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ANNUAL GW MONITOR REPORT

DATE: 2007

IR 428-65 Annual GW Mon. Report

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuguerque, NM 87104 ▲ 505.266.5004 ▲ Fa

2008 FEB 7 PM 2 42

January 24, 2008

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

RE:

2007 Annual Ground Water Monitoring Report Jct. E-32-1, Sec 32, T18S, R38E, Unit "E" NMOCD Case #: 1R0428-65

Dear Mr. Wayne Price:

R.T. Hicks Consultants. Ltd is pleased to submit the 2007 Annual Ground Water Monitoring Report for the Jct. E-32-1 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 over time for chloride, TDS, and sulfate.
- 3. Laboratory data sheets associated with the routine sampling for 2007.

A Corrective Action Plan was submitted to NMOCD on January 22, 2007. NMOCD approved the CAP on July 18, 2007. In August of 2007, the site was reseeded to create the proposed infiltration barrier through surface restoraton and vegetation. A Closure Report was submitted on December 4, 2007. We respectfully request NMOCD approval in writina.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of this 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

over time	
chemistry	
Table 1: c	

Jet. E-32-1				Table 1	: chemis	Table 1: chemistry over time	ne			
Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	TDS (mg/L) Benzene (mg/L) Toluene (mg/L) EthylBenzene (mg/L)	Total Xylenes (mg/L) Comments	Comments
MW #1	5/17/2006	45.29	393	161	1350	<0.001	<0.001	<0.001	<0.001	
MW #1	9/19/2006	44.78	189	151	740	<0.001	<0.001	<0.001	<0.001	No
MW #1	10/5/2006	44.61	XXX	XX	XX	<0.001	<0.001	<0.001	<0.001	Naphthalene
MW #1	10/31/2006	45.63	197	120	746	<0.001	<0.001	<0.001	<0.001	Napthalene <0.001 no odor clear with some sand
MW #1	2/22/2007		119	93.2	494	XXX	XXX	XXX	XXX	
MW #1	2/22/2007	45.28	119	93.2	494	XXX	XXX	XXX	XXX	Clear with some sand No odor
MW #1	4/25/2007	45.63	94.3	75.5	528	XXX	XXX	XX	XXX	No
MW #1	7/30/2007	45.82	87.5	69.3	672	<0.001	<0.001	<0.001	<0.001	No Odor Clear Some Sand

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2007 Annual Report

505-266-5004



Analytical Report

Prepared for:

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

Project: Hobbs Jct. E-32-1

Project Number: None Given

Location: T18S-R38E-Sec. 32E Lea Co., NM

Lab Order Number: 7B22012

Report Date: 03/08/07

Project: Hobbs Jct. E-32-1

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

Project Number: None Given
Project Manager: Kristin Farris-Pope

ANALYTICAŁ REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7B22012-01	Water	02/22/07 10:10	02-22-2007 15:12

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project Number: Hobbs Jct. E-32-1 Project Number: None Given Project Manager: Kristin Farris-Pope Fax: (505) 397-1471

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B22012-01) Water									
Carbon Ranges C6-C12	ND	3.00	mg/L	0.1	EB72214	02/22/07	02/25/07	EPA 8015M	
Carbon Ranges C12-C28	ND	3.00	**	**	н	n	n	**	
Carbon Ranges C28-C35	ND	3.00		**		в	"	n	
Total Hydrocarbons	ND	3.00	,	"	H	н		n	
Surrogate: I-Chlorooctane		112%	70-	130	,,	"	,,	"	
Surrogate: 1-Chlorooctadecane		115 %	70-	130	"	"	"	"	

Project: Hobbs Jct. E-32-1

122 W. Taylor Hobbs NM, 88240 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 Monitor Well #1 (7B22012-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	256	2.00	mg/L	}	EB72805	02/28/07	02/28/07	EPA 310.1M	
Chloride	119	5.00		10	EB72801	02/28/07	02/28/07	EPA 300.0	
Total Dissolved Solids	494	10.0	**	1	EB72702	02/23/07	02/27/07	EPA 160.1	
Sulfate	93.2	5.00	и .	10	EB72801	02/28/07	02/28/07	EPA 300.0	

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: Hobbs Jct. E-32-1

Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well #1 (7B22012-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	86.0	4.05	mg/L	50	EB72310	02/23/07	02/23/07	EPA 6010B	
Magnesium	21.4	0.360	*	10	"	*	*	•	
Potassium	2.43	0.600			"		"	•	
Sodium	46.9	0.430	,	"	"		"		

122 W. Taylor Hobbs NM, 88240 Project: Hobbs Jct. E-32-1

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B22012-01) Water									
Benzene	ND	0.00100	mg/L	1	EB72704	02/27/07	02/27/07	EPA 8260B	
Toluene	ND	0.00100	n		**		**	**	
Ethylbenzene	ND	0.00100	н	*	,	,,	"	**	
Xylene (p/m)	ND	0.00100	н	**	H	"		•	
Xylene (o)	ND	0.00100			n	*	**	и	
Naphthalene	ND	0.00100	11		"	**	**	u .	
Surrogate: Dibromofluoromethane		109 %	68-12	29	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		88.0 %	72-13	32	"	n	"	n	
Surrogate: Toluene-d8		90.2 %	74-11	18	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.8 %	65-14	10	"	"	"	"	

Project: Hobbs Jct. E-32-1

Project Number: None Given

Hobbs NM, 88240 Project Manager: Kristin Farris-Pope

122 W. Taylor

Fax: (505) 397-1471

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

Anal de	p. 4.	Reporting	* T - T-	Spike	Source	0/850	%REC	pps	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72214 - Solvent Extraction (GC)										
Blank (EB72214-BLK1)				Prepared: 0)2/22/07 Aı	nalyzed: 02	2/26/07			
Carbon Ranges C6-C12	ND	3.00	mg/L							
Carbon Ranges C12-C28	ND	3.00								
Carbon Ranges C28-C35	ND	3.00	n							
Total Hydrocarbons	ND	3.00	и							
Surrogate: 1-Chlorooctane	52.2		"	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	63.5		"	50.0		127	70-130			
LCS (EB72214-BS1)				Prepared: 0)2/22/07 Aı	nalyzed: 02	/26/07			
Carbon Ranges C6-C12	56.0	30.0	mg/L	50.0		112	75-125			
Carbon Ranges C12-C28	42.3	30.0	"	50.0		84.6	75-125			
Carbon Ranges C28-C35	ND	30.0	"	0.00			75-125			
Total Hydrocarbons	98.3	30.0	•	100		98.3	75-125			
Surrogate: 1-Chlorooctane	54.4		"	50.0		109	70-130			
Surrogate: 1-Chlorooctadecane	55.3		"	50.0		111	70-130			
Calibration Check (EB72214-CCV1)				Prepared: 0)2/22/07 At	nalyzed: 02	/26/07			
Carbon Ranges C6-C12	21.7		mg/L	25.0		86.8	80-120			
Carbon Ranges C12-C28	21.6			25.0		86.4	80-120			
Carbon Ranges C28-C35	0.00		**	0.00			80-120			
Total Hydrocarbons	43.3		"	50.0		86.6	80-120			
Surrogate: 1-Chloroociane	60.9		"	50.0	*** * * *******************************	122	70-130			
Surrogate: 1-Chlorooctadecane	61.2		"	50.0		122	70-130			
Matrix Spike (EB72214-MS1)	Sou	rce: 7B22008-	20	Prepared: 0)2/22/07 Ar	nalyzed: 02	/25/07			
Carbon Ranges C6-C12	60.0	30.0	mg/L	50.0	ND	120	75-125			
Carbon Ranges C12-C28	48.9	30.0	**	50.0	ND	97.8	75-125			
Carbon Ranges C28-C35	ND	30.0	**	0.00	ND		75-125			
Total Hydrocarbons	109	30.0		100	ND	109	75-125			
Surrogate: 1-Chlorooctane	59.6		,,	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	55.7		"	50.0		111	70-130			

