

1R - 428-44

**REPORTS**

**DATE:**

2-12-07

# R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

February 12, 2007

Wayne Price  
Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

RE: 2006 Annual Ground Water Monitoring Report  
F-29-1A Vent, Sec 29, T18S, R38E, Unit "F"  
NMOCD Case #: Pending **1R 428-44**

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the F-29-1A Vent site located in the Hobbs Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration vs. time for chloride and TDS.
3. Laboratory data sheets associated with the routine sampling for 2006.

The Correction Action Plan was submitted to NMOCD on February 15, 2006. NMOCD approved the Closure Report on condition the monitoring wells remain active. ROC will submit a Final Closure Report in early 2007.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of the annual report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,  
R.T. Hicks Consultants, Ltd.



Randall T. Hicks  
Principal

Copy: Hobbs NMOCD office; Rice Operating Company

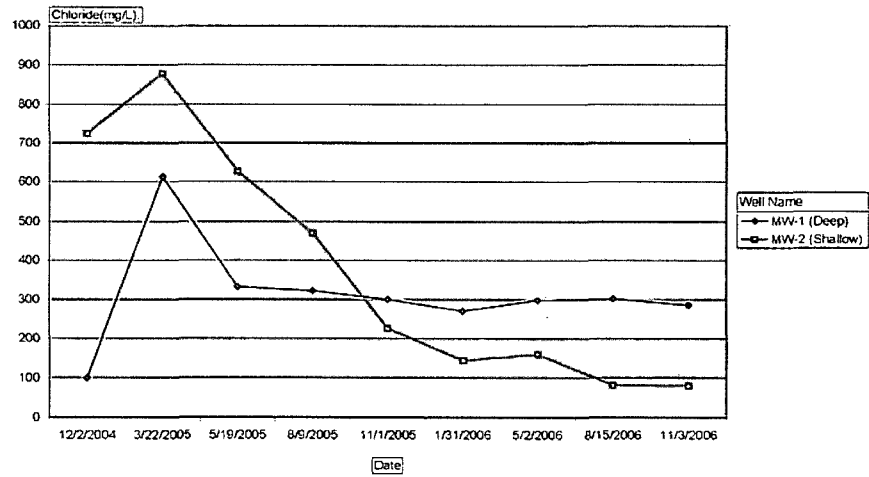
Table 1: chemistry over time

F-29-1A Vent										
Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (ug/L)	Toluene (ug/L)	EthylBenzene (ug/L)	Total Xylenes (ug/L)	Comments
MW-1 (Deep)	12/2/2004	60.74	100	*No Results	465	<0.001	<0.001	<0.001	<0.001	clear; no odor
MW-1 (Deep)	3/22/2005	60.10	613	154	930	<0.001	<0.001	<0.001	<0.001	gray; no odor
MW-1 (Deep)	5/19/2005	60.13	332	84.5	1260	<0.001	<0.001	<0.001	<0.001	
MW-1 (Deep)	8/9/2005	60.22	322	75.7	1080	<0.001	<0.001	<0.001	<0.001	
MW-1 (Deep)	11/1/2005	60.45	300	63.2	986	<0.001	<0.0001	<0.001	<0.001	clear; no odor
MW-1 (Deep)	1/31/2006	60.54	270	58.1	1000	<0.001	<0.001	<0.001	<0.001	clear; no odor
MW-1 (Deep)	5/2/2006	60.61	298	62.9	996	<0.001	<0.001	<0.001	<0.001	
MW-1 (Deep)	8/15/2006	60.98	302	80.7	1060	<0.001	<0.001	<0.001	<0.001	clear; no odor
MW-1 (Deep)	11/3/2006	60.79	285	86.1	866	<0.001	<0.001	<0.001	<0.001	Clear no odor
MW-2 (Shallow)	12/2/2004	60.64	725	*No Results	3280	<0.001	<0.001	<0.001	<0.001	gray; no odor
MW-2 (Shallow)	3/22/2005	60.08	879	1780	3960	<0.001	<0.001	<0.001	<0.001	gray; no odor
MW-2 (Shallow)	5/19/2005	60.04	626	788	2750	<0.001	<0.001	<0.001	<0.001	
MW-2 (Shallow)	8/9/2005	60.14	470	475	1780	<0.001	<0.001	<0.001	<0.001	
MW-2 (Shallow)	11/1/2005	60.34	226	218	1100	<0.001	<0.001	<0.001	<0.001	Clear; no odor
MW-2 (Shallow)	1/31/2006	60.42	144	58.1	924	<0.001	<0.001	<0.001	<0.001	
MW-2 (Shallow)	5/2/2006	60.50	160	153	1040	<0.001	<0.001	<0.001	<0.001	
MW-2 (Shallow)	8/15/2006	60.86	81.9	104	578	<0.001	<0.001	<0.001	<0.001	Clear; no odor
MW-2 (Shallow)	11/3/2006	60.69	79.6	111	592	<0.001	<0.001	<0.001	<0.001	Clear no odor

# Ground Water Quality at F-29-1a Vent

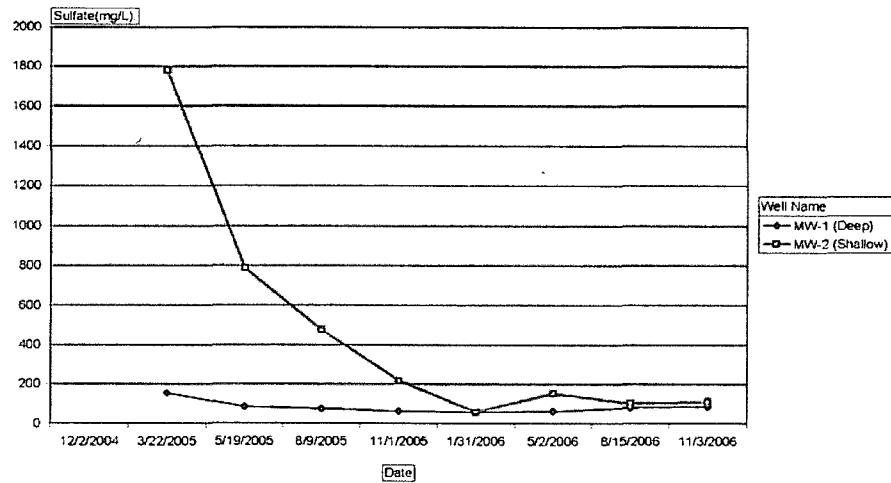
Site Name|F-29-1A Vent|

## Chloride Over Time



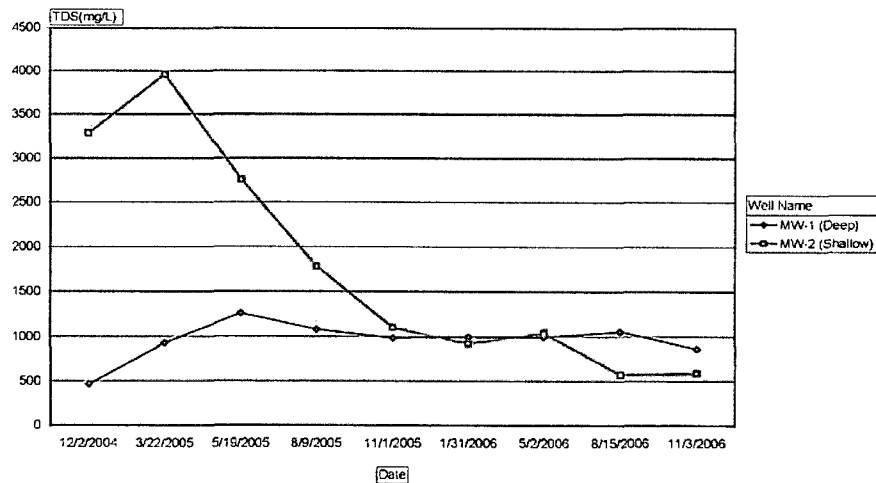
Site Name|F-29-1A Vent|

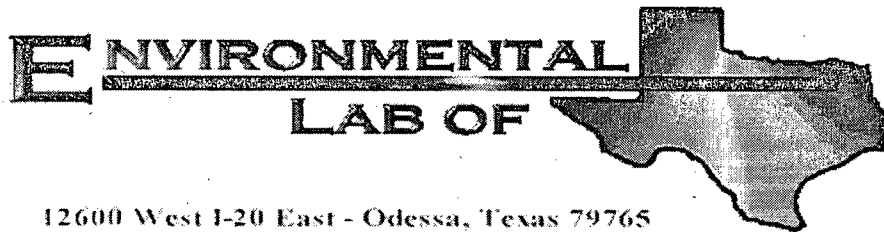
## Sulfate Over Time



Site Name|F-29-1A Vent|

## TDS Over Time





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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: Lea County

Lab Order Number: 6B02006

Report Date: 02/16/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/16/06 17:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1 Deep	6B02006-01	Water	01/31/06 09:50	02/02/06 09:00
Monitor Well #2 Shallow	6B02006-02	Water	01/31/06 09:15	02/02/06 09:00

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 Deep (6B02006-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		87.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-120		"	"	"	"	
<b>Monitor Well #2 Shallow (6B02006-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120		"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 Deep (6B02006-01) Water</b>									
Total Alkalinity	140	2.00	mg/L	1	EB60901	02/08/06	02/08/06	EPA 310.1M	
Chloride	270	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
Total Dissolved Solids	1000	5.00	"	1	EB60302	02/02/06	02/02/06	EPA 160.1	
Sulfate	58.1	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
<b>Monitor Well #2 Shallow (6B02006-02) Water</b>									
Total Alkalinity	238	2.00	mg/L	1	EB60901	02/08/06	02/08/06	EPA 310.1M	
Chloride	144	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
Total Dissolved Solids	924	5.00	"	1	EB60302	02/02/06	02/02/06	EPA 160.1	
Sulfate	156	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	



