100            | "         | 0.0524             | ND | 115                | 80-120 | 14.2 | 20 |
| Ethylbenzene                      | 0.0626 | 0.00100            | "         | 0.0524             | ND | 119                | 80-120 | 8.77 | 20 |
| Xylene (p/m)                      | 0.118  | 0.00100            | "         | 0.105              | ND | 112                | 80-120 | 10.3 | 20 |
| Xylene (o)                        | 0.0620 | 0.00100            | "         | 0.0524             | ND | 118                | 80-120 | 9.78 | 20 |
| Surrogate: a,a,a-Trifluorotoluene | 45.9   |                    | ug/kg     | 40.0               |    | 115                | 80-120 |      |    |
| Surrogate: 4-Bromofluorobenzene   | 42.0   |                    | "         | 40.0               |    | 105                | 80-120 |      |    |

**Batch EJ50309 - Solvent Extraction (GC)**

| Blank (EJ50309-BLK1)           |      | Prepared: 10/03/05 |           | Analyzed: 10/04/05 |             |
|--------------------------------|------|--------------------|-----------|--------------------|-------------|
| Gasoline Range Organics C6-C12 | ND   | 10.0               | mg/kg wet |                    |             |
| Diesel Range Organics >C12-C35 | ND   | 10.0               | "         |                    |             |
| Total Hydrocarbon C6-C35       | ND   | 10.0               | "         |                    |             |
| Surrogate: 1-Chlorooctane      | 40.3 |                    | mg/kg     | 50.0               | 80.6 70-130 |
| Surrogate: 1-Chlorooctadecane  | 48.6 |                    | "         | 50.0               | 97.2 70-130 |

| LCS (EJ50309-BS1)              |      | Prepared: 10/03/05 |           | Analyzed: 10/04/05 |             |
|--------------------------------|------|--------------------|-----------|--------------------|-------------|
| Gasoline Range Organics C6-C12 | 400  | 10.0               | mg/kg wet | 500                | 80.0 75-125 |
| Diesel Range Organics >C12-C35 | 420  | 10.0               | "         | 500                | 84.0 75-125 |
| Total Hydrocarbon C6-C35       | 820  | 10.0               | "         | 1000               | 82.0 75-125 |
| Surrogate: 1-Chlorooctane      | 52.7 |                    | mg/kg     | 50.0               | 105 70-130  |
| Surrogate: 1-Chlorooctadecane  | 53.1 |                    | "         | 50.0               | 106 70-130  |

| Calibration Check (EJ50309-CCV1) |      | Prepared: 10/03/05 |       | Analyzed: 10/04/05 |             |
|----------------------------------|------|--------------------|-------|--------------------|-------------|
| Gasoline Range Organics C6-C12   | 414  |                    | mg/kg | 500                | 82.8 80-120 |
| Diesel Range Organics >C12-C35   | 453  |                    | "     | 500                | 90.6 80-120 |
| Total Hydrocarbon C6-C35         | 867  |                    | "     | 1000               | 86.7 80-120 |
| Surrogate: 1-Chlorooctane        | 48.2 |                    | "     | 50.0               | 96.4 0-200  |
| Surrogate: 1-Chlorooctadecane    | 48.5 |                    | "     | 50.0               | 97.0 0-200  |



Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/11/05 12:39

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

**COPY**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch EJ50404 - General Preparation (Prep)**

**Blank (EJ50404-BLK1)**

Prepared: 10/03/05 Analyzed: 10/04/05

|          |     |  |   |  |  |  |  |  |  |  |
|----------|-----|--|---|--|--|--|--|--|--|--|
| % Solids | 100 |  | % |  |  |  |  |  |  |  |
|----------|-----|--|---|--|--|--|--|--|--|--|

**Duplicate (EJ50404-DUP1)**

Source: 5J03005-01

Prepared: 10/03/05 Analyzed: 10/04/05

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 91.3 |  | % |  | 92.1 |  |  | 0.872 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Batch EJ50605 - Water Extraction**

**Blank (EJ50605-BLK1)**

Prepared: 10/05/05 Analyzed: 10/06/05

|          |    |       |       |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 0.500 | mg/kg |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|

**LCS (EJ50605-BS1)**

Prepared: 10/05/05 Analyzed: 10/06/05

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 8.93 |  | mg/L | 10.0 |  | 89.3 | 80-120 |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|

**Calibration Check (EJ50605-CCV1)**

Prepared: 10/05/05 Analyzed: 10/06/05

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 9.42 |  | mg/L | 10.0 |  | 94.2 | 80-120 |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|

**Duplicate (EJ50605-DUP1)**

Source: 5J03013-01

Prepared: 10/05/05 Analyzed: 10/06/05

|          |     |      |       |  |     |  |  |      |    |  |
|----------|-----|------|-------|--|-----|--|--|------|----|--|
| Chloride | 301 | 25.0 | mg/kg |  | 315 |  |  | 4.55 | 20 |  |
|----------|-----|------|-------|--|-----|--|--|------|----|--|

### Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

COPY

Report Approved By: Raland K Tuttle Date: 10-12-05

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.



