

1R - 427 - 156

REPORTS

DATE:

10-20-24

EME U-6-2 Vent

1R0427-156

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET | | |
|------------|------------|------|---------|----------|-------|--------|----------------------------|-------|-------|
| | | | | | | | Length | Width | Depth |
| EME | U-6-2 vent | UNIT | 6 | 21S | 36E | Lea | no box-junction eliminated | | |

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater 140 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 9/14/2004 Date Completed 9/23/2004 OCD Witness No

Soil Excavated 18 cubic yards Excavation Length 4 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 9/14/2004 Sample Depth 12 ft

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

CHLORIDE FIELD TESTS

| Sample Location | PID ppm | GRO mg/kg | DRO mg/kg | Chloride mg/kg |
|---------------------------|---------|-----------|-----------|----------------|
| VERTICAL GRAB @ 12 ft BGS | 1.0 | <10.0 | <10.0 | <20 |

| LOCATION | DEPTH (ft) | ppm |
|---|------------|-----|
| Vertical delineation trench at junction | 4 | 239 |
| | 6 | 120 |
| | 8 | 89 |
| | 10 | 89 |
| | 12 | 89 |
| background | 0.5 | 142 |

General Description of Remedial Action: This junction box contained a vent and exhibited no visible indications of hydrocarbon or chloride impact. The box was surrounded by healthy native vegetation. The junction was eliminated with the pipeline replacement project. The box lumber was removed and the site was delineated using a backhoe while PID field screenings and chloride field tests were conducted every 2 ft down to 12 ft BGS. PID readings were low and TPH lab results confirmed concentrations well below NMOCD guidelines. Chloride concentrations were very low and no further excavation was warranted. The excavated soil was blended and backfilled into the hole. The disturbed surface was seeded with a blend of native vegetation on 9/23/2004 and is expected to return to productive capacity at a normal rate.

enclosures: chloride graph, photos, lab results, PID field screenings

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

SITE SUPERVISOR Rob Elam SIGNATURE not available COMPANY Curt's Environmental—Odessa, Texas

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE *Kristin Farris Pope*
DATE 10/20/2004 TITLE Project Scientist

EMME jct. U-6-2

unit 'U', Sec. 6, T21S, R36E



undisturbed junction box

8/24/2004



delineation trench 12 ft deep at former junction site

9/14/2004



backfilled; seeding disturbed surface

9/23/2004



completed backfilled site; junction eliminated (looking east)

