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# 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

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

109V A1-29-1										
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	966	<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	69.09	79.6	111	592	<0.001	<0.001	<0.001	<0.001	Clear no odor

F-29-1A Vent

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Table 1: chemistry over time

Thursday, February 08, 2007

A Carton

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

Site Name F-29-1A Vent

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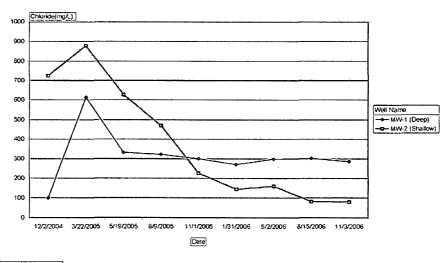
The sea

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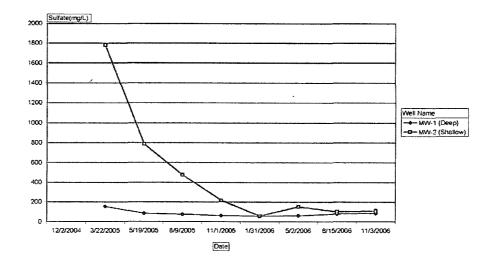
8.9.5

Chloride Over Time



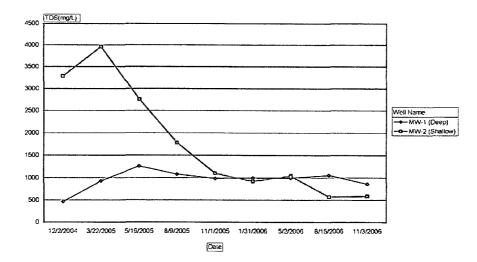
Sile Name F-29-1A Vent

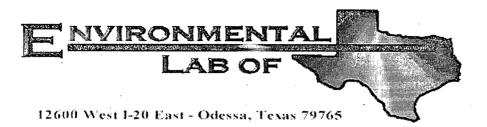
Sulfate Over Time











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# 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.	Project: Hobhs Jct. F-29-1A		Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	,	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope		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

Page 1 of 10

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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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
Monitor Well #1 Deep (6B02006-01) Water									
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100		"	н	μ		"	
Ethylbenzene	ND	0.00100		*	"	"			
Xylene (p/m)	ND	0.00100		н		"	-	n	
Xylene (o)	ND	0.00100	ir.	"		*	"	n	
Surrogate: a.a.a-Trifluorotoluene		87.5 %	80	120	51	17	n	M	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-1	120	"	"	п	"	
Monitor Well #2 Shallow (6B02006-02) Water									
Benzene	ND	0.00100	mg/L	I	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100		н			н		
Ethylbenzene	ND	0.00100	"	н		"		"	
Xylene (p/m)	ND	0.00100	"	"		"		"	
Xylene (o)	ND	0.00100	"	в	"		"	n	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-1	120	"	"	"	"	

80-120

90.5 %

Environmental Lab of Texas

Surrogate: 4-Bromofluorobenzene

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 2 of 10

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
Monitor Well #1 Deep (6B02006-01	) Water				· · · · · · · · · · · · · · · · · · ·				
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	
Monitor Well #2 Shallow (6B02006	-02) Water								
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	н	10	EB60614	02/04/06	02/06/06	EPA 300.0	

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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
Monitor Well #1 Deep (6B02006-0	1) Water								
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	μ	•	"	Π.,	
Monitor Well #2 Shallow (6B02000	5-02) Water								
Calcium	63.2	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	16.8	0.0100	"	10	n	*	n		
Potassium	2.47	0.0500		I		n			
Sodium	254	0.500		50	н	•	н	U	

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Rice Operating Co.		Pr	oject: Hot	bs Jct. F-29	-1A			Fax: (505)	397-147
122 W. Taylor		Project Nu	- (					Repo	ted:
Hobbs NM, 88240		Project Mar	nager: Kris	stin Farris-P	ope			02/16/06	5 17:36
	Or	ganics by	GC - Q	uality Co	ontrol				
		Environm	ental L	ab of Tex	xas				
		Reporting		Spike	Source	<u> </u>	%REC	RPD	

Batch EB60910 - EPA 5030C (GC)

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Blank (EB60910-BLK1)				Prepared: 02/09/	06 Analyzed: 02	2/10/06			
Benzene	ND	0.00100	mg/L						
Toluene	ND	0.00100	"						
Ethylbenzene	ND	0.00100	۳.						
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			
LCS (EB60910-BS1)				Prepared: 02/09/	06 Analyzed: 02	2/10/06			
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	۳	0.100	100	80-120			
Xylene (o)	0.0570	0.00100	11	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			
LCS Dup (EB60910-BSD1)				Prepared: 02/09/	06 Analyzed: 02	2/14/06			
Benzene	0.0568	0.00100	mg/L	0.0500	114	80-120	22.0	20	QR-0
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			
Calibration Check (EB60910-CCV1)				Prepared: 02/09/	06 Analyzed: 02	2/13/06			
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			

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.

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Project: Hobbs Jct. F-29-1A Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

#### Organics by GC - Quality Control

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

**Environmental Lab of Texas** 

		Reporting		Spike	Source		%REC		RPD	
A	alyte Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EB60910 - EPA 5030C (GC)

Matrix Spike (EB60910-MS1)	Sou	rce: 6B08024-	01	Prepared: 0	2/09/06 A	nalyzed; 02	2/10/06
Benzene	0.0426	0.00100	mg/L	0.0500	ND	85.2	80-120
Tohuene	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	н	0.100	ND	84.1	80-120
Xylene (o)	0.0416	0.00100	n	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

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.

Rice Operating Co.		Pr	oiect: Ho	obbs Jct. F-29	-1A				Fax: (505) 397-1471
122 W. Taylor		Project Nu							Reported:
Hobbs NM, 88240				istin Farris-P	ope				02/16/06 17:36
General Ch	emistry Par	ameters by Environm				ls - Qua	lity Con	trol	·····
		Reporting		Spike	Source		%REC		RPD
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit Notes
Batch EB60302 - General Preparation (V	VetChem)					······································			
Blank (EB60302-BLK1)				Prepared &	Analyzed:	02/02/06			
Fotal Dissolved Solids	ND	5.00	mg/L						· · · · · · · · · · · · · · · · · · ·
Duplicate (EB60302-DUP1)	Sou	rce: 6B01010-	01	Prepared &	Analyzed:	02/02/06			
Fotal Dissolved Solids	790	5,00	mg/L		794			0.505	5
Batch EB60614 - General Preparation (V	vetChem)					,			
Blank (EB60614-BLK1)				Prepared: 0	2/04/06 A	nalyzed: 02	2/06/06		
Chloride	ND	0.500	mg/L						
Sulfate	ND	0.500							
LCS (EB60614-BS1)				Prepared: 0	2/04/06 A	nalyzed: 02	2/06/06		
Sulfate	8.40		mg/L	10.0		84.0	80-120		
Chloride	8.99		*	10.0		89.9	80-120		
Calibration Check (EB60614-CCV1)				Prepared: 0	2/04/06 A	nalyzed: 02	2/06/06		
Chloride	8.93		mg/L	10.0		89.3	80-120		
Sulfate	8.63			10.0		86.3	80-120		
Duplicate (EB60614-DUP1)	Sou	rce: 6B01010-	01	Prepared: 0	2/04/06 A	nalyzed: 02	2/06/06		
Chloride	224	5.00	mg/L		206			8.37	20
Sulfate	72.9	5.00			66.5			9.18	20
Batch EB60901 - General Preparation (V	etChem)	·····							
Blank (EB60901-BLK1)				Prepared &	Analyzed:	02/08/06			,
Fotal Alkalinity	ND	2.00	mg/L					ę	
							-		X

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Rice Operating Co.	Project:	Hobbs Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	02/16/06 17:36

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB60901 - General Preparatio	on (WetChem)	· · ·								
LCS (EB60901-BS1)				Prepared &	Analyzed:	02/08/06				
Bicarbonate Alkalinity	210	2.00	mg/L	200		105	85-115			
Duplicate (EB60901-DUP1)	Sourc	e: 6B01010-	01	Prepared &	Analyzed:	02/08/06				
Total Alkalinity	192	2.00	mg/L		191			0.522	20	
Reference (EB60901-SRM1)				Prepared &	Analyzed:	02/08/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

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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**

		Reporting		Spike	Source		%REC		RPD	
Алајуте	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB60903 - 6010B/No Digestion										
Blank (EB60903-BLK1)				Prepared: (	02/08/06 A	nalyzed: 02	2/09/06			
Calcium	ND	0.0100	mg/L				5			
Magnesium	ND	0.00100								
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	μ							~
Calibration Check (EB60903-CCV1)				Prepared: (	02/08/06 A	nalyzed: 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)	Sou	rce: 6B01010-	01	Prepared: (	02/08/06 A	nalyzed: 02	2/09/06			
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	

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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.

Rice Oper 122 W. Ta	•	Project: Project Number:	Hobbs Jct. F-29-1A None Given	Fax: (505) 397-147 Reported:
Hobbs NN	•		Kristin Farris-Pope	02/16/06 17:36
		Notes and De	finitions	
QR-02	The RPD result exceeded the QC control limits; h batch were accepted based on percent recoveries a	· ·		ts for the QC
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the reporting lim	it .		
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 Junis 2/16/2006 Date:

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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IAL YSIS REQUEST	Project Name: Hobbs Jct. F-29-1A		Lea County				Analyze For:		34R / ESP / CEC Metals: As Ag Ea Cd Cr Pb Hg Se Somitvolatiles BTEX 80218/6030 RCI Total Dissolved Solids Total Dissolved Solids SUISH TAT (Pre-Schedule) SUISH TAT (Pre-Schedule) Standard TAT	X X X	X X X					Sample Containers Intract? W N Labels on container? W N Custody Seats: <u>contrainers</u> / <u>cooler</u> Temperature Upon Receipt:	Laboratory.comments.	
CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST	Project Nam	Project #:	Project Loc:						Water           Sludge           Cations (Ci, SO4, CO3, HCO3)           Othor (specify):	× 	×						Date         Time           /2/0/c         L:0/           Date         Time	2/00 9.00
CHAIN OF CUS					397-1471			Preservative	\$ONH	8	2 1					& mfranks@rice	N	<u>7</u>
	t.com			-	Fax No: (505) 397-1471			L.	Time Sampled No. of Comainers	9:50 3 X	9:15 3 X					/d@valornet.com	2 hours	the lever
	kpriceswd@valornet.com			5		-9310	XXX	, J	. Date Sampled	1/31/2006	1/31/2006				· · ·	TO: kpricesw	Receive	
Environmental Lab of Texas 12600 West 1-20 East Phone: 432-563-1800 Ddessa, Texas 79765 Fax: 432-563-1713	Project Manager: Kristin Farris Pope kprice	Company Name RICE Operating Company	company Address: 122 W. Taylor Street	city/state/zip: <u>Hobbs, New Mexico 88240</u>	Telephone No: (505) 393-9174	sampler signature: Rozanne Johnson (505) 631-9310	Email: rozanne@valornet.com		FIELD CODE	Monitor Weli #1 Deep	Monitor Well #2 Shallow					PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com	$\begin{array}{c c} \hline \\ \hline $	29 marsh 21H06 9 200
ERVITOMME 12600 WestI-20 East Odessa, Texas 79765	Project Mana,	Company Ne	Company Addre	City/State/	Telephone	Sampler Signatu	ц		LAB # (lab use only).		Mo					Special Instructions:	Religiting et by Rozanne Jogran	H.

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

Dlient:	Rice Op.
Date/Time: _	2/2/06 9:00
Order #:	6802006
Initials:	CIR

#### Sample Receipt Checklist Temperature of container/cooler? Yes No $l_i O$ C Shipping container/cooler in good condition? No YES Custody Seals intact on shipping container/cooler? Yes No Not present Custody Seals intact on sample bottles? No YEE | 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) VES 1 Na Container labels legible and intact? (es | No Sample Matrix and procerties same as on chain of custody? YEE No Samples in procer container/bottle? E5 No Samples properly preserved? No Yes | Sample bottles intact? No Yes Preservations documented on Chain of Custody? No Yes Containers documented on Chain of Custody? No YG \_ Sufficient sample amount for indicated test? No YE All samples received within sufficient hold time? No YES VOC samples have zero headspace? YES, I No Not Applicable

Other observations:

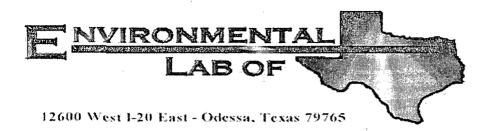
Variance Documentation:

Contact Person:		Date/Time:	·	Contacted	by:	
Regarding:		,				_
	·					

Corrective Action Taken:

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# 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

F	Rice Operating Co.	Project:	Hobbs Jct. F-29-1A	Fax: (505) 397-1471
1	22 W. Taylor	Project Number:	None Given	Reported:
ł	lobbs NM, 88240	Project Manager:	Kristin Farris-Pope	05/09/06 14:23

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#### 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.	Project:	Hobbs Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	Reported:
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	05/09/06 14:23

#### Organics by GC

#### **Environmental Lab of Texas**

0.00100	mg/L	1					
	mg/L	1					
			EE60404	05/04/06	05/04/06	EPA 8021B	
0.00100	0	н	n	**		"	
0.00100	n		" ~				
0.00100	"						
0.00100.0		в		v		17	
96.8 %	80-i2	0	"	n	п	"	
83.5 %	80-12	20	"	н	"	"	
	0.00100 96.8 %	0.00100 " 0.00100 " 96.8 % 80-i2	0.00100 " " 96.8 % 80-120	0.00100 " " " 96.8 % 80-120 "	0.00100 " " " " 96.8 % 80-120 " "	0.00100 " " " " " 96.8 % 80-120 " " "	0.00100 " " " " " " " 96.8 % 80-120 " " " " "

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

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Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B
Toluene	ND	0.00100		17		u	"	n
Ethylbenzene	ND	0.00100	"			v	"	n
Xylene (p/m)	ND	0.00100	"	•			17	n
Xylene (o)	ND	0.00100	"	1+	"	*	"	"
Surrogate: a,a,a-Trifluorotoluene		94.2 %	80-120		"	"	"	<i>n</i>
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		п	π	п	n

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.