122 W. Taylor Hobbs NM, 88240 Project: Hobbs Jct. E-32-1

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Batch EB72214 - Solvent Extraction (GC)

Matrix Spike Dup (EB72214-MSD1)	Source	e: 7B22008-	20	Prepared: 0	2/22/07 A	nalyzed: 0	2/25/07		
Carbon Ranges C6-C12	59.5	30.0	mg/L	50.0	ND	119	75-125	0.837	20
Carbon Ranges C12-C28	49.1	30.0		50.0	ND	98.2	75-125	0.408	20
Carbon Ranges C28-C35	ND	30.0	n	0.00	ND		75-125		20
Total Hydrocarbons	109	30.0		100	ND	109	75-125	0.00	20
Surrogate: 1-Chlorooctane	60.4		,,	50.0		121	70-130		,,
Surrogate: 1-Chlorooctadecane	54.9		"	50.0		11θ	70-130		

Project: Hobbs Jct. E-32-1

122 W. Taylor

Project Number: None Given

Fax: (505) 397-1471

Hobbs NM, 88240

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 EB72702 - General Preparation (WetChem)									
Blank (EB72702-BLK1)				Prepared: ()2/23/07 A	nalyzed: 02	2/24/07			
Fotal Dissolved Solids	ND	10.0	mg/L							
Duplicate (EB72702-DUP1)	Source	e: 7B22009-	01	Prepared: (02/23/07 A	nalyzed: 02	2/24/07			
Total Dissolved Solids	364	10.0	mg/L		356			2.22	20	
Duplicate (EB72702-DUP2)	Source	e: 7B22012-	01	Prepared: ()2/23/07 A	nalyzed: 02	2/27/07			
Total Dissolved Solids	518	10.0	mg/L		494			4.74	20	
Batch EB72801 - General Preparation (WetChem)									
Blank (EB72801-BLK1)				Prepared &	: Analyzed:	02/28/07				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EB72801-BS1)				Prepared &	: Analyzed:	02/28/07				
Chloride	10.2	0.500	mg/L	10.0		102	80-120			
Sulfate	10.6	0.500	n	10.0		106	80-120			
Calibration Check (EB72801-CCV1)				Prepared &	: Analyzed:	02/28/07				
Sulfate	11.1		mg/L	10.0		111	80-120			
Chloride	10.4		"	10.0		104	80-120			
Duplicate (EB72801-DUP1)	Sourc	e: 7B22009-	01	Prepared &	: Analyzed:	02/28/07				
Sulfate	64.9	5.00	mg/L		64.3			0.929	20	
Chloride	21.6	5.00	"		22.2			2.74	20	
Duplicate (EB72801-DUP2)	Source: 7B22012-01			Prepared &	: Analyzed:	02/28/07				
Chloride	117	5.00	mg/L		119	***************************************		1.69	20	
Sulfate	92.3	5.00	**		93.2			0.970	20	

Project: Hobbs Jct. E-32-1

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

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 EB72801 - General Preparation	n (WetChem)									
Matrix Spike (EB72801-MS1)	Sour	rce: 7B22009-	01	Prepared &	. Analyzed:	02/28/07				
Chloride	134	5.00	mg/L	100	22.2	112	80-120			
Sulfate	172	5.00	"	100	64.3	108	80-120			
Matrix Spike (EB72801-MS2)	Sour	rce: 7B22012-	01	Prepared &	: Analyzed:	02/28/07				
Chloride	231	5.00	mg/L	100	119	112	80-120			
Sulfate	204	5.00	**	100	93.2	111	80-120			
Batch EB72805 - General Preparation	n (WetChem)									
Blank (EB72805-BLK1)		·		Prepared &	: Analyzed:	02/28/07				
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00	+							
Hydroxide Alkalinity	ND	0.100	*							
LCS (EB72805-BS1)				Prepared &	: Analyzed:	02/28/07				
Bicarbonate Alkalinity	172	2.00	mg/L	200		86.0	85-115			
Duplicate (EB72805-DUP1)	Sour	rce: 7B22004-	01	Prepared &	: Analyzed:	02/28/07				
Fotal Alkalinity	240	2.00	mg/L		240			0.00	20	
Carbonate Alkalinity	0.00	0.100			0.00				20	
Bicarbonate Alkalinity	240	2.00	**		240			0.00	20	
Hydroxide Alkalinity	0.00	0.100	11		0.00				20	
Reference (EB72805-SRM1)				Prepared &	: Analyzed:	02/28/07				
Fotal Alkalinity	246		mg/L	250		98.4	90-110			

Fax: (505) 397-1471

Project: Hobbs Jct. E-32-1

122 W. Taylor Hobbs NM, 88240 Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72310 - 6010B/No Digestion										
Blank (EB72310-BLK1)				Prepared &	Analyzed:	02/23/07				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	n							
Potassium	ND	0.0600	,,							
Sodium	ND	0.0430								
Calibration Check (EB72310-CCV1)				Prepared &	Analyzed:	02/23/07				
Calcium	1.93		mg/L	2.00		96.5	85-115		1.7 11.0	
Magnesium	1.88		,,	2.00		94.0	85-115			
Potassium	1.82			2.00		91.0	85-115			
Sodium	1.75		"	2.00		87.5	85-115			
Duplicate (EB72310-DUP1)	Sou	rce: 7B22004-	01	Prepared &	Analyzed:	02/23/07				
Calcium	84.4	4.05	mg/L		84.2			0.237	20	
Magnesium	142	1.80			147			3.46	20	
Potassium	22.3	0.600	"		22.8			2.22	20	
Sodium	200	2.15	"		206			2.96	20	
Batch EC70707 - 6010B/No Digestion										
Blank (EC70707-BLK1)				Prepared &	Analyzed:	03/07/07				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600								
Sodium	ND	0.0430	**							
LCS (EC70707-BS1)				Prepared &	: Analyzed:	03/07/07				
Całcium	1.00		mg/L	1.00		100	85-115			
Magnesium	1.04		**	1.00		104	85-115			
Potassium	9.88		**	10.0		98.8	85-115			
Sodium	9.92		**	11.0		90.2	85-115			

122 W. Taylor Hobbs NM, 88240

Calcium

Magnesium

Potassium

Sodium

Project: Hobbs Jct. E-32-1

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control Environmental Lab of Texas

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70707 - 6010B/No Digestion										
LCS Dup (EC70707-BSD1)				Prepared &	Analyzed:	03/07/07				
Calcium	1.01		mg/L	1.00		101	85-115	0.995	20	
Magnesium	1.05			1.00		105	85-115	0.957	20	
Potassium	9.97		"	10.0		99.7	85-115	0.907	20	
Sodium	10.0			11.0		90.9	85-115	0.803	20	
Matrix Spike (EC70707-MS1)	Source	e: 7C01014-	01RE1	Prepared &	: Analyzed:	03/07/07				
Calcium	118		mg/L	2.00	116	100	75-125			
Magnesium	50.7		"	2.00	47.1	180	75-125			М
Potassium	42.8		"	20.0	14.3	142	75-125			М
Sodium	317		"	22.0	235	373	75-125			М
Matrix Spike Dup (EC70707-MSD1)	Source	e: 7C01014-	01RE1	Prepared &	: Analyzed:	03/07/07				