9/23/2004

EMF U-6-2 vent

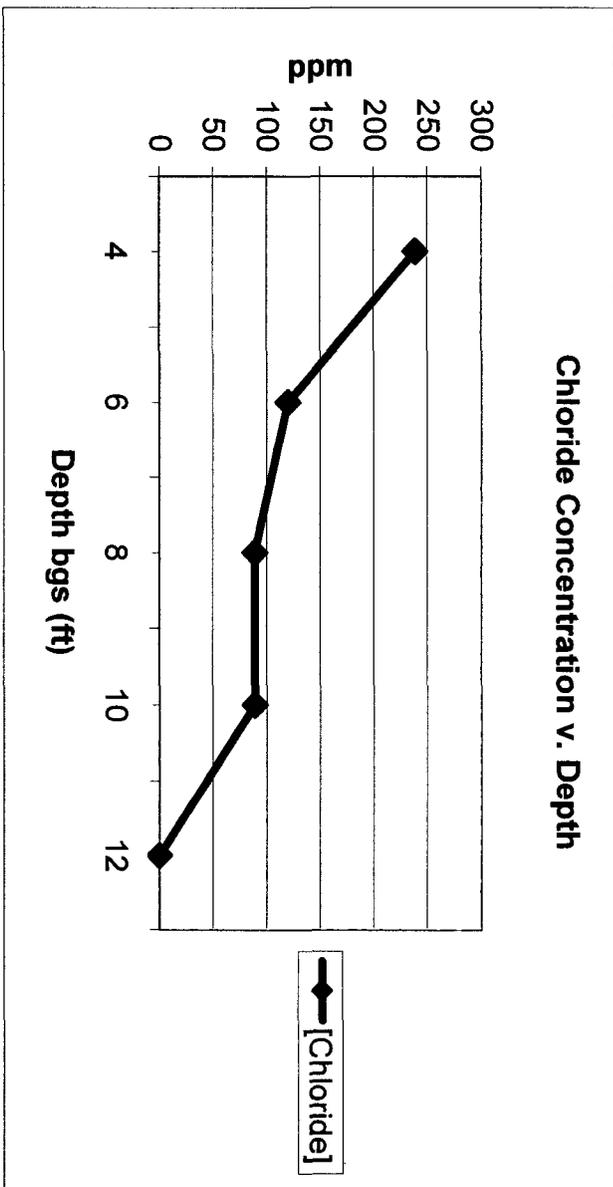
unit 'U', Sec. 6, T21S, R36E

Vertical Delineation at Source

| Depth bgs (ft) | [Cl ⁻] ppm |
|----------------|------------------------|
| 4 | 239 |
| 6 | 120 |
| 8 | 89 |
| 10 | 89 |
| 12 | 20 * |

* Lab analysis yielded chloride concentration <20 ppm.

Groundwater = 140 ft



RICE OPERATING COMPANY

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

SERIAL NO: ~~104412~~ ¹⁰⁴⁵⁵⁰

100 PPM
 BALANCE
 FILL DATE: 4-19-04
 ACCURACY: ± 2%

AIR
 LOT NO: 03-2475
 EXP. DATE: 10-19-04
 METER READING
 ACCURACY: 100.0

| SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE |
|--------|---------------|------|---------|----------|-------|
| EME | Vent U-6-2 | U | 6 | 21 | 36 |

| SAMPLE | PID RESULT | SAMPLE | PID RESULT |
|-----------|------------|--------|------------|
| Source 4' | 11.3 | | |
| 6' | 18.8 | | |
| 8' | 4.8 | | |
| 10' | 1.9 | | |
| 12' | 1.0 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

Rob Elam

Signature

Title

9-14-04

Date



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: EME Vent U-6-2
Project Number: None Given
Location: RRR

Lab Order Number: 4116006

Report Date: 09/22/04

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

Project: EME Vent U-6-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471
Reported:
09/22/04 10:00

ANALYTICAL REPORT FOR SAMPLES

| Sample ID | Laboratory ID | Matrix | Date Sampled | Date Received |
|------------|---------------|--------|----------------|----------------|
| 12' Source | 4I16006-01 | Solid | 09/14/04 15:20 | 09/16/04 08:00 |

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

Project: EME Vent U-6-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/22/04 10:00

Organics by GC
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|-----------|-------|
| 12' Source (4116006-01) Solid | | | | | | | | | |
| Gasoline Range Organics C6-C12 | ND | 10.0 | mg/kg dry | 1 | E141719 | 09/17/04 | 09/19/04 | EPA 8015M | |
| Diesel Range Organics >C12-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Total Hydrocarbon C6-C35 | ND | 10.0 | " | " | " | " | " | " | |
| Surrogate: 1-Chlorooctane | | 91.8 % | 70-130 | | " | " | " | " | |
| Surrogate: 1-Chlorooctadecane | | 92.4 % | 70-130 | | " | " | " | " | |

| | | |
|--|--|---|
| Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 | Project: EME Vent U-6-2 Project Number: None Given Project Manager: Roy Rascon | Fax: (505) 397-1471 Reported: 09/22/04 10:00 |
|--|--|---|

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

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--------------------------------------|--------|--------------------|-----------|----------|---------|----------|----------|---------------|-------|
| 12' Source (4116006-01) Solid | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | 2 | EI42112 | 09/16/04 | 09/21/04 | SW 846 9253 | |
| % Solids | 94.0 | | % | 1 | EI41707 | 09/16/04 | 09/16/04 | % calculation | |

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

Project: EME Vent U-6-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/22/04 10:00