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Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 Deep (6B02006-01) Water</b>									
Calcium	179	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	21.4	0.0100	"	10	"	"	"	"	
Potassium	5.89	0.0500	"	1	"	"	"	"	
Sodium	68.4	0.500	"	50	"	"	"	"	
<b>Monitor Well #2 Shallow (6B02006-02) Water</b>									
Calcium	63.2	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	16.8	0.0100	"	10	"	"	"	"	
Potassium	2.47	0.0500	"	1	"	"	"	"	
Sodium	254	0.500	"	50	"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
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Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EB60910 - EPA 5030C (GC)</b>									
<b>Blank (EB60910-BLK1)</b> Prepared: 02/09/06 Analyzed: 02/10/06									
Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: a,a,a-Trifluorotoluene	34.5		ug/l	40.0		86.2	80-120		
Surrogate: 4-Bromofluorobenzene	32.1		"	40.0		80.2	80-120		
<b>LCS (EB60910-BS1)</b> Prepared: 02/09/06 Analyzed: 02/10/06									
Benzene	0.0457	0.00100	mg/L	0.0500		91.4	80-120		
Toluene	0.0496	0.00100	"	0.0500		99.2	80-120		
Ethylbenzene	0.0498	0.00100	"	0.0500		99.6	80-120		
Xylene (p/m)	0.100	0.00100	"	0.100		100	80-120		
Xylene (o)	0.0570	0.00100	"	0.0500		114	80-120		
Surrogate: a,a,a-Trifluorotoluene	35.2		ug/l	40.0		88.0	80-120		
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120		
<b>LCS Dup (EB60910-BSD1)</b> Prepared: 02/09/06 Analyzed: 02/14/06									
Benzene	0.0568	0.00100	mg/L	0.0500		114	80-120	22.0	QR-02
Toluene	0.0584	0.00100	"	0.0500		117	80-120	16.5	20
Ethylbenzene	0.0507	0.00100	"	0.0500		101	80-120	1.40	20
Xylene (p/m)	0.0982	0.00100	"	0.100		98.2	80-120	1.82	20
Xylene (o)	0.0513	0.00100	"	0.0500		103	80-120	10.1	20
Surrogate: a,a,a-Trifluorotoluene	39.4		ug/l	40.0		98.5	80-120		
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120		
<b>Calibration Check (EB60910-CCV1)</b> Prepared: 02/09/06 Analyzed: 02/13/06									
Benzene	55.0		ug/l	50.0		110	80-120		
Toluene	57.5		"	50.0		115	80-120		
Ethylbenzene	52.8		"	50.0		106	80-120		
Xylene (p/m)	103		"	100		103	80-120		
Xylene (o)	56.6		"	50.0		113	80-120		
Surrogate: a,a,a-Trifluorotoluene	43.5		"	40.0		109	80-120		
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120		

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

**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
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**Batch EB60910 - EPA 5030C (GC)**

**Matrix Spike (EB60910-MS1)**

**Source: 6B08024-01**

Prepared: 02/09/06 Analyzed: 02/10/06

Benzene	0.0426	0.00100	mg/L	0.0500	ND	85.2	80-120			
Toluene	0.0449	0.00100	"	0.0500	ND	89.8	80-120			
Ethylbenzene	0.0432	0.00100	"	0.0500	ND	86.4	80-120			
Xylene (p/m)	0.0841	0.00100	"	0.100	ND	84.1	80-120			
Xylene (o)	0.0416	0.00100	"	0.0500	ND	83.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/l	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	47.0		"	40.0		118	80-120			

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

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Reported:  
02/16/06 17:36

**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
<b>Batch EB60302 - General Preparation (WetChem)</b>									
<b>Blank (EB60302-BLK1)</b>				Prepared & Analyzed: 02/02/06					
Total Dissolved Solids	ND	5.00	mg/L						
<b>Duplicate (EB60302-DUP1)</b>				<b>Source: 6B01010-01</b>		Prepared & Analyzed: 02/02/06			
Total Dissolved Solids	790	5.00	mg/L		794		0.505	5	
<b>Batch EB60614 - General Preparation (WetChem)</b>									
<b>Blank (EB60614-BLK1)</b>				Prepared: 02/04/06 Analyzed: 02/06/06					
Chloride	ND	0.500	mg/L						
Sulfate	ND	0.500	"						
<b>LCS (EB60614-BS1)</b>				Prepared: 02/04/06 Analyzed: 02/06/06					
Sulfate	8.40		mg/L	10.0		84.0	80-120		
Chloride	8.99		"	10.0		89.9	80-120		
<b>Calibration Check (EB60614-CCV1)</b>				Prepared: 02/04/06 Analyzed: 02/06/06					
Chloride	8.93		mg/L	10.0		89.3	80-120		
Sulfate	8.63		"	10.0		86.3	80-120		
<b>Duplicate (EB60614-DUP1)</b>				<b>Source: 6B01010-01</b>		Prepared: 02/04/06 Analyzed: 02/06/06			
Chloride	224	5.00	mg/L		206		8.37	20	
Sulfate	72.9	5.00	"		66.5		9.18	20	
<b>Batch EB60901 - General Preparation (WetChem)</b>									
<b>Blank (EB60901-BLK1)</b>				Prepared & Analyzed: 02/08/06					
Total Alkalinity	ND	2.00	mg/L						

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/16/06 17:36

**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 EB60901 - General Preparation (WetChem)**

**LCS (EB60901-BS1)**

Prepared & Analyzed: 02/08/06

Bicarbonate Alkalinity	210	2.00	mg/L	200	105	85-115
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**Duplicate (EB60901-DUP1)**

Source: 6B01010-01

Prepared & Analyzed: 02/08/06

Total Alkalinity	192	2.00	mg/L	191	0.522	20
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**Reference (EB60901-SRM1)**

Prepared & Analyzed: 02/08/06

Total Alkalinity	96.0		mg/L	100	96.0	90-110
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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

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**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 EB60903 - 6010B/No Digestion**

**Blank (EB60903-BLK1)** Prepared: 02/08/06 Analyzed: 02/09/06

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

**Calibration Check (EB60903-CCV1)** Prepared: 02/08/06 Analyzed: 02/09/06

Calcium	2.06		mg/L	2.00		103	85-115			
Magnesium	2.05		"	2.00		102	85-115			
Potassium	1.92		"	2.00		96.0	85-115			
Sodium	1.90		"	2.00		95.0	85-115			

**Duplicate (EB60903-DUP1)** Source: 6B01010-01 Prepared: 02/08/06 Analyzed: 02/09/06

Calcium	62.1	0.0100	mg/L		61.2			1.46	20	
Magnesium	43.5	0.0100	"		44.8			2.94	20	
Potassium	10.3	0.500	"		10.4			0.966	20	
Sodium	161	0.500	"		157			2.52	20	

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
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### Notes and Definitions

QR-02     The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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:

2/16/2006

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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Environmental Lab of Texas

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

Client: Alce Op.

Date/Time: 2/2/06 9:00

Order #: 6B020006

Initials: CR

**Sample Receipt Checklist**

Temperature of container/cooler?	Yes	No	1.0	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?	Yes	No	Not Applicable	

Other observations:

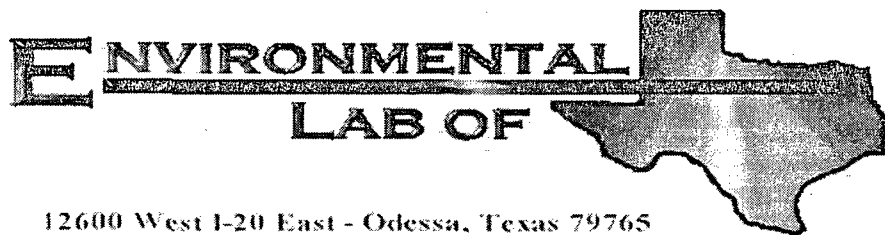
\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Variance Documentation:**

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

Corrective Action Taken:

\_\_\_\_\_  
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 \_\_\_\_\_  
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 \_\_\_\_\_  
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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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: Lea County

Lab Order Number: 6E04010

Report Date: 05/09/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Deep	6E04010-01	Water	05/02/06 10:40	05/04/06 10:50
Monitor Well #2- Shallow	6E04010-02	Water	05/02/06 09:05	05/04/06 10:50

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6E04010-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.5 %	80-120		"	"	"	"	

**Monitor Well #2- Shallow (6E04010-02) Water**

Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.5 %	80-120		"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6E04010-01) Water</b>									
Total Alkalinity	137	2.00	mg/L	1	EE60814	05/09/06	05/09/06	EPA 310.1M	
Chloride	298	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
Total Dissolved Solids	996	5.00	"	1	EE60816	05/05/06	05/08/06	EPA 160.1	
Sulfate	62.9	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
<b>Monitor Well #2- Shallow (6E04010-02) Water</b>									
Total Alkalinity	251	2.00	mg/L	1	EE60814	05/09/06	05/09/06	EPA 310.1M	
Chloride	160	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
Total Dissolved Solids	1040	5.00	"	1	EE60816	05/05/06	05/08/06	EPA 160.1	
Sulfate	153	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6E04010-01) Water</b>									
Calcium	173	0.500	mg/L	50	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	24.8	0.0100	"	10	"	"	"	"	
Potassium	2.43	0.500	"	"	"	"	"	"	
Sodium	47.1	0.100	"	"	"	"	"	"	
<b>Monitor Well #2- Shallow (6E04010-02) Water</b>									
Calcium	72.1	0.100	mg/L	10	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	20.5	0.0100	"	"	"	"	"	"	
Potassium	2.78	0.500	"	"	"	"	"	"	
Sodium	138	0.500	"	50	"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
05/09/06 14:23

**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
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**Batch EE60404 - EPA 5030C (GC)**

**Blank (EE60404-BLK1)**

Prepared & Analyzed: 05/04/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	36.7		ug/l	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.6		"	40.0		84.0	80-120			

**LCS (EE60404-BS1)**

Prepared & Analyzed: 05/04/06

Benzene	0.0536	0.00100	mg/L	0.0500		107	80-120			
Toluene	0.0531	0.00100	"	0.0500		106	80-120			
Ethylbenzene	0.0509	0.00100	"	0.0500		102	80-120			
Xylene (p/m)	0.117	0.00100	"	0.100		117	80-120			
Xylene (o)	0.0573	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.3		ug/l	40.0		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			

**Calibration Check (EE60404-CCV1)**

Prepared: 05/04/06 Analyzed: 05/05/06

Benzene	50.2		ug/l	50.0		100	80-120			
Toluene	49.3		"	50.0		98.6	80-120			
Ethylbenzene	53.0		"	50.0		106	80-120			
Xylene (p/m)	105		"	100		105	80-120			
Xylene (o)	52.4		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.3		"	40.0		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.5	80-120			

**Matrix Spike (EE60404-MS1)**

Source: 6E03003-01

Prepared & Analyzed: 05/04/06

Benzene	0.0626	0.00100	mg/L	0.0500	0.00562	114	80-120			
Toluene	0.0534	0.00100	"	0.0500	ND	107	80-120			
Ethylbenzene	0.0534	0.00100	"	0.0500	0.000825	105	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120			
Xylene (o)	0.0577	0.00100	"	0.0500	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 5 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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
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**Batch EE60404 - EPA 5030C (GC)**

