

**1R - 427 - 96**

# **REPORTS**

**DATE:**

**1-11-2006**

104-1

1R0427-96

# Final Report

RICE OPERATING COMPANY  
JUNCTION BOX CLOSURE REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	jct. N-4-1	N	4	20S	37E	Lea	12	7	8

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER \_\_\_\_\_ Elsie Reeves \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater \_\_\_\_\_ 31 \_\_\_\_\_ feet NMOCD SITE ASSESSMENT RANKING SCORE: \_\_\_\_\_ 20 \_\_\_\_\_

Date Started \_\_\_\_\_ XXX \_\_\_\_\_ Date Completed \_\_\_\_\_ XXX \_\_\_\_\_ NMOCD Witness \_\_\_\_\_ XXX \_\_\_\_\_

Soil Excavated \_\_\_\_\_ XXX \_\_\_\_\_ cubic yards Excavation Length \_\_\_\_\_ XXX \_\_\_\_\_ Width \_\_\_\_\_ XXX \_\_\_\_\_ Depth \_\_\_\_\_ XXX \_\_\_\_\_ feet

Soil Disposed \_\_\_\_\_ XXX \_\_\_\_\_ cubic yards Offsite Facility \_\_\_\_\_ XXX \_\_\_\_\_ Location \_\_\_\_\_ XXX \_\_\_\_\_

General Description of Remedial Action:

For junction box remediation and upgrade activities, please refer to the previously-submitted

Junction Box Disclosure Report (1/27/2003).

Since the remediation and upgrade at this junction box site, ROC has monitored groundwater quality at a nearby well be collecting samples from a stock pond. In 2005, concentrations of constituents of concern (COCs) were below the Water Quality Control Commission (WQCC) standards.

COCs have notably declined, leveling off at the current levels which have remained relatively stable for at least two years. **ROC requests regulatory closure of this file and approval to cease sampling of this well.**

enclosures: 2005 Groundwater report (map, summary table, lab results), Disclosure Report

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

REPORT ASSEMBLED BY \_\_\_\_\_ Kristin Farris Pope \_\_\_\_\_

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

DATE \_\_\_\_\_ 1/11/2006 \_\_\_\_\_

TITLE \_\_\_\_\_ Project Scientist \_\_\_\_\_

RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	N-4-1	N	4	20S	37E	LEA	Length 12	Width 7	Depth 8

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER \_\_\_\_\_ ELSIE REEVES \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater \_\_\_\_\_ 31 \_\_\_\_\_ feet NMOCD SITE ASSESSMENT RANKING SCORE: \_\_\_\_\_ 20 \_\_\_\_\_

Date Started \_\_\_\_\_ 5/6/2002 \_\_\_\_\_ Date Completed \_\_\_\_\_ 8/8/2002 \_\_\_\_\_ OCD Witness \_\_\_\_\_ NO \_\_\_\_\_

Soil Excavated \_\_\_\_\_ 400 \_\_\_\_\_ cubic yards Excavation Length \_\_\_\_\_ 40 \_\_\_\_\_ Width \_\_\_\_\_ 35 \_\_\_\_\_ Depth \_\_\_\_\_ 8 \_\_\_\_\_ feet

Soil Disposed \_\_\_\_\_ 168 \_\_\_\_\_ cubic yards Offsite Facility \_\_\_\_\_ J&L LANDFARM \_\_\_\_\_ Location \_\_\_\_\_ MONUMENT, NM \_\_\_\_\_

ANALYTICAL RESULTS: Sample Date \_\_\_\_\_ 8/6/2002 \_\_\_\_\_ Sample Depth \_\_\_\_\_ 8' \_\_\_\_\_

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	<0.005	<0.005	<0.005	<0.016	<10	17.4	800
BOTTOM	<0.005	<0.005	<0.005	<0.016	79	734	592

General Description of Remedial Action: \_\_\_\_\_ Four soil borings were completed at this site \_\_\_\_\_

CHLORIDE FIELD TESTS

in October, 2001 to investigate possible groundwater impact. SB #1, adjacent to this junction box found chlorides to groundwater at 31' bgs and TPH stopped at 10' bgs. Water samples taken from all four soil borings indicated chlorides at WQCC guidelines. A groundwater well located just west of this site is sampled quarterly to monitor groundwater quality. All this information has been approved by the NMOCD and a copy is included in this report. Vertical delineation of the box to 12.5' bgs found chlorides diminishing from 3287 ppm at 5' to 554 ppm at 12.5' bgs. The lateral extent was delineated to 8' bgs and a compacted clay liner was installed and tested. The test results are included. Fresh soil was hauled and blended and backfilled. A water proof junction box installed. The groundwater well will continue to be sampled and an annual report will be sent to the NMOCD.