Organics by GC - Quality Control
Environmental Lab of Texas

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | RPD RPD | RPD Limit | Notes |
|--|--------|-----------------|-----------|-------------|---------------------------------------|-----------|---------|-----------|-------|
| Batch EI41719 - Solvent Extraction (GC) | | | | | | | | | |
| Blank (EI41719-BLK1) | | | | | Prepared: 09/17/04 Analyzed: 09/19/04 | | | | |
| 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 | 44.2 | | mg/kg | 50.0 | | 88.4 | | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 41.8 | | " | 50.0 | | 83.6 | | 70-130 | |
| Blank (EI41719-BLK2) | | | | | Prepared: 09/17/04 Analyzed: 09/19/04 | | | | |
| 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 | 48.3 | | mg/kg | 50.0 | | 96.6 | | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 36.3 | | " | 50.0 | | 72.6 | | 70-130 | |
| LCS (EI41719-BS1) | | | | | Prepared: 09/17/04 Analyzed: 09/19/04 | | | | |
| Gasoline Range Organics C6-C12 | 426 | 10.0 | mg/kg wet | 500 | | 85.2 | | 75-125 | |
| Diesel Range Organics >C12-C35 | 498 | 10.0 | " | 500 | | 99.6 | | 75-125 | |
| Total Hydrocarbon C6-C35 | 924 | 10.0 | " | 1000 | | 92.4 | | 75-125 | |
| Surrogate: 1-Chlorooctane | 51.3 | | mg/kg | 50.0 | | 103 | | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 56.4 | | " | 50.0 | | 113 | | 70-130 | |
| LCS (EI41719-BS2) | | | | | Prepared: 09/17/04 Analyzed: 09/19/04 | | | | |
| Gasoline Range Organics C6-C12 | 415 | 10.0 | mg/kg wet | 500 | | 83.0 | | 75-125 | |
| Diesel Range Organics >C12-C35 | 505 | 10.0 | " | 500 | | 101 | | 75-125 | |
| Total Hydrocarbon C6-C35 | 920 | 10.0 | " | 1000 | | 92.0 | | 75-125 | |
| Surrogate: 1-Chlorooctane | 54.0 | | mg/kg | 50.0 | | 108 | | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 44.3 | | " | 50.0 | | 88.6 | | 70-130 | |
| Calibration Check (EI41719-CCV1) | | | | | Prepared: 09/17/04 Analyzed: 09/19/04 | | | | |
| Gasoline Range Organics C6-C12 | 425 | | mg/kg | 500 | | 85.0 | | 80-120 | |
| Diesel Range Organics >C12-C35 | 520 | | " | 500 | | 104 | | 80-120 | |
| Total Hydrocarbon C6-C35 | 945 | | " | 1000 | | 94.5 | | 80-120 | |
| Surrogate: 1-Chlorooctane | 52.0 | | " | 50.0 | | 104 | | 70-130 | |
| Surrogate: 1-Chlorooctadecane | 47.9 | | " | 50.0 | | 95.8 | | 70-130 | |

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

Project: EME Vent U-6-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471
Reported:
09/22/04 10:00

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 EI41719 - Solvent Extraction (GC)

Calibration Check (EI41719-CCV2)

Prepared: 09/17/04 Analyzed: 09/19/04

| | | | | | | | | | | |
|--------------------------------|------|--|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 427 | | mg/kg | 500 | | 85.4 | 80-120 | | | |
| Diesel Range Organics >C12-C35 | 483 | | " | 500 | | 96.6 | 80-120 | | | |
| Total Hydrocarbon C6-C35 | 910 | | " | 1000 | | 91.0 | 80-120 | | | |
| Surrogate: 1-Chlorooctane | 51.6 | | " | 50.0 | | 103 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 47.0 | | " | 50.0 | | 94.0 | 70-130 | | | |

Matrix Spike (EI41719-MS1)

Source: 4I16003-01

Prepared: 09/17/04 Analyzed: 09/19/04

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|----|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 469 | 10.0 | mg/kg dry | 521 | ND | 90.0 | 75-125 | | | |
| Diesel Range Organics >C12-C35 | 555 | 10.0 | " | 521 | ND | 107 | 75-125 | | | |
| Total Hydrocarbon C6-C35 | 1020 | 10.0 | " | 1040 | ND | 98.1 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 55.9 | | mg/kg | 50.0 | | 112 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 52.5 | | " | 50.0 | | 105 | 70-130 | | | |