**Environmental Lab of Texas  
Variance / Corrective Action Report – Sample Log-In**

Client: Rice Operating

Date/Time: 09-30-05 @ 1745

Order #: 5 J03006

Initials: JMM

**COPY**

**Sample Receipt Checklist**

|   |                                      |    |                |   |
|---|--------------------------------------|----|----------------|---|
| Temperature of container/cooler?                          | <input checked="" type="radio"/> Yes | No | -2.0           | C |
| Shipping container/cooler in good condition?              | <input checked="" type="radio"/> Yes | No |                |   |
| Custody Seals intact on shipping container/cooler?        | <input checked="" type="radio"/> Yes | No | Not present    |   |
| Custody Seals intact on sample bottles?                   | <input checked="" type="radio"/> Yes | No | Not present    |   |
| Chain of custody present?                                 | <input checked="" type="radio"/> Yes | No |                |   |
| Sample Instructions complete on Chain of Custody?         | <input checked="" type="radio"/> Yes | No |                |   |
| Chain of Custody signed when relinquished and received?   | <input checked="" type="radio"/> Yes | No |                |   |
| Chain of custody agrees with sample label(s)              | <input checked="" type="radio"/> Yes | No |                |   |
| Container labels legible and intact?                      | <input checked="" type="radio"/> Yes | No |                |   |
| Sample Matrix and properties same as on chain of custody? | <input checked="" type="radio"/> Yes | No |                |   |
| Samples in proper container/bottle?                       | <input checked="" type="radio"/> Yes | No |                |   |
| Samples properly preserved?                               | <input checked="" type="radio"/> Yes | No |                |   |
| Sample bottles intact?                                    | <input checked="" type="radio"/> Yes | No |                |   |
| Preservations documented on Chain of Custody?             | <input checked="" type="radio"/> Yes | No |                |   |
| Containers documented on Chain of Custody?                | <input checked="" type="radio"/> Yes | No |                |   |
| Sufficient sample amount for indicated test?              | <input checked="" type="radio"/> Yes | No |                |   |
| All samples received within sufficient hold time?         | <input checked="" type="radio"/> Yes | No |                |   |
| VOC samples have zero headspace?                          | <input checked="" type="radio"/> Yes | No | Not Applicable |   |

Other observations:

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**Variance Documentation:**

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Regarding: \_\_\_\_\_

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Corrective Action Taken:

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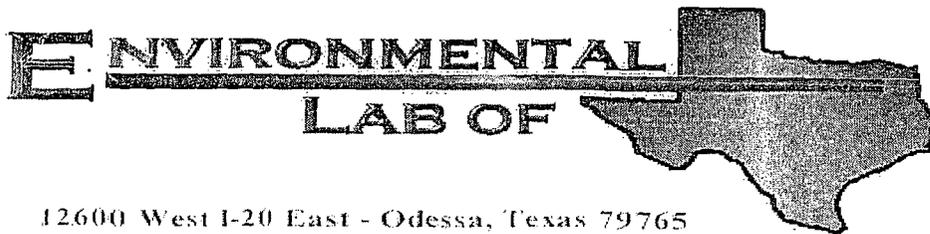
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12600 West I-20 East - Odessa, Texas 79765

30' x 25' x 12'

Excavation composites

COPY

## Analytical Report

**Prepared for:**

Roy Rascon  
Rice Operating Co.  
122 W. Taylor  
Hobbs, NM 88240

Project: BD Jct. H-35 (Boot)

Project Number: None Given

Location: None Given

Lab Order Number: 5J21002

Report Date: 10/26/05

Rice Operating Co.  
122 W: Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/26/05 14:59