LOCATION	DEPTH	mg/kg
SIDEWALLS	6'	856
BOTTOM	8'	607
Vertical Trench	5'	3287
	9'	300
	11'	788
	12.5'	554

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

DATE \_\_\_\_\_ January 27, 2003 \_\_\_\_\_ PRINTED NAME \_\_\_\_\_ D. E. Anderson \_\_\_\_\_

SIGNATURE \_\_\_\_\_ TITLE \_\_\_\_\_ Project Leader - Environmental \_\_\_\_\_

# RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240  
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL  
RETURN RECEIPT NO. 7000 1530 0005 9895 4831

January 11, 2006

COPY

Mr. Wayne Price  
New Mexico Energy, Minerals, & Natural Resources Dept.  
Oil Conservation Division, Environmental Bureau  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

**RE: 2005 GROUNDWATER SAMPLING REPORT/SUMMARY  
JUNCTION N-4-1, ELSIE REEVES RANCH  
EME SWD SYSTEM  
UNIT 'N', SEC. 4, T20S, R37E  
NMOCD CASE #1R224**

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2005 analytical results for the semi-annual sampling of the stock water well near the EME N-4-1 junction box site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. ROC was granted approval to monitor this well on a semi-annual basis in a New Mexico Oil Conservation Division March 26, 2003 letter. In 2005, ROC collected a samples from the stock pond on two occasions and Environmental Lab of Texas of Odessa conducted the analysis of the water samples.

In 2005, concentrations of constituents of concern (COCs) were below the Water Quality Control Commission (WQCC) standards. Since the first water sampling in 2000 and the remediation of the junction box site in 2002 which included excavation, soil disposal, installation of compacted clay, and the import of clean soil, COCs have notably declined, leveling off at the current levels which have remained relatively stable for at least two years. **ROC requests regulatory closure of this file and approval to cease sampling of this well.**

ROC is the service provider (operator) for the EME SWD System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

RICE OPERATING COMAPANY

Kristin Marie Pope

enclosures:      **Summary table & graph**  
                      **Analytical results**  
                      **Map**  
                      **Junction Box Disclosure Report**  
                      **Junction Box Closure Report**

cc: LBG, CDH, file, Rob Roy Industries, Chris Williams  
NMOCDD, District I Office  
1625 N. French Drive  
Hobbs, NM 88240