**Matrix Spike Dup (EE60404-MSD1)**

**Source: 6E03003-01**

**Prepared & Analyzed: 05/04/06**

Benzene	0.0617	0.00100	mg/L	0.0500	0.00562	112	80-120	1.77	20	
Toluene	0.0526	0.00100	"	0.0500	ND	105	80-120	1.89	20	
Ethylbenzene	0.0532	0.00100	"	0.0500	0.000825	105	80-120	0.00	20	
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117	80-120	2.53	20	
Xylene (o)	0.0565	0.00100	"	0.0500	ND	113	80-120	1.75	20	
Surrogate: a,a,a-Trifluorotoluene	40.9		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			



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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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
<b>Batch EE60507 - General Preparation (WetChem)</b>										
<b>Blank (EE60507-BLK1)</b>				Prepared & Analyzed: 05/04/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
<b>LCS (EE60507-BS1)</b>				Prepared & Analyzed: 05/04/06						
Chloride	9.99	0.500	mg/L	10.0		99.9	80-120			
Sulfate	8.53	0.500	"	10.0		85.3	80-120			
<b>Calibration Check (EE60507-CCV1)</b>				Prepared & Analyzed: 05/04/06						
Chloride	10.4		mg/L	10.0		104	80-120			
Sulfate	9.15		"	10.0		91.5	80-120			
<b>Duplicate (EE60507-DUP1)</b>				Source: 6D28002-02		Prepared & Analyzed: 05/04/06				
Sulfate	52.7	0.500	mg/L		53.3			1.13	20	
Chloride	62.0	0.500	"		62.1			0.161	20	
<b>Batch EE60814 - General Preparation (WetChem)</b>										
<b>Blank (EE60814-BLK1)</b>				Prepared & Analyzed: 05/09/06						
Total Alkalinity	ND	2.00	mg/L							
<b>LCS (EE60814-BS1)</b>				Prepared & Analyzed: 05/09/06						
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115			
<b>Duplicate (EE60814-DUP1)</b>				Source: 6E04009-01		Prepared & Analyzed: 05/09/06				
Total Alkalinity	209	2.00	mg/L		208			0.480	20	
<b>Reference (EE60814-SRM1)</b>				Prepared & Analyzed: 05/09/06						
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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 EE60816 - Filtration Preparation**

**Blank (EE60816-BLK1)**

Prepared: 05/05/06 Analyzed: 05/08/06

Total Dissolved Solids	ND	5.00	mg/L							
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**Duplicate (EE60816-DUP1)**

Source: 6E04009-01

Prepared: 05/05/06 Analyzed: 05/08/06

Total Dissolved Solids	940	5.00	mg/L		904			3.90	5	
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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

**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 EE60811 - 6010B/No Digestion**

**Blank (EE60811-BLK1)**

Prepared & Analyzed: 05/08/06

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

**Calibration Check (EE60811-CCV1)**

Prepared & Analyzed: 05/08/06

Calcium	2.20		mg/L	2.00		110	85-115			
Magnesium	2.28		"	2.00		114	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.84		"	2.00		92.0	85-115			

**Duplicate (EE60811-DUP1)**

Source: 6E04009-01

Prepared & Analyzed: 05/08/06

Calcium	130	0.500	mg/L		128			1.55	20	
Magnesium	22.5	0.0100	"		23.2			3.06	20	
Potassium	4.11	0.0500	"		4.32			4.98	20	
Sodium	87.6	0.100	"		88.0			0.456	20	

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.*

Page 9 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

### 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:

5/9/2006

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.

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765  
Phone: 432-563-1800  
Fax: 432-563-1713

**Project Manager:** Kristin Farris Pope [kpope@riceswd.com](mailto:kpope@riceswd.com)

Project Name: Hobbs Jct. F-29-1A

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

PO #:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

**Sampler Signature:** Rozanne Johnson (505) 631-9310

0

Email: [rozanne@valornet.com](mailto:rozanne@valornet.com)

[illegible]

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

Client: Blue Op.  
 Date/Time: 5/4/04 10:50  
 Order #: 10E09010  
 Initials: CK

**Sample Receipt Checklist**

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

Other observations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Variance Documentation:**

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

\_\_\_\_\_

\_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_

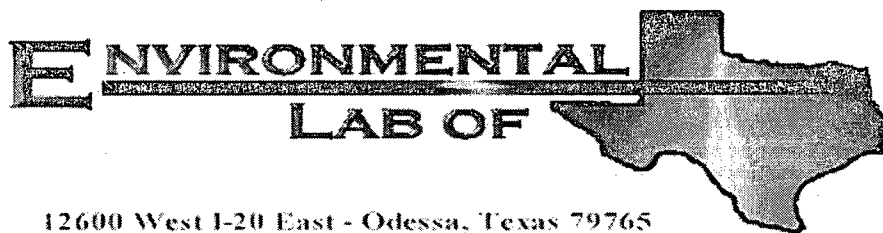
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12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Hobbs Jct. F-29-1A

Project Number: None Given

Location: Lea County

Lab Order Number: 6H18011

Report Date: 08/28/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Deep	6H18011-01	Water	08/15/06 08:40	08-18-2006 10:20
Monitor Well #2- Shallow	6H18011-02	Water	08/15/06 10:05	08-18-2006 10:20



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

Project: Hobbs Jct. F-29-1A  
Project Number: Noné Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6H18011-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EH62121	08/21/06	08/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-120		"	"	"	"	
<b>Monitor Well #2- Shallow (6H18011-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EH62121	08/21/06	08/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-120		"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6H18011-01) Water</b>									
<b>Total Alkalinity</b>	<b>158</b>	2.00	mg/L	1	EH62128	08/21/06	08/21/06	EPA 310.1M	
<b>Chloride</b>	<b>302</b>	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>1060</b>	10.0	"	1	EH62303	08/18/06	08/22/06	EPA 160.1	
<b>Sulfate</b>	<b>80.7</b>	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
<b>Monitor Well #2- Shallow (6H18011-02) Water</b>									
<b>Total Alkalinity</b>	<b>234</b>	2.00	mg/L	1	EH62128	08/21/06	08/21/06	EPA 310.1M	
<b>Chloride</b>	<b>81.9</b>	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>578</b>	10.0	"	1	EH62303	08/18/06	08/22/06	EPA 160.1	
<b>Sulfate</b>	<b>104</b>	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Monitor Well #1- Deep (6H18011-01) Water**

Calcium	154	4.05	mg/L	50	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	24.5	0.360	"	10	"	"	"	"	
Potassium	2.88	0.600	"	"	"	"	"	"	
Sodium	70.5	0.430	"	"	"	"	"	"	

**Monitor Well #2- Shallow (6H18011-02) Water**

Calcium	49.0	0.810	mg/L	10	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	13.3	0.360	"	"	"	"	"	"	
Potassium	1.76	0.600	"	"	"	"	"	"	
Sodium	145	2.15	"	50	"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Organics by GC - 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 EH62121 - EPA 5030C (GC)**

**Blank (EH62121-BLK1)**

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/l	40.0		101		80-120	
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8		80-120	

**LCS (EH62121-BS1)**

Prepared & Analyzed: 08/21/06

Benzene	0.0460	0.00100	mg/L	0.0500		92.0		80-120	
Toluene	0.0503	0.00100	"	0.0500		101		80-120	
Ethylbenzene	0.0463	0.00100	"	0.0500		92.6		80-120	
Xylene (p/m)	0.113	0.00100	"	0.100		113		80-120	
Xylene (o)	0.0565	0.00100	"	0.0500		113		80-120	
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/l	40.0		99.2		80-120	
Surrogate: 4-Bromofluorobenzene	45.0		"	40.0		112		80-120	

**Calibration Check (EH62121-CCV1)**

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	48.7		ug/l	50.0		97.4		80-120	
Toluene	52.3		"	50.0		105		80-120	
Ethylbenzene	57.3		"	50.0		115		80-120	
Xylene (p/m)	114		"	100		114		80-120	
Xylene (o)	57.6		"	50.0		115		80-120	
Surrogate: a,a,a-Trifluorotoluene	44.7		"	40.0		112		80-120	
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.8		80-120	

**Matrix Spike (EH62121-MS1)**

Source: 6H18007-01

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	0.0464	0.00100	mg/L	0.0500	ND	92.8		80-120	
Toluene	0.0550	0.00100	"	0.0500	ND	110		80-120	
Ethylbenzene	0.0554	0.00100	"	0.0500	ND	111		80-120	
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117		80-120	
Xylene (o)	0.0575	0.00100	"	0.0500	ND	115		80-120	
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/l	40.0		104		80-120	
Surrogate: 4-Bromofluorobenzene	46.5		"	40.0		116		80-120	

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
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**Batch EH62121 - EPA 5030C (GC)**

Matrix Spike Dup (EH62121-MSD1)		Source: 6H18007-01			Prepared: 08/21/06 Analyzed: 08/22/06					
Benzene	0.0473	0.00100	mg/L	0.0500	ND	94.6	80-120	1.92	20	
Toluene	0.0535	0.00100	"	0.0500	ND	107	80-120	2.76	20	
Ethylbenzene	0.0549	0.00100	"	0.0500	ND	110	80-120	0.905	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	2.53	20	
Xylene (o)	0.0583	0.00100	"	0.0500	ND	117	80-120	1.72	20	
Surrogate: a,a,a-Trifluorotoluene	42.9		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	46.4		"	40.0		116	80-120			

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
<b>Batch EH62101 - General Preparation (WetChem)</b>										
<b>Blank (EH62101-BLK1)</b>				Prepared & Analyzed: 08/21/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
<b>LCS (EH62101-BS1)</b>				Prepared & Analyzed: 08/21/06						
Sulfate	8.51	0.500	mg/L	10.0		85.1	80-120			
Chloride	10.0	0.500	"	10.0		100	80-120			
<b>Calibration Check (EH62101-CCV1)</b>				Prepared & Analyzed: 08/21/06						
Sulfate	8.34		mg/L	10.0		83.4	80-120			
Chloride	10.2		"	10.0		102	80-120			
<b>Duplicate (EH62101-DUP1)</b>				Source: 6H18007-01		Prepared & Analyzed: 08/21/06				
Sulfate	76.3	5.00	mg/L		65.9			14.6	20	
Chloride	105	5.00	"		98.9			5.98	20	
<b>Duplicate (EH62101-DUP2)</b>				Source: 6H18013-04		Prepared & Analyzed: 08/21/06				
Sulfate	331	5.00	mg/L		336			1.50	20	
Chloride	138	5.00	"		136			1.46	20	
<b>Matrix Spike (EH62101-MS1)</b>				Source: 6H18007-01		Prepared & Analyzed: 08/21/06				
Sulfate	172	5.00	mg/L	100	65.9	106	80-120			
Chloride	210	5.00	"	100	98.9	111	80-120			
<b>Matrix Spike (EH62101-MS2)</b>				Source: 6H18013-04		Prepared & Analyzed: 08/21/06				
Sulfate	422	5.00	mg/L	100	336	86.0	80-120			
Chloride	224	5.00	"	100	136	88.0	80-120			

