

1R - 428-41

**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  
I-29 Vent, Sec 29, T18S, R38E, Unit "I"  
NMOCD Case #: Pending 1R428-41

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the I-29 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 will be submitted to NMOCD by June 18, 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**

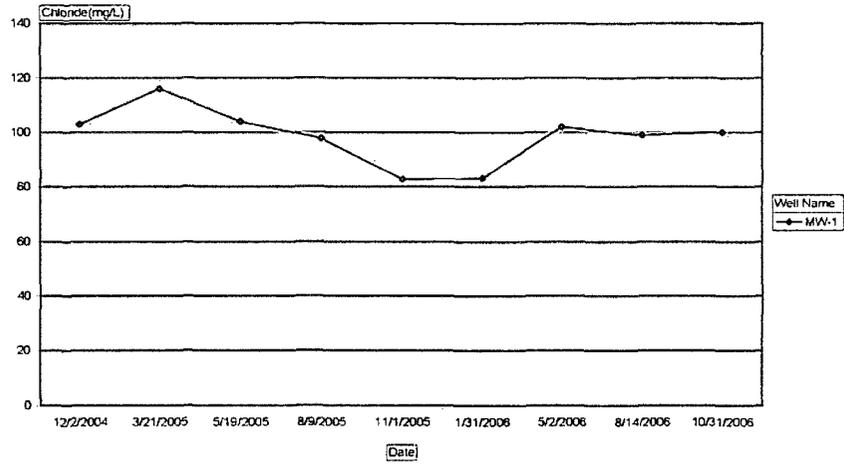
I-29 Vent

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	12/2/2004	68.12	103	97.7	521	<0.001	<0.001	<0.001	<0.001	red; silty
MW-1	3/21/2005	67.52	116	96.6	617	<0.001	<0.001	<0.001	<0.001	red; silty
MW-1	5/19/2005	67.44	104	89.7	647	<0.001	<0.001	<0.001	<0.001	
MW-1	8/9/2005	67.53	97.7	87.5	538	<0.001	<0.001	<0.001	<0.001	
MW-1	11/1/2005	67.45	82.7	68	600	<0.001	j[0.000346]	<0.001	j[0.000799]	
MW-1	1/31/2006	67.74	83.1	59.6	508	<0.001	<0.001	<0.001	<0.001	
MW-1	5/2/2006	67.66	102	69.6	572	<0.001	<0.001	<0.001	<0.001	
MW-1	8/14/2006	68.09	98.9	65.9	526	<0.001	<0.001	<0.001	<0.001	Clear with some sand
MW-1	10/31/2006	67.92	100	80.3	454	<0.001	<0.001	<0.001	<0.001	No odor Clear with some sand

