# 1R - 427-91

# REPORTS

# DATE:

2-16-07

# 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

Jct. E-5 (Marathon Barber), Sec 05, T20S, R37E, Unit "E"

NMOCD Case #: 1R0427-91

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the Jct. E-5 (Marathon Barber) site located in the EME 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 Final Closure Report will be submitted to NMOCD by June 18, 2007.

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

Sincerely,

R.T. Hicks Consultants, Ltd.

Randall T. Hicks

Principal

Copy: Hobbs NMOCD office; Rice Operating Company

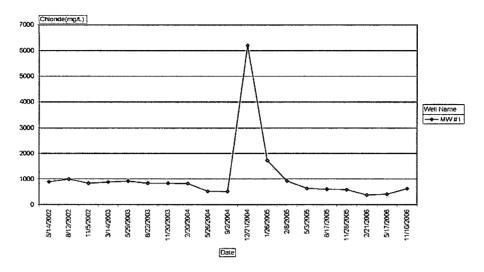
MM FEB 16 AN 9 F

Table 1: chemistry over time

	Comments	Sandy w/słow infiltration	Clear;slow recharge								clear; slight hydrocarbon odor	tan; turbid; new sampler					clear/ no odor	Septic Odor/ Clear changing to Gray		Septic odor / clear changing to Gray in Color
	Total Xylenes (ug/L)	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	>0.006	<0.006	0.002206	<0.001	0.00886	0.00439	0.00831	<0.001	0.00241	0.01306	0.00451	[6.000779]
	EthylBenzene (ug/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	0.000464	<0.001	0.00193	0.000968	0.00171	<0.001	0.000326	<0.001	[0.000390]	0.00331
ıe	Toluene (ug/L)	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	0.00115	<0.001	0.00506	0.000515	0.00422	<0.001	0.00244	0.00473	0.00215	0.00108
Table 1: chemistry over time	Benzene (ug/L)	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	0.000249	<0.001	0.000764	0.000654	0.000762	<0.001	<0.001	<0.001	<0.001	0.0132
l: chemis	TDS (mg/L)	2300	2440	2180	2170	2270	2210	2200	2200	1657	1640	13200	3930	2280	1540	1430	1300	1250	1290	1660
Table	Sulfate (mg/L)	157	141	116	127	119	116	100	64	47	74.6	531	148	89.2	61.4	55.3	0.000873	49	50.6	53.2
	Chloride (mg/L)	988	993	833	877	913	833	833	820	520	514	6200	1730	916	635	009	582	377	412	625
ber)	DTW (ft)	40.72	40.91	41.15	41.03	41.14	41.14	41.73	41.70	40.90	40.70	30.20	35.28	35.23	35.44	XX	35.87	35.86	35.94	34.80
rathon Bar	Date	5/14/2002	8/12/2002	11/5/2002	3/14/2003	5/29/2003	8/22/2003	11/20/2003	2/20/2004	5/26/2004	9/2/2004	12/21/2004	1/26/2005	2/8/2005	5/3/2005	8/17/2005	11/28/2005	2/21/2006	5/17/2006	11/10/2006
Jct. E-5 (Marathon Barber)	Well Name	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1	MW #1

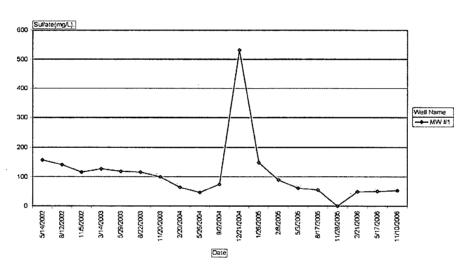
[Site Name Jct. E-5 (Marathon Barber)]

**Chloride Over Time** 



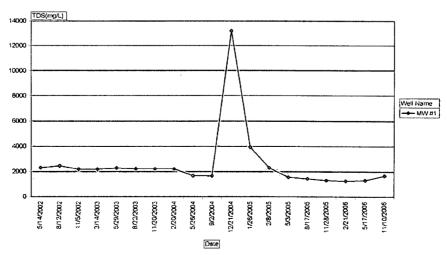
Site Name Jct. E-5 (Marathon Barber)

Sulfate Over Time

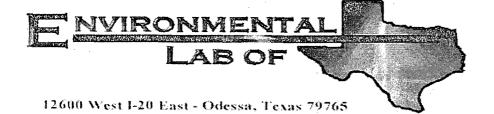


Site Name Jct. E-5 (Marathon Barber)

**TDS Over Time** 



R.T. Hicks Consultants, Ltd.