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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
Monitor Well #1- Deep (6E04010-0	1) Water								
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	
Monitor Well #2- Shallow (6E0401	0-02) Water								
Total Alkalinity	251	2.00	mg/L	1	EE60814	05/09/06	05/09/06	EPA 310.1M	
Chloride	160	5.00	W	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	

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.

#### 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
Monitor Well #1- Deep (6E040	10-01) Water								
Calcium	173	0.500	mg/L	50	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	24.8	0.0100	. "	10		"	н		
Potassium	2.43	0.500	٠	н			н	н	•
Sodium	47.1	0.100	••	"	n	**	"	0	
Monitor Well #2- Shallow (6E(	04010-02) Water								
Calcium	72.1	0.100	mg/L	10	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	20.5	0.0100		"	"			17	
Potassium	2.78	0.500		•			u	P	
Sodium	138	0.500		50	"		р	10	

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Page 4 of 10

Rice Operating Co.				bbs Jct. F-29	9-1A				Fax: (505)	397-1471
122 W. Taylor		Project Nu	mber: No	one Given					Repo	rted:
Hobbs NM, 88240		Project Mar	hager: Kr	istin Farris-P	ope				05/09/0	6 14:23
	0	rganics by		- •						
		Environm		Lad of Te						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE60404 - EPA 5030C (GC)					-					
Blank (EE60404-BLK1)	50404-BLK1) Prepared & Analyzed: 05/04/06									
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	н							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	н			,				
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)	404-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 (0)	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 Ai	nalyzed: 05	/05/06			
Benzene	50.2		ug/l	50.0		100	80-120			
Foluene	49.3			50.0		98.6	80-120			
Ethylbenzene	53.0		1,	50.0		106	80-120			
Xylene (p/m)	105			100		105	80-120			
Xylene (0)	52.4		11	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)	Sou	rce: 6E03003-	01	Prepared &	Analyzed:	05/04/06				
Benzene	0.0626	0.00100	mg/L	0.0500	0.00562	114	80-120			
Foluene	0.0534	0.00100	н	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 (0)	0.0577	0.00100	н	0.0500	ND	115	80-120			
Surrogate: a.a.a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorohenzene	38.6		**	40.0		96.5	80-120			

Environmental Lab of Texas

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Page 5 of 10

	x: (505) 397-1471	
122 W. Taylor Project Number: None Given	Reported:	
Hobbs NM, 88240 Project Manager: Kristin Farris-Pope	05/09/06 14:23	

#### Organics by GC - Quality Control

**Environmental Lab of Texas** 

			Reporting		Spike	Source		%REC		RPD	
A	nalyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

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

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Matrix Spike Dup (EE60404-MSD1)	Sou	ce: 6E03003-	01	Prepared &	k 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	н	0.0500	ND	105	80-120	1.89	20
Ethylbenzene	0.0532	0.00100	14	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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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 6 of 10

Rice Operating Co.Project:Hobbs Jct. F-29-1A122 W. TaylorProject Number:None GivenHobbs NM, 88240Project Manager:Kristin Farris-Pope											
General Ch	emistry Para	ameters by Environm				ls - Qua	lity Con	trol			
Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch EE60507 - General Preparation (V											
Blank (EE60507-BLK1)	( cichem)			Prenared &	Analyzed:	05/04/06					
Chloride	ND	0.500	mg/L								
Sulfate	ND	0.500	"								
LCS (EE60507-BS1)				Prepared &	Analyzed:						
Chloride	9,99	0.500	mg/L	10.0		99.9	80-120				
Sulfate	8.53	0.500	"	10.0		85,3	80-120				
Calibration Check (EE60507-CCV1)			•	Prepared &	Analyzed:	05/04/06					
Chloride	10.4		mg/L	10.0		104	80-120				
Sulfate	9.15		"	10.0		91.5	80-120				
Duplicate (EE60507-DUP1)	Sou	rce: 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		
Batch EE60814 - General Preparation (V	VetChem)										
Blank (EE60814-BLK1)				Prepared &	Analyzed:	05/09/06					
Total Alkalinity	ND	2.00	mg/L								
LCS (EE60814-BS1)				Prepared &	Analyzed:	05/09/06					
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115				
Duplicate (EE60814-DUP1)		rce: 6E04009-	01	Prepared &	Analyzed:	05/09/06					
Total Alkalinity	209	2.00	mg/L		208			0.480	20		
Reference (EE60814-SRM1)				Prepared &	Analyzed:	05/09/06					
Total Alkalinity	96.0		mg/L	100		96.0	90-110				

Environmental Lab of Texas

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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.

Rice Operating Co.	Project: Hobbs Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	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
Batch EE60816 - Filtration Preparation										
Blank (EE60816-BLK1)				Prepared: (	)5/05/06 A	nalyzed: 05	/08/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EE60816-DUP1)	Sour	ce: 6E04009-	01	Prepared: (	)5/05/06 A	nalyzed: 05	/08/06			
Total Dissolved Solids	940	5.00	mg/L		904			3,90	5	

Environmental Lab of Texas

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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.

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

#### Total Metals by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE60811 - 6010B/No Digestion					·····					
Blank (EE60811-BLK1)				Prepared &	Analyzed:	05/08/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	n							
Potassium	ND	0.0500	н							
Sodium	ND	0.0100	n							
Calibration Check (EE60811-CCV1)			•	Prepared &	Analyzed:	05/08/06				
Calcium	2.20		mg/L	2.00		110	85-115			
Magnesium	2.28		н	2.00		114	85-115			
Potassium	1.74		ŋ	2.00		87.0	85-115			
Sodium	1.84		n	2.00		92.0	85-115			
Duplicate (EE60811-DUP1)	Sou	rce: 6E04009-	01	Prepared &	Analyzed:	05/08/06				
Calcium	130	0,500	mg/L		128			1.55	20	
Magnesium	22.5	0.0100	н		23.2			3.06	20	
Potassium	4.11	0.0500	н		4.32			4.98	20	
Sodium	87.6	0.100	н		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.

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, 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.

Date:

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.

Raland K troub

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

Environmental Lab of Texas

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									.M.S.N. Tokal Dissolved Solids	×	×	 	 				Ĵ
ST	F-29-1A		County				Analyze For:	4	BTEX 80218/5030 RCI	×	×					s Intact?	nents:
CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST			Lea Co				Analy		Metals: As Ag Ba Cd Cr Ph Hg Se Volatiles Semivolatiles			 				Sample Containers Intact? Labels on container? Custody Seats: <u>Containers</u> Temperature Upon Receipt:	Laboratory Comments
I ANAL YS	Project Name: <u>Hobbs Jct.</u>	Project #:	Loc:	FO #			TCLP: TCLP:		Cations (Ca, Mg, Na, K) Anions (Ci, SO4, CO3, HCO3) SAR / ESP / CEC	××	X X	 	 			Sample Labels Custody Temper	Labora Labora
ORD AND	Project N	Proje	Project Loc:	-				+	Ofher (specify): TPH: 418.1 8015M 1005 1006 Calippy (Calibry 12 M 105 1006	$\hat{}$	$\hat{}$	 					Time  0:0/  0:50/
ODY REC	1	I	1	I	I	I			LioS Əßpnjs							l.com	Date M Date
OF CUST									Watter Other ( Specify) Matter	-	1   X					iceswc	- W
CHAIN					1471			-	H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub>	2	2	 				inks@r	
					5) 397-			C	HNO <sup>2</sup>	×	×					& mfra	La la
					Fax No: (505) 397-147	$\bigcap$	$\setminus  $	_	No. of Containers	3	3	 	 			/d.com	- July
					Fax	A	Z		belqms2 emi⊺	10:40	9:02					ope@riceswd.com & mfranks@riceswd.com	n and a start
	kpope@riceswd.com					310	A AL		bəlqms2 ətsÜ	5/2/2006	5/2/2006			× .		TO: kpope@	Received by James Schriscon Received by ELOT
2600 West I-20 East Phone: 432-563-1800 2dessa, Texas 79765 Fax: 432-563-1713	Project Manager: Kristin Farris Pope	Company Name RICE Operating Company	company Address: 122 W. Taylor Street	city/state/zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	sampler signature: Rozanne Johnson (505) 631-9310	Email: <u>rozanne@valornet.com</u>		Field	Monitor Weil #1~Deep	Monitor Well #2 ~ Shallow					PLEASE Email RESULTS TO: kp	March Parle Time Date L:00 Date Time
1. 1 1 2 2 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2	Project Manager	Company Name	Company Address	City/State/Zip	Telephone No	Sampler Signature	Email		LAB # (ab use only)		Antite Monite					Special Instructions:	Relinquisheadoy Rozanne Johnson Relippuished by:

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

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4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Date/Tim	$e: -\frac{5/4}{00} 10:50$
(e	Order #:	10E04010
4 " to AN	nitials:	CK-

#### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5 01
Shipping container/cooler in good condition?	(ES)	No	
Sustody Seals intact on shipping container/cooler?	Xes	No	Not present
Dustody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	YES	No	1
Chain of Custody signed when relinquished and received?	Yes,	No	
Chain of custody agrees with sample label(s)	Xes.	No	
Container labels legible and intact?	¥ SS	No	
Sample Matrix and properties same as on chain of custody?	1 XBIS	No	
Samples in proper container/bottle?	tes	No	• ]
Emples properly preserved?	Yes	NO	
Sample bottles intact?	<u>(</u>	l No	
Preservations documented on Chain of Custody?	<u> 755</u>	No	
Containers documented on Chain of Custody?	- 625	No	
Sufficient sample amount for indicated test?	) Jes	No	
Il samples received within sufficient hold time?	YES	I No	
/OC samples have zero headspace?	Ê	No	Not Apolicable

Other observations:

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Variance Documentation: Date/Time: \_\_\_\_\_Contacted by: \_\_\_\_\_

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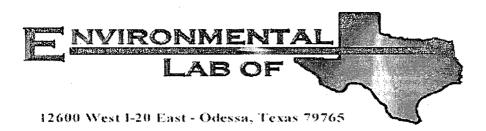
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Contact Person: -Regarding:

forrective Action Taken:

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## 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

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#### 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

Page 1 of 10

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

### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Deep (61118011-01) W	ater								
Benzene	ND	0.00100	mg/L	1	EH62121	08/21/06	08/21/06	EPA 8021B	
Toluene	ND	0.00100			17	11		_ u	
Ethylbenzene	ND	0.00100	n			н		"	
Xylene (p/m)	ND	0.00100	"		"	n		"	
Xylene (o)	ND	0.00100	"			н		n	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.2 %	80-1.	20	"	π	"	"	
Monitor Well #2- Shallow (6H18011-02)	Water								
D		0.00100		· · · · ·			0.0.101	FDA 8021D	

Benzene	ND	0.00100	mg/L	1	EH62121	08/21/06	08/21/06	EPA 8021B	
Toluene	ND	0.00100	*	•	"	"	"		
Ethylbenzene	ND	0.00100	"		н	"	н		
Xylene (p/m)	ND	0.00100	"		•	"	"		
Xylene (o)	ND	0.00100	"		**	•	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-12	0	"	"	n	м	

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.

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

#### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Deep (6H18011-01)	Water								
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	U	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	
Monitor Well #2- Shallow (6H18011-	02) Water								
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	

Environmental Lab of Texas

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

#### Total Metals by EPA / Standard Methods

#### Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Deep (6H180	11-01) Water						<u> </u>		
Calcium	154	4.05	mg/L	50	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	24.5	0.360	н	10			H		
Potassium	2.88	0.600	н			"			
Sodium	70.5	0.430	н	"	n	*	"		
Monitor Well #2- Shallow (6H1	8011-02) Water								
Calcium	49.0	0.810	mg/L	10	EH62313	08/23/06	08/23/06	EPA 200.7	
Magnesium	13.3	0.360		11			в	n	
Potassium	1.76	0.600		н		*			
Sodium	145	2.15		50				*1	

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.

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

#### **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)										
Blank (EH62121-BLK1)				Prepared: 0	8/21/06 A	nalyzed: 08	/22/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100	11							
Xylene (0)	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				
Веяzеле	0.0460	0.00100	mg/L	0.0500		92.0	80-120			
Toluene	0.0503	0.00100	n	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 (0)	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: 0	8/21/06 A	nalyzed: 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 (0)	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)	Sou	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	н	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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Ethylbenzene

Xylene (p/m)

Surrogate: a,a,a-Trifluorotoluene

Surrogate: 4-Bromofluorohenzene

Xylene (o)

Sugar Cont

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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)	Sou	rce: 6H18007-	-01	Prepared: 0	08/21/06 A	nalyzed: 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	

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0.00100

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0.0549

0.120

0.0583

42.9

46.4

ND

ND

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0.100

0.0500

40.0

40.0

110

120

117

107

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80-120

80-120

80-120

80-120

80-120

0.905

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Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

#### 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 EH62101 - General Preparation (V	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		n	10.0		102	80-120			
Duplicate (EH62101-DUP1)	Sou	rce: 6H18007-	-01	Prepared &	Analyzed:	08/21/06				
Sulfate	76.3	5.00	mg/L		65.9			14.6	20	
Chloride	105	5.00	Ħ		98.9			5.98	20	
Duplicate (EH62101-DUP2)	Sou	rce: 6H18013-	-04	Prepared &	Analyzed:	08/21/06				
Sulfate	331	5.00	mg/L		336			1,50	20	
Chłoride	138	5.00	"		136			1.46	20	
Matrix Spike (EH62101-MS1)	Sou	rce: 6H18007-	-01	Prepared &	Analyzed:	08/21/06				
Sulfate	172	5.00	mg/L	100	65.9	106	80-120			
Chloride	210	5.00	п	100	98.9	111	80-120			
Matrix Spike (EH62101-MS2)	Sou	rce: 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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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.