ANALYTICAL REPORT FOR SAMPLES

COPY

| Sample ID                | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|--------------------------|---------------|--------|----------------|----------------|
| 5 PT Bttm Comp@ 12 Field | 5J21002-01    | Soil   | 10/20/05 08:30 | 10/21/05 08:00 |
| 4 Wall Comp.             | 5J21002-02    | Soil   | 10/20/05 09:42 | 10/21/05 08:00 |
| Remed. Soil Blended      | 5J21002-03    | Soil   | 10/20/05 14:00 | 10/21/05 08:00 |
| Bttm Point #1- #5@ 12'   | 5J21002-04    | Soil   | 10/20/05 08:20 | 10/21/05 08:00 |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/26/05 14:59

**Organics by GC**  
**Environmental Lab of Texas**



| Analyte   | Result | Reporting Limit | Units     | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|---|--------|-----------------|-----------|----------|---------|----------|----------|-----------|-------|
| <b>5 PT Bttm Comp@ 12 Field (5J21002-01) Soil</b> |        |                 |           |          |         |          |          |           |       |
| Benzene   | 0.962  | 0.0250          | mg/kg dry | 25       | EJ52109 | 10/21/05 | 10/21/05 | EPA 8021B |       |
| Toluene   | 3.71   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                      | 3.67   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                      | 6.57   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)  | 3.47   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene                 |        | 135 %           | 80-120    |          | "       | "        | "        | "         | S-04  |
| Surrogate: 4-Bromofluorobenzene                   |        | 88.5 %          | 80-120    |          | "       | "        | "        | "         |       |
| Gasoline Range Organics C6-C12                    | 422    | 10.0            | mg/kg dry | 1        | EJ52115 | 10/21/05 | 10/22/05 | EPA 8015M |       |
| Diesel Range Organics >C12-C35                    | 984    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon C6-C35                          | 1410   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane                         |        | 115 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane                     |        | 104 %           | 70-130    |          | "       | "        | "        | "         |       |
| <b>4 Wall Comp. (5J21002-02) Soil</b>             |        |                 |           |          |         |          |          |           |       |
| Gasoline Range Organics C6-C12                    | ND     | 10.0            | mg/kg dry | 1        | EJ52115 | 10/21/05 | 10/22/05 | EPA 8015M |       |
| Diesel Range Organics >C12-C35                    | 47.7   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon C6-C35                          | 47.7   | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane                         |        | 120 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane                     |        | 85.8 %          | 70-130    |          | "       | "        | "        | "         |       |
| <b>Remed. Soil Blended (5J21002-03) Soil</b>      |        |                 |           |          |         |          |          |           |       |
| Gasoline Range Organics C6-C12                    | 261    | 10.0            | mg/kg dry | 1        | EJ52115 | 10/21/05 | 10/22/05 | EPA 8015M |       |
| Diesel Range Organics >C12-C35                    | 683    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Total Hydrocarbon C6-C35                          | 944    | 10.0            | "         | "        | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctane                         |        | 111 %           | 70-130    |          | "       | "        | "        | "         |       |
| Surrogate: 1-Chlorooctadecane                     |        | 99.0 %          | 70-130    |          | "       | "        | "        | "         |       |
| <b>Bttm Point #1- #5@ 12' (5J21002-04) Soil</b>   |        |                 |           |          |         |          |          |           |       |
| Benzene   | 0.349  | 0.0250          | mg/kg dry | 25       | EJ52109 | 10/21/05 | 10/21/05 | EPA 8021B |       |
| Toluene   | 2.11   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Ethylbenzene                                      | 3.06   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (p/m)                                      | 5.58   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Xylene (o)  | 3.03   | 0.0250          | "         | "        | "       | "        | "        | "         |       |
| Surrogate: a,a,a-Trifluorotoluene                 |        | 114 %           | 80-120    |          | "       | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene                   |        | 107 %           | 80-120    |          | "       | "        | "        | "         |       |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471  
Reported:  
10/26/05 14:59

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

**COPY**

| Analyte   | Result | Reporting Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method        | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|---------------|-------|
| <b>5 PT Bttm Comp@ 12 Field (5J21002-01) Soil</b> |        |                 |       |          |         |          |          |               |       |
| Chloride  | 958    | 10.0            | mg/kg | 20       | EJ52616 | 10/25/05 | 10/26/05 | EPA 300.0     |       |
| % Moisture  | 28.5   | 0.1             | %     | 1        | EJ52501 | 10/21/05 | 10/24/05 | % calculation |       |
| <b>4 Wall Comp. (5J21002-02) Soil</b>             |        |                 |       |          |         |          |          |               |       |
| Chloride  | 180    | 10.0            | mg/kg | 20       | EJ52616 | 10/25/05 | 10/26/05 | EPA 300.0     |       |
| % Moisture  | 20.8   | 0.1             | %     | 1        | EJ52501 | 10/21/05 | 10/24/05 | % calculation |       |
| <b>Remed. Soil Blended (5J21002-03) Soil</b>      |        |                 |       |          |         |          |          |               |       |
| Chloride  | 712    | 10.0            | mg/kg | 20       | EJ52617 | 10/25/05 | 10/26/05 | EPA 300.0     |       |
| % Moisture  | 10.5   | 0.1             | %     | 1        | EJ52501 | 10/21/05 | 10/24/05 | % calculation |       |
| <b>Bttm Point #1- #5@ 12' (5J21002-04) Soil</b>   |        |                 |       |          |         |          |          |               |       |
| % Moisture  | 18.4   | 0.1             | %     | 1        | EJ52501 | 10/21/05 | 10/24/05 | % calculation |       |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/26/05 17:18

