

**1R - 427 - 82**

# **REPORTS**

**DATE:**

**1-9-2003**

1R0427-82

# FINAL REPORT

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	A-26	A	26	20 S	36 E	Lea	Length	Width	Depth
							under construction		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER \_\_\_\_\_ Tuffy Cooper \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater \_\_\_\_\_ >100 \_\_\_\_\_ feet NMOCD SITE ASSESSMENT RANKING SCORE: \_\_\_\_\_ 0 \_\_\_\_\_

Date Started \_\_\_\_\_ 12/18/2002 \_\_\_\_\_ Date Completed \_\_\_\_\_ 12/26/2002 \_\_\_\_\_ OCD Witness \_\_\_\_\_ No \_\_\_\_\_

Soil Excavated \_\_\_\_\_ 96 \_\_\_\_\_ cubic yards Excavation Length \_\_\_\_\_ 20 \_\_\_\_\_ Width \_\_\_\_\_ 13 \_\_\_\_\_ Depth \_\_\_\_\_ 10 \_\_\_\_\_ feet

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

**FINAL ANALYTICAL RESULTS:** Sample Date \_\_\_\_\_ 12/23/2002 \_\_\_\_\_ Sample Depth \_\_\_\_\_ 10' 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
SIDEWALLS	<0.025	0.031	0.144	<0.470	75.7	809	1450
BOTTOM	<0.025	0.036	0.065	<0.419	86.5	603	496
REMEDIAED	<0.025	0.075	0.125	<0.701	186	977	532

**General Description of Remedial Action:** \_\_\_\_\_ This junction contained a boot in the past \_\_\_\_\_

\_\_\_\_\_ and is located near a production facility. The area between the junction and the facility is overlaid by hardpan. Vertically, TPH virtually ceased at 10' bgs and chlorides exhibited a decline. The impacted soil below the junction box was excavated until visual TPH diminished.

\_\_\_\_\_ A 20' x 13' x 10' excavation was created where TPH was below guideline concentrations.

\_\_\_\_\_ A clay barrier was installed at the bottom of the excavation at 10' bgs to slow vertical migration of the impact in the future. The excavated soil was then land-farmed on location and backfilled into the excavation. The residual TPH in the backfilled soil is expected to naturally attenuate. The junction has been re-plumbed and a water-tight box has been built over the location.

cc: lab results; diagram

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	ppm
Vertical	4'	1482
	8'	1095
	14'	673
10' E	10'	1436
10' W	10'	706
8' S	10'	953
5' N	10'	947
Bottom Comp.	10'	769
Wall Comp.	8'	1809
Remed. Comp.	n/a	641