EME jct. N-4-1

unit 'N', Sec. 4, T20S, R37E

NMOCD Case #1R224

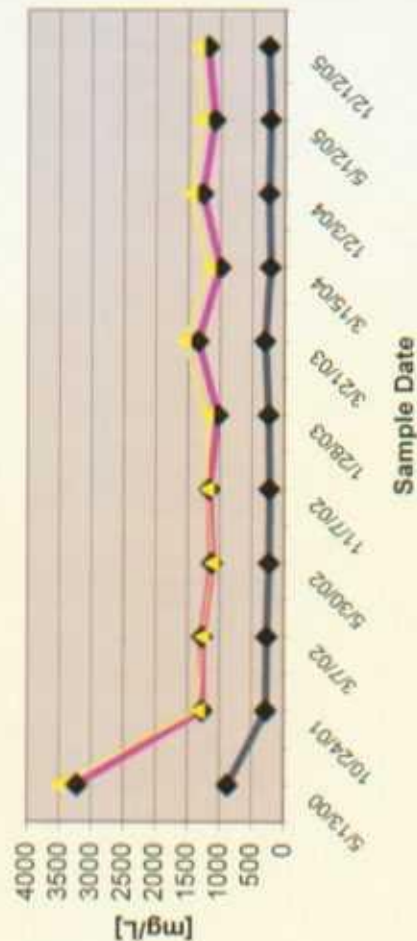
STOCK POND

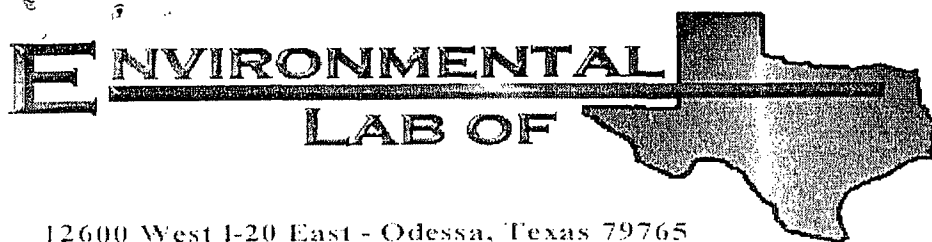
All concentrations are in mg/L

SAMPLE DATE	CHLORIDE	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	SULFATE	COMMENTS
5/13/00	877	2342	XXX	XXX	XXX	XXX	299	
10/24/01	280	990	<0.002	<0.002	<0.002	<0.006	64	
3/7/02	264	1007	XXX	XXX	XXX	XXX	XXX	
5/30/02	228	890	XXX	XXX	XXX	XXX	XXX	
11/7/02	224	937	XXX	XXX	XXX	XXX	34	
1/28/03	240	797	<0.002	<0.002	<0.002	<0.006	175	
3/21/03	301	1040	XXX	XXX	XXX	XXX	224	
3/15/04	222	780	XXX	XXX	XXX	XXX	187	
12/3/04	247	1030	XXX	XXX	XXX	XXX	204	
5/12/05	227	861	XXX	XXX	XXX	XXX	223	
12/12/05	248	946	XXX	XXX	XXX	XXX	173	

EME jct. N-4-1 Stock Tank

[Chloride] [Total Dissolved Solids] [Sulfate]





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 Jct. N-4-1  
Project Number: None Given  
Location: None Given

Lab Order Number: 5E16009

Report Date: 05/18/05



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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
05/18/05 08:55

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Stock Pond	5E16009-01	Water	05/12/05 15:42	05/16/05 07:15

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
05/18/05 08:55

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stock Pond (5E16009-01) Water									
Total Alkalinity	120	2.00	mg/L	1	EE51712	05/17/05	05/17/05	EPA 310.2M	
Chloride	227	5.00	"	10	EE51704	05/16/05	05/16/05	EPA 300.0	
Total Dissolved Solids	861	5.00	"	1	EE51711	05/16/05	05/17/05	EPA 160.1	
Sulfate	223	5.00	"	10	EE51704	05/16/05	05/16/05	EPA 300.0	

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
05/18/05 08:55

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stock Pond (5E16009-01) Water									
Calcium	41.3	0.100	mg/L	10	EE51720	05/17/05	05/17/05	EPA 6010B	
Magnesium	34.6	0.0100	"	"	"	"	"	"	
Potassium	12.1	0.500	"	"	"	"	"	"	
Sodium	180	0.500	"	50	"	"	"	"	

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
05/18/05 08:55

**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
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**Batch EE51704 - General Preparation (WetChem)**

**Blank (EE51704-BLK1)**

Prepared & Analyzed: 05/16/05

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

**LCS (EE51704-BS1)**

Prepared & Analyzed: 05/16/05

Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	10.2		"	10.0		102	80-120			

**Calibration Check (EE51704-CCV1)**

Prepared & Analyzed: 05/16/05

Chloride	10.4		mg/L	10.0		104	80-120			
Sulfate	10.3		"	10.0		103	80-120			

**Duplicate (EE51704-DUP1)**

Source: SE16009-01

Prepared & Analyzed: 05/16/05

Chloride	228	5.00	mg/L		227			0.440	20	
Sulfate	223	5.00	"		223			0.00	20	

**Batch EE51711 - Filtration Preparation**

**Blank (EE51711-BLK1)**

Prepared: 05/16/05 Analyzed: 05/17/05

Total Dissolved Solids	ND	5.00	mg/L							
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**Duplicate (EE51711-DUP1)**

Source: SE12013-01

Prepared: 05/16/05 Analyzed: 05/17/05

Total Dissolved Solids	11200	5.00	mg/L		10700			4.57	20	
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**Batch EE51712 - General Preparation (WetChem)**

**Blank (EE51712-BLK1)**

Prepared & Analyzed: 05/17/05

Total Alkalinity	ND	2.00	mg/L							
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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
05/18/05 08:55

**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
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**Batch EE51712 - General Preparation (WetChem)**

**Duplicate (EE51712-DUP1)**

Source: 5E16009-01

Prepared & Analyzed: 05/17/05

Total Alkalinity	121	2.00	mg/L		120			0.830	20	
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**Reference (EE51712-SRM1)**

Prepared & Analyzed: 05/17/05

Bicarbonate Alkalinity	231		mg/L	200		116	80-120			
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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
05/18/05 08:55

**Total Metals 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
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**Batch EE51720 - 6010B/No Digestion**

**Blank (EE51720-BLK1)**

Prepared & Analyzed: 05/17/05

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

**Calibration Check (EE51720-CCV1)**

Prepared & Analyzed: 05/17/05

Calcium	1.79		mg/L	2.00		89.5	85-115			
Magnesium	2.04		"	2.00		102	85-115			
Potassium	1.90		"	2.00		95.0	85-115			
Sodium	2.15		"	2.00		108	85-115			