mg/L

2.00

2.00

20.0

22.0

116

47.1

14.3

235

240

143

395

75-125

75-125

75-125

75-125

4.15

2.34

0.233

1.56

20

20

20

20

Μl

ΜI

ΜI

M1

123

51.9

42.9

322

Project: Hobbs Jct. E-32-1

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB72704 - EPA 5030C (GCMS)										
Blank (EB72704-BLK1)				Prepared &	: Analyzed:	02/27/07				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	"							
Naphthalene	ND	0.00100	u							
Surrogate: Dibromofluoromethane	46.4		ug/l	50.0	····	92.8	68-129			
Surrogate: 1,2-Dichloroethane-d4	36.6		,,	50.0		73.2	72-132			
Surrogate: Toluene-d8	44.6		"	50.0		89.2	74-118			
Surrogate: 4-Bromofluorobenzene	48.3		"	50.0		96.6	65-140			
LCS (EB72704-BS1)				Prepared &	: Analyzed:	02/27/07				
Benzene	0.0286	0.00100	mg/L	0.0250		114	70-130			
Toluene	0.0260	0.00100	*	0.0250		104	70-130			
Ethylbenzene	0.0250	0.00100	**	0.0250		100	70-130			
Xylene (p/m)	0.0495	0.00100		0.0500		99.0	70-130			
Xylene (0)	0.0259	0.00100	"	0.0250		104	70-130			
Naphthalene	0.0204	0.00100		0.0250		81.6	70-130			
Surrogate: Dibromofluoromethane	50.1		ug/l	50.0		100	68-129			
Surrogate: 1,2-Dichloroethane-d4	43.1		"	50.0		86.2	72-132			
Surrogate: Toluene-d8	47.6		"	50.0		95.2	74-118			
Surrogate: 4-Bromofluorobenzene	51.9		"	50.0		104	65-140			
Calibration Check (EB72704-CCV1)				Prepared &	. Analyzed:	02/27/07				
Toluene	46.4		ug/l	50.0		92.8	70-130			
Ethylbenzene	45.3		,,	50,0		90.6	70-130			

50.0

50.0

50.0

50.0

50.6

38.5

43.7

48.9

Surrogate: Dibromofluoromethane

Surrogate: 1,2-Dichloroethane-d4

Surrogate: 4-Bromofluorobenzene

Surrogate: Toluene-d8

101

77.0

87.4

97.8

68-129

72-132

74-118

65-140

Project: Hobbs Jct. E-32-1

122 W. Taylor Hobbs NM, 88240

Project Number: None Given Project Manager: .Kristin Farris-Pope Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B - Quality Control **Environmental Lab of Texas**

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

Batch	EB72704 -	EPA	5030C	(GCMS)

Matrix Spike (EB72704-MS1)	Sou	rce: 7B22012-	01	Prepared: 0	2/27/07 A	Analyzed: 02	2/28/07			
Benzene	0.0215	0.00100	mg/L	0.0250	ND	86.0	70-130			
Toluene	0.0233	0.00100	**	0.0250	ND	93.2	70-130			
Ethylbenzene	0.0260	0.00100		0.0250	ND	104	70-130			
Xylene (p/m)	0.0502	0.00100		0.0500	ND	100	70-130			
Xylene (o)	0.0250	0.00100	н	0.0250	ND	100	70-130			
Naphthalene	0.0187	0.00100	*	0.0250	ND	74.8	70-130			
Surrogate: Dibromofluoromethane	51.1		ug/l	50.0		102	68-129			
Surrogate: 1,2-Dichloroethane-d4	41.8		"	50.0		83.6	72-132			
Surrogate: Toluene-d8	42.1		"	50.0		84.2	74-118			
Surrogate: 4-Bromofluorohenzene	46.9		"	50.0		93.8	65-140			
Matrix Spike Dup (EB72704-MSD1)	Sour	rce: 7B22012-	01	Prepared: 0	2/27/07 /	Analyzed: 02	2/28/07			
Benzene	0.0180	0.00100	mg/L	0.0250	ND	72.0	70-130	17.7	20	
Toluene	0.0182	0.00100	н	0.0250	ND	72.8	70-130	24.6	20	R
Ethylbenzene	0.0245	0.00100	u	0.0250	ND	98.0	70-130	5.94	20	
Xylene (p/m)	0.0484	0.00100	•	0.0500	ND	96.8	70-130	3.65	20	
Xylene (o)	0.0263	0.00100	n	0.0250	ND	105	70-130	5.07	20	
Naphthalene	0.0231	0.00100	11	0.0250	ND	92.4	70-130	21.1	20	R
Surrogate: Dibromofluoromethane	53.5		ug/l	50.0		107	68-129			
Surrogate: 1,2-Dichloroethane-d4	40.3		"	50.0		80.6	72-132			
Surrogate: Toluene-d8	35.7		"	50.0		71.4	74-118			S-04
Surrogate: 4-Bromofluorobenzene	40.5		"	50.0		81.0	65-140			

Rice Operating Co.

Project: Hobbs Jct. E-32-1

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
MI	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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

	Bur Buron		
Report Approved By:		Date:	3/8/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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.

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A. Section

NATURE NATURE

VICOUNCUL	/ronmental lad of lexas	CHAIN OF CUSTO	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
		12600 West I-20 East Odessa, Texas 79765	Phone: 432-563-1800 Fax: 432-563-1713
Project Manager:	Kristin Farris Pope kpope@riceswd.com		Project Name: Hobbs Junction E-32-1
Company Name	RICE Operating Company		Project #:
Company Address:	Company Address: 122 W. Taylor Street		Project Loc: T18S R38E Sec32 E ~ Lea County New Mexico
City/State/Zip:	Hobbs, New Mexico 88240		PO #:
Telephone No:	(505) 393-9174 Fax No:	(505) 397-1471	Report Format: X Standard TRRP NPDES
Sampler Signature:	Sampler Signature: Rozanne Johnson (505)631-9310	<u>rozanne@valornet.com</u>	