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

**COPY**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch EJ52109 - EPA 5030C (GC)**

**Blank (EJ52109-BLK1)**

Prepared & Analyzed: 10/21/05

|                                   |      |        |           |      |  |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|--|------|--------|--|--|--|
| Benzene                           | ND   | 0.0250 | mg/kg wet |      |  |      |        |  |  |  |
| Toluene                           | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Ethylbenzene                      | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Xylene (p/m)                      | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Xylene (o)                        | ND   | 0.0250 | "         |      |  |      |        |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 34.4 |        | ug/kg     | 40.0 |  | 86.0 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 35.9 |        | "         | 40.0 |  | 89.8 | 80-120 |  |  |  |

**LCS (EJ52109-BS1)**

Prepared: 10/21/05 Analyzed: 10/24/05

|                                   |        |         |           |        |  |      |        |  |  |  |
|-----------------------------------|--------|---------|-----------|--------|--|------|--------|--|--|--|
| Benzene                           | 0.0546 | 0.00100 | mg/kg wet | 0.0500 |  | 109  | 80-120 |  |  |  |
| Toluene                           | 0.0536 | 0.00100 | "         | 0.0500 |  | 107  | 80-120 |  |  |  |
| Ethylbenzene                      | 0.0594 | 0.00100 | "         | 0.0500 |  | 119  | 80-120 |  |  |  |
| Xylene (p/m)                      | 0.116  | 0.00100 | "         | 0.100  |  | 116  | 80-120 |  |  |  |
| Xylene (o)                        | 0.0576 | 0.00100 | "         | 0.0500 |  | 115  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 36.5   |         | ug/kg     | 40.0   |  | 91.2 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 43.5   |         | "         | 40.0   |  | 109  | 80-120 |  |  |  |

**Calibration Check (EJ52109-CCV1)**

Prepared: 10/21/05 Analyzed: 10/25/05

|                                   |      |  |       |      |  |      |        |  |  |  |
|-----------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Benzene                           | 53.0 |  | ug/kg | 50.0 |  | 106  | 80-120 |  |  |  |
| Toluene                           | 52.2 |  | "     | 50.0 |  | 104  | 80-120 |  |  |  |
| Ethylbenzene                      | 57.1 |  | "     | 50.0 |  | 114  | 80-120 |  |  |  |
| Xylene (p/m)                      | 108  |  | "     | 100  |  | 108  | 80-120 |  |  |  |
| Xylene (o)                        | 57.9 |  | "     | 50.0 |  | 116  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 37.8 |  | "     | 40.0 |  | 94.5 | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 40.4 |  | "     | 40.0 |  | 101  | 80-120 |  |  |  |

**Matrix Spike (EJ52109-MS1)**

Source: 5J23004-13

Prepared: 10/21/05 Analyzed: 10/25/05

|                                   |      |        |           |      |         |      |        |  |  |  |
|-----------------------------------|------|--------|-----------|------|---------|------|--------|--|--|--|
| Benzene                           | 1.43 | 0.0250 | mg/kg dry | 1.33 | 0.00952 | 107  | 80-120 |  |  |  |
| Toluene                           | 1.46 | 0.0250 | "         | 1.33 | 0.0822  | 104  | 80-120 |  |  |  |
| Ethylbenzene                      | 1.67 | 0.0250 | "         | 1.33 | 0.0801  | 120  | 80-120 |  |  |  |
| Xylene (p/m)                      | 3.39 | 0.0250 | "         | 2.66 | 0.209   | 120  | 80-120 |  |  |  |
| Xylene (o)                        | 1.57 | 0.0250 | "         | 1.33 | 0.0990  | 111  | 80-120 |  |  |  |
| Surrogate: a,a,a-Trifluorotoluene | 42.7 |        | ug/kg     | 40.0 |         | 107  | 80-120 |  |  |  |
| Surrogate: 4-Bromofluorobenzene   | 37.8 |        | "         | 40.0 |         | 94.5 | 80-120 |  |  |  |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/26/05 17:18