Ground Water Quality at I-29 Vent

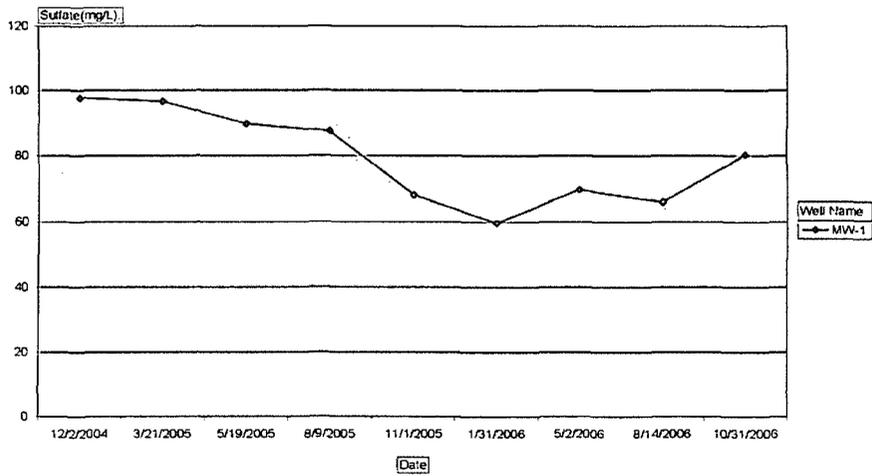
Site Name: I-29 Vent

Chloride Over Time



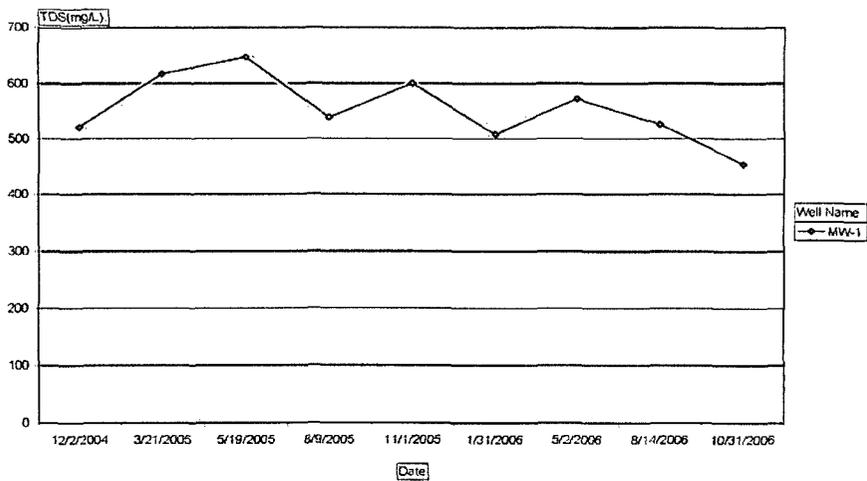
Site Name: I-29 Vent

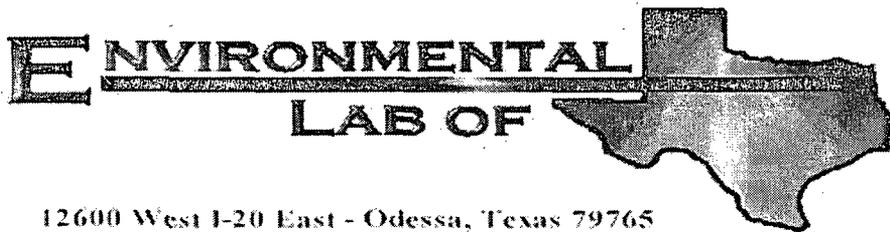
Sulfate Over Time



Site Name: I-29 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 I-29 Vent

Project Number: None Given

Location: Lea County

Lab Order Number: 6B02002

Report Date: 02/09/06

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/09/06 16:25

**ANALYTICAL REPORT FOR SAMPLES**

<b>Sample ID</b>	<b>Laboratory ID</b>	<b>Matrix</b>	<b>Date Sampled</b>	<b>Date Received</b>
Monitor Well #1	6B02002-01	Water	01/31/06 10:45	02/02/06 09:00

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

Project: Hobbs 1-29 Vent  
 Project Number: None Given  
 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
 Reported:  
 02/09/06 16:25

**Organics by GC  
 Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 (6B02002-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB60304	02/03/06	02/07/06	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>		105 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		100 %	80-120		"	"	"	"	

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
02/09/06 16:25

**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 (6B02002-01) Water</b>									
Total Alkalinity	168	2.00	mg/L	1	EB60901	02/08/06	02/08/06	EPA 310.1M	
Chloride	83.1	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	
Total Dissolved Solids	508	5.00	"	1	EB60302	02/02/06	02/02/06	EPA 160.1	
Sulfate	59.6	5.00	"	10	EB60614	02/04/06	02/06/06	EPA 300.0	

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

Project: Hobbs 1-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
02/09/06 16:25

**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 (6B02002-01) Water</b>									
Calcium	81.1	0.100	mg/L	10	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	15.8	0.0100	"	"	"	"	"	"	
Potassium	3.74	0.0500	"	1	"	"	"	"	
Sodium	53.8	0.100	"	10	"	"	"	"	

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
Reported:  
02/09/06 16:25

**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 EB60304 - EPA 5030C (GC)**

**Blank (EB60304-BLK1)**

Prepared: 02/03/06 Analyzed: 02/07/06

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	38.0		ug/l	40.0		95.0	80-120			
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120			