Matrix Spike (EI41719-MS2)

Source: 4I17004-13

Prepared: 09/17/04 Analyzed: 09/19/04

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|------|------|--------|--|--|--|
| Gasoline Range Organics C6-C12 | 506 | 10.0 | mg/kg dry | 549 | ND | 92.2 | 75-125 | | | |
| Diesel Range Organics >C12-C35 | 627 | 10.0 | " | 549 | 15.3 | 111 | 75-125 | | | |
| Total Hydrocarbon C6-C35 | 1130 | 10.0 | " | 1100 | 15.3 | 101 | 75-125 | | | |
| Surrogate: 1-Chlorooctane | 55.1 | | mg/kg | 50.0 | | 110 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 54.7 | | " | 50.0 | | 109 | 70-130 | | | |

Matrix Spike Dup (EI41719-MSD1)

Source: 4I16003-01

Prepared: 09/17/04 Analyzed: 09/19/04

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|----|------|--------|------|----|--|
| Gasoline Range Organics C6-C12 | 478 | 10.0 | mg/kg dry | 521 | ND | 91.7 | 75-125 | 1.90 | 20 | |
| Diesel Range Organics >C12-C35 | 577 | 10.0 | " | 521 | ND | 111 | 75-125 | 3.89 | 20 | |
| Total Hydrocarbon C6-C35 | 1060 | 10.0 | " | 1040 | ND | 102 | 75-125 | 3.85 | 20 | |
| Surrogate: 1-Chlorooctane | 57.5 | | mg/kg | 50.0 | | 115 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 53.8 | | " | 50.0 | | 108 | 70-130 | | | |

Matrix Spike Dup (EI41719-MSD2)

Source: 4I17004-13

Prepared: 09/17/04 Analyzed: 09/19/04

| | | | | | | | | | | |
|--------------------------------|------|------|-----------|------|------|------|--------|-------|----|--|
| Gasoline Range Organics C6-C12 | 522 | 10.0 | mg/kg dry | 549 | ND | 95.1 | 75-125 | 3.11 | 20 | |
| Diesel Range Organics >C12-C35 | 630 | 10.0 | " | 549 | 15.3 | 112 | 75-125 | 0.477 | 20 | |
| Total Hydrocarbon C6-C35 | 1150 | 10.0 | " | 1100 | 15.3 | 103 | 75-125 | 1.75 | 20 | |
| Surrogate: 1-Chlorooctane | 57.0 | | mg/kg | 50.0 | | 114 | 70-130 | | | |
| Surrogate: 1-Chlorooctadecane | 57.5 | | " | 50.0 | | 115 | 70-130 | | | |