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

**COPY**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch EJ52109 - EPA 5030C (GC)**

| <b>Matrix Spike Dup (EJ52109-MSD1)</b> |      | <b>Source: 5J23004-13</b> |           | <b>Prepared: 10/21/05</b> |         | <b>Analyzed: 10/25/05</b> |        |       |    |
|--|------|---------------------------|-----------|---------------------------|---------|---------------------------|--------|-------|----|
| Benzene                                | 1.36 | 0.0250                    | mg/kg dry | 1.33                      | 0.00952 | 102                       | 80-120 | 4.78  | 20 |
| Toluene                                | 1.40 | 0.0250                    | "         | 1.33                      | 0.0822  | 99.1                      | 80-120 | 4.83  | 20 |
| Ethylbenzene                           | 1.66 | 0.0250                    | "         | 1.33                      | 0.0801  | 119                       | 80-120 | 0.837 | 20 |
| Xylene (p/m)                           | 3.40 | 0.0250                    | "         | 2.66                      | 0.209   | 120                       | 80-120 | 0.00  | 20 |
| Xylene (o)                             | 1.64 | 0.0250                    | "         | 1.33                      | 0.0990  | 116                       | 80-120 | 4.41  | 20 |
| Surrogate: a,a,a-Trifluorotoluene      | 40.7 |                           | ug/kg     | 40.0                      |         | 102                       | 80-120 |       |    |
| Surrogate: 4-Bromofluorobenzene        | 40.2 |                           | "         | 40.0                      |         | 100                       | 80-120 |       |    |

**Batch EJ52115 - Solvent Extraction (GC)**

| <b>Blank (EJ52115-BLK1)</b>    |      |      |           | <b>Prepared &amp; Analyzed: 10/21/05</b> |             |
|--------------------------------|------|------|-----------|--|-------------|
| Gasoline Range Organics C6-C12 | ND   | 10.0 | mg/kg wet |  |             |
| Diesel Range Organics >C12-C35 | ND   | 10.0 | "         |  |             |
| Total Hydrocarbon C6-C35       | ND   | 10.0 | "         |  |             |
| Surrogate: 1-Chlorooctane      | 47.5 |      | mg/kg     | 50.0                                     | 95.0 70-130 |
| Surrogate: 1-Chlorooctadecane  | 43.1 |      | "         | 50.0                                     | 86.2 70-130 |

| <b>LCS (EJ52115-BS1)</b>       |      |      |           | <b>Prepared &amp; Analyzed: 10/21/05</b> |             |
|--------------------------------|------|------|-----------|--|-------------|
| Gasoline Range Organics C6-C12 | 424  | 10.0 | mg/kg wet | 500                                      | 84.8 75-125 |
| Diesel Range Organics >C12-C35 | 423  | 10.0 | "         | 500                                      | 84.6 75-125 |
| Total Hydrocarbon C6-C35       | 847  | 10.0 | "         | 1000                                     | 84.7 75-125 |
| Surrogate: 1-Chlorooctane      | 57.8 |      | mg/kg     | 50.0                                     | 116 70-130  |
| Surrogate: 1-Chlorooctadecane  | 46.5 |      | "         | 50.0                                     | 93.0 70-130 |

| <b>Calibration Check (EJ52115-CCV1)</b> |      |  |       | <b>Prepared: 10/21/05 Analyzed: 10/22/05</b> |             |
|---|------|--|-------|--|-------------|
| Gasoline Range Organics C6-C12          | 487  |  | mg/kg | 500  | 97.4 80-120 |
| Diesel Range Organics >C12-C35          | 597  |  | "     | 500  | 119 80-120  |
| Total Hydrocarbon C6-C35                | 1080 |  | "     | 1000   | 108 80-120  |
| Surrogate: 1-Chlorooctane               | 58.1 |  | "     | 50.0   | 116 70-130  |
| Surrogate: 1-Chlorooctadecane           | 56.6 |  | "     | 50.0   | 113 70-130  |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/26/05 14:59

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch EJ52115 - Solvent Extraction (GC)**