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
<b>Batch EH62128 - General Preparation (WetChem)</b>									
<b>Blank (EH62128-BLK1)</b>				Prepared & Analyzed: 08/21/06					
Total Alkalinity	ND	2.00	mg/L						
<b>LCS (EH62128-BS1)</b>				Prepared & Analyzed: 08/21/06					
Total Alkalinity	178		mg/L	200		89.0	85-115		
<b>Duplicate (EH62128-DUP1)</b>				<b>Source: 6H18007-01</b>		Prepared & Analyzed: 08/21/06			
Total Alkalinity	186	2.00	mg/L		186		0.00	20	
<b>Reference (EH62128-SRM1)</b>				Prepared & Analyzed: 08/21/06					
Total Alkalinity	248		mg/L	250		99.2	90-110		
<b>Batch EH62303 - Filtration Preparation</b>									
<b>Blank (EH62303-BLK1)</b>				Prepared: 08/18/06 Analyzed: 08/22/06					
Total Dissolved Solids	ND	10.0	mg/L						
<b>Duplicate (EH62303-DUP1)</b>				<b>Source: 6H18007-01</b>		Prepared: 08/18/06 Analyzed: 08/22/06			
Total Dissolved Solids	556	10.0	mg/L		526		5.55	5	R5
<b>Duplicate (EH62303-DUP2)</b>				<b>Source: 6H18013-04</b>		Prepared & Analyzed: 08/18/06			
Total Dissolved Solids	808	10.0	mg/L		930		14.0	5	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EH62313 - 6010B/No Digestion**

**Blank (EH62313-BLK1)**

Prepared & Analyzed: 08/23/06

Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							

**Calibration Check (EH62313-CCV1)**

Prepared & Analyzed: 08/23/06

Calcium	1.96		mg/L	2.00		98.0	85-115			
Magnesium	2.01		"	2.00		100	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.96		"	2.00		98.0	85-115			

**Duplicate (EH62313-DUP1)**

Source: 6H15005-04

Prepared & Analyzed: 08/23/06

Calcium	44.4	0.810	mg/L		45.9			3.32	20	
Magnesium	48.1	0.360	"		49.3			2.46	20	
Potassium	42.9	0.600	"		42.6			0.702	20	
Sodium	44.4	0.430	"		43.5			2.05	20	



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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

R5 RPD is outside of historic values  
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:

8/28/2006

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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Environmental Lab of Texas

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12600 West 1-20 East  
Odessa, Texas 79765

Phone: 432-553-1800  
Fax: 432-563-1713

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager:** Kristin Farris Pope [kpope@riceswd.com](mailto:kpope@riceswd.com)

Project Name: Hobbs Junction F-29-1A

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

PO#:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

**Sampler Signature:** Rozanne Johnson (505) 631-9310

Email: [rozanne@valor.net.com](mailto:rozanne@valor.net.com)

[illegible]

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

Client: Rice Dr.  
Date/ Time: 8/18/06 10:20  
Lab ID #: 6H18011  
Initials: CL

**Sample Receipt Checklist**

Client Initials

#1	Temperature of container/ cooler?	Yes	No	4.0 ° C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

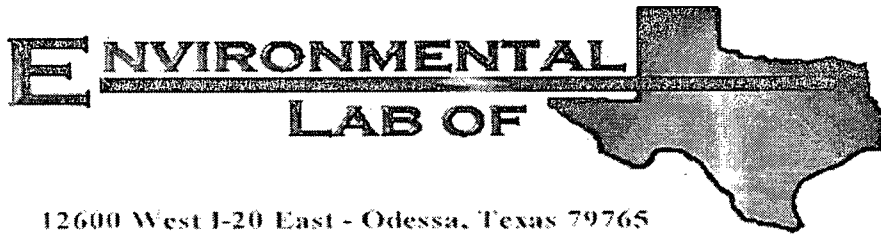
**Variance Documentation**

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

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

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: T18S R38E Sec 29 F- Lea County, NM

Lab Order Number: 6K08007

Report Date: 11/15/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Deep	6K08007-01	Water	11/03/06 09:35	11-08-2006 14:50
Monitor Well #2- Shallow	6K08007-02	Water	11/03/06 10:15	11-08-2006 14:50

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6K08007-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	

**Monitor Well #2- Shallow (6K08007-02) Water**

Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6K08007-01) Water</b>									
Total Alkalinity	152	2.00	mg/L	1	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	285	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	866	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	86.1	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	
<b>Monitor Well #2- Shallow (6K08007-02) Water</b>									
Total Alkalinity	228	2.00	mg/L	1	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	79.6	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	592	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	111	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6K08007-01) Water</b>									
Calcium	166	4.05	mg/L	50	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	23.5	0.360	"	10	"	"	"	"	
Potassium	3.30	0.600	"	"	"	"	"	"	
Sodium	77.6	0.430	"	"	"	"	"	"	
<b>Monitor Well #2- Shallow (6K08007-02) Water</b>									
Calcium	53.8	0.810	mg/L	10	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	13.7	0.360	"	"	"	"	"	"	
Potassium	1.88	0.600	"	"	"	"	"	"	
Sodium	124	2.15	"	50	"	"	"	"	

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
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**Batch EK60808 - EPA 5030C (GC)**

**Blank (EK60808-BLK1)**

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	ND	0.00100	mg/L					
Toluene	ND	0.00100	"					
Ethylbenzene	ND	0.00100	"					
Xylene (p/m)	ND	0.00100	"					
Xylene (o)	ND	0.00100	"					
Surrogate: <i>a,a,a</i> -Trifluorotoluene	40.3		ug/l	40.0		101	80-120	
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120	

**LCS (EK60808-BS1)**

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0525	0.00100	mg/L	0.0500		105	80-120	
Toluene	0.0458	0.00100	"	0.0500		91.6	80-120	
Ethylbenzene	0.0457	0.00100	"	0.0500		91.4	80-120	
Xylene (p/m)	0.0919	0.00100	"	0.100		91.9	80-120	
Xylene (o)	0.0448	0.00100	"	0.0500		89.6	80-120	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	41.2		ug/l	40.0		103	80-120	
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0		104	80-120	

**Calibration Check (EK60808-CCV1)**

Prepared: 11/08/06 Analyzed: 11/11/06

Benzene	50.9		ug/l	50.0		102	80-120	
Toluene	45.0		"	50.0		90.0	80-120	
Ethylbenzene	46.8		"	50.0		93.6	80-120	
Xylene (p/m)	90.9		"	100		90.9	80-120	
Xylene (o)	45.4		"	50.0		90.8	80-120	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	39.9		"	40.0		99.8	80-120	
Surrogate: 4-Bromofluorobenzene	39.0		"	40.0		97.5	80-120	

**Matrix Spike (EK60808-MS1)**

Source: 6K06005-01

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0503	0.00100	mg/L	0.0500	ND	101	80-120	
Toluene	0.0458	0.00100	"	0.0500	ND	91.6	80-120	
Ethylbenzene	0.0473	0.00100	"	0.0500	ND	94.6	80-120	
Xylene (p/m)	0.0939	0.00100	"	0.100	ND	93.9	80-120	
Xylene (o)	0.0465	0.00100	"	0.0500	ND	93.0	80-120	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	38.9		ug/l	40.0		97.2	80-120	
Surrogate: 4-Bromofluorobenzene	43.4		"	40.0		108	80-120	

Environmental Lab of Texas

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Page 5 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EK60808 - EPA 5030C (GC)**

**Matrix Spike Dup (EK60808-MSD1)**

Source: 6K06005-01

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120	2.93	20	
Toluene	0.0465	0.00100	"	0.0500	ND	93.0	80-120	1.52	20	
Ethylbenzene	0.0478	0.00100	"	0.0500	ND	95.6	80-120	1.05	20	
Xylene (p/m)	0.0983	0.00100	"	0.100	ND	98.3	80-120	4.58	20	
Xylene (o)	0.0494	0.00100	"	0.0500	ND	98.8	80-120	6.05	20	
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	43.7		"	40.0		109	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EK60911 - General Preparation (WetChem)**

**Blank (EK60911-BLK1)**

Prepared & Analyzed: 11/09/06

Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

**LCS (EK60911-BS1)**

Prepared & Analyzed: 11/09/06

Chloride	10.9	0.500	mg/L	10.0		109	80-120			
Sulfate	10.1	0.500	"	10.0		101	80-120			

**Calibration Check (EK60911-CCV1)**

Prepared & Analyzed: 11/09/06

Chloride	10.8		mg/L	10.0		108	80-120			
Sulfate	10.1		"	10.0		101	80-120			

**Duplicate (EK60911-DUP1)**

Source: 6K08007-01

Prepared & Analyzed: 11/09/06

Sulfate	86.2	5.00	mg/L		86.1			0.116	20	
Chloride	283	5.00	"		285			0.704	20	

**Duplicate (EK60911-DUP2)**

Source: 6K09002-01

Prepared & Analyzed: 11/09/06

Sulfate	1650	20.0	mg/L		1590			3.70	20	
Chloride	248	20.0	"		239			3.70	20	

**Matrix Spike (EK60911-MS1)**

Source: 6K08007-01

Prepared & Analyzed: 11/09/06

Sulfate	184	5.00	mg/L	100	86.1	97.9	80-120			
Chloride	404	5.00	"	100	285	119	80-120			

**Matrix Spike (EK60911-MS2)**

Source: 6K09002-01

Prepared & Analyzed: 11/09/06

Chloride	655	20.0	mg/L	400	239	104	80-120			
Sulfate	1960	20.0	"	400	1590	92.5	80-120			

Environmental Lab of Texas

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Page 7 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
<b>Batch EK61306 - Filtration Preparation</b>										
<b>Blank (EK61306-BLK1)</b>				Prepared: 11/09/06 Analyzed: 11/10/06						
Total Dissolved Solids	ND	10.0	mg/L							
<b>Duplicate (EK61306-DUP1)</b>				Source: 6K07002-01 Prepared: 11/09/06 Analyzed: 11/10/06						
Total Dissolved Solids	10400	10.0	mg/L		9240			11.8	5	S-08
<b>Duplicate (EK61306-DUP2)</b>				Source: 6K08010-02 Prepared: 11/09/06 Analyzed: 11/10/06						
Total Dissolved Solids	24600	10.0	mg/L		23600			4.15	5	
<b>Batch EK61307 - General Preparation (WetChem)</b>										
<b>Blank (EK61307-BLK1)</b>				Prepared & Analyzed: 11/14/06						
Total Alkalinity	ND	2.00	mg/L							
<b>LCS (EK61307-BS1)</b>				Prepared & Analyzed: 11/14/06						
Bicarbonate Alkalinity	192	2.00	mg/L	200		96.0	85-115			
<b>Duplicate (EK61307-DUP1)</b>				Source: 6K08007-01 Prepared & Analyzed: 11/14/06						
Total Alkalinity	150	2.00	mg/L		152			1.32	20	
<b>Reference (EK61307-SRM1)</b>				Prepared & Analyzed: 11/14/06						
Total Alkalinity	248		mg/L	250		99.2	90-110			