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

DATE \_\_\_\_\_ 1/9/2003 \_\_\_\_\_

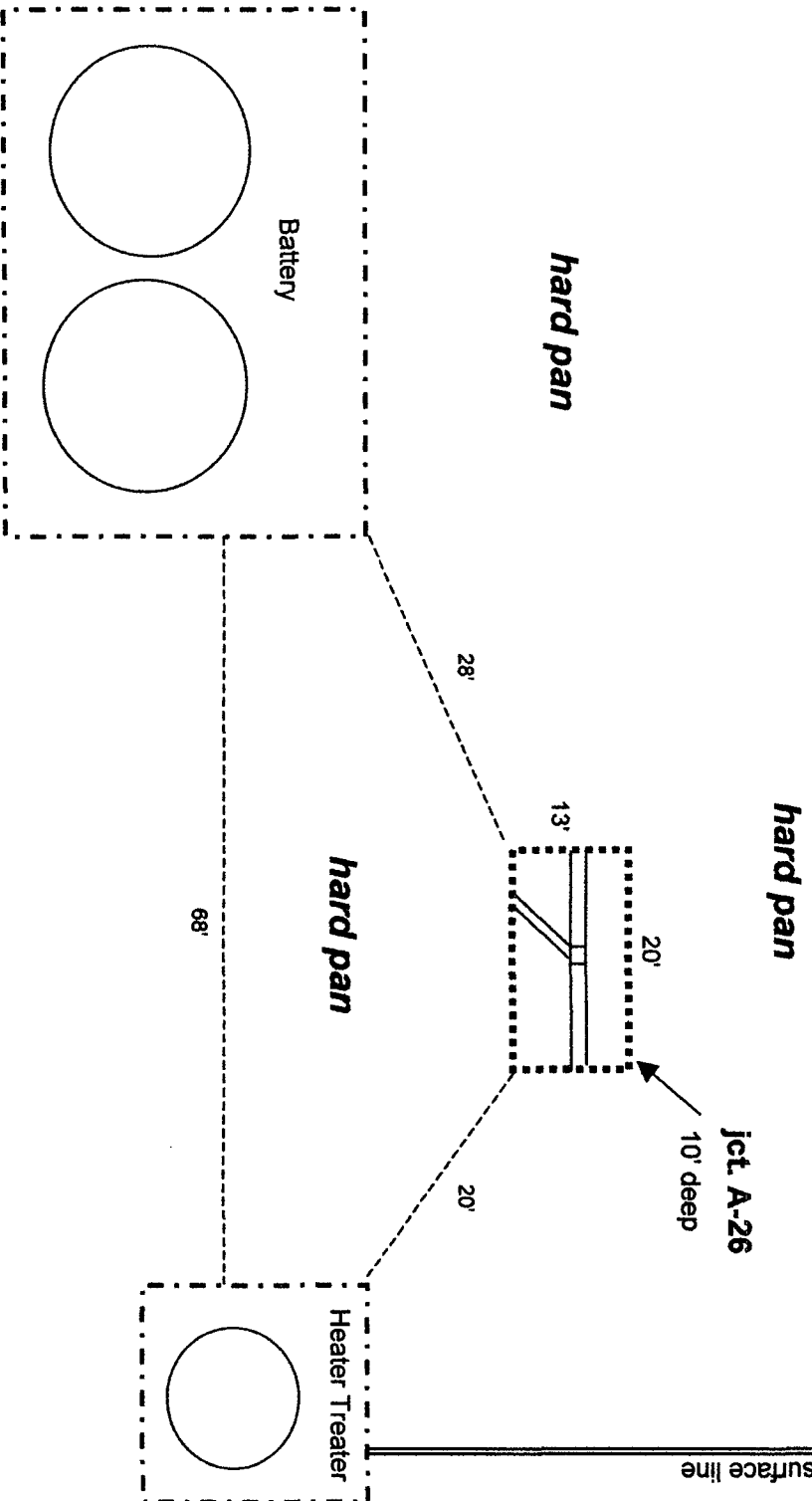
PRINTED NAME \_\_\_\_\_ Kristin Farris \_\_\_\_\_

SIGNATURE \_\_\_\_\_ *Kristin Farris* \_\_\_\_\_

TITLE \_\_\_\_\_ Projects Scientist \_\_\_\_\_

# EME A-26 jct.

— = 5 ft



EME A-26 jct.



NORM Removal



Impact Excavation

# ANALYTICAL REPORT

## Prepared for:

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

Project: A-26 Jct.  
PO#: 749  
Order#: G0205343  
Report Date: 12/30/2002

## Certificates

US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

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

Order#: G0205343  
Project: EME  
Project Name: A-26 Jct.  
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>	<u>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0205343-01	Bottom Comp @ 10'	SOIL	12/23/02	12/27/02 16:40	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0205343-02	Wall Comp	SOIL	12/23/02	12/27/02 16:40	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0205343-03	Remediated Comp	SOIL	12/26/02	12/27/02 16:40	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

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

Order#: G0205343  
Project: EME  
Project Name: A-26 Jct.  
Location: EME

Lab ID: 0205343-01  
Sample ID: Bottom Comp @ 10'

### 8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		12/27/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	86.5	50.0
DRO, >C12-C35	603	50.0
TOTAL, C6-C35	689	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	16%	70	130
1-Chlorooctadecane	11%	70	130

### 8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0004209-02		12/30/02 11:14	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.036	0.025
Ethylbenzene	0.065	0.025
p/m-Xylene	0.356	0.025
o-Xylene	0.063	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	85%	80	120
Bromofluorobenzene	92%	80	120

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#: G0205343  
Project: EME  
Project Name: A-26 Jct.  
Location: EME

Lab ID: 0205343-02

Sample ID: Wall Comp

### 8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		12/27/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	75.7	10.0
DRO, >C12-C35	809	10.0
TOTAL, C6-C35	885	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	88%	70	130
1-Chlorooctadecane	71%	70	130

### 8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0004209-02		12/30/02 11:36	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.031	0.025
Ethylbenzene	0.144	0.025
p/m-Xylene	0.391	0.025
o-Xylene	0.079	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	82%	80	120
Bromofluorobenzene	93%	80	120

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#: G0205343  
Project: EME  
Project Name: A-26 Jct.  
Location: EME