**Matrix Spike (EJ52115-MS1)**

Source: 5J20033-04

Prepared & Analyzed: 10/21/05

|                                |      |      |           |      |    |      |        |  |  |  |
|--------------------------------|------|------|-----------|------|----|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 496  | 10.0 | mg/kg dry | 575  | ND | 86.3 | 75-125 |  |  |  |
| Diesel Range Organics >C12-C35 | 503  | 10.0 | "         | 575  | ND | 87.5 | 75-125 |  |  |  |
| Total Hydrocarbon C6-C35       | 999  | 10.0 | "         | 1150 | ND | 86.9 | 75-125 |  |  |  |
| Surrogate: 1-Chlorooctane      | 59.1 |      | mg/kg     | 50.0 |    | 118  | 70-130 |  |  |  |
| Surrogate: 1-Chlorooctadecane  | 45.2 |      | "         | 50.0 |    | 90.4 | 70-130 |  |  |  |

**Matrix Spike Dup (EJ52115-MSD1)**

Source: 5J20033-04

Prepared: 10/21/05 Analyzed: 10/24/05

|                                |      |      |           |      |    |      |        |       |    |  |
|--------------------------------|------|------|-----------|------|----|------|--------|-------|----|--|
| Gasoline Range Organics C6-C12 | 504  | 10.0 | mg/kg dry | 575  | ND | 87.7 | 75-125 | 1.60  | 20 |  |
| Diesel Range Organics >C12-C35 | 494  | 10.0 | "         | 575  | ND | 85.9 | 75-125 | 1.81  | 20 |  |
| Total Hydrocarbon C6-C35       | 998  | 10.0 | "         | 1150 | ND | 86.8 | 75-125 | 0.100 | 20 |  |
| Surrogate: 1-Chlorooctane      | 59.9 |      | mg/kg     | 50.0 |    | 120  | 70-130 |       |    |  |
| Surrogate: 1-Chlorooctadecane  | 49.2 |      | "         | 50.0 |    | 98.4 | 70-130 |       |    |  |

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
10/26/05 14:59

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

**COPY**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch EJ52501 - General Preparation (Prep)**

**Blank (EJ52501-BLK1)**

Prepared: 10/21/05 Analyzed: 10/24/05

|          |     |  |   |  |  |  |  |  |  |  |
|----------|-----|--|---|--|--|--|--|--|--|--|
| % Solids | 100 |  | % |  |  |  |  |  |  |  |
|----------|-----|--|---|--|--|--|--|--|--|--|

**Duplicate (EJ52501-DUP1)**

Source: 5J21002-01

Prepared: 10/21/05 Analyzed: 10/24/05

|          |      |  |   |  |      |  |  |       |    |  |
|----------|------|--|---|--|------|--|--|-------|----|--|
| % Solids | 71.9 |  | % |  | 71.5 |  |  | 0.558 | 20 |  |
|----------|------|--|---|--|------|--|--|-------|----|--|

**Batch EJ52616 - Water Extraction**

**Blank (EJ52616-BLK1)**

Prepared: 10/25/05 Analyzed: 10/26/05

|          |    |       |       |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 0.500 | mg/kg |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|

**LCS (EJ52616-BS1)**

Prepared: 10/25/05 Analyzed: 10/26/05

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 8.39 |  | mg/L | 10.0 |  | 83.9 | 80-120 |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|

**Calibration Check (EJ52616-CCV1)**

Prepared: 10/25/05 Analyzed: 10/26/05

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 8.49 |  | mg/L | 10.0 |  | 84.9 | 80-120 |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|

**Duplicate (EJ52616-DUP1)**

Source: 5J19002-01

Prepared: 10/25/05 Analyzed: 10/26/05

|          |     |      |       |  |     |  |  |      |    |  |
|----------|-----|------|-------|--|-----|--|--|------|----|--|
| Chloride | 390 | 10.0 | mg/kg |  | 394 |  |  | 1.02 | 20 |  |
|----------|-----|------|-------|--|-----|--|--|------|----|--|

**Batch EJ52617 - Water Extraction**

**Blank (EJ52617-BLK1)**

Prepared: 10/25/05 Analyzed: 10/26/05

|          |    |       |       |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|
| Chloride | ND | 0.500 | mg/kg |  |  |  |  |  |  |  |
|----------|----|-------|-------|--|--|--|--|--|--|--|

**LCS (EJ52617-BS1)**

Prepared: 10/25/05 Analyzed: 10/26/05

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 8.21 |  | mg/L | 10.0 |  | 82.1 | 80-120 |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: BD Jct. H-35 (Boot)  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471  
Reported:  
10/26/05 14:59

General Chemistry Parameters by EPA / Standard Methods - Quality Control  
Environmental Lab of Texas

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| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch EJ52617 - Water Extraction