12600 West 1-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch EH62128 - General Preparation (W	etChem)										
Blank (EH62128-BLK1)				Prepared &	k Analyzed:	08/21/06					
Total Alkalinity	ND	2.00	mg/L								
LCS (EH62128-BS1)				Prepared & Analyzed: 08/21/06							
Total Alkalinity	178		mg/L	200		89.0	85-115				
Duplicate (EH62128-DUP1)	Sou	rce: 6H18007-	01	Prepared &	Analyzed	08/21/06					
Total Alkalinity	186	2.00	mg/L		- 186			0.00	20		
Reference (EH62128-SRM1)				Prepared &	Analyzed:	08/21/06					
Total Alkalinity	248		mg/L	250		99.2	90-110				
Batch EH62303 - Filtration Preparation											
Blank (EH62303-BLK1)				Prepared: (	08/18/06 A	nałyzed: 08	3/22/06				
Total Dissolved Solids	ND	10.0	mg/L		-						
Duplicate (EH62303-DUP1)	Sou	rce: 6H18007-	01	Prepared: (	08/18/06 A	nalyzed: 08	3/22/06				
Fotal Dissolved Solids	556	10.0	mg/L		526			5.55	5	I	
Duplicate (EH62303-DUP2)	Sou	rce: 6H18013-	04	Prepared &	a Analyzed:	08/18/06					
Total Dissolved Solids	808	10.0	mg/L		930			14.0	5		

Environmental Lab of Texas

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#### 12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

#### Total Metals by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	11							
Potassium	ND	0.0600	14							
Sodium	ND	0.0430								
Calibration Check (EH62313-CCV1)				Prepared &	z 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		IT.	2.00		98.0	85-115			
Duplicate (EH62313-DUP1)	Sou	rce: 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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#### **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 Shut

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.

Date:

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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

12600 West 1-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

						Γ			(	RUSH TAT (Pre-Schedule TAT bishorst2	×	×	 	 	 		- - - -	
	29-1A									Total Dissolved Solids	×	×	 		 		- - - -	4,0
ST	Iction F-		County				Analyze For:	×		N'O'B'W' BLEX 8054B\2030	×	×		 	 	_		Tents:
CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST	Project Name: Hobbs Junction F-29-1A		Lea Co						əş	Metals: As Ag Ba Cd Cr Pb Hg Volatiles Semivolatiles			 	 			L L L L L L L L L L L Sumple Containers Intact? Labels on containers Intact? Cústody Seals Containers Temperature Upon Receipt	Laboratory Comments
ND ANALY	: Name: H	Project #:	Project Loc:	# 0d			TCLP.	TOTAL		Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) SAR / ESP / CEC	××	× ×		+			Cústoa	T
RECORD AI	Project	ц	Proje			Į				Soil Sthe: (specify): Soil			 					Time 5:31
USTODY F									Matrix	Sindge Water Other ( Specify)	×	×					wd.com	Date 3-18-06
HAIN OF C					1	-			vative	H <sub>2</sub> SO <sub>4</sub> Nore (1) 1 Liter HDPE	-						©rices	
CH					Fax No: (505) 397-1471				Preservative	NO <sup>3</sup> HCI (3) 40 ml Blass Alala HOL <sup>3</sup>	2	2					nfranks	L L
					lo: (505)		.			No. of Containers ice	3 X	я Х С					d.com;	Uma
	-				Fax A		Ŋ			bəlqms2 əmiT	8:40	10:05					kpope@riceswd.com; mfranks@riceswd.com	200
	kpope@riceswd.com					310 7	Les a	no han all	. A	bəiqm∋∂ ətsΩ	8/15/2006	8/15/2006						Received by James Actificant Received by ELOT
563-	Project Manager: Kristin Farris Pope kpope@	company Name_RICE Operating Company	company Address: 122 W. Taylor Street	city/state/Zip: Hobbs, New Mexico 88240	393-9174	sampler signature: Rozanne Johnson (505) 631-9310	Email: rozanne@valornet.com	) `	×	FIELD CODE	t1-Deep	#2-Shallow		المراجع			PLEASE Email RESULTS TO: rozanne@valornet.com	Sate Tane 1 Sate Tane 1 Date Time 1
۔ م	anager: Kristli	y Name RICE	ddress: 122 V	ate/Zip: <u>Hobb</u>	Telephone No: (505) 393-9174	Inature: Roza	Email: 10231)				Monitor Well #1-Deep	Monitor Well #2-Shallow						Part.
12600 West I-20 East Odessa, Texas 79765	Project Mi	Сотран	Сотралу А	City/St	Теїеріл	Sampter Sig				LAB # (lab use only)	20(	22					Special Instructions:	Relinquished by: Rozanne Jønnsan ( Relingylshed by:

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

1		Variance/ Corrective Action F
2	Client:	Rice DR-
1 - 2 - M	Date/ Time:	8/18/06 10:20
	Lab ID # :	TeH180/1
ka	Initials:	<u> </u>

#### Sample Receipt Checklist

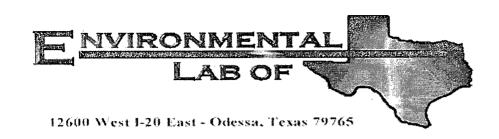
-		·			Client Initials
1. 10 a din 1	#1	Temperature of container/ cooler?	Yes	No	4.0 °C
	#2	Shipping container in good condition?	Xes	No	
- (°	#3	Custody Seals intact on shipping container/ cooler?	LES	No	Not Present
a nated and	#4	Custody Seals intact on sample bottles/ container?	Yas	No	Not Present
	#5	Chain of Custody present?	Yes	No	
ø	#6	Sample instructions complete of Chain of Custody?	Yes	No	
Bur stige " " "	#7	Chain of Custody signed when relinquished/ received?	YES	No	
Å,	#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
1	<u>#10</u> #11	Sample matrix/ properties agree with Chain of Custody?	Xes	No	
an an	#11	Containers supplied by ELOT?	tes	No	
	#12	Samples in proper container/ bottle?	Yes	No	See Below
ê.	#13	Samples properly preserved?	Sec.	No	See Below
a de	#13 #14	Sample bottles intact?	Xes	No	
	#15	Preservations documented on Chain of Custody?	Yes	No	
	#16	Containers documented on Chain of Custody?	Yes	No	
Berthington Bri	#17	Sufficient sample amount for indicated test(s)?	Tes	No	See Below
63	#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



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# 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

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#### 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

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

#### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Deep (6K08007-01) W	Vater						······		
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	ND	0.00100			n		ж		
Ethylbenzene	ND	0.00100	"	•	v	н	и		
Xylene (p/m)	ND	0.00100					0	"	
Xylene (o)	ND	0.00100					0	**	
Surrogate: a,a,a-Trifluorotoluene		89.0 %	80-12	20	"		"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-12	20	"	"	"	"	

#### 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				11	11	"	
Ethylbenzene	ND	0.00100		"	• `	"	н -		
Xylene (p/m)	ND	0.00100	"	н		n	*1	"	
Xylene (o)	ND	0.00100	"	•	U.	11	4	19	
Surrogate: a,a,a-Trifluorotoluene		88.0 %	80-120		"	"	'n	11	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	<u> </u>	n	"	

Environmental Lab of Texas

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

#### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Deep (6K08007-01	l) Water								
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	"	I	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	
Monitor Well #2- Shallow (6K08007	7-02) Water								
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	

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#### 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	A Batch	Prepared	Analyzed	Method	Note
Monitor Well #1- Deep (6K0800	7-01) Water								
Calcium	166	4.05	mg/L	50	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	23.5	0.360	**	10		н			
Potassium	3.30	0.600	"		٣		n	и	
Sodium	77.6	0.430	"	n	"	n	н	и	
Monitor Well #2- Shallow (6K08	8007-02) Water								
Calcium	53.8	0.810	mg/L	10	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	13.7	0.360		п	п	•	**	"	
Potassium	1.88	0.600	"		11	"	н		
Sodium	124	2.15	"	50	в	n	"	н	

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

#### **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)										
Blank (EK60808-BLK1)				Prepared: 1	1/08/06 A	nalyzed: 11	/10/06			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	•							
Xylene (p/m)	ND	0.00100	"							
Xylene (0)	ND	0.00100	50							
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: 1	1/08/06 A	nalyzed: 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 (0)	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: 1	1/08/06 A	nalyzed: 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)	Sou	rce: 6K06005-	-01	Prepared: 1	1/08/06 A	nalyzed: 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	14	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	u.	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			

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

#### **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

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

Matrix Spike Dup (EK60808-MSD1)	Sou	rce: 6K06005-	-01	Prepared: 1					
Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120	2.93	20
Toluene	0.0465	0.00100	н	0.0500	ND	93.0	80-120	1.52	20
Ethylbenzene	0.0478	0.00100	н	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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Project: Hobbs Jct. F-29-1A Project Number: None Given Project Manager: Kristin Farris-Pope

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
Batch EK60911 - General Preparation (V	VetChem)									
Blank (EK60911-BLK1)				Prepared &	: Analyzed:	11/09/06				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	n							
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)	Sou	rce: 6K08007-	-01	Prepared &	Analyzed:	11/09/06				
Sulfate	86.2	5.00	mg/L		86.I			0.116	20	
Chloride	283	5.00	"		285			0.704	20	
Duplicate (EK60911-DUP2)	Sou	rce: 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)	Sou	rce: 6K08007-	-01	Prepared &	Analyzed:	11/09/06				
Sulfate	184	5.00	mg/L	100	86.1	97.9	80-120			
Chloride	404	5.00	P	100	285	119	80-120			
Matrix Spike (EK60911-MS2)	Sou	rce: 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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#### Project: Hobbs Jct. F-29-1A Project Number: None Given Project Manager: Kristin Farris-Pope

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK61306 - Filtration Prepara	tion									
Blank (EK61306-BLK1)				Prepared: 1	1/09/06 Ai	nalyzed: 11	/10/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EK61306-DUP1)	Sour	ce: 6K07002-	-01	Prepared:	1/09/06 Ai	nalyzed: 11	/10/06			
Total Dissolved Solids	10400	10.0	mg/L		9240			11.8	5	S-
Duplicate (EK61306-DUP2)	Sour	ce: 6K08010-	·02	Prepared: 1	1/09/06 Ai	nalyzed: 11	/10/06			
Total Dissolved Solids	24600	10.0	mg/L		23600			4.15	5	
		10,0	mg/L		23600	11/14/06		4.15	5	
Total Dissolved Solids Batch EK61307 - General Preparatio Blank (EK61307-BLK1)		2.00	mg/L mg/L			11/14/06		4.15	5	
Total Dissolved Solids Batch EK61307 - General Preparatio	on (WetChem)			Prepared &				4.15	5	
Total Dissolved Solids Batch EK61307 - General Preparatio Blank (EK61307-BLK1) Total Alkalinity	on (WetChem)			Prepared &	a Analyzed:		85-115	4.15	5	
Total Dissolved Solids Batch EK61307 - General Preparatio Blank (EK61307-BLK1) Total Alkalinity LCS (EK61307-BS1)	on (WetChem) ND 192	2.00	mg/L mg/L	Prepared & Prepared & 200	a Analyzed:	<u>11/14/06</u> 96.0	85-115	4.15	5	
Fotal Dissolved Solids Batch EK61307 - General Preparation Blank (EK61307-BLK1) Total Alkalinity LCS (EK61307-BS1) Bicarbonate Alkalinity Duplicate (EK61307-DUP1)	on (WetChem) ND 192	2.00	mg/L mg/L	Prepared & Prepared & 200	: Analyzed: : Analyzed:	<u>11/14/06</u> 96.0	85-115	4.15	5	
Total Dissolved Solids Batch EK61307 - General Preparation Blank (EK61307-BLK1) Total Alkalinity LCS (EK61307-BS1) Bicarbonate Alkalinity	on (WetChem) ND 192 Source	2.00 2.00 ce: 6K08007-	mg/L mg/L 01	Prepared & Prepared & 200 Prepared &	2 Analyzed: 2 Analyzed: 2 Analyzed:	11/14/06 96.0 11/14/06	85-115			

Environmental Lab of Texas

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

#### Total Metals by EPA / Standard Methods - Quality Control

#### Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	11							
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)	Sour	ce: 6K08007-	01	Prepared &	Anałyzed:	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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Rice Operating Co.Project:Hobbs Jct. F-29-1AFax: (505) 397-1471122 W. TaylorProject Number:None GivenHobbs NM, 88240Project Manager:Kristin Farris-Pope

#### **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 Kitus

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.