Environmental Lab of Texas

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Page 8 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch EK60919 - 6010B/No Digestion**

**Blank (EK60919-BLK1)**

Prepared & Analyzed: 11/09/06

Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							

**Calibration Check (EK60919-CCV1)**

Prepared & Analyzed: 11/09/06

Calcium	2.28		mg/L	2.00		114	85-115			
Magnesium	2.14		"	2.00		107	85-115			
Potassium	1.87		"	2.00		93.5	85-115			
Sodium	2.04		"	2.00		102	85-115			

**Duplicate (EK60919-DUP1)**

Source: 6K08007-01

Prepared & Analyzed: 11/09/06

Calcium	164	4.05	mg/L		166			1.21	20	
Magnesium	23.5	0.360	"		23.5			0.00	20	
Potassium	3.34	0.600	"		3.30			1.20	20	
Sodium	77.5	0.430	"		77.6			0.129	20	

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Page 9 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

S-08 Value outside Laboratory historical or method prescribed QC limits.  
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:

11/15/2006

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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Environmental Lab of Texas

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

Client: PCE Op.  
Date/ Time: 11/8/06 2:50  
Lab ID #: 6K0X007  
Initials: CK

**Sample Receipt Checklist**

				Client Initials	
#1	Temperature of container/ cooler?	Yes	No	05 °C	
#2	Shipping container in good condition?	<del>Yes</del>	No		
#3	Custody Seals intact on shipping container/ cooler?	<del>Yes</del>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<del>Yes</del>	No	Not Present	
#5	Chain of Custody present?	<del>Yes</del>	No		
#6	Sample instructions complete of Chain of Custody?	<del>Yes</del>	No		
#7	Chain of Custody signed when relinquished/ received?	<del>Yes</del>	No		
#8	Chain of Custody agrees with sample label(s)?	<del>Yes</del>	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<del>Yes</del>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<del>Yes</del>	No		
#11	Containers supplied by EL0T?	<del>Yes</del>	No		
#12	Samples in proper container/ bottle?	<del>Yes</del>	No	See Below	
#13	Samples properly preserved?	<del>Yes</del>	No	See Below	
#14	Sample bottles intact?	<del>Yes</del>	No		
#15	Preservations documented on Chain of Custody?	<del>Yes</del>	No		
#16	Containers documented on Chain of Custody?	<del>Yes</del>	No		
#17	Sufficient sample amount for indicated test(s)?	<del>Yes</del>	No	See Below	
#18	All samples received within sufficient hold time?	<del>Yes</del>	No	See Below	
#19	VOC samples have zero headspace?	<del>Yes</del>	No	Not Applicable	

**Variance Documentation**

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

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

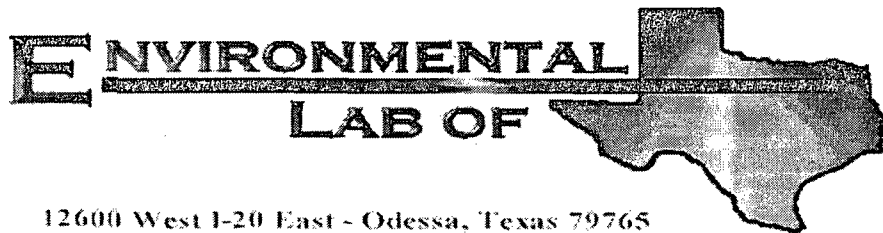
Corrective Action Taken:

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

Check all that Apply:

- ☐ See attached e-mail/ fax  
☐ Client understands and would like to proceed with analysis  
☐ Cooling process had begun shortly after sampling event





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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: Lea County

Lab Order Number: 6B02006

Report Date: 02/16/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/16/06 17:36

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1 Deep	6B02006-01	Water	01/31/06 09:50	02/02/06 09:00
Monitor Well #2 Shallow	6B02006-02	Water	01/31/06 09:15	02/02/06 09:00

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 Deep (6B02006-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		87.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-120		"	"	"	"	
<b>Monitor Well #2 Shallow (6B02006-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.5 %	80-120		"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 Deep (6B02006-01) Water</b>									
Total Alkalinity	140	2.00	mg/L	1	EB60901	02/08/06	02/08/06	EPA 310.1M	
Chloride	270	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
Total Dissolved Solids	1000	5.00	"	1	EB60302	02/02/06	02/02/06	EPA 160.1	
Sulfate	58.1	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
<b>Monitor Well #2 Shallow (6B02006-02) Water</b>									
Total Alkalinity	238	2.00	mg/L	1	EB60901	02/08/06	02/08/06	EPA 310.1M	
Chloride	144	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
Total Dissolved Solids	924	5.00	"	1	EB60302	02/02/06	02/02/06	EPA 160.1	
Sulfate	156	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	

Environmental Lab of Texas

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Page 3 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 Deep (6B02006-01) Water</b>									
Calcium	179	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	21.4	0.0100	"	10	"	"	"	"	
Potassium	5.89	0.0500	"	1	"	"	"	"	
Sodium	68.4	0.500	"	50	"	"	"	"	
<b>Monitor Well #2 Shallow (6B02006-02) Water</b>									
Calcium	63.2	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	16.8	0.0100	"	10	"	"	"	"	
Potassium	2.47	0.0500	"	1	"	"	"	"	
Sodium	254	0.500	"	50	"	"	"	"	

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Page 4 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EB60910 - EPA 5030C (GC)</b>									
<b>Blank (EB60910-BLK1)</b>									
				Prepared: 02/09/06 Analyzed: 02/10/06					
Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	"						
Xylene (p/m)	ND	0.00100	"						
Xylene (o)	ND	0.00100	"						
Surrogate: a,a,a-Trifluorotoluene	34.5		ug/l	40.0		86.2	80-120		
Surrogate: 4-Bromofluorobenzene	32.1		"	40.0		80.2	80-120		
<b>LCS (EB60910-BS1)</b>									
				Prepared: 02/09/06 Analyzed: 02/10/06					
Benzene	0.0457	0.00100	mg/L	0.0500		91.4	80-120		
Toluene	0.0496	0.00100	"	0.0500		99.2	80-120		
Ethylbenzene	0.0498	0.00100	"	0.0500		99.6	80-120		
Xylene (p/m)	0.100	0.00100	"	0.100		100	80-120		
Xylene (o)	0.0570	0.00100	"	0.0500		114	80-120		
Surrogate: a,a,a-Trifluorotoluene	35.2		ug/l	40.0		88.0	80-120		
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120		
<b>LCS Dup (EB60910-BSD1)</b>									
				Prepared: 02/09/06 Analyzed: 02/14/06					
Benzene	0.0568	0.00100	mg/L	0.0500		114	80-120	22.0	QR-02
Toluene	0.0584	0.00100	"	0.0500		117	80-120	16.5	20
Ethylbenzene	0.0507	0.00100	"	0.0500		101	80-120	1.40	20
Xylene (p/m)	0.0982	0.00100	"	0.100		98.2	80-120	1.82	20
Xylene (o)	0.0513	0.00100	"	0.0500		103	80-120	10.1	20
Surrogate: a,a,a-Trifluorotoluene	39.4		ug/l	40.0		98.5	80-120		
Surrogate: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120		
<b>Calibration Check (EB60910-CCV1)</b>									
				Prepared: 02/09/06 Analyzed: 02/13/06					
Benzene	55.0		ug/l	50.0		110	80-120		
Toluene	57.5		"	50.0		115	80-120		
Ethylbenzene	52.8		"	50.0		106	80-120		
Xylene (p/m)	103		"	100		103	80-120		
Xylene (o)	56.6		"	50.0		113	80-120		
Surrogate: a,a,a-Trifluorotoluene	43.5		"	40.0		109	80-120		
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120		

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

**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 EB60910 - EPA 5030C (GC)**

**Matrix Spike (EB60910-MS1)**

Source: 6B08024-01

Prepared: 02/09/06 Analyzed: 02/10/06

Benzene	0.0426	0.00100	mg/L	0.0500	ND	85.2	80-120			
Toluene	0.0449	0.00100	"	0.0500	ND	89.8	80-120			
Ethylbenzene	0.0432	0.00100	"	0.0500	ND	86.4	80-120			
Xylene (p/m)	0.0841	0.00100	"	0.100	ND	84.1	80-120			
Xylene (o)	0.0416	0.00100	"	0.0500	ND	83.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.7		ug/l	40.0		96.8	80-120			
Surrogate: 4-Bromofluorobenzene	47.0		"	40.0		118	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

**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
<b>Batch EB60302 - General Preparation (WetChem)</b>									
<b>Blank (EB60302-BLK1)</b>				Prepared & Analyzed: 02/02/06					
Total Dissolved Solids	ND	5.00	mg/L						
<b>Duplicate (EB60302-DUP1)</b>				Source: 6B01010-01		Prepared & Analyzed: 02/02/06			
Total Dissolved Solids	790	5.00	mg/L		794		0.505	5	
<b>Batch EB60614 - General Preparation (WetChem)</b>									
<b>Blank (EB60614-BLK1)</b>				Prepared: 02/04/06 Analyzed: 02/06/06					
Chloride	ND	0.500	mg/L						
Sulfate	ND	0.500	"						
<b>LCS (EB60614-BS1)</b>				Prepared: 02/04/06 Analyzed: 02/06/06					
Sulfate	8.40		mg/L	10.0		84.0	80-120		
Chloride	8.99		"	10.0		89.9	80-120		
<b>Calibration Check (EB60614-CCV1)</b>				Prepared: 02/04/06 Analyzed: 02/06/06					
Chloride	8.93		mg/L	10.0		89.3	80-120		
Sulfate	8.63		"	10.0		86.3	80-120		
<b>Duplicate (EB60614-DUP1)</b>				Source: 6B01010-01		Prepared: 02/04/06 Analyzed: 02/06/06			
Chloride	224	5.00	mg/L		206		8.37	20	
Sulfate	72.9	5.00	"		66.5		9.18	20	
<b>Batch EB60901 - General Preparation (WetChem)</b>									
<b>Blank (EB60901-BLK1)</b>				Prepared & Analyzed: 02/08/06					
Total Alkalinity	ND	2.00	mg/L						