# Analytical Report

# Prepared for:

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

Project: EME Jct. E-5
Project Number: None Given
Location: Lea County

Lab Order Number: 6B23003

Report Date: 03/06/06

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Reported: 03/06/06 13:49

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6B23003-01	Water	02/21/06 08:45	02/23/06 09:45

Rice Operating Co. 122 W. Taylor Project: EME Jct. E-5

Fax: (505) 397-1471

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

**Reported:** 03/06/06 13:49

## Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	` Notes
Monitor Well #1 (6B23003-01) Water					· · · · · · · · · · · · · · · · · · ·	······································		· ·	
Benzene	ND	0.00100	mg/L	1	EB62306	02/23/06	02/24/06	EPA 8021B	
Toluene	0.00473	0.00100		"	n	n	n	**	
Ethylbenzene	ND	0.00100	"	19	,	"	**	н	
Xylene (p/m)	0.00838	0.00100	**		,,	н	10	и	
Xylene (o)	0.00468	0.00100	*1	, <b>"</b>	u	•	n	H	
Surrogate: a,a,a-Trifluorotoluene		97.2 %	80-12	0	"	"	,	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-12	0	"	"	"	"	

Project: EME Jct. E-5

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

Fax: (505) 397-1471

**Reported:** 03/06/06 13:49

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

Analyte  Monitor Well #1 (6B23003-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	450	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	377	10.0	н	20	EB62811	02/28/06	02/28/06	EPA 300.0	
Total Dissolved Solids	1250	5.00	D.	I	EB62405	02/23/06	02/24/06	EPA 160.1	
Sulfate	49.0	10.0	**	20	EB62811	02/28/06	02/28/06	EPA 300.0	

Project: EME Jct. E-5

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

Fax: (505) 397-1471

**Reported:** 03/06/06 13:49

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

Analyte  Monitor Well #1 (6B23003-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	53.8	0.100	mg/L	10	EC60207	03/02/06	03/02/06	EPA 6010B	
Magnesium	53.7	0.0100	11	**		n	**	п	
Potassium	9.64	0.500		н	н	н	н	н	
Sodium	273	0.500		50	IF	n .	"	н	

Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 03/06/06 13:49

# Organics by GC - Quality Control Environmental Lab of Texas

Analyte	D 1-	Reporting	Teste	Spike	Source	0/DEC	%REC	מממ	RPD Limit	, %T-+
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB62306 - EPA 5030C (GC)										
Blank (EB62306-BLK1)				Prepared &	Analyzed:	02/23/06	_			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"	•						
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	11							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	33.3		ug/l	40.0		83.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.5		"	40.0		88.8	80-120			
LCS (EB62306-BS1)				Prepared: 0	02/23/06 A	nalyzed: 02	2/27/06			
Benzene	0.0480	0.00100	mg/L	0.0500		96.0	80-120			
Toluene	0.0524	0.00100		0.0500	•	105	80-120			
Ethylbenzene	0.0564	0.00100	••	0.0500		113	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100		118	80-120			
Xylenc (o)	0.0577	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.5		ug/l	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	38.4		"	40.0		96.0	80-120			
Calibration Check (EB62306-CCV1)				Prepared: 0	2/23/06 A	nalyzed: 02	2/27/06			
Benzene	47.3		ug/l	50.0		94.6	80-120			
Toluene	52.9		II.	50.0	•	106	80-120			
Ethylbenzene	59.9		*	50.0		120	80-120			
Xylene (p/m)	120		"	100		120	80-120			
Xylene (o)	59.7		n	50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.5		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	47.5		"	40.0	•	119	80-120			
Matrix Spike (EB62306-MS1)	Sou	ırce; 6B23001-	01	Prepared: 0	2/23/06 A	nalyzed: 02	2/27/06			
Benzene	0.0418	0.00100	mg/L	0.0500	ND	83.6	80-120			
Toluene	0.0464	0.00100	0	0.0500	ND	92.8	80-120			
Ethylbenzene	0.0521	0.00100	0	0,0500	ND	104	80-120			
Xylene (p/m)	0.109	0.00100	"	0.100	ND	109	80-120			
Xylene (o)	0.0537	0.00100	"	0.0500	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/l	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	41.3		"	40.0		103	80-120			-