**Duplicate (EE51720-DUP1)**

Source: 5E16009-01

Prepared & Analyzed: 05/17/05

Calcium	41.5	0.100	mg/L		41.3			0.483	20	
Magnesium	33.3	0.0100	"		34.6			3.83	20	
Potassium	12.6	0.500	"		12.1			4.05	20	
Sodium	186	0.500	"		180			3.28	20	

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Roy Rascon

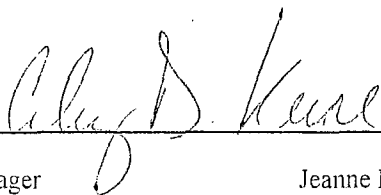
Fax: (505) 397-1471

Reported:  
05/18/05 08:55

### 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:



Date:

05/19/05

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 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.

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Roy Rascon

Company Name Rice Operating Company

Company Address: 122 W Taylor

City/State/Zip: Hobbs, NM 88240

Telephone No: 505-393-9174

Fax No: 505-397-1471

Sampler Signature:

[illegible]



# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co

Date/Time: 05-16-05 @ 0715

Order #: 5E16009

Initials: Jmm

### Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	IS.O	C
Shipping container/cooler in good condition?	Yes	No	N/A	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	N/A
Custody Seals intact on sample bottles?	(Yes)	No	Not present	
Chain of custody present?	(Yes)	No		
Sample Instructions complete on Chain of Custody?	(Yes)	No		
Chain of Custody signed when relinquished and received?	(Yes)	No		
Chain of custody agrees with sample label(s)	(Yes)	No		
Container labels legible and intact?	(Yes)	No		
Sample Matrix and properties same as on chain of custody?	(Yes)	No		
Samples in proper container/bottle?	(Yes)	No		
Samples properly preserved?	Yes	(No)	Should be on ice	04°C
Sample bottles intact?	(Yes)	No		
Preservations documented on Chain of Custody?	(Yes)	No		
Containers documented on Chain of Custody?	(Yes)	No		
Sufficient sample amount for indicated test?	(Yes)	No		
All samples received within sufficient hold time?	(Yes)	No		
VOC samples have zero headspace?	Yes	No	(Not Applicable)	

Other observations:

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### Variance Documentation:

Contact Person: - Roy Rascon Date/Time: 05-16-05 @ 0800 Contacted by: Jeanne M. Munn

Regarding:

Sample temperature.

Corrective Action Taken:

Left message on voice mail

and e-mailed concerning temperature.

Spoke to Carolyn Hayes 05-17-05 continue w/analysis (confirmed w/e-mail from Roy)

05-18-05

**Jeanne McMurrey**

---

**From:** "Roy Rascon" <rroyriceswd@leaco.net>  
**To:** "Jeanne McMurrey" <jeanne@elabtexas.com>  
**Sent:** Wednesday, May 18, 2005 12:34 PM  
**Subject:** EME Jct N-4-1

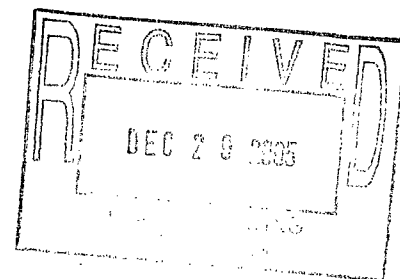
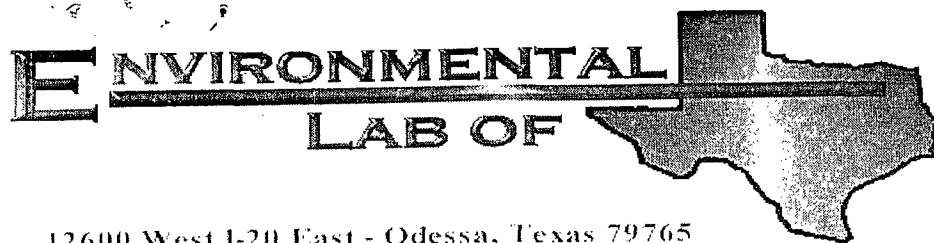
Jeanne sorry about the delay on getting back to you. I just remembered my e-mail. I've been off for a few days and been trying to catch up. Please go ahead and run the requested analysis, I discuss this with Kristin F. Pope. Thank you,  
Roy

Roy R. Rascon  
RICE Operating Company  
122 W. Taylor  
Hobbs, NM 88240  
505-393-9174

--

This message has been scanned for viruses and dangerous content by MailScanner at [BasinBroadBand.com](http://BasinBroadBand.com), and is believed to be clean.