**LCS (EB60304-BS1)**

Prepared: 02/03/06 Analyzed: 02/06/06

Benzene	0.0463	0.00100	mg/L	0.0500		92.6	80-120			
Toluene	0.0483	0.00100	"	0.0500		96.6	80-120			
Ethylbenzene	0.0470	0.00100	"	0.0500		94.0	80-120			
Xylene (p/m)	0.0883	0.00100	"	0.100		88.3	80-120			
Xylene (o)	0.0433	0.00100	"	0.0500		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.6		ug/l	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	35.3		"	40.0		88.2	80-120			

**Calibration Check (EB60304-CCV1)**

Prepared: 02/03/06 Analyzed: 02/07/06

Benzene	46.1		ug/l	50.0		92.2	80-120			
Toluene	50.2		"	50.0		100	80-120			
Ethylbenzene	50.8		"	50.0		102	80-120			
Xylene (p/m)	94.4		"	100		94.4	80-120			
Xylene (o)	47.4		"	50.0		94.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	35.9		"	40.0		89.8	80-120			

**Matrix Spike (EB60304-MS1)**

Source: 6A30005-06

Prepared: 02/03/06 Analyzed: 02/07/06

Benzene	0.0488	0.00100	mg/L	0.0500	0.00119	95.2	80-120			
Toluene	0.0496	0.00100	"	0.0500	0.000302	98.6	80-120			
Ethylbenzene	0.0514	0.00100	"	0.0500	0.000224	102	80-120			
Xylene (p/m)	0.0975	0.00100	"	0.100	0.000882	96.6	80-120			
Xylene (o)	0.0496	0.00100	"	0.0500	ND	99.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.5		ug/l	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	44.8		"	40.0		112	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 I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/09/06 16:25

**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 EB60304 - EPA 5030C (GC)**

Matrix Spike Dup (EB60304-MSD1)	Source: 6A30005-06			Prepared: 02/03/06 Analyzed: 02/06/06						
Benzene	0.0460	0.00100	mg/L	0.0500	0.00119	89.6	80-120	6.06	20	
Toluene	0.0477	0.00100	"	0.0500	0.000302	94.8	80-120	3.93	20	
Ethylbenzene	0.0501	0.00100	"	0.0500	0.000224	99.8	80-120	2.18	20	
Xylene (p/m)	0.0938	0.00100	"	0.100	0.000882	92.9	80-120	3.91	20	
Xylene (o)	0.0483	0.00100	"	0.0500	ND	96.6	80-120	2.66	20	
Surrogate: <i>a,a</i> -Trifluorotoluene	40.3		ug/l	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0		104	80-120			

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
Reported:  
02/09/06 16:25

**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 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					
Chloride	8.99		mg/L	10.0		89.9	80-120			
Sulfate	8.40		"	10.0		84.0	80-120			
<b>Calibration Check (EB60614-CCVI)</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 1-29 Vent  
 Project Number: None Given  
 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
 02/09/06 16:25

**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 EB60901 - General Preparation (WetChem)</b>										
<b>LCS (EB60901-BS1)</b>					Prepared & Analyzed: 02/08/06					
Bicarbonate Alkalinity	210	2.00	mg/L	200		105	85-115			
<b>Duplicate (EB60901-DUPI)</b>					Source: 6B01010-01 Prepared & Analyzed: 02/08/06					
Total Alkalinity	192	2.00	mg/L		191			0.522	20	
<b>Reference (EB60901-SRM1)</b>					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 I-29 Vent Project Number: None Given Project Manager: Kristin Farris-Pope	Fax: (505) 397-1471  Reported: 02/09/06 16:25
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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**

<b>Blank (EB60903-BLK1)</b>				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	"							

<b>Calibration Check (EB60903-CCV1)</b>				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			

<b>Duplicate (EB60903-DUP1)</b>				<b>Source: 6B01010-01</b>		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	

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
02/09/06 16:25

### 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: 2/9/2006

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

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 10 of 10



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

Client: Rice Op.  
 Date/Time: 2/2/06 9:00  
 Order #: 6B02002  
 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:

\* see attached e-mail

Variance Documentation:

Contact Person: Rozanne Johnson Date/Time: 02-02-06 @ 1100 Contacted by: Jeanne McMurry

Regarding:

\* sample time

Corrective Action Taken:

Client wants to reference container

**Jeanne McMurrey**

---

**From:** "Rozanne Johnson" <rozanne@valornet.com>  
**To:** "Jeanne McMurrey" <jeanne@elabtxas.com>  
**Sent:** Thursday, February 02, 2006 11:01 AM  
**Attach:** Hobbs I-9 Vent.doc  
**Subject:** RE: Hobbs I-29 Vent sample

Jeanne,

Thanks for the email - I have attached a copy of my field notes which indicates the 10:45 time.