Calibration Check (EJ52617-CCV1)

Prepared: 10/25/05 Analyzed: 10/26/05

|          |      |  |      |      |  |      |        |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|
| Chloride | 8.37 |  | mg/L | 10.0 |  | 83.7 | 80-120 |  |  |  |
|----------|------|--|------|------|--|------|--------|--|--|--|

Duplicate (EJ52617-DUP1)

Source: 5J21002-03

Prepared: 10/25/05 Analyzed: 10/26/05

|          |     |      |       |  |     |  |  |      |    |  |
|----------|-----|------|-------|--|-----|--|--|------|----|--|
| Chloride | 766 | 10.0 | mg/kg |  | 712 |  |  | 7.31 | 20 |  |
|----------|-----|------|-------|--|-----|--|--|------|----|--|

**Notes and Definitions**

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- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Cele D. Keene

Date:

10/26/05

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.



**Environmental Lab of Texas  
Variance / Corrective Action Report – Sample Log-In**

Client: RICE DP  
 Date/Time: 10/21/05 8:00  
 Order #: 552100  
 Initials: CK

COPY

**Sample Receipt Checklist**

|   |                |    |                |
|---|----------------|----|----------------|
| Temperature of container/cooler?                          | Yes            | No | 1,0 C          |
| Shipping container/cooler in good condition?              | <del>Yes</del> | No |                |
| Custody Seals intact on shipping container/cooler?        | <del>Yes</del> | No | Not present    |
| Custody Seals intact on sample bottles?                   | <del>Yes</del> | No | Not present    |
| Chain of custody present?                                 | <del>Yes</del> | No |                |
| Sample Instructions complete on Chain of Custody?         | <del>Yes</del> | No |                |
| Chain of Custody signed when relinquished and received?   | <del>Yes</del> | No |                |
| Chain of custody agrees with sample label(s)              | <del>Yes</del> | No |                |
| Container labels legible and intact?                      | <del>Yes</del> | No |                |
| Sample Matrix and properties same as on chain of custody? | <del>Yes</del> | No |                |
| Samples in proper container/bottle?                       | <del>Yes</del> | No |                |
| Samples properly preserved?                               | <del>Yes</del> | No |                |
| Sample bottles intact?                                    | <del>Yes</del> | No |                |
| Preservations documented on Chain of Custody?             | <del>Yes</del> | No |                |
| Containers documented on Chain of Custody?                | <del>Yes</del> | No |                |
| Sufficient sample amount for indicated test?              | <del>Yes</del> | No |                |
| All samples received within sufficient hold time?         | <del>Yes</del> | No |                |
| VOC samples have zero headspace?                          | <del>Yes</del> | No | Not Applicable |

Other observations:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Variance Documentation:**

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_  
 Regarding: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

25 x 30' x 12'

122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240  
PHONE: (505) 393-9174 FAX: (505) 397-1471  
**VOC FIELD TEST REPORT FORM**  
MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S  
CALIBRATION GAS  
GAS COMPOSITION: ISOBUTYLENE  
AIR  
LOT NO: 04-2747  
EXP. DATE: 8-1-06  
METER READING  
ACCURACY: 99.5

SERIAL NO: 104412  
100 PPM  
BALANCE  
FILL DATE: 2-1-05  
ACCURACY: +/- 2%

**COPY**

| SYSTEM | JUNCTION       | UNIT | SECTION | TOWNSHIP | RANGE |
|--------|----------------|------|---------|----------|-------|
| 80     | (Boot)<br>H-35 | H    | 35      | 215      | 37E   |

| SAMPLE                       | PID RESULT      | SAMPLE | PID RESULT |
|------------------------------|-----------------|--------|------------|
| <del>Top Pt. 1 @ 12'</del>   | <del>58.6</del> |        |            |
| <del>4' Well Comp.</del>     | <del>79.9</del> |        |            |
| <del>Remed. Soil @ 12'</del> | <del>62.1</del> |        |            |
| Btm Pt 1 @ 12'               | 51.9            |        |            |
| Btm Pt 2 @ 12'               | 19.1            |        |            |
| Btm Pt 3 @ 12'               | 135.6           |        |            |
| Btm Pt 4 @ 12'               | 91.6            |        |            |
| Btm Pt 5 @ 12'               | 40.8            |        |            |
|                              |                 |        |            |
|                              |                 |        |            |
|                              |                 |        |            |
|                              |                 |        |            |