5/20/2005



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. N-4-1

Project Number: None Given

Location: EME

Lab Order Number: 5L13002

Report Date: 12/22/05

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 13:02

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EME Jct. N-4-1 Stock Pond	5L13002-01	Water	12/12/05 14:55	12/13/05 08:30

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/23/05 15:29

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EME Jct. N-4-1 Stock Pond (5L13002-01) Water</b>									
Total Alkalinity	192	2.00	mg/L	1	EL52109	12/21/05	12/21/05	EPA 310.2M	
Chloride	248	5.00	"	10	EL51912	12/15/05	12/22/05	EPA 300.0	
Total Dissolved Solids	946	5.00	"	1	EL51611	12/14/05	12/15/05	EPA 160.1	
Sulfate	173	5.00	"	10	EL51912	12/15/05	12/22/05	EPA 300.0	

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/23/05 15:17

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EME Jct. N-4-1 Stock Pond (5L13002-01) Water</b>									
Calcium	140	0.100	mg/L	10	EL52107	12/20/05	12/21/05	EPA 6010B	
Magnesium	42.3	0.0100	"	"	"	"	"	"	
Potassium	11.2	0.500	"	"	"	"	"	"	
Sodium	196	0.500	"	50	"	"	"	"	

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 13:02

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch EL51611 - General Preparation (WetChem)**

**Blank (EL51611-BLK1)**

Prepared: 12/14/05 Analyzed: 12/15/05

Total Dissolved Solids ND 5.00 mg/L

**Duplicate (EL51611-DUP1)**

Source: 5L13001-01

Prepared: 12/14/05 Analyzed: 12/15/05

Total Dissolved Solids 3360 5.00 mg/L 3430 2.06 5

**Batch EL51912 - General Preparation (WetChem)**

**Blank (EL51912-BLK1)**

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

**LCS (EL51912-BS1)**

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride 8.52 mg/L 10.0 85.2 80-120

Sulfate 9.43 " 10.0 94.3 80-120

**Calibration Check (EL51912-CCV1)**

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride 8.53 mg/L 10.0 85.3 80-120

Sulfate 9.48 " 10.0 94.8 80-120

**Duplicate (EL51912-DUP1)**

Source: 5L13001-01

Prepared: 12/15/05 Analyzed: 12/19/05

Chloride 1070 25.0 mg/L 1040 2.84 20

Sulfate 211 25.0 " 206 2.40 20

**Batch EL52109 - General Preparation (WetChem)**

**Blank (EL52109-BLK1)**

Prepared & Analyzed: 12/21/05

Total Alkalinity ND 2.00 mg/L

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 13:02

**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
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**Batch EL52109 - General Preparation (WetChem)**

**Duplicate (EL52109-DUP1)**

Source: 5L13002-01

Prepared & Analyzed: 12/21/05

Total Alkalinity	189	2.00	mg/L		190			0.528	20	
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**Reference (EL52109-SRM1)**

Prepared & Analyzed: 12/21/05

Bicarbonate Alkalinity	229		mg/L	200		114	80-120			
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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 13:02

**Total Metals 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
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**Batch EL52107 - 6010B/No Digestion**

**Blank (EL52107-BLK1)**

Prepared: 12/20/05 Analyzed: 12/21/05

Calcium	ND	0.0100	mg/L						
Magnesium	ND	0.00100	"						
Potassium	ND	0.0500	"						
Sodium	ND	0.0100	"						

**Calibration Check (EL52107-CCV1)**

Prepared: 12/20/05 Analyzed: 12/21/05

Calcium	2.25		mg/L	2.00		112	85-115		
Magnesium	2.22		"	2.00		111	85-115		
Potassium	1.91		"	2.00		95.5	85-115		
Sodium	1.80		"	2.00		90.0	85-115		

**Duplicate (EL52107-DUP1)**

Source: 5L13002-01

Prepared: 12/20/05 Analyzed: 12/21/05

Calcium	89.7	0.100	mg/L		95.0			5.74	20
Magnesium	42.1	0.0100	"		42.3			0.474	20
Potassium	11.3	0.500	"		11.2			0.889	20
Sodium	359	0.500	"		372			3.56	20

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

Project: EME Jct. N-4-1  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 13:02

### 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:

12-23-05

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.

12600 West I-20 East  
Odessa, Texas 79763

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Kiustin Faris-Pope

# Rice Operating

122 3 Taylor

Hubbs and Henshaw

(505) 393-9174

Milane Franko

Milane Frankel

[illegible]

# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

Client: Rice Dr.

Date/Time: 12/13/05 8:30

Order #: SL13002

Initials: CK

### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	ck 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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