Rozanne

-----Original Message-----

**From:** Jeanne McMurrey [mailto:jeanne@elabtxas.com]  
**Sent:** Thursday, February 02, 2006 9:32 AM  
**To:** Rozanne Johnson  
**Subject:** Re: Hobbs I-29 Vent sample

Good Morning Rozanne,  
We received your samples for Hobbs I-29 Vent today. There is a discrepancy on the sample time. The COC says 0950 and the container says 1045. Which time would you like to reference? Let me know when you have the chance.  
Thanks,  
Jeanne

Jeanne McMurrey  
Environmental Lab of Texas I, Ltd.  
12600 West I-20 East  
Odessa, Texas 79765  
432-563-1800

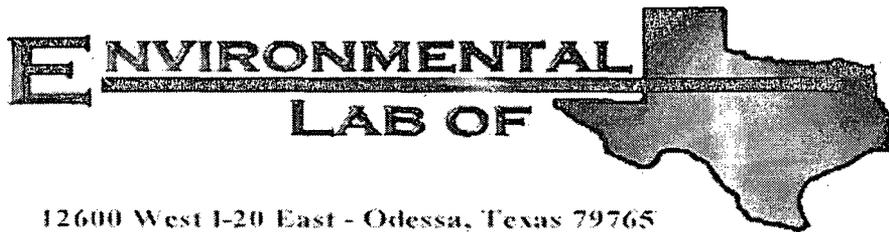
--

This message has been scanned for viruses and dangerous content by BasinBroadband, and is believed to be clean.

--

This message has been scanned for viruses and dangerous content by BasinBroadband, and is believed to be clean.

2/2/2006



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 I-29 Vent  
Project Number: None Given  
Location: Lea County

Lab Order Number: 6E04011

Report Date: 05/09/06

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:**  
05/09/06 14:21

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6E04011-01	Water	05/02/06 12:09	05/04/06 10:50

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

Project: Hobbs I-29 Vent  
 Project Number: None Given  
 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
 05/09/06 14:21

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 (6E04011-01) 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>		97.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.8 %	80-120		"	"	"	"	

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
05/09/06 14:21

**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 (6E04011-01) Water</b>									
<b>Total Alkalinity</b>	<b>168</b>	2.00	mg/L	1	EE60814	05/09/06	05/09/06	EPA 310.1M	
<b>Chloride</b>	<b>102</b>	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>572</b>	5.00	"	1	EE60816	05/05/06	05/08/06	EPA 160.1	
<b>Sulfate</b>	<b>69.6</b>	5.00	"	10	EE60507	05/04/06	05/04/06	EPA 300.0	

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

Project: Hobbs 1-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:21

**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 (6E04011-01) Water</b>									
Calcium	98.9	0.100	mg/L	10	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	19.4	0.0100	"	"	"	"	"	"	
Potassium	1.76	0.0500	"	1	"	"	"	"	
Sodium	33.2	0.100	"	10	"	"	"	"	

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:21

**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-BLKI)**

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			

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

Project: Hobbs I-29 Vent  
 Project Number: None Given  
 Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
 05/09/06 14:21

**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 I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:21

**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-SRMI)</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 I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:21

**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

**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

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
05/09/06 14:21

**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-CCVI)**

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	

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

Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
05/09/06 14:21

### 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.



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

Client: Rice Op.  
 Date/Time: 5/4/04 10:50  
 Order #: 16E0904  
 Initials: CK

**Sample Receipt Checklist**

	Yes	No	O.S	C
Temperature of container/cooler?				
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		
VOC samples have zero headspace?	<input checked="" type="checkbox"/>	No	Not Applicable	

Other observations:

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

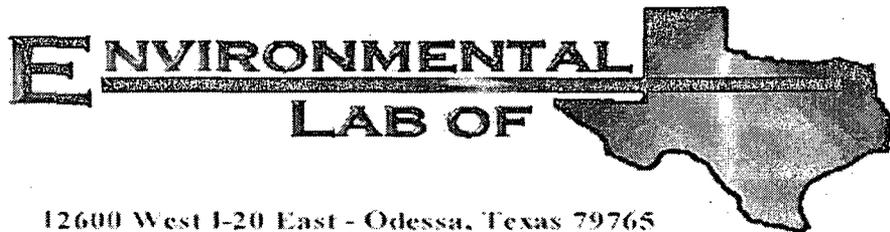
**Variance Documentation:**

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

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

Corrective Action Taken:

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



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 I-29 Vent

Project Number: None Given

Location: Lea County

Lab Order Number: 6H18007

Report Date: 08/28/06

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

Project: Hobbs I-29 Vent  
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	6H18007-01	Water	08/14/06 08:15	08-18-2006 10:20

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

Project: Hobbs I-29 Vent  
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 (6H18007-01) 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	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.5 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		81.2 %	80-120		"	"	"	"	

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

Project: Hobbs I-29 Vent  
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 (6H18007-01) Water</b>									
Total Alkalinity	186	2.00	mg/L	1	EH62128	08/21/06	08/21/06	EPA 310.1M	
Chloride	98.9	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	
Total Dissolved Solids	526	10.0	"	1	EH62303	08/18/06	08/22/06	EPA 160.1	
Sulfate	65.9	5.00	"	10	EH62101	08/21/06	08/21/06	EPA 300.0	

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

Project: Hobbs I-29 Vent  
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 (6H18007-01) Water**

Calcium	84.3	0.810	mg/L	10	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	17.3	0.360	"	"	"	"	"	"	
Potassium	1.54	0.600	"	"	"	"	"	"	
Sodium	48.2	0.430	"	"	"	"	"	"	

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

Project: Hobbs I-29 Vent  
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
<b>Batch EH62121 - EPA 5030C (GC)</b>										
<b>Blank (EH62121-BLK1)</b>										
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			
<b>LCS (EH62121-BS1)</b>										
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			
<b>Calibration Check (EH62121-CCV1)</b>										
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			
<b>Matrix Spike (EH62121-MS1)</b>										
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			

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

Project: Hobbs 1-29 Vent  
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 I-29 Vent  
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 I-29 Vent  
 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 I-29 Vent  
 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 1-29 Vent  
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.

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

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



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

Client: Rice DP  
 Date/ Time: 8/18/06 10:20  
 Lab ID #: 6H18007  
 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

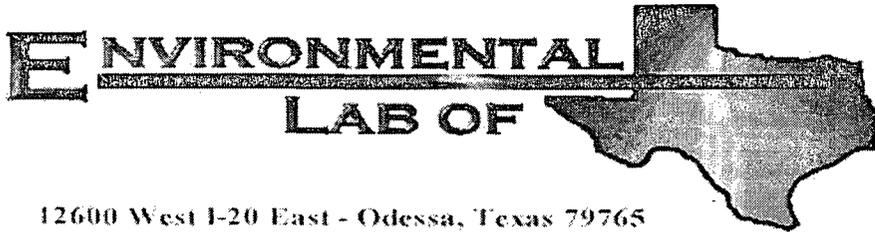
**Variance Documentation**

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 I-29 Vent

Project Number: None Given

Location: T18S, R38E, Sec.29 I- Lea County, NM

Lab Order Number: 6K03009

Report Date: 11/10/06

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

Project: Hobbs 1-29 Vent  
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	6K03009-01	Water	10/31/06 09:20	11-03-2006 11:45

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

Project: Hobbs I-29 Vent  
 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 (6K03009-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EK60807	11/08/06	11/08/06	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>		92.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.2 %	80-120		"	"	"	"	

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

Project: Hobbs I-29 Vent  
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 (6K03009-01) Water</b>									
Total Alkalinity	184	2.00	mg/L	1	EK60711	11/07/06	11/07/06	EPA 310.1M	
Chloride	100	5.00	"	10	EK60602	11/06/06	11/06/06	EPA 300.0	
Total Dissolved Solids	454	10.0	"	1	EK60209	11/03/06	11/06/06	EPA 160.1	
Sulfate	80.3	5.00	"	10	EK60602	11/06/06	11/06/06	EPA 300.0	