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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/16/06 17:36

**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 EB60901 - General Preparation (WetChem)**

**LCS (EB60901-BS1)**

Prepared & Analyzed: 02/08/06

Bicarbonate Alkalinity	210	2.00	mg/L	200	105	85-115
------------------------	-----	------	------	-----	-----	--------

**Duplicate (EB60901-DUP1)**

Source: 6B01010-01

Prepared & Analyzed: 02/08/06

Total Alkalinity	192	2.00	mg/L	191	0.522	20
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**Reference (EB60901-SRM1)**

Prepared & Analyzed: 02/08/06

Total Alkalinity	96.0		mg/L	100	96.0	90-110
------------------	------	--	------	-----	------	--------

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/16/06 17:36

**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 EB60903 - 6010B/No Digestion**

**Blank (EB60903-BLK1)**

Prepared: 02/08/06 Analyzed: 02/09/06

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

**Calibration Check (EB60903-CCV1)**

Prepared: 02/08/06 Analyzed: 02/09/06

Calcium	2.06		mg/L	2.00		103	85-115			
Magnesium	2.05		"	2.00		102	85-115			
Potassium	1.92		"	2.00		96.0	85-115			
Sodium	1.90		"	2.00		95.0	85-115			

**Duplicate (EB60903-DUP1)**

Source: 6B01010-01

Prepared: 02/08/06 Analyzed: 02/09/06

Calcium	62.1	0.0100	mg/L		61.2			1.46	20	
Magnesium	43.5	0.0100	"		44.8			2.94	20	
Potassium	10.3	0.500	"		10.4			0.966	20	
Sodium	161	0.500	"		157			2.52	20	

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/16/06 17:36

### Notes and Definitions

QR-02     The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

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:

2/16/2006

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

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Page 10 of 10

12600 West I-20 East  
Odessa, Texas 79765

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope  
kpriceswd@valornet.com

**Project Name:** Hobbs Jct. F-29-1A

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

PO#:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

**Sampler Signature:** Rozanne Johnson (505) 631-9310

Email: [rozanne@valornet.com](mailto:rozanne@valornet.com)

[illegible]

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

Client: Rice Op.

Date/Time: 2/2/06 9:00

Order #: 6B02006

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.0	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?	Yes	No	Not Applicable	

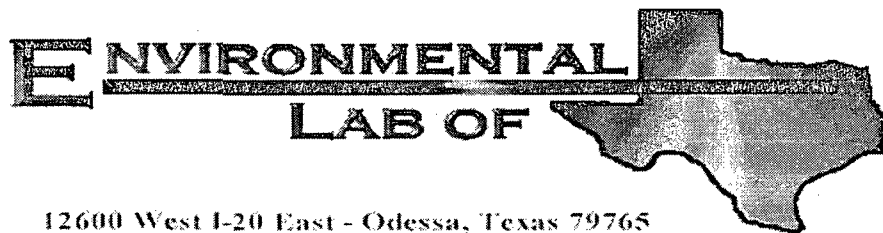
Other observations:

Variance Documentation:

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

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

Corrective Action Taken: \_\_\_\_\_



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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: Lea County

Lab Order Number: 6E04010

Report Date: 05/09/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Deep	6E04010-01	Water	05/02/06 10:40	05/04/06 10:50
Monitor Well #2- Shallow	6E04010-02	Water	05/02/06 09:05	05/04/06 10:50

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6E04010-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.5 %	80-120		"	"	"	"	
<b>Monitor Well #2- Shallow (6E04010-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		86.5 %	80-120		"	"	"	"	



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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6E04010-01) Water</b>									
Total Alkalinity	137	2.00	mg/L	1	EE60814	05/09/06	05/09/06	EPA 310.1M	
Chloride	298	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
Total Dissolved Solids	996	5.00	"	1	EE60816	05/05/06	05/08/06	EPA 160.1	
Sulfate	62.9	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
<b>Monitor Well #2- Shallow (6E04010-02) Water</b>									
Total Alkalinity	251	2.00	mg/L	1	EE60814	05/09/06	05/09/06	EPA 310.1M	
Chloride	160	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
Total Dissolved Solids	1040	5.00	"	1	EE60816	05/05/06	05/08/06	EPA 160.1	
Sulfate	153	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6E04010-01) Water</b>									
Calcium	173	0.500	mg/L	50	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	24.8	0.0100	"	10	"	"	"	"	
Potassium	2.43	0.500	"	"	"	"	"	"	
Sodium	47.1	0.100	"	"	"	"	"	"	
<b>Monitor Well #2- Shallow (6E04010-02) Water</b>									
Calcium	72.1	0.100	mg/L	10	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	20.5	0.0100	"	"	"	"	"	"	
Potassium	2.78	0.500	"	"	"	"	"	"	
Sodium	138	0.500	"	50	"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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
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**Batch EE60404 - EPA 5030C (GC)**

**Blank (EE60404-BLK1)**

Prepared & Analyzed: 05/04/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	36.7		ug/l	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	33.6		"	40.0		84.0	80-120			

**LCS (EE60404-BS1)**

Prepared & Analyzed: 05/04/06

Benzene	0.0536	0.00100	mg/L	0.0500		107	80-120			
Toluene	0.0531	0.00100	"	0.0500		106	80-120			
Ethylbenzene	0.0509	0.00100	"	0.0500		102	80-120			
Xylene (p/m)	0.117	0.00100	"	0.100		117	80-120			
Xylene (o)	0.0573	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.3		ug/l	40.0		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	39.5		"	40.0		98.8	80-120			

**Calibration Check (EE60404-CCV1)**

Prepared: 05/04/06 Analyzed: 05/05/06

Benzene	50.2		ug/l	50.0		100	80-120			
Toluene	49.3		"	50.0		98.6	80-120			
Ethylbenzene	53.0		"	50.0		106	80-120			
Xylene (p/m)	105		"	100		105	80-120			
Xylene (o)	52.4		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.3		"	40.0		88.2	80-120			
Surrogate: 4-Bromofluorobenzene	38.2		"	40.0		95.5	80-120			

**Matrix Spike (EE60404-MS1)**

Source: 6E03003-01

Prepared & Analyzed: 05/04/06

Benzene	0.0626	0.00100	mg/L	0.0500	0.00562	114	80-120			
Toluene	0.0534	0.00100	"	0.0500	ND	107	80-120			
Ethylbenzene	0.0534	0.00100	"	0.0500	0.000825	105	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120			
Xylene (o)	0.0577	0.00100	"	0.0500	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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
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**Batch EE60404 - EPA 5030C (GC)**

**Matrix Spike Dup (EE60404-MSD1)**

Source: 6E03003-01

Prepared & Analyzed: 05/04/06

Benzene	0.0617	0.00100	mg/L	0.0500	0.00562	112	80-120	1.77	20	
Toluene	0.0526	0.00100	"	0.0500	ND	105	80-120	1.89	20	
Ethylbenzene	0.0532	0.00100	"	0.0500	0.000825	105	80-120	0.00	20	
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117	80-120	2.53	20	
Xylene (o)	0.0565	0.00100	"	0.0500	ND	113	80-120	1.75	20	
Surrogate: a,a,a-Trifluorotoluene	40.9		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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
<b>Batch EE60507 - General Preparation (WetChem)</b>									
<b>Blank (EE60507-BLK1)</b>				Prepared & Analyzed: 05/04/06					
Chloride	ND	0.500	mg/L						
Sulfate	ND	0.500	"						
<b>LCS (EE60507-BS1)</b>				Prepared & Analyzed: 05/04/06					
Chloride	9.99	0.500	mg/L	10.0		99.9	80-120		
Sulfate	8.53	0.500	"	10.0		85.3	80-120		
<b>Calibration Check (EE60507-CCV1)</b>				Prepared & Analyzed: 05/04/06					
Chloride	10.4		mg/L	10.0		104	80-120		
Sulfate	9.15		"	10.0		91.5	80-120		
<b>Duplicate (EE60507-DUP1)</b>		<b>Source: 6D28002-02</b>		Prepared & Analyzed: 05/04/06					
Sulfate	52.7	0.500	mg/L		53.3		1.13	20	
Chloride	62.0	0.500	"		62.1		0.161	20	
<b>Batch EE60814 - General Preparation (WetChem)</b>									
<b>Blank (EE60814-BLK1)</b>				Prepared & Analyzed: 05/09/06					
Total Alkalinity	ND	2.00	mg/L						
<b>LCS (EE60814-BS1)</b>				Prepared & Analyzed: 05/09/06					
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115		
<b>Duplicate (EE60814-DUP1)</b>		<b>Source: 6E04009-01</b>		Prepared & Analyzed: 05/09/06					
Total Alkalinity	209	2.00	mg/L		208		0.480	20	
<b>Reference (EE60814-SRM1)</b>				Prepared & Analyzed: 05/09/06					
Total Alkalinity	96.0		mg/L	100		96.0	90-110		

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

**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 EE60816 - Filtration Preparation**

**Blank (EE60816-BLK1)**

Prepared: 05/05/06 Analyzed: 05/08/06

Total Dissolved Solids	ND	5.00	mg/L							
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**Duplicate (EE60816-DUP1)**

Source: 6E04009-01

Prepared: 05/05/06 Analyzed: 05/08/06

Total Dissolved Solids	940	5.00	mg/L		904			3.90	5	
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Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:23

**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 EE60811 - 6010B/No Digestion**

**Blank (EE60811-BLK1)**

Prepared & Analyzed: 05/08/06

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

**Calibration Check (EE60811-CCV1)**

Prepared & Analyzed: 05/08/06

Calcium	2.20		mg/L	2.00		110	85-115			
Magnesium	2.28		"	2.00		114	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.84		"	2.00		92.0	85-115			

**Duplicate (EE60811-DUP1)**

Source: 6E04009-01

Prepared & Analyzed: 05/08/06

Calcium	130	0.500	mg/L		128			1.55	20	
Magnesium	22.5	0.0100	"		23.2			3.06	20	
Potassium	4.11	0.0500	"		4.32			4.98	20	
Sodium	87.6	0.100	"		88.0			0.456	20	

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

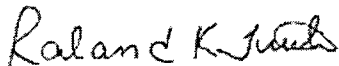
Fax: (505) 397-1471

**Reported:**  
05/09/06 14:23

### 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: 5/9/2006

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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12600 West I-20 East  
Odessa, Texas 79765  
Phone: 432-563-1800  
Fax: 432-563-1713

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager:** Kristin Farris Pope [kpope@riceswd.com](mailto:kpope@riceswd.com)

Project Name: Hobbs Jct. F-29-1A

Company Name RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

PO#:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471





**Sampler Signature:** Rozanne Johnson (505) 631-9310

Email: [rozanne@valornet.com](mailto:rozanne@valornet.com)

[illegible]

**Special Instructions:**

PLEASE Email RESULTS TO: [kpope@riceswd.com](mailto:kpope@riceswd.com) & [mfranks@riceswd.com](mailto:mfranks@riceswd.com)

Relinquished by:	Date	Time	Received by:	Date	Time
 Rozanne Johnson	5/4/06	6:00	 James Johnson	5/4/06	6:01
 James Johnson	5/4/06	10:50	 James Johnson	5/4/06	10:50

# Environmental Lab of Texas

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

Client: Rice Op.