Sampler Signature: Rozanne Johnson (505)631-9310	nne Johnson (505)63	1-9310		e-mail:	드비	Zar	<u>rozanne@valornet.com</u>	Š Š	orne	8	ξĺ		L.	١		١		1			١	ı	İ	Ī	Γ	
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(lab use only)		`												i		H	TCLP			_						
とうののなって)	>										L.,			10	TOTAL	×							\$II	
ORDER #: 1 1/1/ UL						Ц	Prese	Preservation & & of Containers	€ of Con	tainers		Matrix	1	991				90	-	09					137.1	- 1
AB # (lab use only)	30	diqəO priinnipə8	Ending Depth Bate Sampled	bəlqms2 əmiT	Fig. 6 Filtered Filtered Fotal #. of Containers	90	HAO ³	HCl (2) 40 ml glass vials H ₂ SO ₄	НОвИ	Na ₂ S ₂ S ₃ None (1) 1 Liter HDPE	Other (Specify)	WW-Drinking Water SL-Swidge WW = Groundwarer S-Swilfolid	isdiO yiiosq2 sldsto9-noW=9U	TPH: TX 1006 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Ct, SO4, Aikalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg :	Semivolatiles	BTEX 80218/5030 or BTEX 826	всі	M.O.R.M.	Total Dissolved Solids		RUSH TAT (Pre-Schedule) 24, 49	TAT bisbrist
Monitor Well #1			2/22/2007	0:10	1	× e		2		1		10		-	×	×			×				×			$ \times $
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Special Instructions:	000000000000000000000000000000000000000		wershire.	wfranko @riana	1	1000	mos terrolome Com	100	to to	2					Lat	Laboratory Comments:	ory (Com	men	ts:			3		Z	- 30
	jpurvis@riceswd.com	E GO	matt@riceswd.com	wd.com	=		<u>\$</u>)	5	3						5 8	VOCs Free of Headspace?	0 99	T	adsb	ace?)(s)		z	
Relinquished by	Date	Time	Received by:								Date	<u></u>	_	Time	ig S	Labels on container(s) Custody seals on container(s)	n co seal	ntain s on	er(s)	aine	ୂତ		5/6)) Z z	(8%)
Rozanne Johnson	しゅんでは	(1) (2)								_					õ	Custody seals on cooler(s)	seal	s on	000	er(3)		R	KO 	2	2	X.,
Relinquished by:	Date	Тіте	Received by:								Date	e)	⊢ 	E E	Sa	Sample Hand Delivered bx Sample/Client Rep.? by Couner? UPS		200 200 200 200 200 200 200 200 200 200	iver ent F	ered nt Rep.`` UPS	ై품		≯≻ñ	(Y N Y N FedEx Lone Star	S Z Z Sia	
Relinquished by:	Date	Time	Received by ELOT	LOT						\vdash	Date	e)		Time		Temnerature Unon Receint	atrice	1	ď	Cier		٠. :		. 1	Ç	
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: QUE DD.		-		
Date/ Time: 2/22/07 15:12				
Lab ID#: 11 B22012				
Initials:				
Timulo.				
Sample Receipt	Checklist			
			Client Initia	ls ¬
#1 Temperature of container/ cooler?	Yes	No.	',2 °C	_
#2 Shipping container in good condition?	(Yes)	No.		_
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	4
#4 Custody Seals intact on sample bottles/ container?	Xes	No	Not Present	4
#5 Chain of Custody present?) XES	No		_
#6 Sample instructions complete of Chain of Custody?	À '€ 8	No		
#7 Chain of Custody signed when relinquished/ received?	Yes	No		_
#8 Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	7es	No		
#11 Containers supplied by ELOT?	Yes	No		
#12 Samples in proper container/ bottle?	(YES	No	See Below	
#13 Samples properly preserved?	(Yes	No	See Below	7
#14 Sample bottles intact?	() es	No		_
#15 Preservations documented on Chain of Custody?	Yes	No		
#16 Containers documented on Chain of Custody?	Xes-	No		┪
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	7
#18 All samples received within sufficient hold time?	//es)	No	See Below	\neg
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	~
#20 VOC samples have zero headspace?	Yes)	No	Not Applicable	\dashv
			Trees photosis	_
Variance Docu	mentation			
Contact: Contacted by:			Date/ Time:	
		-		
Regarding:				
			41.	
Corrective Action Taken:				
NAME OF TAXABLE PARTY O				
Check all that Apply: See attached e-mail/ fax				
Client understands and wou				
Cooling process had begun	shortly after	sampling	j event	



Analytical Report

Prepared for:

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

Project: Hobbs Jct. E-32-1

Project Number: None Given

Location: T18S R38E Sec32 E ~ Lea County New Mexico

Lab Order Number: 7D26010

Report Date: 05/07/07

Project: Hobbs Jct. E-32-1

122 W. Taylor

Project Number: None Given

Fax: (505) 397-1471

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7D26010-01	Water	04/25/07 09:45	04-26-2007 16:25

122 W. Taylor Hobbs NM, 88240 Project: Hobbs Jct. E-32-1

Project Number: None Given

Fax: (505) 397-1471

Project Manager: Kristin Farris-Pope

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

Analyte Monitor Well # 1 (7D26010-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	242	2.00	mg/L	ī	ED73002	04/30/07	04/30/07	EPA 310.1M	
Chloride	94.3	5.00	"	10	EE70307	05/03/07	05/03/07	EPA 300.0	
Total Dissolved Solids	528	10.0	"	1	EE70209	04/27/07	05/02/07	EPA 160.1	
Sulfate	75.5	5.00	n	10	EE70307	05/03/07	05/03/07	EPA 300.0	

Rice Operating Co. Project: Hobbs Jct. E-32-1

122 W. TaylorProject Number:None GivenHobbs NM, 88240Project Manager:Kristin Farris-Pope

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte Monitor Well # 1 (7D26010-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	111	4.05	mg/L	50	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	24.2	0.360		10	,,	•	"	n	
Potassium	2.65	0.600		"	"		"	,	
Sodium	62.0	2.15	•	50	"	10	"	**	

Fax: (505) 397-1471

Project: Hobbs Jct. E-32-1

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given
Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D26010-01) Water				Diagion	Datell	Trepareu	7 dialyzed	Memod	Notes
Benzene	ND	0.00100	mg/L	1	ED73009	04/30/07	04/30/07	EPA 8260B	
Toluene	ND	0.00100	**	"	"	11	,,		
Ethylbenzene	ND	0.00100	"	"	11	"	"	"	
Xylene (p/m)	ND	0.00100	**	,,	**		,,		
Xylene (o)	ND	0.00100	*	**	"	*	ь	*	
Naphthalene	ND	0.00100	*	"	"	,,	н	•	
Surrogate: Dibromofluoromethane		103 %	68-12	9	"	"	"	n .	
Surrogate: 1,2-Dichloroethane-d4		84.4 %	72-13	2	"	"	"	n	
Surrogate: Toluene-d8		97.8 %	74-11	8	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.2 %	65-14	0	"	"	"	"	

Project: Hobbs Jct. E-32-1

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

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 ED73002 - General Preparation	on (WetChem)									
Blank (ED73002-BLK1)				Prepared &	. Analyzed:	04/30/07				
Total Alkalinity	ND	2.00	mg/L							
LCS (ED73002-BS1)				Prepared &	Analyzed:	04/30/07				
Total Alkalinity	0.00	2.00	mg/L				85-115			
Bicarbonate Alkalinity	180	2.00	•	200		90.0	85-115			
Duplicate (ED73002-DUP1)	Sour	ce: 7D26006-	01	Prepared &	: Analyzed:	04/30/07				
Total Alkalinity	214	2.00	mg/L		218			1.85	20	
Bicarbonate Alkalinity	0.00	2.00	**		0.00				20	
Reference (ED73002-SRM1)				Prepared &	: Analyzed:	04/30/07				
Total Alkalinity	256		mg/L	250		102	90-110			
Batch EE70209 - General Preparatio	on (WetChem)									
Blank (EE70209-BLK1)				Prepared: (04/27/07 A	nalyzed: 05	/02/07			
Total Dissolved Solids	ND	10.0	mg/L							
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EE70209-DUP1)		rce: 7 D2600 7-		Prepared: ()4/27/07 Ai	nalyzed: 05	/02/07			
				Prepared: ()4/27/07 Ai	nalyzed: 05	/02/07	2.02	20	
Duplicate (EE70209-DUP1)	Sour 1500	ce: 7D26007-	01 mg/L					2.02	20	
Duplicate (EE70209-DUP1) Total Dissolved Solids	Sour 1500	rce: 7D26007-	01 mg/L		1470			2.02	20	
Duplicate (EE70209-DUP1) Total Dissolved Solids Duplicate (EE70209-DUP2)	Sour 1500 Sour 712	rce: 7D26007- 10.0 rce: 7D26009-	01 mg/L 01		1470 04/27/07 A					
Duplicate (EE70209-DUP1) Total Dissolved Solids Duplicate (EE70209-DUP2) Total Dissolved Solids	Sour 1500 Sour 712	rce: 7D26007- 10.0 rce: 7D26009-	01 mg/L 01	Prepared: (1470 04/27/07 A	nalyzed: 05				
Duplicate (EE70209-DUP1) Total Dissolved Solids Duplicate (EE70209-DUP2) Total Dissolved Solids Batch EE70307 - General Preparatio	Sour 1500 Sour 712	rce: 7D26007- 10.0 rce: 7D26009-	01 mg/L 01	Prepared: (1470 04/27/07 At 684	nalyzed: 05				