Date:

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Environmental Lab of Texas

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	Kristin Farris Pope	<b>RICE Operating Company</b>	122 W. Taylor Street	Hobbs, New Mexico 88240	(505) 393-9174	: Rozanne Johnson (505)631-9310		M.	$M \sim 100$	FIELD CODE	iep	allow									N		
Environmental Lab of Texas	Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:		V CROW	NN MA		Monitor Well #1-Deep	Monitor Well #2-Shallow							tetioner.	Please email to :		Y.	
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### Environmental Lab of Texas riance/ Corrective Action Report- Sample Log-In

	Variance/ Corrective Actio
Client	<u>Lice Op.</u>
Date/ Time:	11/5/06 2:50
Lab ID # :	6 Kox0017
Initials:	CK

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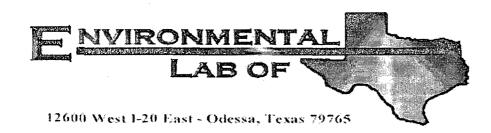
#### Sample Receipt Checklist

[ <u>#1</u>				(	lient Initia
#1	Temperature of container/ cooler?	Yes	No	05 °C	
#2	Shipping container in good condition?	Tes	No		
#3	Custody Seals intact on shipping container/ cooler?	tes	No	Not Present	
#3 #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		3
#6 #7	Chain of Custody signed when relinquished/ received?	Yeş	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yês	No	Not Applicable	
#9 #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	3 Samples properly preserved?	Yeş	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	7 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	O VOC samples have zero headspace?	Xess	No	Not Applicable	1

#### Variance Documentation

Contact:		Contacted by:	Date/ Time:	
Regarding:				· · · · · · · · · · · · · · · · · · ·
Corrective Action Taker	7:			
	<u></u>	· · · · · · · · · · · · · · · · · · ·		
Check all that Apply:		See attached e-mail/ fax Client understands and would like to Cooling process had begun shortly at	÷	

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# 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

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#### Project: Hobbs Jct. F-29-1A Project Number: None Given Project Manager: Kristin Parris-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.	Proje	ect: Hobbs Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	2	ber: None Given	Reported:
Hobbs NM, 88240	Project Manag	ger: Kristin Farris-Pope	02/16/06 17:36

#### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Deep (6B02006-01) Wate	r .								
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100	и			u.			
Ethylbenzene	ND	0.00100		"	"	0		"	
Xylene (p/m)	ND	0.00100		"		"	"		
Xylene (o)	ND	0.00100	**		"	и	n		
Surrogate: a.a.a-Trifluorotoluene		87.5 %	80-	120	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		80.8 %	80-	120	"	"	"	"	
Monitor Well #2 Shallow (6B02006-02) W	ater								
Benzene	ND	0.00100	mg/L	1	EB60910	02/09/06	02/10/06	EPA 8021B	
Toluene	ND	0.00100.0	*			н	н	"	
Ethylbenzene	ND	0.00100	"	,,	"	н	n		
Xylene (p/m)	ND	0.00100	"	н			ч		
Xylene (o)	ND	0.00100		"		n	"		
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-	120	"	"	"	"	

80-120

90.5 %

Surrogate: 4-Bromofluorobenzene

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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.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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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
Monitor Well #1 Deep (6B02006-01	) Water								
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	
Monitor Well #2 Shallow (6B02006	-02) Water							_	
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	н	10	EB60614	02/04/06	02/06/06	EPA 300.0	

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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
Monitor Well #1 Deep (6B0200	5-01) Water								
Calcium	179	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	21.4	0.0100		10	"		IT.	**	
Potassium	5.89	0.0500		1	, n			*1	
Sodium	68.4	0.500	**	50	n	n	v	n	
Monitor Well #2 Shallow (6B02	006-02) Water								
Calcium	63.2	0.500	mg/L	50	EB60903	02/08/06	02/09/06	EPA 200.7	
Magnesium	16.8	0.0100	н	10		•	11	н	
Potassium	2.47	0.0500		1		"			
Sodium	254	0,500		50		"		P	

Environmental Lab of Texas

Rice Operating Co.		Pr	oiect Ho	obbs Jct. F-29	-1A				Fax: (505)	397-1471
122 W. Taylor		Project Nu							Repo	rted:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope							02/16/06 17:36		
44 100 99 <b></b>	<b>O</b>	rganics by	GC - Q	Quality Co	ontrol					<u> </u>
		Environm	ental I	Lab of Tex	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
		Child.								
Batch EB60910 - EPA 5030C (GC)		· ••••••			2100106					****
Blank (EB60910-BLK1)		0.00100		Prepared: 0	12/09/06 AI	nalyzed: 02	/10/06			
Benzene	ND	0.00100	mg/L							
Foluene	ND	0.00100	R							
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100 0.00100								
	ND	0.00100				04.0	00.100			
Surrogate: a,a,a-Trifluorotoluene	34.5		ug/l "	40.0		86.2	80-120			
Surrogaie: 4-Bromofluorobenzene	32.1		,,	40.0		80.2	80-120			
LCS (EB60910-BS1)				Prepared: 0	2/09/06 A	nalyzed: 02	/10/06			
Benzene	0.0457	0.00100	mg/L	0.0500		91.4	80-120			
Foluene	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 (0)	0.0570	0.00100	"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.2		ug/l	40.0		88.0	80-120			
Surrogaue: 4-Bromofluorobenzene	32.5		"	40.0		81.2	80-120			
LCS Dup (EB60910-BSD1)				Prepared: 0	)2/09/06 Ai	nalyzed: 02	/14/06			
Benzene	0.0568	0.00100	mg/L	0.0500		114	80-120	22.0	20	QR-
Foluene	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			
Calibration Check (EB60910-CCV1)				Prepared: 0	)2/09/06 Ai	nalyzed: 02	2/13/06			
Benzene	55.0		ug/l	50.0		110	80-120			
Foluene	57.5		••	50.0		115	80-120			
Ethylbenzene	52.8		"	50.0		106	80-120			
Xylene (p/m)	103		**	100		103	80-120			
Xvlene (0)	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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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

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#### 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** 

Analysis D I A The Line Devel ( Devel ( DDC) Linear DDD						Spike		Reporting			
Analyte Result Limit Units Level Result %REC Limits RPD	Limit Notes	RPD	Limits	%REC	Result	Level	Units	Limit	Result	aalyte	Analyte

Batch EB60910 - EPA 5030C (GC)

Matrix Spike (EB60910-MS1)	Sou	rce: 6B08024-	01	Prepared: 0	2/09/06 A	nalyzed: 02	2/10/06
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. i	80-120
Xylene (0)	0.0416	0.00100	и	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

Rice Operating Co.		Pr	oiect: Ho	obbs Jct. F-29	-1A				Fax: (505)	397-1471
122 W. Taylor		Project Nu							Repo	rted:
Hobbs NM, 88240		-		istin Farris-Po	ope				02/16/06	
General Ch	emistry Para	meters by	EPA /	Standard	Method	ls - Qua	lity Con	trol		
		Environm	ental I	Lab of Tex	as					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB60302 - General Preparation (V	(etChem)		<del></del>							
Blank (EB60302-BLK1)				Prepared &	Analyzed:	02/02/06				
Fotal Dissolved Solids	ND	5.00	mg/L							
Duplicate (EB60302-DUP1)	Sou	rce: 6B01010-	01	Prepared &	Analyzed:	02/02/06				
Total Dissolved Solids	790	5.00	mg/L		794			0.505	5	
Chloride	ND	0.500	mg/L	riepared. 0	2/04/00 AI	iaiyzeu. 02	./00/00			
Blank (EB60614-BLK1)				Prepared: 0	2/04/06 Ar	nalyzed: 02	2/06/06			
Sulfate	ND	0.500	"							
LCS (EB60614-BS1)				Prepared: 0	2/04/06 Ar	nalyzed: 02	/06/06			
Sulfate	8.40		mg/L	10.0		84.0	80-120			
Chloride	8,99			10.0		89.9	80-120			
				Prepared: 0	2/04/06 Ar	nałyzed: 02	2/06/06			
Calibration Check (EB60614-CCV1)						89.3	80-120			
Calibration Check (EB60614-CCV1) Chloride	8.93		mg/L	10.0						
· · · · · · · · · · · · · · · · · · ·	8.93 . 8.63		mg/L "	10.0 10.0		86.3	80-120			
Chloride	8.63	rce: 6B01010-	"		2/04/06 Ar					
Chloride Sulfate	8.63	rce: 6B01010- 5.00	"	10.0	2/04/06 Ar 206			8.37	20	
Chloride Sulfate Duplicate (EB60614-DUP1)	8.63 Sour			10.0				8.37 9.18	20 20	
Chloride Sulfate Duplicate (EB60614-DUP1) Chloride	8.63 Sour 224 72.9	5,00	" 01 mg/L	10.0	206					
Chloride Sulfate Duplicate (EB60614-DUP1) Chloride Sulfate	8.63 Sour 224 72.9	5,00	" 01 mg/L	10.0	206 66.5	nalyzed: 02				

Environmental Lab of Texas

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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.

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Rice Operating Co.	Project: Hobbs Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/16/06 17:36

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB60901 - General Preparatio	on (WetChem)									
LCS (EB60901-BS1)				Prepared &	Analyzed:	02/08/06				
Bicarbonate Alkalinity	210	2.00	mg/L	200		105	85-115			
Duplicate (EB60901-DUP1)	Sourc	e: 6B01010-	.01	Prepared &	Analyzed:	02/08/06				
Total Alkalinity	192	2.00	mg/L		191			0.522	20	
Reference (EB60901-SRM1)				Prepared &	Analyzed:	02/08/06				
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

Environmental Lab of Texas

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Sale area

# Project:Hobbs Jct. F-29-1AProject Number:None GivenProject Manager:Kristin Farris-Pope

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

#### Total Metals by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch EB60903 - 6010B/No Digestion												
Blank (EB60903-BLK1)				Prepared: (	02/08/06 A	nalyzed: 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 A	nalyzed: 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		11	2.00		95.0	85-115					
Duplicate (EB60903-DUP1)	Sou	rce: 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

Rice Oper	rating Co.	Project:	Project: Hobbs Jct. F-29-1A			
122 W. Ta	aylor	Project Number:		Reported:		
Hobbs NN	M, 88240	Project Manager:	02/16/06 17:36			
		Notes and De	finitions			
QR-02		· · ·		ts for the QC		
DET	Analyte DETECTED					
ND	Analyte NOT DETECTED at or above the	reporting limit				
NR	Not Reported					
dry	Sample results reported on a dry weight ba	sis				
RPD	Relative Percent Difference					
LCS	Laboratory Control Spike					
MS	Matrix Spike					
Dup	Duplicate					

Report Approved By:

Raland K Junes 2/16/2006 Date:

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 79705 - (432) 563-1800 - Fax (432) 563-1713

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										M.R.M.							-			Labels on container?			
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que	E F		Jour				Analyze For	ĥ		seitelovittioS									iers II	pon.F	une.		•.
CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST	Project Name: Hobbs Jct. F-29-1A		Lea County				A -			Volatios			 						Sample Containers Intact?	Labels on container? Custody Seals: Containers Temperature Upon Receipt.	Laboratory Comments		
T ASI	lobb						امر م	<u>بر</u> :	ə	SAR / ESP / CEC			 						Se C	ls on ody S perati	Irato		
ANA	Ĕ	ŧ	i ğ				TCLP:	TOTAL:		Aniona (Cl, 504, CO3, HCO3)	X	×			$\neg$				Sam	Labe Custo Temi	Labo		:
ONF	t Nan	Project #:	Project Loc:	2						Cations (Ca. Mg, Va, K)	×	×	 	_	_						e la	- 4-	-
KD /	ojeci	ሻ	Proje			ļ		-	9(	TPH: 418.1 8015M 1005 100	-		 		_		_				Time	2/06 4:01 Date Time	
IECC	ġ.								ž	Office (spacify): Soil	<u> </u>		 $-\dagger$	-	_		-			E O B		2 6	<b></b>
DYR									Matrix	egbuig			 				-	• •		0 0	Date	2/2/06	,
ISTO										Water	×	×								MS	ā	12/	
F CU										Other ( Specify)			 						·	rice		NN	-
o ₹		·							<u>N</u>	H <sub>2</sub> SO <sub>4</sub> None (1) 1 Liter HDPE			 +			-+-			(	8			
СНА					5				Preservative	HOBN			$\neg \uparrow$							а С Ж			:
									Pres	sisiv eesig im 04 (2) 10H	2	2	 					-,		at a			
					30			-		<sup>\$</sup> ONH							-+		'	3			
					<u>ડ</u>				Ц.	No. of Containers Ice	3 X	з К	 							noc		E C	:
					<u>छ</u>	Δ.		I	-				 -				-			let.(		23	× 1
	t.com				Fax No: (505) 397-1471		$\mathbf{n}$			b∌iqms2 emi⊺	9:50	9:15								d@valorr	V /	LA MA	
	kpriceswd@valornet.com				~	9310	714	1 1 1 1 1	20	Dəlqms2 stəD	1/31/2006	1/31/2006								O: kpricesw	Received by:	Repetived by ELOT	<b>}</b>
Environmental Lab of Texas 12600 West I-20 East Odessa, Texas 79765 Fax: 432-563-1713	Project Manager: Kristin Farris Pope kprices	Company Name RICE Operating Company	Company Address: 122 W. Taylor Street	city/state/zip: Hobbs, New Mexico 88240	Telephone No: (505) 393-9174	sampler signature: Rozanne Johnson (505) 631-9310	Email: rozanne@valornet.com			FIELD CODE	O√Monitor Well #1 Deep	A CLASS Monitor Well #2 Shallow							Special Instructions:	PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com	Relicituaries Date Time	Restinguistication from 212/64 4:00 Restinguistication from Date Time	- unstate with a big
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Environmental Lab of Texas Variance / Corrective Action Report - Sample Log-In