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

K. D. Clark  
Signature

10-20-05  
Date

# 2008 BTEX Study

# Revised Junction Box Upgrade Plan (2003)

System: BD  
 Site: Jct. H-35 boot

Date: 10/20/2005  
 Sampler: Kevin Collins

Laboratory: Environmental Lab  
 of Texas

| Location                      | Component | PID reading (ppm) | FIELD COMPOSITE (mg/kg) |         |               |               |
|-------------------------------|-----------|-------------------|-------------------------|---------|---------------|---------------|
|                               |           |                   | Benzene                 | Toluene | Ethyl Benzene | Total Xylenes |
| bottom composite at 12 ft BGS | 1         | 51.9              |                         |         |               |               |
|                               | 2         | 19.1              |                         |         |               |               |
|                               | 3         | 135.6             | 0.962                   | 3.71    | 3.67          |               |
|                               | 4         | 91.6              |                         |         |               |               |
|                               | 5         | 40.8              |                         |         |               |               |
|                               |           |                   | LAB COMPOSITE (mg/kg)   |         |               |               |
|                               |           |                   | 0.349                   | 2.11    | 3.06          | 8.61          |

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.  
 Revised Junction Box Upgrade Work Plan (July 16, 2003)

CHLORIDE CONCENTRATION CURVE

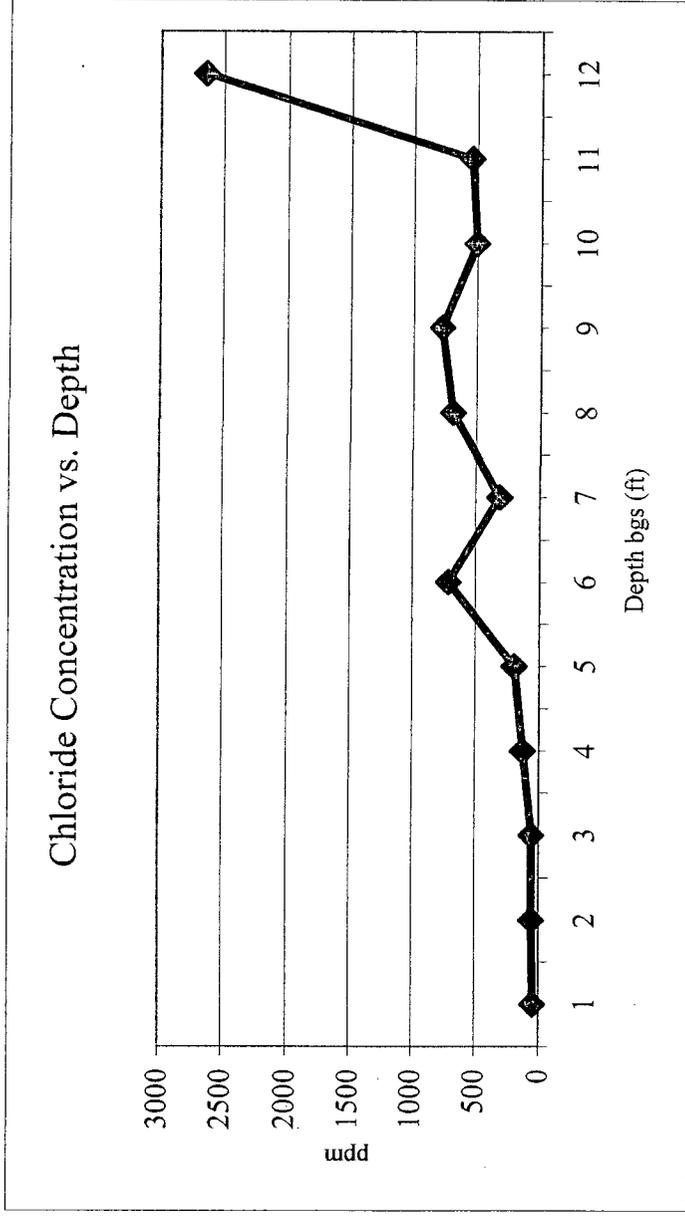
RICE Operating Company

**BD Jct. H-35 boot**

unit 'H', Sec. 35, T21S, R37E

*Backhoe samples at 10 ft north of junction (source)*

| Depth bgs (ft) | [Cl] ppm |
|----------------|----------|
| 1              | 47       |
| 2              | 58       |
| 3              | 59       |
| 4              | 128      |
| 5              | 195      |
| 6              | 712      |
| 7              | 312      |
| 8              | 684      |
| 9              | 771      |
| 10             | 502      |
| 11             | 542      |
| 12             | 2642     |



Groundwater = 44 ft