Fax: (505) 397-1471

Project: Hobbs Jct. E-32-1

122 W. Taylor Hobbs NM, 88240 Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE70307 - General Preparation (WetChem)									
LCS (EE70307-BS1)				Prepared &	k Analyzed:	05/03/07				
Chloride	9.62	0.500	mg/L	10.0		96.2	80-120			
Sulfate	10.0	0.500	n	10.0		100	80-120			
Calibration Check (EE70307-CCV1)				Prepared &	Analyzed:	05/03/07				
Chloride	8.93		mg/L	10.0		89.3	80-120			
Sulfate	11.6		"	10.0		116	80-120			
Duplicate (EE70307-DUP1)	Source	ce: 7D26006-	01	Prepared &	Analyzed:	05/03/07				
Sulfate	342	12.5	mg/L		339			0.881	20	
Chloride	941	50.0	n		917			2.58	20	
Duplicate (EE70307-DUP2)	Source	ce: 7D26010-	01	Prepared &	Analyzed:	05/03/07				
Chloride	93.1	5.00	mg/L		94.3			1.28	20	
Sulfate	74.1	5.00	*		75.5			1.87	20	
Matrix Spike (EE70307-MS1)	Source	ce: 7D26006-	01	Prepared &	Analyzed:	05/03/07				
Sulfate	728	12.5	mg/L	250	339	156	80-120			M
Matrix Spike (EE70307-MS2)	Source	ce: 7D26010-	01	Prepared &	Analyzed:	05/03/07				
Chloride	278	5.00	mg/L	100	94.3	184	80-120			M
Sulfate	204	5.00	**	100	75.5	128	80-120			M
Matrix Spike (EE70307-MS3)	Source	ce: 7D26006-	01	Prepared &	Analyzed:	05/03/07				
Chloride	1800	50.0	mg/L	1000	917	88.3	80-120			

Project: Hobbs Jct. E-32-1

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Number: Note 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 ED/2/04 - 0010B/No Digestion
Blank (ED72704-BLK1)

Datab ED72704 (010D/No Digastion

Blank (ED72704-BLK1)				Prepared & Analyzed: 04/27/07
Calcium	ND	0.0810	mg/L	
Magnesium	ND	0.0360	10	
Potassium	ND	0.0600		

Potassium	ND	0.0600	
Sodium	ND	0.0430	"

Calibration Check (ED72704-CCV1)		Prepared & Analyzed: 04/27/07				
Calcium	2.13	mg/L	2.00	106	85-115	
Managaina	2.15	"	3.00	100	05 115	

Magnesium	2.15		2.00	108	85-115
Potassium	2.14	*	2.00	107	85-115
Sodium	1.98	n	2.00	99.0	85-115

Duplicate (ED72704-DUP1)	Source	: 7D23010-	01	Prepared & Analyzed: 04/27/07		
Calcium	44.1	0.810	mg/L	42.4	3.93	20
Magnesium	43.0	0.360		42.4	1.41	20
Potassium	22.7	0.600	19	22.1	2.68	20
Sodium	41.9	0.430	**	40.8	2.66	20

Fax: (505) 397-1471

Project: Hobbs Jct. E-32-1

122 W. Taylor Hobbs NM, 88240

Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B - Quality Control **Environmental Lab of Texas**

Prepared & Analyzed: 04/30/07 Prepared & Analyzed: 04/30/0	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Prepared & Analyzed: 04/30/07 Prepared & Analyzed: 04/30/0	Batch ED73009 - EPA 5030C (GCMS)										
Foluce	Blank (ED73009-BLK1)				Prepared &	Analyzed:	04/30/07				
Toluene	Benzene	ND	0.00100	mg/L			<u> </u>				
ND 0,00100 " ND 0,00100 ND 0,0	Toluene	ND	0.00100	-							
Naphthalene ND	Ethylbenzene	ND	0.00100	"							
ND 0.00100 "	Xylene (p/m)	ND	0.00100	n							
Surrogane: Dibromofluoromethame Surrogane: 1,2-Dichloroethame-d4 42,3 " 50,0 84,6 72-132	Xylene (o)	ND	0.00100	**							
Surrogate: 1,2-Dichloroethane-d4	Naphthalene	ND	0.00100	H							
Surrogaic: 1-10-Indirected active and a second active acti	Surrogate: Dibromofluoromethane	50.3		ug/l	50.0		101	68-129			
Naturagatic: 4-Bromofiluorobenzene 47.4 " 50.0 94.8 65-140	Surrogate: 1,2-Dichloroethane-d4	42.3		"	50.0		84.6	72-132			
Prepared & Analyzed: 04/30/07	Surrogate: Toluene-d8	48.2		"	50.0		96.4	74-118			
Benzene 0.0249 0.00100 mg/L 0.0250 99.6 70-130	Surrogate: 4-Bromofluorobenzene	47.4		"	50.0		94.8	65-140			
Toluene 0,0265 0,00100 " 0,0250 106 70-130 Ethylbenzene 0,0282 0,00100 " 0,0250 113 70-130 Nylene (p/m) 0,0570 0,00100 " 0,0500 114 70-130 Nylene (p/m) 0,0570 0,00100 " 0,0500 114 70-130 Nylene (o) 0,0289 0,00100 " 0,0250 116 70-130 Naphthalene 0,0190 0,00100 " 0,0250 76.0 70-130 Nurrogate: Dibromofluoromethane 48.3 ng/l 50.0 96.6 68-129 Nurrogate: 1,2-Dichloroethane-d4 43.7 " 50.0 87.4 72-132 Nurrogate: 1,2-Dichloroethane-d8 48.1 " 50.0 96.2 74-118 Nurrogate: 4-Bromofluorobenzene 44.1 " 50.0 88.2 65-140 Calibration Check (ED73009-CCV1) Prepared & Analyzed: 04/30/07 Foluene 48.2 ug/l 50.0 96.4 70-130 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 99.6 78.8 72-132 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 93.0 74-118	LCS (ED73009-BS1)				Prepared &	Analyzed:	04/30/07				
Ethylbenzene 0.0282 0.00100 " 0.0250 113 70-130 Nylene (p/m) 0.0570 0.00100 " 0.0500 114 70-130 Nylene (p/m) 0.0289 0.00100 " 0.0250 116 70-130 Nylene (o) 0.0289 0.00100 " 0.0250 116 70-130 Nylene (b) 0.0190 0.00100 " 0.0250 76.0 70-130 Naphthalene 0.0190 0.00100 " 0.0250 76.0 70-130 Naphthalene 148.3 187 50.0 96.6 68-129 Nurrogate: 1,2-Dichloroethane-d4 13.7 " 50.0 87.4 72-132 Nurrogate: 1,2-Dichloroethane-d4 14.1 " 50.0 96.2 74-118 Nurrogate: 4-Bromofluorobenzene 14.1 " 50.0 88.2 65-140 Nylene 14.1 " 50.0 96.4 70-130 Nylene 148.2 187 Surrogate: 1,2-Dichloroethane 148.3 " 50.0 99.6 70-130 Nurrogate: 1,2-Dichloroethane 149.8 " 50.0 99.6 70-130 Nurrogate: 1,2-Dichloroethane 147.3 " 50.0 99.6 70-130 Nurrogate: 1,2-Dichloroethane 147.3 " 50.0 99.6 70-130 Nurrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 94.6 68-129 Nurrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 93.0 74-118 Nurrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 93.0 74-118	Benzene	0.0249	0.00100	mg/L	0.0250		99.6	70-130			
Xylene (p/m)	Toluene	0.0265	0.00100	**	0.0250		106	70-130			
Naghthalene 0.0289 0.00100 0.0250 116 70-130	Ethylbenzene	0.0282	0.00100	10	0.0250		113	70-130			
Naphthalene 0.0190 0.00100 " 0.0250 76.0 70-130 Surrogate: Dibromofluoromethane 48.3 ug/l 50.0 96.6 68-129 Surrogate: 1,2-Dichloroethane-d4 43.7 " 50.0 87.4 72-132 Surrogate: Toluene-d8 48.1 " 50.0 96.2 74-118 Surrogate: 4-Bromofluorobenzene 44.1 " 50.0 88.2 65-140 Calibration Check (ED73009-CCV1) Prepared & Analyzed: 04/30/07 Foluene 48.2 ug/l 50.0 96.4 70-130 Ethylbenzene 49.8 " 50.0 99.6 70-130 Surrogate: Dibromofluoromethane 47.3 " 30.0 94.6 68-129 Surrogate: L2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Xylene (p/m)	0.0570	0.00100	"	0.0500		114	70-130			
Surrogate: Dibromofluoromethane	Xylene (o)	0.0289	0.00100	**	0.0250		116	70-130			
Surrogate: 1,2-Dichloroethane-d4 43.7 " 50.0 87.4 72-132 Surrogate: Toluene-d8 48.1 " 50.0 96.2 74-118 Surrogate: 4-Bromofluorobenzene 44.1 " 50.0 88.2 65-140 Calibration Check (ED73009-CCV1) Prepared & Analyzed: 04/30/07 Foluene 48.2 ug/l 50.0 96.4 70-130 Ethylbenzene 49.8 " 50.0 99.6 70-130 Surrogate: Dibromofluoromethane 47.3 " 50.0 94.6 68-129 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 . Surrogate: Toluene-d8 46.5 50.0 93.0 74-118	Naphthalene	0.0190	0.00100		0.0250		76.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	Surrogate: Dibromofluoromethane	48.3		ug/l	50.0		96.6	68-129			
Surrogate: 4-Bromofluorobenzene 44.1 " 50.0 88.2 65-140 Calibration Check (ED73009-CCV1) Prepared & Analyzed: 04/30/07 Foluene 48.2 ug/l 50.0 96.4 70-130 Ethylbenzene 49.8 " 50.0 99.6 70-130 Surrogate: Dibromofluoromethane 47.3 " 50.0 94.6 68-129 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Surrogate: 1,2-Dichloroethane-d4	43.7		"	50.0		87.4	72-132			
Prepared & Analyzed: 04/30/07	Surrogate: Toluene-d8	48.1		"	50.0		96.2	74-118			
Foluene 48.2 ug/l 50.0 96.4 70-130 Ethylbenzene 49.8 " 50.0 99.6 70-130 Surrogate: Dibromofluoromethane 47.3 " 50.0 94.6 68-129 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Surrogate: 4-Bromofluorobenzene	44.1		"	50.0		88.2	65-140			
Ethylbenzene 49.8 " 50.0 99.6 70-130 Surrogate: Dibromofluoromethane 47.3 " 50.0 94.6 68-129 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Calibration Check (ED73009-CCV1)				Prepared &	Analyzed:	04/30/07				
Surrogate: Dibromofluoromethane 47.3 " 50.0 94.6 68-129 Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 . Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Toluene	48.2		ug/l	50.0		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4 39.4 " 50.0 78.8 72-132 Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Ethylbenzene	49.8		"	50.0		99.6	70-130			
Surrogate: Toluene-d8 46.5 " 50.0 93.0 74-118	Surrogate: Dibromofluoromethane	47.3		"	50.0		94.6	68-129			
	Surrogate: 1,2-Dichloroethane-d4	39.4		"	50.0		78.8	72-132			
Surrogate: 4-Bromofluorobenzene 42.9 " 50.0 85.8 65-140	Surrogate: Toluene-d8	46.5		"	50.0		93.0	74-118			
	Surrogate: 4-Bromofluorobenzene	42.9		"	50.0		85.8	65-140			