Date/Time: 5/4/04 10:50

Order #: 16E09010

Initials: OK

### Sample Receipt Checklist

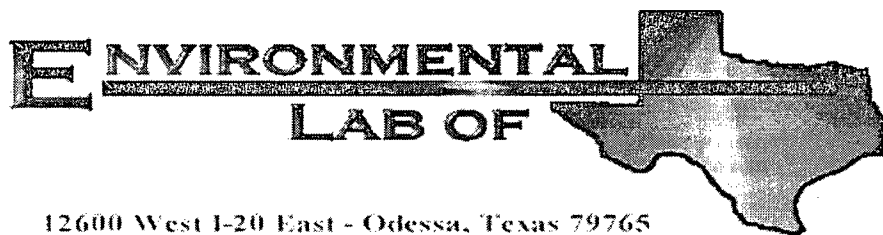
Temperature of container/cooler?	Yes	No	O.S	C
Shipping container/cooler in good condition?	<del>Yes</del>	No		
Custody Seals intact on shipping container/cooler?	<del>Yes</del>	No	Not present	
Custody Seals intact on sample bottles?	<del>Yes</del>	No	Not present	
Chain of custody present?	<del>Yes</del>	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		
DOC samples have zero headspace?	<del>Yes</del>	No	Not Applicable	

Other observations:

### Variance Documentation:

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

Corrective Action Taken:



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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: Lea County

Lab Order Number: 6H18011

Report Date: 08/28/06

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Deep	6H18011-01	Water	08/15/06 08:40	08-18-2006 10:20
Monitor Well #2- Shallow	6H18011-02	Water	08/15/06 10:05	08-18-2006 10:20

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6H18011-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EH62121	08/21/06	08/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-120		"	"	"	"	
<b>Monitor Well #2- Shallow (6H18011-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EH62121	08/21/06	08/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6H18011-01) Water</b>									
Total Alkalinity	158	2.00	mg/L	1	EH62128	08/21/06	08/21/06	EPA 310.1M	
Chloride	302	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
Total Dissolved Solids	1060	10.0	"	1	EH62303	08/18/06	08/22/06	EPA 160.1	
Sulfate	80.7	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
<b>Monitor Well #2- Shallow (6H18011-02) Water</b>									
Total Alkalinity	234	2.00	mg/L	1	EH62128	08/21/06	08/21/06	EPA 310.1M	
Chloride	81.9	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
Total Dissolved Solids	578	10.0	"	1	EH62303	08/18/06	08/22/06	EPA 160.1	
Sulfate	104	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6H18011-01) Water</b>									
Calcium	154	4.05	mg/L	50	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	24.5	0.360	"	10	"	"	"	"	
Potassium	2.88	0.600	"	"	"	"	"	"	
Sodium	70.5	0.430	"	"	"	"	"	"	
<b>Monitor Well #2- Shallow (6H18011-02) Water</b>									
Calcium	49.0	0.810	mg/L	10	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	13.3	0.360	"	"	"	"	"	"	
Potassium	1.76	0.600	"	"	"	"	"	"	
Sodium	145	2.15	"	50	"	"	"	"	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

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

**Batch EH62121 - EPA 5030C (GC)**

**Blank (EH62121-BLK1)**

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	ND	0.00100	mg/L					
Toluene	ND	0.00100	"					
Ethylbenzene	ND	0.00100	"					
Xylene (p/m)	ND	0.00100	"					
Xylene (o)	ND	0.00100	"					
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/l	40.0		101	80-120	
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120	

**LCS (EH62121-BS1)**

Prepared & Analyzed: 08/21/06

Benzene	0.0460	0.00100	mg/L	0.0500		92.0	80-120	
Toluene	0.0503	0.00100	"	0.0500		101	80-120	
Ethylbenzene	0.0463	0.00100	"	0.0500		92.6	80-120	
Xylene (p/m)	0.113	0.00100	"	0.100		113	80-120	
Xylene (o)	0.0565	0.00100	"	0.0500		113	80-120	
Surrogate: a,a,a-Trifluorotoluene	39.7		ug/l	40.0		99.2	80-120	
Surrogate: 4-Bromofluorobenzene	45.0		"	40.0		112	80-120	

**Calibration Check (EH62121-CCV1)**

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	48.7		ug/l	50.0		97.4	80-120	
Toluene	52.3		"	50.0		105	80-120	
Ethylbenzene	57.3		"	50.0		115	80-120	
Xylene (p/m)	114		"	100		114	80-120	
Xylene (o)	57.6		"	50.0		115	80-120	
Surrogate: a,a,a-Trifluorotoluene	44.7		"	40.0		112	80-120	
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.8	80-120	

**Matrix Spike (EH62121-MS1)**

Source: 6H18007-01

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	0.0464	0.00100	mg/L	0.0500	ND	92.8	80-120	
Toluene	0.0550	0.00100	"	0.0500	ND	110	80-120	
Ethylbenzene	0.0554	0.00100	"	0.0500	ND	111	80-120	
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117	80-120	
Xylene (o)	0.0575	0.00100	"	0.0500	ND	115	80-120	
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/l	40.0		104	80-120	
Surrogate: 4-Bromofluorobenzene	46.5		"	40.0		116	80-120	

Environmental Lab of Texas

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EH62121 - EPA 5030C (GC)**

**Matrix Spike Dup (EH62121-MSD1)**

Source: 6H18007-01

Prepared: 08/21/06 Analyzed: 08/22/06

Benzene	0.0473	0.00100	mg/L	0.0500	ND	94.6	80-120	1.92	20	
Toluene	0.0535	0.00100	"	0.0500	ND	107	80-120	2.76	20	
Ethylbenzene	0.0549	0.00100	"	0.0500	ND	110	80-120	0.905	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	2.53	20	
Xylene (o)	0.0583	0.00100	"	0.0500	ND	117	80-120	1.72	20	
Surrogate: a,a,a-Trifluorotoluene	42.9		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	46.4		"	40.0		116	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EH62101 - General Preparation (WetChem)**

**Blank (EH62101-BLK1)**

Prepared & Analyzed: 08/21/06

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

**LCS (EH62101-BS1)**

Prepared & Analyzed: 08/21/06

Sulfate	8.51	0.500	mg/L	10.0		85.1	80-120			
Chloride	10.0	0.500	"	10.0		100	80-120			

**Calibration Check (EH62101-CCV1)**

Prepared & Analyzed: 08/21/06

Sulfate	8.34		mg/L	10.0		83.4	80-120			
Chloride	10.2		"	10.0		102	80-120			

**Duplicate (EH62101-DUP1)**

Source: 6H18007-01

Prepared & Analyzed: 08/21/06

Sulfate	76.3	5.00	mg/L		65.9			14.6	20	
Chloride	105	5.00	"		98.9			5.98	20	

**Duplicate (EH62101-DUP2)**

Source: 6H18013-04

Prepared & Analyzed: 08/21/06

Sulfate	331	5.00	mg/L		336			1.50	20	
Chloride	138	5.00	"		136			1.46	20	

**Matrix Spike (EH62101-MS1)**

Source: 6H18007-01

Prepared & Analyzed: 08/21/06

Sulfate	172	5.00	mg/L	100	65.9	106	80-120			
Chloride	210	5.00	"	100	98.9	111	80-120			

**Matrix Spike (EH62101-MS2)**

Source: 6H18013-04

Prepared & Analyzed: 08/21/06

Sulfate	422	5.00	mg/L	100	336	86.0	80-120			
Chloride	224	5.00	"	100	136	88.0	80-120			

Environmental Lab of Texas

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Page 7 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
<b>Batch EH62128 - General Preparation (WetChem)</b>										
<b>Blank (EH62128-BLK1)</b>				Prepared & Analyzed: 08/21/06						
Total Alkalinity	ND	2.00	mg/L							
<b>LCS (EH62128-BS1)</b>				Prepared & Analyzed: 08/21/06						
Total Alkalinity	178		mg/L	200		89.0	85-115			
<b>Duplicate (EH62128-DUP1)</b>				<b>Source: 6H18007-01</b>		Prepared & Analyzed: 08/21/06				
Total Alkalinity	186	2.00	mg/L		186			0.00	20	
<b>Reference (EH62128-SRM1)</b>				Prepared & Analyzed: 08/21/06						
Total Alkalinity	248		mg/L	250		99.2	90-110			
<b>Batch EH62303 - Filtration Preparation</b>										
<b>Blank (EH62303-BLK1)</b>				Prepared: 08/18/06 Analyzed: 08/22/06						
Total Dissolved Solids	ND	10.0	mg/L							
<b>Duplicate (EH62303-DUP1)</b>				<b>Source: 6H18007-01</b>		Prepared: 08/18/06 Analyzed: 08/22/06				
Total Dissolved Solids	556	10.0	mg/L		526			5.55	5	R5
<b>Duplicate (EH62303-DUP2)</b>				<b>Source: 6H18013-04</b>		Prepared & Analyzed: 08/18/06				
Total Dissolved Solids	808	10.0	mg/L		930			14.0	5	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch EH62313 - 6010B/No Digestion**

**Blank (EH62313-BLK1)**

Prepared & Analyzed: 08/23/06

Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							

**Calibration Check (EH62313-CCV1)**

Prepared & Analyzed: 08/23/06

Calcium	1.96		mg/L	2.00		98.0	85-115			
Magnesium	2.01		"	2.00		100	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.96		"	2.00		98.0	85-115			

**Duplicate (EH62313-DUP1)**

Source: 6H15005-04

Prepared & Analyzed: 08/23/06

Calcium	44.4	0.810	mg/L		45.9			3.32	20	
Magnesium	48.1	0.360	"		49.3			2.46	20	
Potassium	42.9	0.600	"		42.6			0.702	20	
Sodium	44.4	0.430	"		43.5			2.05	20	

Environmental Lab of Texas

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Page 9 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

R5 RPD is outside of historic values  
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:

8/28/2006

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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Environmental Lab of Texas

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Page 10 of 10

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

Project Manager: Kristin Farris Pope    kpope@riceswd.com

Company Name RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

**Fax No: (505) 397-1471**

**Sampler Signature:** Rozanne Johnson (505) 631-9310

Email: [rozanne@valornet.com](mailto:rozanne@valornet.com)

[illegible]

**Special Instructions:**

PLEASE Email RESULTS TO: [kpope@riceswd.com](mailto:kpope@riceswd.com); [mfranks@riceswd.com](mailto:mfranks@riceswd.com)

rozanne@valornet.com

Sample Containers Intact?