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

Project: Hobbs 1-29 Vent  
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 (6K03009-01) Water</b>									
Calcium	80.8	0.810	mg/L	10	EK60712	11/07/06	11/07/06	EPA 6010B	
Magnesium	16.3	0.360	"	"	"	"	"	"	
Potassium	1.56	0.600	"	"	"	"	"	"	
Sodium	42.7	0.430	"	"	"	"	"	"	

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

Project: Hobbs I-29 Vent  
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
<b>Batch EK60807 - EPA 5030C (GC)</b>										
<b>Blank (EK60807-BLK1)</b> Prepared & Analyzed: 11/08/06										
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	39.7		ug/l	40.0		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	36.0		"	40.0		90.0	80-120			
<b>LCS (EK60807-BS1)</b> Prepared & Analyzed: 11/08/06										
Benzene	0.0505	0.00100	mg/L	0.0500		101	80-120			
Toluene	0.0455	0.00100	"	0.0500		91.0	80-120			
Ethylbenzene	0.0450	0.00100	"	0.0500		90.0	80-120			
Xylene (p/m)	0.0963	0.00100	"	0.100		96.3	80-120			
Xylene (o)	0.0469	0.00100	"	0.0500		93.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.7		ug/l	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	42.3		"	40.0		106	80-120			
<b>Calibration Check (EK60807-CCV1)</b> Prepared: 11/08/06 Analyzed: 11/09/06										
Benzene	53.7		ug/l	50.0		107	80-120			
Toluene	46.9		"	50.0		93.8	80-120			
Ethylbenzene	48.0		"	50.0		96.0	80-120			
Xylene (p/m)	93.1		"	100		93.1	80-120			
Xylene (o)	45.8		"	50.0		91.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.4		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120			
<b>Matrix Spike (EK60807-MS1)</b> Source: 6K03002-01 Prepared: 11/08/06 Analyzed: 11/09/06										
Benzene	0.0549	0.00100	mg/L	0.0500	ND	110	80-120			
Toluene	0.0474	0.00100	"	0.0500	ND	94.8	80-120			
Ethylbenzene	0.0462	0.00100	"	0.0500	ND	92.4	80-120			
Xylene (p/m)	0.0939	0.00100	"	0.100	ND	93.9	80-120			
Xylene (o)	0.0451	0.00100	"	0.0500	ND	90.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.5		ug/l	40.0		98.8	80-120			
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.5	80-120			

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

Project: Hobbs I-29 Vent  
 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 EK60807 - EPA 5030C (GC)**

<b>Matrix Spike Dup (EK60807-MSD1)</b>	<b>Source: 6K03002-01</b>			<b>Prepared: 11/08/06</b>		<b>Analyzed: 11/09/06</b>				
Benzene	0.0554	0.00100	mg/L	0.0500	ND	111	80-120	0.905	20	
Toluene	0.0504	0.00100	"	0.0500	ND	101	80-120	6.33	20	
Ethylbenzene	0.0472	0.00100	"	0.0500	ND	94.4	80-120	2.14	20	
Xylene (p/m)	0.105	0.00100	"	0.100	ND	105	80-120	11.2	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	14.2	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>39.4</i>		<i>ug/l</i>	<i>40.0</i>		<i>98.5</i>	<i>80-120</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>42.5</i>		<i>"</i>	<i>40.0</i>		<i>106</i>	<i>80-120</i>			