Project: Hobbs Jct. E-32-1

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Volatile Organic Compounds by EPA Method 8260B - Quality Control Environmental Lab of Texas

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

Ratch	ED73009 -	FPA	5030C	(CCMS)
Datth	ヒレノ ノンリリラー	D.F.A.	30300	I G C M S I

Matrix Spike (ED73009-MS1)	Sour	rce: 7D26010-	01	Prepared &	Analyzed	: 04/30/07				
Benzene	0.0247	0.00100	mg/L	0.0250	ND	98.8	70-130			
Toluene	0.0260	0.00100	**	0.0250	ND	104	70-130			
Ethylbenzene	0.0256	0.00100		0.0250	ND	102	70-130			
Xylene (p/m)	0.0514	0.00100	n	0.0500	ND	103	70-130			
Xylene (o)	0.0262	0.00100	•	0.0250	ND	105	70-130			
Naphthalene	0.0148	0.00100	-	0.0250	ND	59.2	70-130			M8
Surrogate: Dibromofluoromethane	48.6		ng/I	50.0		97.2	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.8		"	50.0		85.6	72-132			
Surrogate: Toluene-d8	47.8		"	50.0		95.6	74-118			
Surrogate: 4-Bromofluorobenzene	43.0		"	50.0		86.0	65-140			
Matrix Spike Dup (ED73009-MSD1)	Sour	rce: 7D26010-	01	Prepared &	Analyzed:	04/30/07				
Benzene	0.0250	0.00100	mg/L	0.0250	ND	100	70-130	1.21	20	
Toluene	0.0264	0.00100	**	0.0250	ND	106	70-130	1.90	20	
Ethylbenzene	0.0262	0.00100		0.0250	ND	105	70-130	2.90	20	
Xylene (p/m)	0.0528	0.00100		0.0500	ND	106	70-130	2.87	20	
Xylene (o)	0.0270	0.00100	•	0.0250	ND	108	70-130	2.82	20	
Naphthalene	0.0169	0.00100		0.0250	ND	67.6	70-130	13.2	20	M8
Surrogate: Dibromofluoromethane	50.1		ug/l	50.0	, , , , , , , , , , , , , , , , , , ,	100	68-129			
Surrogate: 1,2-Dichloroethane-d4	42.9		n	50.0		85.8	72-132			
Surrogate: Toluene-d8	48,5		,,	50.0		97.0	74-118			

43.9

Surrogate: 4-Bromofluorobenzene

65-140

Fax: (505) 397-1471

Rice Operating Co.	Project:	Hobbs Jct. E-32-1	Fax: (505) 397-1471
122 W. Taylor	Project Number:	None Given	
Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	

Notes and Definitions

M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
МІ	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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

	Buttan		
Report Approved By:		Date:	5/7/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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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.

Page 10 of 10

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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Carlle S