### Labels on containers?

Custody Seals: ~~Containers~~ ~~Books~~

### Temperature Upon Receipt

Relinquished by:

Rozanne Johnson  
Relinquished by:

Received by:

James Johnson  
Received by: EL0T:

Date,	Time
-------	------

18/09	5:30
Date	Time

Date

3-18-18 Date

Time

Time: 131

Sample Containers Intact?	Y	N
---------------------------	---	---

Sample Containers Impact Labels on Containers?

Custody Seals   Containers   Proofer

Temperature Upon Receipt: \_\_\_\_\_

Laboratory Comments:

40

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

Client: Rice DR  
Date/ Time: 8/18/06 10:20  
Lab ID #: 6H18011  
Initials: OK

**Sample Receipt Checklist**

Client Initials

#1	Temperature of container/ cooler?	Yes	No	4.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

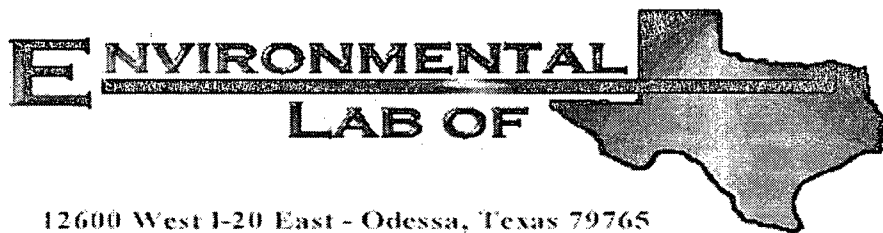
**Variance Documentation**

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

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

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event



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: Hobbs Jct. F-29-1A

Project Number: None Given

Location: T18S R38E Sec 29 F- Lea County, NM

Lab Order Number: 6K08007

Report Date: 11/15/06



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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Deep	6K08007-01	Water	11/03/06 09:35	11-08-2006 14:50
Monitor Well #2- Shallow	6K08007-02	Water	11/03/06 10:15	11-08-2006 14:50

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6K08007-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	
<b>Monitor Well #2- Shallow (6K08007-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		88.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6K08007-01) Water</b>									
Total Alkalinity	152	2.00	mg/L	1	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	285	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	866	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	86.1	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	
<b>Monitor Well #2- Shallow (6K08007-02) Water</b>									
Total Alkalinity	228	2.00	mg/L	1	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	79.6	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	592	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	111	5.00	"	10	EK60911	11/09/06	11/09/06	EPA 300.0	

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1- Deep (6K08007-01) Water</b>									
Calcium	166	4.05	mg/L	50	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	23.5	0.360	"	10	"	"	"	"	
Potassium	3.30	0.600	"	"	"	"	"	"	
Sodium	77.6	0.430	"	"	"	"	"	"	

**Monitor Well #2- Shallow (6K08007-02) Water**

Calcium	53.8	0.810	mg/L	10	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	13.7	0.360	"	"	"	"	"	"	
Potassium	1.88	0.600	"	"	"	"	"	"	
Sodium	124	2.15	"	50	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
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**Batch EK60808 - EPA 5030C (GC)**

**Blank (EK60808-BLK1)**

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/l	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120			

**LCS (EK60808-BS1)**

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0525	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0458	0.00100	"	0.0500		91.6	80-120			
Ethylbenzene	0.0457	0.00100	"	0.0500		91.4	80-120			
Xylene (p/m)	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (o)	0.0448	0.00100	"	0.0500		89.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0		104	80-120			

**Calibration Check (EK60808-CCV1)**

Prepared: 11/08/06 Analyzed: 11/11/06

Benzene	50.9		ug/l	50.0		102	80-120			
Toluene	45.0		"	50.0		90.0	80-120			
Ethylbenzene	46.8		"	50.0		93.6	80-120			
Xylene (p/m)	90.9		"	100		90.9	80-120			
Xylene (o)	45.4		"	50.0		90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		"	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.0		"	40.0		97.5	80-120			

**Matrix Spike (EK60808-MS1)**

Source: 6K06005-01

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0503	0.00100	mg/L	0.0500	ND	101	80-120			
Toluene	0.0458	0.00100	"	0.0500	ND	91.6	80-120			
Ethylbenzene	0.0473	0.00100	"	0.0500	ND	94.6	80-120			
Xylene (p/m)	0.0939	0.00100	"	0.100	ND	93.9	80-120			
Xylene (o)	0.0465	0.00100	"	0.0500	ND	93.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.9		ug/l	40.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.4		"	40.0		108	80-120			

Environmental Lab of Texas

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Page 5 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
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**Batch EK60808 - EPA 5030C (GC)**

Matrix Spike Dup (EK60808-MSD1)		Source: 6K06005-01		Prepared: 11/08/06		Analyzed: 11/10/06				
Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120	2.93	20	
Toluene	0.0465	0.00100	"	0.0500	ND	93.0	80-120	1.52	20	
Ethylbenzene	0.0478	0.00100	"	0.0500	ND	95.6	80-120	1.05	20	
Xylene (p/m)	0.0983	0.00100	"	0.100	ND	98.3	80-120	4.58	20	
Xylene (o)	0.0494	0.00100	"	0.0500	ND	98.8	80-120	6.05	20	
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	43.7		"	40.0		109	80-120			

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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
<b>Batch EK60911 - General Preparation (WetChem)</b>										
<b>Blank (EK60911-BLK1)</b>				Prepared & Analyzed: 11/09/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
<b>LCS (EK60911-BS1)</b>				Prepared & Analyzed: 11/09/06						
Chloride	10.9	0.500	mg/L	10.0		109	80-120			
Sulfate	10.1	0.500	"	10.0		101	80-120			
<b>Calibration Check (EK60911-CCV1)</b>				Prepared & Analyzed: 11/09/06						
Chloride	10.8		mg/L	10.0		108	80-120			
Sulfate	10.1		"	10.0		101	80-120			
<b>Duplicate (EK60911-DUP1)</b>		<b>Source: 6K08007-01</b>		Prepared & Analyzed: 11/09/06						
Sulfate	86.2	5.00	mg/L		86.1			0.116	20	
Chloride	283	5.00	"		285			0.704	20	
<b>Duplicate (EK60911-DUP2)</b>		<b>Source: 6K09002-01</b>		Prepared & Analyzed: 11/09/06						
Sulfate	1650	20.0	mg/L		1590			3.70	20	
Chloride	248	20.0	"		239			3.70	20	
<b>Matrix Spike (EK60911-MS1)</b>		<b>Source: 6K08007-01</b>		Prepared & Analyzed: 11/09/06						
Sulfate	184	5.00	mg/L	100	86.1	97.9	80-120			
Chloride	404	5.00	"	100	285	119	80-120			
<b>Matrix Spike (EK60911-MS2)</b>		<b>Source: 6K09002-01</b>		Prepared & Analyzed: 11/09/06						
Chloride	655	20.0	mg/L	400	239	104	80-120			
Sulfate	1960	20.0	"	400	1590	92.5	80-120			

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EK61306 - Filtration Preparation**

**Blank (EK61306-BLK1)**

Prepared: 11/09/06 Analyzed: 11/10/06

Total Dissolved Solids ND 10.0 mg/L

**Duplicate (EK61306-DUP1)**

Source: 6K07002-01

Prepared: 11/09/06 Analyzed: 11/10/06

Total Dissolved Solids 10400 10.0 mg/L 9240 11.8 5 S-08

**Duplicate (EK61306-DUP2)**

Source: 6K08010-02

Prepared: 11/09/06 Analyzed: 11/10/06

Total Dissolved Solids 24600 10.0 mg/L 23600 4.15 5

**Batch EK61307 - General Preparation (WetChem)**

**Blank (EK61307-BLK1)**

Prepared & Analyzed: 11/14/06

Total Alkalinity ND 2.00 mg/L

**LCS (EK61307-BS1)**

Prepared & Analyzed: 11/14/06

Bicarbonate Alkalinity 192 2.00 mg/L 200 96.0 85-115

**Duplicate (EK61307-DUP1)**

Source: 6K08007-01

Prepared & Analyzed: 11/14/06

Total Alkalinity 150 2.00 mg/L 152 1.32 20

**Reference (EK61307-SRM1)**

Prepared & Analyzed: 11/14/06

Total Alkalinity 248 mg/L 250 99.2 90-110



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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**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 EK60919 - 6010B/No Digestion**

**Blank (EK60919-BLK1)**

Prepared & Analyzed: 11/09/06

Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							

**Calibration Check (EK60919-CCV1)**

Prepared & Analyzed: 11/09/06

Calcium	2.28		mg/L	2.00		114	85-115			
Magnesium	2.14		"	2.00		107	85-115			
Potassium	1.87		"	2.00		93.5	85-115			
Sodium	2.04		"	2.00		102	85-115			

**Duplicate (EK60919-DUP1)**

Source: 6K08007-01

Prepared & Analyzed: 11/09/06

Calcium	164	4.05	mg/L		166			1.21	20	
Magnesium	23.5	0.360	"		23.5			0.00	20	
Potassium	3.34	0.600	"		3.30			1.20	20	
Sodium	77.5	0.430	"		77.6			0.129	20	

Environmental Lab of Texas

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Page 9 of 10

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

Project: Hobbs Jct. F-29-1A  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

S-08 Value outside Laboratory historical or method prescribed QC limits.

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:

11/15/2006

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

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Page 10 of 10

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

42600 West 1-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

**Project Name:** Hobbs Junction F-29-1A

**Project #:**

Project Loc: T18S R38E Sec29 F ~ Lea County New Mexico

PO#:

Fax No: (505) 397-1471

Fax No:

(505) 397-1471  
rozanne@valomet.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

rozanne@valornet.com

[illegible]

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

Client: Pire Op.  
Date/ Time: 11/8/06 2:50  
Lab ID #: 6K0X0017  
Initials: CK

**Sample Receipt Checklist**

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	05 °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

**Variance Documentation**

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

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

Corrective Action Taken:

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

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event