	lient:	Rice Op.
D	ate/Time:	2/2/06 9:00
0	rder #:	6B02006
l In	itials:	C/R

Sample Receipt	t Checklist								
Temperature ci container/cooler?	Yes	NO 1	1.0 CI						
Shipping container/cooler in good condition?	YES	No							
Custody Seals infact on shipping container/cooler?	Yas	No 1	Nict present						
perature of container/cooler? ping container/cooler in good condition? tody Seals intact on shipping container/cooler? tody Seals intact on sample bottles? in of custody present? in of custody present? in of Custody signed when relinquished and received? in of Custody signed when relinquished and received? in of custody agrees with sample label(s) tainer labels legible and intact? tole Matrix and procerties same as on chain of custody? topies in procer container/cottle? topies properly preserved? topies properly preserved? tainers documented on Chain of Custody? tainers documented on Chain of Custody?	Yes	No 1	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 1							
Chain of custody agrees with sample label(s)	1 CB	No 1							
Container labeis legicle and intact?	(Es	No	)						
Sample Matrix and procerties same as on chain of custody?	YES	No I							
Semples in procer container/oottle?	1 (25	No I							
Samples properly preserved?	Yes	No I							
Sample bottles intact?	Yes	No	1						
Preservations documented on Chain of Custody?	Yes	No							
Containers documented on Chain of Custody?	YES	No	i						
Sufficient samele amount for indicated test?	YES	No I							
All samples received within sufficient hold time?	YES	1. No 1							
VOC samples have zero headspace?	Yes,	No 1	Not Accilcable						
	Temperature of container/cooler? Shipping container/cooler in good condition? Custody Seals intact on shipping container/cooler? Custody Seals intact on sample bottles? Chain of custody present? Sample Instructions complete on Chain of Custody? Chain of Custody signed when relinquished and received? Chain of Custody signed when relinquished and received? Chain of custody agrees with sample label(s) Container labels legible and intact? Sample Matrix and procerties same as on chain of custody? Samples in procer container/cottle? Samples properly preserved? Sample bottles intact? Freservations documented on Chain of Custody? Containers documented on Chain of Custody? Sufficient sample amount for indicated test? All samples received within sufficient hold time?	Temperature of container/cooler?YesShipping container/cooler in good condition?YesCustody Seals intact on shipping container/cooler?YesCustody Seals intact on sample bottles?YesChain of custody present?YesSample Instructions complete on Chain of Custody?YesChain of Custody signed when relinquished and received?YesChain of custody agrees with sample label(s)YesContainer labels legible and intact?YesSample Matrix and procerties same as on chain of custody?YesSamples procerly preserved?YesSample bottles intact?YesSample bottles intact?YesSample bottles intact?YesSample bottles intact?YesSufficient sample amount for Custody?YesSufficient sample amount for indicated test?YesAll samples received within sufficient hold time?Yes	Shipping container/cooler in good condition?YesNoCustody Seals intact on shipping container/cooler?YesNoCustody Seals intact on sample bottles?YesNoChain of custody present?YesNoSample Instructions complete on Chain of Custody?YesNoChain of Custody signed when relinquished and received?YesNoChain of custody agrees with sample label(s)YesNoContainer labels legible and intact?YesNoSample Matrix and procerties same as on chain of custody?YesNoSamples properly preserved?YesNoSample bottles intact?YesNoSample bottles intact?YesNoSamples properly preserved?YesNoSample bottles intact?YesNoSample bottles intact?YesNoSufficient sample amount for indicated test?YesNoAll samples received within sufficient hold time?YesNo						

Other observations:

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ALC: NO.

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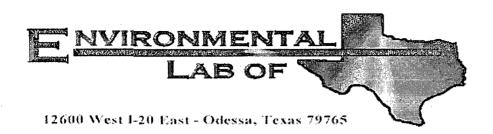
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Variance Documentation:

Contact Person:	Date/Time:	Contacted by:
Regarding:		
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Corrective Action Taken:		
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# 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

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#### 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.	Project: Hobbs Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/09/06 14:23

## Organics by GC

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Deep (6E04010-01	) Water		· · · ·						
Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B	
Toluene	ND	0.00100	n			"			
Ethylbenzene	ND	0.00100				и	"		
Xylene (p/m)	ND	0.00100				н		"	
Xylene (o)	ND	0.00100	'n			Ð		"	
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-12	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-12	20	"	"	"	. "	

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

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Benzene	ND	0.00100	mg/L	1	EE60404	05/04/06	05/04/06	EPA 8021B	
Toluene	ND	0.00100	41		11	"	н	"	
Ethylbenzene	ND	0.00100	"		"	"	"		
Xylene (p/m)	ND	0.00100	"		н	"	"		
Xylene (o)	ND	0.00100		я	п	"	н		
Surrogate: a,a,a-Trifluorotoluene		94.2 %	80-120		n	"	n	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-120		и	"	п	77	

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

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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	Note
Monitor Well #1- Deep (6E04010-0)	1) Water			. <u>.</u>		····· - ·			·
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	н	ł	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	
Monitor Well #2- Shallow (6E04010	)-02) Water								
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	

Environmental Lab of Texas

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[				Fax: (505) 397-1471
	Rice Operating Co.	Project:	Hobbs Jct. F-29-1A	Pax. (303) 597-1471
	122 W. Taylor	Project Number:	None Given	Reported:
	Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	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
Monitor Well #1- Deep (6E040)	10-01) Water							<u></u>	
Calcium	173	0.500	mg/L	50	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	24.8	0.0100	ъ	10	۳		н	· n	
Potassium	2.43	0.500			"		н	н	
Sodium	47.1	0.100	**	It	n		н	н	
Monitor Well #2- Shallow (6E0	4010-02) Water								
Calcium	72.1	0.100	mg/L	10	EE60811	05/08/06	05/08/06	EPA 200.7	
Magnesium	20.5	0.0100			н		"	D.	
Potassium	2.78	0.500	н		н	17	0		
Sodium	138	0.500		50	в	•			

Environmental Lab of Texas

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			5) 397-147 oorted:							
	Project Number: None Given Project Manager: Kristin Farris-Pope									
•		• 05/09	/06 14:23							
	%REC	RPD								
RPD	Limits	RPD Limit	Notes							
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Page 5 of 10

Rice Operating Co.	Project: Hobbs	Jct. F-29-1A	Fax: (505) 397-1471
122 W. Taylor	Project Number: None C	Jiven	Reported:
Hobbs NM, 88240	Project Manager: Kristin	Farris-Pope	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
Batch EE60404 - EPA 5030C (GC)										
Matrix Spike Dup (EE60404-MSD1)	Sour	rce: 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	и	0.100	ND	117	80-120	2.53	20	
Xylene (0)	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-Bromofluorohenzene	40.0		"	40.0		100	80-120			

Environmental Lab of Texas

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Rice Operating Co. Project: Hobbs Jct. F-29-1A												
122 W. Taylor	Project Number: None Given								Repo	rted:		
Hobbs NM, 88240		Project Mai	nager: Ki	ristin Farris-P	ope				05/09/0	6 14:23		
General Ch	nemistry Par	ameters by	EPA /	Standard	Metho	is - Qua	lity Con	trol				
		Environm	iental l	Lab of Te	kas							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPÐ	RPD Limit	Notes		
Batch EE60507 - General Preparation (V	WetChem)											
Blank (EE60507-BLK1)				Prepared &	Analyzed:	05/04/06						
Chloride	ND	0.500	mg/L									
Sulfate	ND	0.500	"									
LCS (EE60507-BS1)				Prepared &	Analyzed	05/04/06						
Chloride	9.99	0.500	mg/L	10.0		99,9	80-120					
Sulfate	8,53	0.500	н	10.0		85.3	80-120					
Calibration Check (EE60507-CCV1)				Prepared &	Analyzed	05/04/06						
Chloride	10.4		mg/L	10.0		104	80-120					
Sulfate	9.15			10.0		91.5	80-120					
Duplicate (EE60507-DUP1)	So	arce: 6D28002-	-02	Prepared &	Analyzed:	05/04/06						
Sulfate	52.7	0.500	mg/L		53.3			1.13	20			
Chloride	62.0	0.500	Ŧ		62.1			0.161	20			
Batch EE60814 - General Preparation (V	WetChem)							_				
Blank (EE60814-BLK1)				Prepared &	Analyzed:	05/09/06						
Fotal Alkalinity	ND	2.00	mg/L									
LCS (EE60814-BS1)				Prepared &	Analyzed:	05/09/06						
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115					
Duplicate (EE60814-DUP1)	Soi	ırce: 6E04009-	01	Prepared &	Analyzed:	05/09/06						
Fotal Alkalinity	209	2.00	mg/L		208			0.480	20			
Reference (EE60814-SRM1)				Prepared &	Analyzed:	05/09/06						

 Total Alkalinity
 96.0
 mg/L
 100
 96.0
 90-110

Environmental Lab of Texas

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Page 7 of 10

| Rice Operating Co. | Project: Hobbs Jct. F-29-1A          | Fax: (505) 397-1471 |
|--------------------|--------------------------------------|---------------------|
| 122 W. Taylor      | Project Number: None Given           | Reported:           |
| Hobbs NM, 88240    | Project Manager: Kristin Farris-Pope | 05/09/06 14:23      |

## General Chemistry Parameters by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

| Analyte                                | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|--|--------|--------------------|-------|----------------|------------------|-------------|----------------|------|--------------|-------|
| Batch EE60816 - Filtration Preparation |        |                    |       |                |                  |             |                |      |              |       |
| Blank (EE60816-BLK1)                   |        |                    |       | Prepared: (    | 05/05/06 A       | nalyzed: 05 | /08/06         |      |              |       |
| Total Dissolved Solids                 | ND     | 5.00               | mg/L  |                |                  |             |                |      |              |       |
| Duplicate (EE60816-DUP1)               | Sou    | rce: 6E04009-      | 01    | Prepared: (    | 05/05/06 A       | nalyzed: 05 | /08/06         |      |              |       |
| Total Dissolved Solids                 | 940    | 5.00               | mg/L  |                | 904              |             |                | 3.90 | 5            |       |

Environmental Lab of Texas

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

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

## Total Metals by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

|                                    |        | Reporting     |       | Spike      | Source      |          | %REC   |       | RPD   |       |
|------------------------------------|--------|---------------|-------|------------|-------------|----------|--------|-------|-------|-------|
| Analyte                            | Result | Limit         | Units | Level      | Result      | %REC     | Limits | RPD   | Limit | Notes |
| Batch EE60811 - 6010B/No Digestion |        |               |       |            |             |          |        |       |       |       |
| Blank (EE60811-BLK1)               |        |               |       | Prepared & | k Anaiyzed: | 05/08/06 |        |       |       |       |
| Calcium                            | ND     | 0.0100        | mg/L  |            |             |          |        |       |       |       |
| Magnesium                          | ND     | 0.00100       |       |            |             |          |        |       |       |       |
| Potassium                          | ND     | 0.0500        | н     |            |             |          |        |       |       |       |
| Sodium                             | ND     | 0.0100        | "     |            |             |          |        |       |       |       |
| Calibration Check (EE60811-CCV1)   |        |               |       | Prepared & | 2 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   |               | ч     | 2.00       |             | 87.0     | 85-115 |       |       |       |
| Sodium                             | 1.84   |               |       | 2.00       |             | 92.0     | 85-115 |       |       |       |
| Duplicate (EE60811-DUP1)           | Sou    | rce: 6E04009- | 01    | Prepared & | k 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         | п     |            | 88.0        |          |        | 0.456 | 20    |       |

Environmental Lab of Texas

| Rice Ope            | erating Co.                                 | Project: Hobbs Jct. F-29-1A  | Fax: (505) 397-147                 |
|---------------------|---|--|------------------------------------|
| 122 W. T<br>Hobbs N | Faylor<br>IM, 88240                         | Project Number: None Given<br>Project Manager: Kristin Farris-Pope | <b>Reported:</b><br>05/09/06 14:23 |
|                     | · · · · · · · · · · · · · · · · · · ·       |  |                                    |
|                     |   | Notes and Definitions  |                                    |
| DET                 | Analyte DETECTED                            |  |                                    |
| ND                  | Analyte NOT DETECTED at or above the r      | reporting limit  |                                    |
| NR                  | Not Reported                                |  |                                    |
| dry                 | Sample results reported on a dry weight bas | is   |                                    |
| RPD                 | Relative Percent Difference                 |  |                                    |
| LCS                 | Laboratory Control Spike                    |  |                                    |
| MS                  | Matrix Spike                                |  |                                    |
| Dup                 | Duplicate                                   |  |                                    |

Report Approved By:

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Raland K Junes

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.