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A. Salaha

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

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Hobbs Junction E-32-1				TRARP		<u>_</u>	T	09	* BTEX 820	© 0608/81208						7		1	╅	. s s	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	٥,	描
<u>Ē</u>		32 E				Analyze For	T			səlgejo	vime2		-						1	Laboratory Comments: Sample Containers Intach? VOCs Free of Headspace?	S E S	Sample Hand Delivered by Sampler/Client-Rap. by Courier? UPS	Temperature Upon Receipt:
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Kristin Farris Pope	RICE Operating Company	122 W. Taylor Street	Hobbs, New Mexico 88240	(505) 393-9174	Rozanne Johnson (505)631-9310			0	ک		FELD CODE					Bildistanskings (de parameter de parameter	***************************************	***************************************	***************************************			Per	
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Project Manager:	Company Name	Company Address:	City/State/Zip:	Telephone No.	Sampler Signature:			200	1.7			Monitor Well #						**************************************		ions:	M	2	
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Olient:	Rice				
Date/ Time:	4-76-07 4:25				
u Lab ID # ;	1076010				
nitials:	al				
	Sample F	 Receipt Checklist		CI	ient Initials
‡1 Tempera	ature of container/ cooler?	Yes	No	1.0 °C	
- construction of the first of	container in good condition?	₹e)	No		
~~~ <del>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</del>	Seals intact on shipping container/ cooler?		No	Not Present	<del></del>
<del></del>	Seals intact on sample bottles/ container?	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	No	Not Present	
A manufacture of the second of	Custody present?	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	No		
	instructions complete of Chain of Custody?	<del>en anne en la come de /del>	No	•	
	Custody signed when relinquished/ receive		No	<b></b>	·····
#8 Chain of	Custody agrees with sample label(s)?	(Yes	No	ID written on Cont./ Lid	****
#9 Contains	er label(s) legible and intact?	₹ Keş	No No	Not Applicable	
	matrix/ properties agree with Chain of Cus	ni estreaction escoli accosite escociacio escociacio escociacio di concentra con inflicia i introduci di incorce concesso con con con con con con con con con co	No		
***************************************	ers supplied by ELOT?	Yes	No	***************************************	***************************************
**************************************	s in proper container/ bottle?	<u> </u>	No	See Below	
	s properly preserved?	<u> </u>	No	See Below	·····
#14 Sample	bottles intact?		No	000 0000	
~~** <del>*********************************</del>	vations documented on Chain of Custody?	প্রে	No		
	ers documented on Chain of Custody?	र्रिक्ड	No		······
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	nt sample amount for indicated test(s)?	े ऐंड र	No	See Below	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ples received within sufficient hold time?	र्वेहर्षे रिहेर्ड	No	See Below	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	tract of sample(s)?	Yes	No	CNot Applicables	·····
······	amples have zero headspace?		No No		
TATA ACC 20	imples have zero headspace?		1	Not Applicable	
Contact:	Variance	e Documentation			
Contact:	Contacted by:		····	Date/ Time:	
Regarding:		And the state of t		ar of the second se	
Corrective Ad	ction Taken:				
Check all tha	Client understands	il/ fax and would like to pro d begun shortly after		-	

Analytical Report 287157

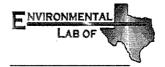
for

Rice Operating Co.

Project Manager: Kristin Pope

Hobbs Junction E-32-1

13-AUG-07



12600 West I-20 East Odessa, Texas 79765

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NELAC certification numbers: Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

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13-AUG-07

Project Manager: Kristin Pope Rice Operating Co. 122 West Taylor Hobbs, NM 88240

Reference: XENCO Report No: 287157 **Hobbs Junction E-32-1**

Project Address:T18S R38E Sec32 E ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number287157. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report N287157 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Brent Barron

Respectfull

Odessa Laboratory Director

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Certificate of Analysis Summary 287157 Rice Operating Co., Hobbs, NM



Project Name: Hobbs Junction E-32-1

Project Id:

Date Received in Lab Aug-02-07 12:50 pm

Contact: Kristin Pope

Project Location: T18S R38E Sec32 E ~ Lea County New M

Report Date:

13-AUG-07

Project Manager:

Brent Barron, II

	Lab Id:	287157-0	01		
Analysis Requested	Field Id:	Monitor Wel	1 # 1		
	Depth:				
	Matrix:	WATER	₹		
	Sampled:	Jul-30-07 0	7:55		
Alkalinity by EPA 310.1	Extracted:				
7 Authority by 131 74 310.1	Analyzed:	Aug-07-07	13:00		
	Units/RL:	mg/L	RL		
Alkalinity, Total (as CaCO3)		290	4.00		
Inorganic Anions by EPA 300	Extracted:				
	Analyzed:	Aug-07-07	11:48		
	Units/RL:	mg/L	RL		
Chloride		87.5	5.00		
Sulfate		69.3	5.00		
Metals per ICP by SW846 6010B	Extracted:				
Michael per let by a word color	Analyzed:	Aug-03-07	14:39		
	Units/RL:	mg/L	RL		
Calcium		132	0.100		
Magnesium		25.8	0.010		
Potassium		3.38	0.500		
Sodium		43.9	0.500		
Residue, Filterable (TDS) by EPA	Extracted:				
160.1	Analyzed:	Aug-06-07	16:20		
	Units/RL:	mg/L	RL		
Total dissolved solids		672	5.00		
VOAs by SW-846 8260B	Extracted:	Aug-04-07 1	17:00		
VOIS by SW 010 0200D	Analyzed:	Aug-05-07 I	19:56		
·	Units/RL:	ug/L	RL		
Benzene		ND	1.00		
Ethylbenzene		ND	1.00		
Naphthalene		ND	1.00		
Toluene		ND	1.00		
o-Xylene		ND	1.00		
m,p-Xylenes		ND	1.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Odessa Laboratory Director

XENCO Laboratories

Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix/chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte.

 The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.

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Form 2 - Surrogate Recoveries



Project Name: Hobbs Junction E-32-1

Work Order #: 287157

Project ID:

Lab Batch #: 701795

Sample: 286528-001 S / MS

Batch:

Matrix: Water

Units: mg/L	SU	RROGATE F	RECOVERY	STUDY	
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits % R	Flags
Analytes			[D]		
4-Bromofluorobenzene	0.0436	0.0500	87	86-115	
Dibromofluoromethane	0.0480	0.0500	96	86-118	************
1,2-Dichloroethane-D4	0.0409	0.0500	82	80-120	
Toluene-D8	0.0468	0.0500	94	88-110	

Lab Batch #: 701795

Sample: 286528-001 SD / MSD

Batch:

Matrix: Water

Units: mg/L	SURROGATE RECOVERY STUDY										
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits % R	Flags						
Analytes			[D]								
4-Bromofluorobenzene	0.0423	0.0500	85	86-115	*						
Dibromofluoromethane	0.0501	0.0500	100	86-118							
1,2-Dichloroethane-D4	0.0412	0.0500	82	80-120							
Tolucne-D8	0.0481	0.0500	96	88-110							

Lab Batch #: 701795

Sample: 287157-001 / SMP

Batch:

Matrix: Water

Units: ug/L	SU	RROGATE F	RECOVERY	STUDY	
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
4-Bromofluorobenzene	45.98	50.00	92	86-115	
Dibromofluoromethane	53.79	50.00	108	86-118	
1,2-Dichloroethane-D4	41.05	50.00	82	80-120	······································
Toluene-D8	47.37	50.00	95	88-110	

Lab Batch #: 701795

Sample: 497846-1-BKS / BKS

Batch:

Matrix: Water

Units: ug/L	SU	SURROGATE RECOVERY STUDY									
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits % R	Flags						
Analytes			[D]								
4-Bromofluorobenzene	43.28	50.00	87	86-115							
Dibromofluoromethane	45.30	50.00	91	86-118							
1,2-Dichloroethane-D4	37.94	50.00	76	80-120	*						
Toluene-D8	46.36	50.00	93	88-110							