Lab ID: 0205343-03  
Sample ID: Remediated Comp

### 8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		12/27/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	186	50.0
DRO, >C12-C35	977	50.0
TOTAL, C6-C35	1,160	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	18%	70	130
1-Chlorooctadecane	13%	70	130

### 8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0004209-02		12/30/02 11:58	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.075	0.025
Ethylbenzene	0.125	0.025
p/m-Xylene	0.597	0.025
o-Xylene	0.104	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	103%	80	120
Bromofluorobenzene	89%	80	120

Approval: Jeanne McMurrey 12-30-02  
Raland K. Tuttle, Lab Director, QA Officer Date  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

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

Order#: G0205343  
Project: EME  
Project Name: A-26 Jct.  
Location: EME

Lab ID: 0205343-01  
Sample ID: Bottom Comp @ 10'

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	496	mg/kg	1	20	9253	12/30/02	SB

Lab ID: 0205343-02  
Sample ID: Wall Comp

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1450	mg/kg	1	20	9253	12/30/02	SB

Lab ID: 0205343-03  
Sample ID: Remediated Comp

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	532	mg/kg	1	20	9253	12/30/02	SB

Approval: Jeanne McMurrey 12-30-02  
Raland K. Tuttle, Lab Director, QA Officer Date  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8015M

Order#: G0205343

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004207-02			<10.0		
<b>CONTROL</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004207-03	.	952	1220	128.2%	
<b>CONTROL DUP</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004207-04		952	1110	116.6%	9.4%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004207-05		1000	1116	111.6%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205343

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004209-02			<0.025		
Toluene-mg/kg		0004209-02			<0.025		
Ethylbenzene-mg/kg		0004209-02			<0.025		
p/m-Xylene-mg/kg		0004209-02			<0.025		
o-Xylene-mg/kg		0004209-02			<0.025		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0205342-05	0	0.1	0.100	100.0%	
Toluene-mg/kg		0205342-05	0	0.1	0.102	102.0%	
Ethylbenzene-mg/kg		0205342-05	0	0.1	0.104	104.0%	
p/m-Xylene-mg/kg		0205342-05	0	0.2	0.208	104.0%	
o-Xylene-mg/kg		0205342-05	0	0.1	0.097	97.0%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0205342-05	0	0.1	0.106	106.0%	5.8%
Toluene-mg/kg		0205342-05	0	0.1	0.108	108.0%	5.7%
Ethylbenzene-mg/kg		0205342-05	0	0.1	0.112	112.0%	7.4%
p/m-Xylene-mg/kg		0205342-05	0	0.2	0.227	113.5%	8.7%
o-Xylene-mg/kg		0205342-05	0	0.1	0.111	111.0%	13.5%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004209-05		0.1	0.110	110.0%	
Toluene-mg/kg		0004209-05		0.1	0.111	111.0%	
Ethylbenzene-mg/kg		0004209-05		0.1	0.110	110.0%	
p/m-Xylene-mg/kg		0004209-05		0.2	0.219	109.5%	
o-Xylene-mg/kg		0004209-05		0.1	0.104	104.0%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0205343

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004201-01			<20.0		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0205342-02	5140	1000	6130	99.0%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0205342-02	5140	1000	6150	101.0%	0.3%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004201-04		4960	4960	100.0%	

# CASE NARRATIVE

## ENVIRONMENTAL LAB OF TEXAS

**Prepared for:**

Rice Operating  
122 W. Taylor  
Hobbs, NM 88240

**Order#:** G0205343

**Project:** A-26 Jct.

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
Bottom Comp @ 10'	0205343-01	SOIL	12/23/2002	12/27/2002
Wall Comp	0205343-02	SOIL	12/23/2002	12/27/2002
Remediated Comp	0205343-03	SOIL	12/26/2002	12/27/2002

Surrogate recoveries on the 8015M are outside the control limits because they were diluted out.  
(0205343-01,03)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Jeanne McMurry  
Environmental Lab of Texas I, Ltd.

Date:

12-30-02

12600 West I-20 East  
Odessa, Texas 79763

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager:**

Kristin Farris

**Project Name:**

A-26 jct.

Company Name

## RICE Operating

Project #:

**Company Address:**

122 W. Taylor

Project Loc:

END

City/State/Zip:

City/State/Zip: Fla 665, NM 88240

PO #: 749

Telephone No. (505) 393-9174

Fax No: (505) 397-1471

Fax No:

**Sampler Signature:**

Kristin Law

[illegible]