Date:

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Environmental Lab of Texas

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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|----------------|--|--------------------------------------|-------------------------------------|---------------------------------------|---|------------------------------|---|---|-------|-------------|---|----------------------|---|-----|-----|-----|-----------------|---|---|---|--|-------------------------------------|------------------|
|                |  |                                      |                                     |                                       |   |                              |   |   |       |             | Pre-Schedule<br>Standard TAT (Pre-Schedule              | <u> ×</u>            | _×  |     |     |     | <br>            |   |   |   |  |                                     |                  |
| #38            |  |                                      |                                     |                                       |   |                              |   | T   |       |             | olubodo2 cr0) TAT H21(0)                                |                      |   |     |     |     | <br>            |   |   |   | z  |                                     |                  |
| State of the   |  |                                      |                                     |                                       |   |                              |   |   |       |             |   |                      |   |     |     |     |                 |   |   |   | Z  |                                     |                  |
|                |  |                                      |                                     |                                       |   |                              |   |   |       |             |   |                      |   |     |     |     |                 |   |   |   | \$   | N<br>O                              |                  |
| <b>5</b> 78    |  |                                      |                                     |                                       |   |                              |   | -   |       |             | sbiloS bevlossid IsjoT                                  | ×                    | ×   |     |     |     | <br>            |   |   | - |  | Õ                                   |                  |
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|                | L  | F-29-1A                              |                                     | Ę                                     |   |                              |   | <u>Б</u> -                                |       | 1           | BTEX 80218/5030   | ×                    | ×   |     |     |     | <br>            | _ |   |   | Sample Containers Intact?<br>Labels on container?<br>Custody Seals <u>Containetry</u><br>Temperature Upon Receipt: | nts:                                |                  |
|                | CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST  | E E                                  |                                     | Lea County                            |   |                              |   | Analyze For                               | Ê     |             | selitstovimeS   |                      |   |     |     |     | <br>            | - |   | · | Sample Containers In<br>Labels on container?<br>Custody Seals: Cont<br>Temperature Upon Re                         | Laboratory.Comments                 |                  |
| 2 A.           | REQI   | Project Name: <u>Hobbs Jct.</u>      |                                     | 8                                     |   |                              |   | ٩.  |       |             | 201810V   |                      |   |     |     |     |                 |   |   |   | ntain<br>conta<br>cals<br>re Ur  | Col                                 |                  |
|                | i SiS  | sqq                                  |                                     | Le                                    |   |                              |   |   |       |             | Relats: As Ag Ba Cd Cr Pb Hg S                          |                      |   |     |     |     | <br>            |   |   |   | e Co<br>on c<br>ly Se<br>sratur  | atory (                             |                  |
| 2.4.02         | ALY  | 뵈                                    |                                     | <u> </u>                              | ļ                                       |                              |   | i<br>Z                                    | TOTAL |             | SAR / ESP / CEC   |                      |   |     |     | _   |                 |   |   |   | ample<br>abels<br>uistoci<br>empe  | node                                |                  |
| R              | AN.  | атте                                 | Project #:                          | Project Loc:                          | PO #:                                   |                              |   |   | ž     | ╞           | Cations (Ca. Mg, Na. K)<br>Aritons (Cl, 504, CO3, HCO3) | х¦х                  | хX  |     |     |     | <br>            |   |   |   | <u>40°</u>   |                                     |                  |
|                | AND  | ect N                                | Proje                               | oject                                 |   |                              |   |   |       | 90          | TPH:418.1 8015M 1005 100                                | $\hat{}$             |   |     |     |     | <br>            |   |   |   |  | emi<br>V                            | Time (0.55       |
| No. and        | аяс  | Proje                                |                                     | Ри                                    |   |                              |   | <u>}</u>                                  |       |             | Olher (specify):  |                      |   |     |     |     |                 |   |   |   |  | 11m<br>10,9                         | ⊢ <i>Q</i>       |
|                | RECI   |                                      |                                     |                                       |   |                              |   |   |       | Matrix      | lioS  |                      |   |     |     |     |                 |   |   |   | F  |                                     | P                |
|                | лла  |                                      |                                     |                                       |   |                              |   |   |       | Ř           | əßpnis  |                      |   |     |     |     |                 |   |   |   | 00   | Date                                | ate<br>10        |
| a star at      | sto  |                                      |                                     |                                       |   |                              |   |   |       |             | ₩ater   | ×                    | ×   |     |     |     |                 |   |   | - | vd.  | of of                               |                  |
|                |  |                                      |                                     |                                       |   |                              |   |   |       |             | Other ( Specify)  |                      |   |     |     |     |                 |   |   |   | esi  | 41.                                 | 15               |
| Ø              | N OI   |                                      |                                     |                                       |   |                              |   |   |       | ę           | H <sub>2</sub> SO,<br>Mone (1) 1 Liter HDPE             | -                    | -   |     |     |     | <br>            |   |   | - | <u></u><br>Øric  |                                     |                  |
|                | CHAI   |                                      |                                     |                                       |   | 2                            |   |   |       | reservative | HOBN HOBN   |                      |   |     |     |     |                 |   | _ |   | (s)  |                                     |                  |
| _              | U  |                                      |                                     |                                       |   | 4                            |   |   |       | rese        | HCI (2) 40 ml Blass vials                               | 2                    | 2   |     |     |     | -               |   |   |   | anl  |                                     |                  |
|                |  |                                      |                                     |                                       | ĺ                                       | 397                          |   |   |       |             | <sup>s</sup> onh  |                      |   |     |     |     |                 |   |   |   | mfr  | 1                                   |                  |
| the street the |  |                                      |                                     |                                       |   | 2                            |   |   |       |             | 106   | ×                    | ×   |     |     | -   | <br>            |   |   |   | 8  | E I                                 |                  |
| <b>6</b> 4     |  |                                      |                                     |                                       |   | <u> </u>                     | ٧,  |   | 1     | ļ           | No. of Containers                                       | <b>က</b>             | 3   |     |     |     |                 |   |   |   | con  | k<br>z                              |                  |
| B. S. Sugar    |  |                                      |                                     |                                       |   | Fax No: (505) 397-1471       | 1-1   | R   |       |             | belqme2 emi⊺  | 10:40                | 9:05  |     |     |     |                 |   |   |   | ope@riceswd.com & mfranks@riceswd.com  | N.                                  | 600              |
|                |  | .com                                 |                                     |                                       |   |                              | $\langle$   |   |       |             |   | 9                    | 90  |     |     |     | <br>            |   |   |   | ope@ri   | P Con                               |                  |
|                |  | kpope@riceswd.com                    |                                     |                                       |   |                              | 10  | - n                                       |       | >           | belqms2 stsD  | 5/2/2006             | 5/2/2006  |     |     |     |                 |   |   |   | đ<br>d   | iver to                             | Relectived by    |
|                |  | ce@i                                 |                                     |                                       |   |                              | 1-93  |   |       |             |   |                      |   |     |     |     |                 |   |   |   | TST  |                                     |                  |
|                | 33-1800<br>53-1713   | kpor                                 | pany                                |                                       | 88240                                   | `                            | i05) 63   |   |       |             |   |                      |   |     |     |     |                 |   |   |   | KESUL'   | Time $\mathcal{L}:\mathcal{O}$      | Time<br>/0、5 つ   |
| 1              | <b>b of Texas</b><br>Phone: 432-563-1800<br>Fax: 432-563-1713                                  | ope                                  | ig Com                              | Street                                | lexico (                                | 4                            | ison (5   | in to |       |             | DE  |                      | M   |     |     |     |                 |   |   |   | imail R  | Date<br>Ole                         | X                |
|                |  | -arris F                             | peratir                             | Taylor                                | New N                                   | 93-917                       | ie Johr   | ( Jever                                   | 10,00 |             | FIELD CODE  | -Deep                | ~ Shallow   |     |     |     |                 |   |   |   | PLEASE Email RESULTS TO:   | - Style                             | 12               |
|                |  | Project Manager: Kristin Farris Pope | Company Name RICE Operating Company | company Address: 122 W. Taylor Street | city/state/zip: Hobbs, New Mexico 88240 | Felephone No: (505) 393-9174 | sampler signature: Rozanne Johnson (505) 631-9310 |   |       |             |   | Monitor Well #1~Deep | Monitor Well #2   |     |     |     |                 |   |   |   | РГЕ  | <u>N</u>                            | many             |
| tes.           | ent  | nager: H                             | Name F                              | dress: 1                              | te/Zip: <u>F</u>                        | Je No: (                     | ature: F  |   |       |             |   | Aonitor              | Aonitor   |     |     |     |                 |   |   |   |  | L                                   | James How        |
| 1.99           | E 17   | t Mai                                | pany                                | y Adi                                 | //Stai                                  | zohoz                        | Sign  | -   |       | }           |   |                      |   |     |     |     |                 | 8 |   |   | us:  | $\mathbb{N}$                        |                  |
| A.S. 12-1      | Environmental Lab of Texas<br>12600 West I-20 East<br>Odessa, Texas 79765<br>Fax: 432-563-1713 | Projec                               | Com                                 | Compan                                | Cit                                     | Tele                         | Sampler   |   |       |             | AB # (IBD: <u>use only)</u>                             | S)<br>S              | S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S<br>S |     |     |     |                 |   |   |   | Special Instructions:  | Refinquished by:<br>Rozanne Joimson | tuished by:      |
|                | LD<br>12600 V<br>Odessa  |                                      |                                     |                                       |   |                              |   |   |       |             |   |                      |   |     |     |     |                 |   |   |   | Special  | Refinquished by<br>Rozanne Johnse   | Relipquished by: |
| U              |  | :                                    |                                     |                                       |   |                              |   |   |       |             | · ·   |                      | . ".•   | · · | • . |     |                 |   |   |   |  |                                     |                  |

Sec.

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

| Client:    | live Dp.       |  |
|------------|----------------|--|
| Date/Time: | - 5/4/04 10:50 |  |
| Order #:   | 10E09010       |  |
| nitials:   | CK             |  |

## Sample Receipt Checklist

| 2   | Sample Receipt   | Checki | SI |                                       |
|---|--|--------|----|---------------------------------------|
| San Stan                                  | Temperature of container/cooler?                                     | Yes    | No | 0.5 0                                 |
| 60  | Shipping container/cooler in good condition?                         | (ছে৯   | No |                                       |
|   | Dustody Seals intact on shipping container/cooler?                   | Yes    | No | Not present                           |
| 1   |  | Yes    | No | Not present                           |
|   | Dustody Seals intact on sample bottles?<br>Dhain of custody present? | YES    | No |                                       |
|   | Sample Instructions complete on Chain of Custody?                    | YES    | No |                                       |
| _   | Thain of Custody signed when relinquished and received?              | Yes    | No |                                       |
| State L                                   | Chain of custody agrees with sample label(s)                         | Yes    | No |                                       |
| 1   | Container labels legible and intact?                                 | ¥56    | No |                                       |
|   | Sample Matrix and properties same as on chain of custody?            | Xas    | No |                                       |
| <b>小</b> 馬                                | A stille O   | 1 Xas  | No | •                                     |
| 1. A. | Samples properly preserved?  | Yes    | No |                                       |
| 1   | Sample bottles intact?   | YES    | No | · · · · · · · · · · · · · · · · · · · |
|   | Preservations documented on Chain of Custody?                        | XES    | No |                                       |
|   |  | 1 Ces  | No |                                       |
|   | Bufficient sample amount for indicated test?                         | 1 Xes  | No |                                       |
| en.                                       | All samples received within sufficient hold time?                    | 123    | NO |                                       |
| _   | /OC samples have zero headspace?                                     | (C)    | Na | Not Apolicable                        |

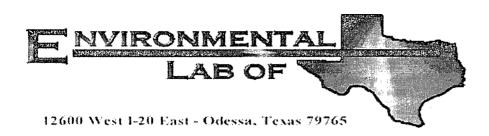
Dther observations:

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| - <u> </u>                            |   |                                       |
|---------------------------------------|---|---------------------------------------|
|                                       |   |                                       |
| · .                                   | <ul> <li>Variance Documentation:</li> </ul>               |                                       |
| Contact Person: -                     | Date/Time:  | _ Contacted by:                       |
| enardina:                             |   |                                       |
| :                                     |   |                                       |
|                                       |   | · · · · · · · · · · · · · · · · · · · |
|                                       |   |                                       |
| · · · · · · · · · · · · · · · · · · · |   |                                       |
| Corrective Action Taken:              |   | •                                     |
|                                       | · · · · · ·   |                                       |
|                                       | ······································                    |                                       |
|                                       |   |                                       |
|                                       |   |                                       |
|                                       |   |                                       |
|                                       | Contact Person:<br>tegarding:<br>Corrective Action Taken: | corrective Action Taken:              |

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# 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

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1. 20. 2 2 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 |

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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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1- Deep (6H18011-01) Water   |        |                    |       |          |         |          |          |           |       |
| Benzene                                    | ND     | 0.00100            | mg/L  | 1        | EH62121 | 08/21/06 | 08/21/06 | EPA 8021B |       |
| Toluene                                    | ND     | 0.00100            | и     | н        | "       |          |          | 11        |       |
| Ethylbenzene                               | ND     | 0.00100            |       |          |         | •        | "        | "         |       |
| Xylene (p/m)                               | ND     | 0.00100            |       |          | "       | "        | 14       | •         |       |
| Xylene (o)                                 | ND     | 0.00100            | n     | "        | *       | 11       | n        | **        |       |
| Surrogate: a,a,a-Trifluorotoluene          |        | 95.5 %             | 80-   | 120      | "       | . "      | n        | "         |       |
| Surrogate: 4-Bromofluorobenzene            |        | 88.2 %             | . 80  | 120      | "       | "        | "        | "         |       |
| Monitor Well #2- Shallow (6H18011-02) Wate | r      |                    |       |          |         |          |          |           |       |
| Benzene                                    | ND     | 0.00100            | mg/L  | 3        | EH62121 | 08/21/06 | 08/21/06 | EPA 8021B |       |
| Toluene                                    | ND     | 0.00100            |       |          |         | *        | "        | "         |       |
| Ethylbenzene                               | ND     | 0.00100            |       |          |         | **       | "        | 11        |       |
| Xylene (p/m)                               | ND     | 0.00100            |       | "        | *       | "        | "        |           |       |

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Xylene (o) Surrogate: a.a.a-Trifluorotoluene Surrogate: 4-Bromofluorobenzene ND

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Environmental Lab of Texas

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## 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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |
|-----------------------------------|-------------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| Monitor Well #1- Deep (61118011-0 | 1) Water    |                    |       |          |         | <u></u>  |          |            |       |
| 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  |       |
| Monitor Well #2- Shallow (6H1801) | 1-02) Water |                    |       |          |         |          |          |            |       |
| 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               | 11    | 10       | EH62101 | 08/21/06 | 08/21/06 | EPA 300.0  |       |

· Environmental Lab of Texas

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Page 3 of 10

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

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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<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--------------------------------------|----------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1- Deep (6H18011-01) V | Water    |                    |       |          |         |          |          |           |       |
| Calcium                              | 154      | 4.05               | mg/L  | 50       | EH62313 | 08/23/06 | 08/23/06 | EPA 200.7 |       |
| Magnesium                            | 24.5     | 0.360              |       | 10       | 11      | "        |          |           |       |
| Potassium                            | 2.88     | 0.600              | "     |          | в       | "        |          |           |       |
| Sodium                               | 70.5     | 0.430              |       | и        | 11      | н        | "        | "         |       |
| Monitor Well #2- Shallow (6H18011-02 | 2) Water |                    |       |          |         |          | _        |           |       |
| Calcium                              | 49.0     | 0.810              | mg/L  | 10       | EH62313 | 08/23/06 | 08/23/06 | EPA 200.7 |       |
| Magnesium                            | 13.3     | 0.360              | 11    | n        | n       |          | "        |           |       |
| Potassium                            | 1.76     | 0.600              |       | "        |         | •        | "        | в. 1      |       |
| Sodium                               | 145      | 2.15               |       | 50       |         |          | n        | п         |       |

Environmental Lab of Texas

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

Fax: (505) 397-1471

## **Organics by GC - Quality Control**

|  | Enviro | nmental | Lab of | Texas |
|--|--------|---------|--------|-------|
|--|--------|---------|--------|-------|

| Analyte                           | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|-----------------------------------|--------|--------------------|-------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Batch EH62121 - EPA 5030C (GC)    |        |                    |       |                |                  |             |                |     |              |       |
| Blank (EH62121-BLK1)              | ~      |                    |       | Prepared: 0    | 8/21/06 A        | nalyzed: 08 | /22/06         |     |              |       |
| Benzene                           | ND     | 0.00100            | mg/L  |                |                  |             |                |     |              |       |
| Toluene                           | ND     | 0.00100            | и     |                |                  |             |                |     |              |       |
| Ethylbenzene                      | ND     | 0.00100            | н     |                |                  |             |                |     |              |       |
| 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 (0)                        | 0.0565 | 0.00100            | н     | 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: 0    | 8/21/06 A        | nalyzed: 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 (0)                        | 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)        | Sou    | rce: 6H18007-      | 01    | Prepared: 0    | 8/21/06 A        | nalyzed: 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         |     |              |       |

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12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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

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

## **Organics by GC - Quality Control**

## **Environmental Lab of Texas**

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

## Batch EH62121 - EPA 5030C (GC)

| Matrix Spike Dup (EH62121-MSD1)   | Sou    | 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 |       |    |

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.