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

Project: Hobbs I-29 Vent  
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	RPD RPD	Limit Limits	RPD Limit	Notes
<b>Batch EK60209 - Filtration Preparation</b>										
<b>Blank (EK60209-BLK1)</b>					Prepared: 11/02/06 Analyzed: 11/03/06					
Total Dissolved Solids	ND	10.0	mg/L							
<b>Duplicate (EK60209-DUP1)</b>					Source: 6K01015-01 Prepared: 11/02/06 Analyzed: 11/03/06					
Total Dissolved Solids	696	10.0	mg/L		702		0.858		5	
<b>Duplicate (EK60209-DUP2)</b>					Source: 6K03008-04 Prepared: 11/03/06 Analyzed: 11/06/06					
Total Dissolved Solids	500	10.0	mg/L		492		1.61		5	
<b>Batch EK60602 - General Preparation (WetChem)</b>										
<b>Blank (EK60602-BLK1)</b>					Prepared & Analyzed: 11/06/06					
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
<b>LCS (EK60602-BS1)</b>					Prepared & Analyzed: 11/06/06					
Sulfate	9.30	0.500	mg/L	10.0		93.0		80-120		
Chloride	10.2	0.500	"	10.0		102		80-120		
<b>Calibration Check (EK60602-CCV1)</b>					Prepared & Analyzed: 11/06/06					
Chloride	10.0		mg/L	10.0		100		80-120		
Sulfate	10.9		"	10.0		109		80-120		
<b>Duplicate (EK60602-DUP1)</b>					Source: 6K03002-01 Prepared & Analyzed: 11/06/06					
Sulfate	508	5.00	mg/L		511		0.589		20	
Chloride	45.8	5.00	"		45.4		0.877		20	
<b>Duplicate (EK60602-DUP2)</b>					Source: 6K03008-04 Prepared & Analyzed: 11/06/06					
Sulfate	116	5.00	mg/L		115		0.866		20	
Chloride	44.5	5.00	"		44.2		0.676		20	

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

Project: Hobbs 1-29 Vent  
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 EK60602 - General Preparation (WetChem)</b>										
<b>Matrix Spike (EK60602-MS1)</b>		<b>Source: 6K03002-01</b>			<b>Prepared &amp; Analyzed: 11/06/06</b>					
Chloride	148	5.00	mg/L	100	45.4	103	80-120			
Sulfate	613	5.00	"	100	511	102	80-120			
<b>Matrix Spike (EK60602-MS2)</b>		<b>Source: 6K03008-04</b>			<b>Prepared &amp; Analyzed: 11/06/06</b>					
Sulfate	214	5.00	mg/L	100	115	99.0	80-120			
Chloride	150	5.00	"	100	44.2	106	80-120			
<b>Batch EK60711 - General Preparation (WetChem)</b>										
<b>Blank (EK60711-BLK1)</b>		<b>Prepared &amp; Analyzed: 11/07/06</b>								
Total Alkalinity	ND	2.00	mg/L							
<b>LCS (EK60711-BS1)</b>		<b>Prepared &amp; Analyzed: 11/07/06</b>								
Total Alkalinity	202	2.00	mg/L	200		101	85-115			
<b>Duplicate (EK60711-DUP1)</b>		<b>Source: 6K03008-01</b>			<b>Prepared &amp; Analyzed: 11/07/06</b>					
Total Alkalinity	236	2.00	mg/L		240			1.68	20	
<b>Reference (EK60711-SRM1)</b>		<b>Prepared &amp; Analyzed: 11/07/06</b>								
Total Alkalinity	254		mg/L	250		102	90-110			

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

Project: Hobbs I-29 Vent  
 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 EK60712 - 6010B/No Digestion**

**Blank (EK60712-BLK1)**

Prepared & Analyzed: 11/07/06

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

**Calibration Check (EK60712-CCV1)**

Prepared & Analyzed: 11/07/06

Calcium	2.26		mg/L	2.00		113	85-115			
Magnesium	2.12		"	2.00		106	85-115			
Potassium	1.73		"	2.00		86.5	85-115			
Sodium	2.13		"	2.00		106	85-115			

**Duplicate (EK60712-DUP1)**

Source: 6K03002-01

Prepared & Analyzed: 11/07/06

Calcium	84.4	0.810	mg/L		85.8			0.713	20	
Magnesium	40.5	0.360	"		38.9			4.03	20	
Potassium	7.74	0.600	"		8.13			4.91	20	
Sodium	110	2.15	"		117			6.17	20	

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

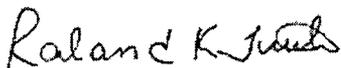
Project: Hobbs I-29 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### 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:

11/10/2006

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.



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

Client: RIVE OP.  
 Date/ Time: 11/3/06 11:45  
 Lab ID #: 6K03009  
 Initials: CK

**Sample Receipt Checklist**

Client Initials

	Yes	No		
#1 Temperature of container/ cooler?			0.5 °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