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

^{***} Poor recoveries due to dilution



Form 2 - Surrogate Recoveries



Project Name: Hobbs Junction E-32-1

Work Order #: 287157 Project ID:

Lab Batch #: 701795 Sample: 497846-1-BLK / BLK Batch: 1 Matrix: Water

Units: ug/L	SURROGATE RECOVERY STUDY									
VOAs by SW-846 8260B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
Analytes			[D]							
4-Bromofluorobenzene	47.54	50.00	95	86-115						
Dibromofluoromethane	48.11	50.00	96	86-118						
1,2-Dichloroethane-D4	38.00	50.00	76	80-120	*					
Toluene-D8	46.20	50.00	92	88-110						

All results are based on MDL and validated for QC purposes.

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution Surrogate Recovery [D] = 100 * A / B



Alkalinity, Total (as CaCO3)

Blank Spike Recovery



Project Name: Hobbs Junction E-32-1

Work Order #: 287157 Project ID:

Lab Batch #: 701789 Sample: 701789-1-BKS Matrix: Water **Date Prepared:** 08/07/2007 **Date Analyzed:** 08/07/2007 Analyst: WRU

Reporting Units: mg/L BLANK /BLANK SPIKE RECOVERY STUDY Batch #: Blank Spike Blank Control Alkalinity by EPA 310.1 Result Added Spike Limits Spike Flags [A] [B] Result %R %R **Analytes** [D] [C] 194

ND

200

97

80-120

Lab Batch #: 701864 Sample: 701864-1-BKS Matrix: Water **Date Analyzed:** 08/07/2007 **Date Prepared:** 08/07/2007 Analyst: IRO

Reporting Units: mg/L Batch #: BLANK /BLANK SPIKE RECOVERY STUDY Blank Spike Blank Blank Control **Inorganic Anions by EPA 300** Result Added Spike Limits Spike Flags [A] [B] Result %R %R **Analytes** [D] [C] ND Chloride 10.0 9.03 90 90-110 ND 10.0 9.63 90-110 Sulfate 96

Lab Batch #: 701571 Sample: 701571-1-BKS Matrix: Water **Date Analyzed:** 08/03/2007 **Date Prepared:** 08/03/2007 Analyst: LATCOR

Reporting Units: mg/L Batch #: BLANK /BLANK SPIKE RECOVERY STUDY Blank Blank Spike Blank Control Metals per ICP by SW846 6010B Result Added Spike Spike Limits Flags [B] Result [A] %R % R **Analytes** [D][C] 2.00 1.83 Calcium ND 92 75-125 Magnesium ND 2.00 2.08 104 75-125 ND Potassium 2.00 2.28 114 75-125 Sodium ND 2.00 1.94 75-125

Lab Batch #: 701795 Sample: 497846-1-BKS Matrix: Water **Date Analyzed:** 08/05/2007 **Date Prepared:** 08/04/2007 Analyst: CELKEE

Reporting Units: ug/L Batch #: BLANK /BLANK SPIKE RECOVERY STUDY Blank Spike Blank Blank Control VOAs by SW-846 8260B Result Added Spike Spike Limits Flags Result [B] %R [A] % R **Analytes [C]** [D] Benzene ND 25.0 24.0 96 66-142 Ethylbenzene ND 25.0 26.4 106 75-125 Toluene ND 25.0 24.3 97 59-139 o-Xylene ND 25.0 26.7 107 75-125 ND 50.0 53.2 106 75-125 m,p-Xylenes

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries



Project Name: Hobbs Junction E-32-1

Work Order #: 287157 Lab Batch #: 701864

Project ID:

Date Analyzed: 08/07/2007

Date Prepared: 08/07/2007 Analyst: IRO

QC-Sample ID: 287159-003 S

Batch #:

Matrix: Water

eporting	Units:	mg/L
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Reporting Units: mg/L	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	548	250	862	126	90-110	Х

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)
All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Hobbs Junction E-32-1



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Work Order # 287157

Lab Batch ID: 701795

Date Analyzed: 08/05/2007

Reporting Units: mg/L

QC-Sample ID: 286528-001 S **Date Prepared:** 08/04/2007

Batch #:

Analyst:

l Matrix: Water CELKEE

Project ID:

Reporting Units: mg/L		W	ATRIX SPIKE	/MATF	IX SPIK	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E RECO	VERY S	STUDY		
VOAs by SW-846 8260B	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Kesuit [A]	Added [B]	<u>.</u>	<u>*</u> <u>©</u>	Added [E]	Result [F]	<u></u>	%	% X	%RPD	
Benzene	QN	0.025	0.024	96	0.025	0.025	100	4	66-142	21	
Ethylbenzene	ND	0.025	0.027	108	0.025	0.026	104	4	75-125	20	:
Tolucne	ND	0.025	0.025	100	0.025	0.026	104	4	59-139	21	
o-Xylene	ND	0.025	0.027	108	0.025	0.027	108	0	75-125	20	
m,p-Xylcncs	ND	0.050	0.053	901	0.050	0.052	104	2	75-125	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference RPD = 200*(D-G)/(D+G)

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit. B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Hobbs Junction E-32-1

Work Order #: 287157

Lab Batch #: 701789 **Date Analyzed:** 08/07/2007 Project ID:

Date Prepared: 08/07/2007

Analyst: WRU

QC-Sample 1D: 287122-001 D

Batch #:

Matrix: Water

Reporting Units: mg/L SAMPLE / SAMPLE DUPLICATE RECOVERY Sample Control Parent Sample Alkalinity by EPA 310.1 RPD Duplicate Limits Result Flag Result %RPD [A] [B] Analyte Alkalinity, Total (as CaCO3) 216 216 20

Lab Batch #: 701571

Date Analyzed: 08/03/2007

Date Prepared: 08/03/2007 Analyst: LATCOR

QC-Sample ID: 287179-001 D

Batch #:

Matrix: Water

Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Metals per ICP by SW846 6010B Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	301	285	5	25	1
Magnesium	120	134	11	25	
Potassium	20.1	15.8	24	25	
Sodium	284	265	7	25	

Lab Batch #: 701790

Date Analyzed: 08/06/2007 QC-Sample ID: 287122-001 D **Date Prepared:**

08/06/2007

Analyst: IRO

Reporting Units: mg/l

Batch #:

1

Matrix: Water

Reporting Units: mg/L	SAMPLE /	SAMPLE .	DUPLIC	ATE REC	OVERY
Residue, Filterable (TDS) by EPA 160.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte		(~)			
Total dissolved solids	754	784	4	30	

Lab Batch #: 701790

Date Analyzed: 08/06/2007

Date Prepared:

08/06/2007

Analyst: IRO

QC- Sample ID: 287348-002 D

Batch #:

Matrix: Water

Reporting Units: mg/L	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Residue, Filterable (TDS) by EPA 160.1 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids	6250	6290	1	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

Phone: 432-563-1800 Fax: 432-563-1713 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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Project Loc: T18S R38E Sec32 E ~ Lea County New Mexico □ NPDES TRRP Project Name: Hobbs Junction E-32-1 Report Format: X Standard Project #: rozanne@valornet.com Odessa, Texas 79765 (505) 397-1471 Fax No: e-mail: kpope@riceswd.com Hobbs, New Mexico 88240 RICE Operating Company Sampler Signature: Rozanne Johnson (505)631-9310 Company Address: 122 W. Taylor Street Kristin Farris Pope (505) 393-9174 Project Manager: Company Name Telephone No: City/State/Zip:

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

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Date/ Time:	8.2.07 12:50			
Lab ID#:	187157			
Initials:				
	Sample Receipt	Checklist		
#1 Tempera	ature of container/ cooler?	T 12-5-1	 -	Client Initials
	container in good condition?	Yes	No	1,5 °C
	Seals intact on shipping container/ cooler?	Yes	No	
	Seals intact on sample bottles/ container?	Yes	No_	Not Present
5 Chain of	Custody present?	Yes	No	Not Present
	instructions complete of Chain of Custody?	Yes	No	
#7 Chain of	Custody signed when a line side at /	Yes)	No	
#8 Chain of	Custody signed when relinquished/ received?	Yes	No	
	Custody agrees with sample label(s)?	Yes)	No	ID written on Cont./ Lid
	er label(s) legible and intact?	Yes	No	Not Applicable
Sample	matrix/ properties agree with Chain of Custody?	¥es⊃	No	
	ers supplied by ELOT?	Yes	_No	
12 Samples	s in proper container/ bottle?	Yes	No	See Below
	s properly preserved?	XES>	No	See Below
	bottles intact?	Xes	No	350 2010
15 Preserva	ations documented on Chain of Custody?	Yes	No	
16 Containe	ers documented on Chain of Custody?	Yes	No	
17 Sufficier	nt sample amount for indicated test(s)?	Yes)	No	See Below
18 All samp	ples received within sufficient hold time?	Yes	No	See Below
19 Subcont	tract of sample(s)?	Yes	No	
20 VOC sai	mples have zero headspace?	Yes	No	Not Applicable
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