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## General Chemistry Parameters by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

|  |          | Reporting     |       | Spike                         | Source    |          | %REC   |      | RPD   |      |
|--|----------|---------------|-------|-------------------------------|-----------|----------|--------|------|-------|------|
| Analyte                                | Result   | Limit         | Units | Level                         | Result    | %REC     | Limits | RPD  | Limit | Note |
| Batch EH62101 - General Preparation (V | VetChem) | <u> </u>      |       |                               |           |          |        |      |       |      |
| 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         | н     | 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)               | Sou      | rce: 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)               | Sour     | -ce: 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)             | Sour     | -ce: 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)             | Sour     | rce: 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 |      |       |      |

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## General Chemistry Parameters by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

|                                    |              | Reporting     |       | Spike                         | Source      |             | %REC    |         | RPD   |       |  |  |
|------------------------------------|--------------|---------------|-------|-------------------------------|-------------|-------------|---------|---------|-------|-------|--|--|
| Analyte                            | Result       | Limit         | Units | Level                         | Result      | %REC        | Limits  | RPD     | Limit | Notes |  |  |
| Batch EH62128 - General Preparati  | on (WetChem) | · · · ·       |       |                               |             |             |         |         |       |       |  |  |
| Blank (EH62128-BLK1)               |              |               |       | Prepared & Analyzed: 08/21/06 |             |             |         |         |       |       |  |  |
| Fotal Alkalinity                   | ND           | 2.00          | mg/L  |                               |             | ·           |         |         |       |       |  |  |
| LCS (EH62128-BS1)                  |              |               |       | Prepared &                    |             |             |         |         |       |       |  |  |
| Total Alkalinity                   | 178          |               | mg/L  | 200                           |             | 89.0        | 85-115  |         |       |       |  |  |
| Duplicate (EH62128-DUP1)           | Sou          | rce: 6H18007- | -01   | Prepared &                    | Analyzed:   | 08/21/06    |         |         |       |       |  |  |
| Fotal Alkalinity                   | 186          | 2.00          | mg/L  |                               | 186         | 0.00        | 20      |         |       |       |  |  |
| Reference (EH62128-SRM1)           |              |               |       | Prepared &                    | 2 Analyzed: | 08/21/06    |         |         |       |       |  |  |
| Total Alkalinity                   | 248          | ,             | mg/L  | 250                           |             | 99.2        | 90-110  |         |       |       |  |  |
| Batch EH62303 - Filtration Prepara | tion         |               |       |                               |             |             |         | <u></u> |       |       |  |  |
| Blank (EH62303-BLK1)               |              |               |       | Prepared: (                   | 08/18/06 A  | nalyzed: 08 | 8/22/06 |         |       |       |  |  |
| Total Dissolved Solids             | ND           | 10.0          | mg/L  |                               |             |             |         |         |       |       |  |  |
| Duplicate (EH62303-DUP1)           | Sou          | rce: 6H18007- | -01   | Prepared: (                   | 08/18/06 A  | nalyzed: 08 | 3/22/06 |         |       |       |  |  |
| Fotal Dissolved Solids             | 556          | 10.0          | mg/L  |                               | 526         |             |         | 5.55    | 5     |       |  |  |
| Duplicate (EH62303-DUP2)           | Sou          | rce: 6H18013- | -04   | Prepared &                    | Analyzed:   | 08/18/06    |         |         |       |       |  |  |
| fotal Dissolved Solids             | 808          | 10.0          | mg/L  |                               | 930         |             |         | 14.0    | 5     |       |  |  |

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## Total Metals by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

|                                    |        |                    |       | ÷              |                  |          |                |       |              |       |
|------------------------------------|--------|--------------------|-------|----------------|------------------|----------|----------------|-------|--------------|-------|
| Analyte                            | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC     | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
| Analyte                            | Kesuit | Lum                |       | Level          | Kesuit           | /orec    |                | KFD   | Lann         | Notes |
| Batch EH62313 - 6010B/No Digestion |        |                    |       |                |                  |          |                |       |              |       |
| Blank (EH62313-BLK1)               |        |                    |       | Prepared &     | Analyzed:        | 08/23/06 |                |       | •            |       |
| Calcium                            | ND     | 0.0810             | mg/L  |                |                  |          |                |       |              |       |
| Magnesium                          | ND     | 0.0360             | ю     |                |                  |          |                |       |              |       |
| 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)           | Sou    | rce: 6H15005-      | 04    | Prepared &     | Analyzed:        | 08/23/06 |                |       |              |       |
| Calcium                            | 44.4   | 0.810              | mg/L  |                | 45.9             |          |                | 3,32  | 20           |       |
| Magnesium                          | 48.1   | 0.360              | N     |                | 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           |       |

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

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#### **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 Julis 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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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 AMALYSIS REQUEST                 | Project Name: Hobbs Junction F-29-1A   | Project #:                          | Project Loc: Lea County               | PO#;                                    |                              |   | Analyz                             | TOTAL: X | TPH: 418.1 8015M 1005 1006<br>Cations (Ca. Mg, Na, K)<br>Anions (Cl. SO4, CO3, HCO3)<br>SAR / ESP / CEC<br>Metals: As Ag Ba Cd Ct Pb Hg Se<br>Metals: As Ag Ba Cd Ct Pb Hg Se<br>Semivolatiles<br>N.O.R.M.<br>RCI<br>N.O.R.M.<br>Total Dissolved Solids<br>Total Dissolved Solids<br>Standard TAT (Pre-Schedule)<br>Standard TAT<br>Standard TAT  | XXX                  | X X X X X               |  |   |         |      | Sample Containers Intact? Con<br>Labels on container? CON<br>Cústicity Seals. Containing A Contain<br>Temperature Upon Receipt | Time Laboratory Comments: $A_1O$<br>:3.1<br>Time        | $ \sigma $         |
|--|--|-------------------------------------|---------------------------------------|---|------------------------------|---|------------------------------------|----------|---|----------------------|-------------------------|--|---|---------|------|--|---|--------------------|
| TODY RECORD  | Proj                                   | 1                                   | Γ.<br>Γ.                              | ļ                                       |                              | ľ   | •                                  |          | Offnet (sbecity):<br>2013<br>Sindge Sindge  | ×                    | ×                       |  |   |         | <br> | com  | Oate Time<br>る-18-0に 5:31<br>Date Time                  | ( <u>k</u> [00]]0  |
| CHAIN OF CUST  |  |                                     |                                       |   | 7-1471                       |   |                                    |          | Other ( Specify)<br>MacOne (1) 1 Liter HDPE<br>MacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>NacOne<br>Na | 2 1 )                | 2 1 )                   |  |   |         |      | kpope@riceswd.com; mfranks@riceswd.com   | 1000  | [8](U              |
|  |  |                                     |                                       |   | Fax No: (505) 397-1471       |   |                                    |          | No. of Containers<br>Ice<br>HNO3  | з X                  | 3 X                     |  |   |         |      | com; mfi   | man   | 5<br>Z             |
|  | c                                      |                                     |                                       |   | Fax No:                      | -   | 12                                 |          | beiqmisS amiT   | 8:40                 | 10:05                   |  | - |         |      | @riceswd.  | 9700  |                    |
|  | kpope@riceswd.com                      |                                     |                                       |   |                              | 9310  | - Jer                              | who ft   | Date Sampled  | 8/15/2006            | 8/15/2006               |  |   |         |      | Ö  | Received by:<br>James Safford<br>Received by ELOT       | S                  |
| ental Lab of Tex<br>Phone: 432-563-<br>Fax: 432-563-         | Project Manager: Kristin Farris Pope ( | company Name RICE Operating Company | company Address: 122 W. Taylor Street | city/state/Zip: Hobbs, New Mexico 88240 | Telephone No: (505) 393-9174 | sampter signature: Rozanne Johnson (505) 631-9310 | Email: <u>rozanne@valornet.com</u> |          | FIELD CODE  | Monitor Well #1-Deep | Monitor Well #2-Shaltow |  |   | -<br>ZZ |      | PLEASE Email RESULTS T   | $\frac{1}{2}$   | Barna MIMO6 101-20 |
| により、<br>たました。<br>12600 West I-20 East<br>Odessa, Texas 79765 | Project                                | Compa                               | Company                               | City/                                   | Telep                        | Sampler S   |                                    |          | LAB # (lab use only)  |                      | 201                     |  |   |         |      | Special Instructions:  | Relinquished by:<br>Rozanne Johnson<br>Relinquished by: | 11 amon L          |

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

|             | Variance/ Corrective Action F |
|-------------|-------------------------------|
| Client:     | Rice DP-                      |
| Date/ Time: | 8/18/06 10:20                 |
| Lab ID # :  | 6H18011                       |
| Initials:   |                               |
|             |                               |

and the

## Sample Receipt Checklist

| 1                 |  |     |    | 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              |
| # <u>3</u><br>#4  | Custody Seals intact on sample bottles/ container?       | Yas | No | Not Present              |
| #5                | Chain of Custody present?                                | Yes | No |                          |
| #6                | Sample instructions complete of Chain of Custody?        | Yes | No |                          |
| $\frac{\#6}{\#7}$ | 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           |
| #1                | 0 Sample matrix/ properties agree with Chain of Custody? | Yes | No |                          |
| #1                | 1 Containers supplied by ELOT?                           | Kes | No |                          |
| #1:               | 2 Samples in proper container/ bottle?                   | Yêş | No | See Below                |
| #1                | 3 Samples properly preserved?                            | Yes | No | See Below                |
| #1<br>#1          | 4 Sample bottles intact?                                 | Yes | No |                          |
| #1                | 5 Preservations documented on Chain of Custody?          | Ves | No |                          |
| m#1               | 6 Containers documented on Chain of Custody?             | Yes | No |                          |
| #1<br>#1          | 7 Sufficient sample amount for indicated test(s)?        | Tes | No | See Below                |
| #1                | 8 All samples received within sufficient hold time?      | Yes | No | See Below                |
| m #1              | 9 VOC samples have zero headspace?                       | Yes | No | Not Applicable           |

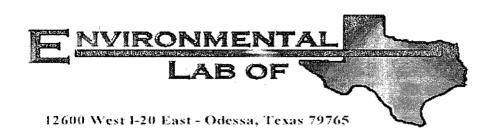
## Variance Documentation

| Contact       |               | Contacted by:           |  | Date/ Time: |
|---------------|---------------|-------------------------|--|-------------|
| Regarding:    |               |                         | ······································ |             |
| Corrective A  | ction Taken:  |                         | -                                      |             |
|               |               |                         |  |             |
| Check all the | at Apply: 📋 S | ee attached e-mail/ fax |  |             |

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 $\overline{\Box}$  Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



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# 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

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# Project:Hobbs Jct. F-29-1AProject Number:None GivenProject 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 |

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

## Organics by GC

## **Environmental Lab of Texas**

| Analyte                                  | Result | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method    | Notes |
|--|--------|--------------------|-------|----------|---------|----------|----------|-----------|-------|
| Monitor Well #1- Deep (6K08007-01) Water |        |                    |       |          |         |          |          |           |       |
| Benzene                                  | ND     | 0.00100            | mg/L  | 1        | EK60808 | 11/10/06 | 11/10/06 | EPA 8021B |       |
| Toluene                                  | ND     | 0.00100            | н     |          |         | "        | "        | n         |       |
| Ethylbenzene                             | ND     | 0.00100            |       |          | н       | u        | 0        |           |       |
| Xylene (p/m)                             | ND     | 0.00100            |       | н        |         | u        | 11       | **        |       |
| Xylene (o)                               | ND     | 0.00100            | P     | в        | "       | *        | n        | *1        |       |
| Surrogate: a,a,a-Trifluorotoluene        |        | 89.0 %             | 80-1  | 20       | ",      | "        | "        | "         |       |
| Surrogate: 4-Bromofluorobenzene          |        | 82.0 %             | 80-1  | 20       | "       | "        | "        | "         |       |

| Benzene                           | ND | 0.00100 | mg/L  | 1  | EK60808 | 11/10/06 | 11/10/06 | EPA 8021B |
|-----------------------------------|----|---------|-------|----|---------|----------|----------|-----------|
| Toluene                           | ND | 0.00100 | ч     | "  | 11      |          | *        | n         |
| Ethylbenzene                      | ND | 0.00100 | 9     |    | "       |          | **       | •         |
| Xylene (p/m)                      | ND | 0.00100 |       |    | н       | n        | *1       | **        |
| Xylene (o)                        | ND | 0.00100 | "     | "  |         |          | "        |           |
| Surrogate: a,a,a-Trifluorotoluene |    | 88.0 %  | 80-1. | 20 | "       | 77       | "        |           |
| Surrogate: 4-Bromofluorobenzene   |    | 93.0 %  | 80-1. | 20 | "       | "        | "        | "         |
|                                   |    |         |       |    |         |          |          |           |