Environmental Lab of Texas

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

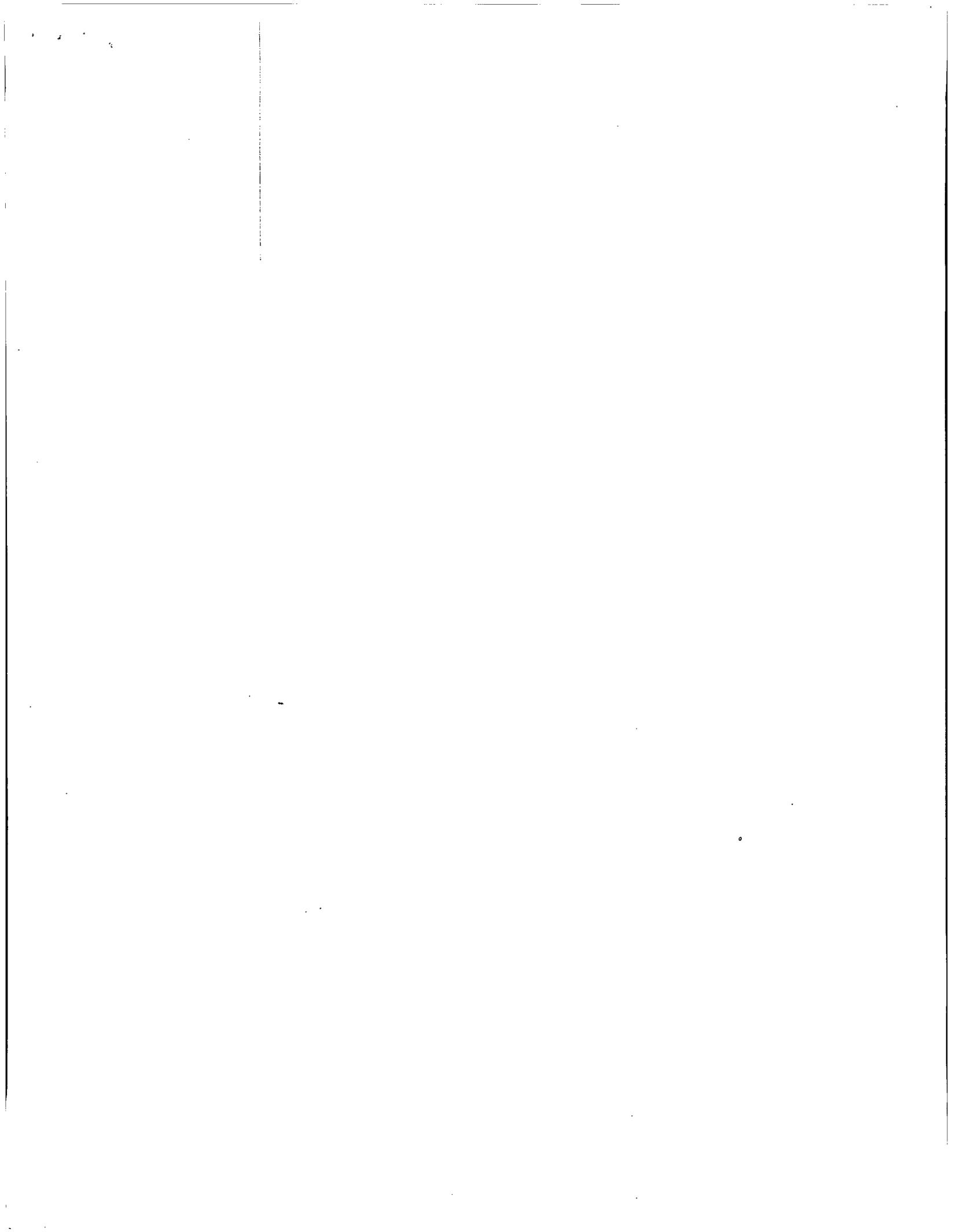
Project: EME Vent U-6-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/22/04 10:00

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| Batch EI41707 - % Solids | | | | | | | | | | |
| Blank (EI41707-BLK1) Prepared & Analyzed: 09/16/04 | | | | | | | | | | |
| % Solids | 100 | | % | | | | | | | |
| Duplicate (EI41707-DUP1) Source: 4115011-01 Prepared & Analyzed: 09/16/04 | | | | | | | | | | |
| % Solids | 100 | | % | | 100 | | | 0.00 | 20 | |
| Batch EI42112 - Water Extraction | | | | | | | | | | |
| Blank (EI42112-BLK1) Prepared: 09/16/04 Analyzed: 09/21/04 | | | | | | | | | | |
| Chloride | ND | 20.0 | mg/kg Wet | | | | | | | |
| Matrix Spike (EI42112-MS1) Source: 4116001-01 Prepared: 09/16/04 Analyzed: 09/21/04 | | | | | | | | | | |
| Chloride | 1300 | 20.0 | mg/kg Wet | 500 | 830 | 94.0 | 80-120 | | | |
| Matrix Spike Dup (EI42112-MSD1) Source: 4116001-01 Prepared: 09/16/04 Analyzed: 09/21/04 | | | | | | | | | | |
| Chloride | 1300 | 20.0 | mg/kg Wet | 500 | 830 | 94.0 | 80-120 | 0.00 | 20 | |
| Reference (EI42112-SRM1) Prepared & Analyzed: 09/21/04 | | | | | | | | | | |
| Chloride | 4940 | | mg/kg | 5000 | | 98.8 | 80-120 | | | |



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

Project: EME Vent U-6-2
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
09/22/04 10:00

Notes and Definitions

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:

Raland K Tuttle

Date:

9/22/04

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas

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