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Project:Hobbs Jct. F-29-1AProject Number:None GivenProject Manager:Kristin Farris-Pope

## General Chemistry Parameters by EPA / Standard Methods

## **Environmental Lab of Texas**

| Anályte                          | Result      | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed | Method     | Notes |
|----------------------------------|-------------|--------------------|-------|----------|---------|----------|----------|------------|-------|
| Monitor Well #1- Deep (6K08007-0 | 1) Water    |                    |       |          |         |          |          |            |       |
| 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  |       |
| Monitor Well #2- Shallow (6K0800 | 7-02) Water |                    |       |          |         |          |          |            |       |
| 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  |       |

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

## Total Metals by EPA / Standard Methods

## Environmental Lab of Texas

| Analyte                      | Result           | Reporting<br>Limit | Units | Dilution | Batch   | Prepared | Analyzed    | Method    | Notes |
|------------------------------|------------------|--------------------|-------|----------|---------|----------|-------------|-----------|-------|
| Monitor Well #1- Deep (6K08  | 007-01) Water    |                    |       |          |         | <u> </u> |             |           |       |
| Calcium                      | 166              | 4.05               | mg/L  | 50       | EK60919 | 11/09/06 | 11/09/06    | EPA 6010B |       |
| Magnesium                    | 23.5             | 0.360              |       | 10       | п       | n        | н           |           |       |
| Potassium                    | 3.30             | 0.600              |       | н        | и       | u        |             |           |       |
| Sodium                       | 77.6             | 0.430              | **    | 11       | "       | "        | ۳           | "         |       |
| Monitor Well #2- Shallow (6K | (08007-02) Water |                    |       |          |         |          |             |           |       |
|                              |                  |                    |       |          |         |          | · · · · · · |           |       |

| Całcium   | 53.8 | 0.810 | mg/L | 10 | EK60919 | 11/09/06 | 11/09/06 | EPA 6010B |  |
|-----------|------|-------|------|----|---------|----------|----------|-----------|--|
| Magnesium | 13.7 | 0.360 |      | "  | "       | "        | "        | 0         |  |
| Potassium | 1.88 | 0.600 |      | н  | "       | н        |          |           |  |
| Sodium    | 124  | 2.15  |      | 50 |         | n        | n        | "         |  |

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

## **Organics by GC - Quality Control**

**Environmental Lab of Texas** 

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|-----------------------------------|--------|--------------------|----------|----------------|------------------|-------------|----------------|-----|--------------|-------|
| Analyte                           | Result | Reporting<br>Limit | Units    | Spike<br>Level | Source<br>Result | %REC        | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
| Batch EK60808 - EPA 5030C (GC)    |        |                    |          |                |                  |             |                |     |              |       |
| Blank (EK60808-BLK1)              |        |                    |          | Prepared: 1    | 1/08/06 A        | nalyzed: 11 | /10/06         |     |              |       |
| Benzene                           | ND     | . 0.00100          | mg/L     |                |                  |             |                |     |              |       |
| Toluene                           | ND     | 0.00100            |          | i.             |                  |             |                |     |              |       |
| Ethylbenzene                      | ND     | 0.00100            | 11       |                |                  |             |                |     |              |       |
| 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: I    | 1/08/06 A        | nalyzed: 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 (0)                        | 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: 1    | 1/08/06 A        | nalyzed: 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   |                    | н.       | 100            |                  | 90.9        | 80-120         |     |              |       |
| Xylene (0)                        | 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)        | Sou    | rce: 6K06005-      | -01      | Prepared: I    | 1/08/06 A        | nalyzed: 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 (0)                        | 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-Bromofluorohenzene   | 43.4   |                    | "        | 40.0           |                  | 108         | 80-120         |     |              |       |

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Hobbs NM, 88240

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

## **Organics by GC - Quality Control**

## **Environmental Lab of Texas**

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

| Matrix Spike Dup (EK60808-MSD1)   | Sou    | rce: 6K06005- | 01   | Prepared: 1 | 1/08/06 A | nalyzed: 11 | 1/10/06 |      |    |
|-----------------------------------|--------|---------------|------|-------------|-----------|-------------|---------|------|----|
| 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 |        |               | ug/l | 40.0        |           | 104         | 80-120  |      |    |
| Surrogate: 4-Bromofluorobenzene   | 43.7   |               | "    | 40.0        |           | 109         | 80-120  |      |    |

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Project: Hobbs Jct. F-29-1A

## Project Manager: Kristin Farris-Pope General Chemistry Parameters by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

Project Number: None Given

|  |          | Reporting     |       | Spike      | Source    |          | %REC   |       | RPD   |       |
|--|----------|---------------|-------|------------|-----------|----------|--------|-------|-------|-------|
| Analyte                                | Result   | Limit         | Units | Level      | Result    | %REC     | Limits | RPD   | Limit | Notes |
| Batch EK60911 - General Preparation (V | VetChem) |               |       |            |           | <u> </u> |        |       |       |       |
| Blank (EK60911-BLK1)                   |          |               |       | Prepared & | Analyzed: | 11/09/06 |        |       |       |       |
| Chloride                               | ND       | 0.500         | mg/L  |            |           | ·        |        |       |       |       |
| Sulfate                                | ND       | 0.500         | 11    |            |           |          |        |       |       |       |
| 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     |               | 11    | 10.0       |           | 101      | 80-120 |       |       |       |
| Duplicate (EK60911-DUP1)               | Sou      | ce: 6K08007-  | -01   | Prepared & | Analyzed: | 11/09/06 |        |       |       |       |
| Sulfate                                | 86.2     | 5.00          | mg/L  |            | 86.1      |          |        | 0.116 | 20    |       |
| Chloride                               | 283      | 5.00          | и     |            | 285       |          |        | 0.704 | 20    |       |
| Duplicate (EK60911-DUP2)               | Sou      | ·ce: 6K09002. | •01   | Prepared & | Analyzed: | 11/09/06 |        |       |       |       |
| Sulfate                                | 1650     | 20.0          | mg/L  | · · · ·    | 1590      |          |        | 3.70  | 20    |       |
| Chloride                               | 248      | 20.0          | n     |            | 239       |          |        | 3.70  | 20    |       |
| Matrix Spike (EK60911-MS1)             | Sou      | rce: 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)             | Sour     | ce: 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 |       |       |       |

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## General Chemistry Parameters by EPA / Standard Methods - Quality Control

## **Environmental Lab of Texas**

|  |                                  | Reporting                     |                    | Spike                           | Source                              |                                       | %REC   |      | RPD   |       |
|--|----------------------------------|-------------------------------|--------------------|---------------------------------|-------------------------------------|---------------------------------------|--------|------|-------|-------|
| Analyte  | Result                           | Limit                         | Units              | Level                           | Result                              | %REC                                  | Limits | RPD  | Limit | Notes |
| Batch EK61306 - Filtration Prepara   | tion                             |                               |                    |                                 |                                     | ·                                     |        |      |       |       |
| Blank (EK61306-BLK1)   |                                  |                               |                    | Prepared:                       | 1/09/06 A                           | nalyzed: 11                           | /10/06 |      |       |       |
| Total Dissolved Solids   | ND                               | 10.0                          | mg/L               |                                 |                                     |                                       |        |      |       |       |
| Duplicate (EK61306-DUP1)   | Sou                              | rce: 6K07002-                 | 01                 | Prepared:                       | 1/09/06 A                           | nalyzed: 11.                          | /10/06 |      |       |       |
| Total Dissolved Solids   | 10400                            | 10.0                          | mg/L               |                                 | 9240                                |                                       |        | 11.8 | 5     | S-0   |
| Duplicate (EK61306-DUP2)   | Sou                              | rce: 6K08010-                 | 02                 | Prepared:                       | 1/09/06 A                           | nalyzed: 11                           | /10/06 |      |       |       |
|  |                                  |                               |                    |                                 |                                     |                                       |        |      |       |       |
| Total Dissolved Solids   | 24600                            | 10.0                          | mg/L               |                                 | 23600                               |                                       |        | 4.15 | 5     |       |
| Batch EK61307 - General Preparati  |                                  | 10.0                          | mg/L               |                                 | _ ·                                 |                                       |        | 4.15 | 5     |       |
| Batch EK61307 - General Preparati<br>Blank (EK61307-BLK1)  | on (WetChem)                     |                               |                    | Prepared &                      | 23600<br>23600                      | 11/14/06                              |        | 4.15 | 5     |       |
| Batch EK61307 - General Preparati  |                                  | 2.00                          | mg/L.<br>mg/L.     | Prepared &                      | _ ·                                 | 11/14/06                              |        | 4.15 | 5     |       |
| Batch EK61307 - General Preparati<br>Blank (EK61307-BLK1)  | on (WetChem)                     |                               |                    |                                 | _ ·                                 | · · · · · · · · · · · · · · · · · · · |        | 4.15 | 5     |       |
| Batch EK61307 - General Preparatio<br>Blank (EK61307-BLK1)<br>Total Alkalinity   | on (WetChem)                     |                               |                    |                                 | Analyzed:                           | · · · · · · · · · · · · · · · · · · · | 85-115 | 4.15 | 5     |       |
| Batch EK61307 - General Preparati<br>Blank (EK61307-BLK1)<br>Total Alkalinity<br>LCS (EK61307-BS1)   | on (WetChem)<br>ND<br>192        | 2.00                          | mg/L<br>mg/L       | Prepared & 200                  | Analyzed:                           | 11/14/06<br>96.0                      | 85-115 | 4.15 | 5     |       |
| Batch EK61307 - General Preparation<br>Blank (EK61307-BLK1)<br>Total Alkalinity<br>LCS (EK61307-BS1)<br>Bicarbonate Alkalinity                             | on (WetChem)<br>ND<br>192        | 2.00                          | mg/L<br>mg/L       | Prepared & 200                  | 2 Analyzed:<br>2 Analyzed:          | 11/14/06<br>96.0                      | 85-115 | 4.15 | 5     |       |
| Batch EK61307 - General Preparation<br>Blank (EK61307-BLK1)<br>Total Alkalinity<br>LCS (EK61307-BS1)<br>Bicarbonate Alkalinity<br>Duplicate (EK61307-DUP1) | on (WetChem)<br>ND<br>192<br>Sou | 2.00<br>2.00<br>rce: 6K08007- | mg/L<br>mg/L<br>01 | Prepared &<br>200<br>Prepared & | Analyzed:<br>Analyzed:<br>Analyzed: | 11/14/06<br>96.0<br>11/14/06          | 85-115 |      |       |       |

Environmental Lab of Texas

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

## Total Metals by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas**

|                                    |        | Reporting     |       | Spike      | Source    |          | %REC   |       | RPD   |       |
|------------------------------------|--------|---------------|-------|------------|-----------|----------|--------|-------|-------|-------|
| Analyte                            | Result | Limit         | Units | Level      | Result    | %REC     | Limits | 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   |               | и     | 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)           | Sou    | rce: 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         | 11    |            | 3.30      |          |        | 1.20  | 20    |       |
| Sodium                             | 77.5   | 0.430         | н     |            | 77.6      |          |        | 0.129 | 20    |       |

Environmental Lab of Texas

Fax: (505) 397-1471 Project: Hobbs Jct. F-29-1A Rice Operating Co. 122 W. Taylor Project Number: None Given Hobbs NM, 88240 Project Manager: Kristin Farris-Pope **Notes-and Definitions** S-08 Value outside Laboratory historical or method prescribed QC limits. Analyte DETECTED DET ND Analyte NOT DETECTED at or above the reporting limit NR Not Reported Sample results reported on a dry weight basis dry RPD Relative Percent Difference LCS Laboratory Control Spike MS Matrix Spike

Dup Duplicate

144

Report Approved By:

Raland K Julies

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.

Date:

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

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.

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

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|           | Client      | Pire Op.  |  |
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## Sample Receipt Checklist

| Sal - Car |     |  |      |    | Client Ir                | nitials |
|-----------|-----|--|------|----|--------------------------|---------|
| Ş         | #1_ | Temperature of container/ cooler?                        | Yes  | No | 0.5 °C                   |         |
| ſ         | #2  | Shipping container in good condition?                    | Fes  | No |                          |         |
|           | #3  | Custody Seals intact on shipping container/ cooler?      | tes  | No | Not Present              |         |
|           | #4  | Custody Seals intact on sample bottles/ container?       | Xes  | 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?                   | Xes  | No | Not Applicable           |         |
|           | #10 | , Sample matrix/ properties agree with Chain of Custody? | Yes  | No |                          |         |
| 3         | #11 | Containers supplied by ELOT?                             | ¥25  | No |                          |         |
|           | #12 | Samples in proper container/ bottle?                     | Yes  | No | See Below                |         |
|           | #13 | Samples properly preserved?                              | Ves  | 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 Taker | 1:    |   |             |
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| Check all that Apply:   |       | See attached e-mail/ fax                              |             |
|                         |       | Client understands and would like to proceed with and | •           |
| Check all that Apply:   |       |   | -           |

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