Project: EME Jct. E-5

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

Fax: (505) 397-1471

**Reported:** 03/06/06 13:49

# 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 EB62306 - EPA 5030C (GC)			-							
Matrix Spike Dup (EB62306-MSD1)	Sou	rce: 6B23001-	01	Prepared: 0	)2/23/06 A	nalyzed: 02	/27/06			
Benzene	0.0475	0.00100	mg/L	0.0500	ND	95.0	80-120	12.8	20	
Toluene	0.0524	0.00100	н	0.0500	ND	105	80-120	12.3	20	
Ethylbenzene	0.0577	0.00100	, "	0.0500	ND	115	80-120	10.0	20	
Xylene (p/m)	0.120	0.00100	,	0.100	ND	120	80-120	9.61	20	
Xylene (o)	0.0591	0.00100	n	0.0500	ND	118	80-120	9.78	20	
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/l	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	41.3		"	40.0		103	80-120			

Project: EME Jct. E-5

Fax: (505) 397-1471

122 W. Taylor

Project Number: None Given

**Reported:** 03/06/06 13:49

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 EB62205 - General Preparatio	on (WetChem)				*					
Blank (EB62205-BLK1)	·		•	Prepared &	Analyzed:	02/23/06				
Total Alkalinity	ND	2.00	mg/L		-					
LCS (EB62205-BS1)				Prepared &	Analyzed:	02/23/06			-	
Bicarbonate Alkalinity	207	2.00	mg/L	200		104	85-115	3		
Duplicate (EB62205-DUP1)	Sou	rce: 6B16004-	01	Prepared &	Analyzed:	02/23/06				
Total Alkalinity	273	2.00	mg/L		278			1.81	20	
Reference (EB62205-SRM1)				Prepared &	Analyzed:	02/23/06				
Total Alkalinity	97.0		mg/L	100	·	97.0	90-110			
Batch EB62405 - General Preparatio	n (WetChem)						4104			
Blank (EB62405-BLK1)				Prepared: (	02/23/06 Ai	nalyzed: 02	/24/06			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EB62405-DUP1)	Sou	rce: 6B17004-	01	Prepared: (	02/23/06 Ai	nalyzed: 02	/24/06			
Total Dissolved Solids	178	5.00	mg/L		178			0.00	5	-
Batch EB62811 - General Preparatio	n (WetChem)									
Blank (EB62811-BLK1)				Prepared &	Analyzed:	02/28/06	·			
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	11							
LCS (EB62811-BS1)	J			Prepared &	: Analyzed:	02/28/06				
Chloride ,	8.76	0.500	mg/L	10.0		87.6	80-120	***		
Sulfate	8.40	0.500	н	10.0		84,0	80-120			

Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:** 03/06/06 13:49

# 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 EB62811 - General Preparation	(WetChem)									
Calibration Check (EB62811-CCVI)				Prepared &	Analyzed:	02/28/06				-
Sulfate	9.25		mg/L	10.0		92.5	80-120			
Chloride	9.36		. "	10.0		93.6	80-120			
Duplicate (EB62811-DUP1)	Sour	rce: 6B23001-	-01	Prepared &	Analyzed:	02/28/06				•
Chloride	7740	100	mg/L		7510			3.02	20	
Sulfate	956	100	11		889			7.26	20	

Project: EME Jct. E-5

Fax: (505) 397-1471

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

**Reported:** 03/06/06 13:49

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

					_					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC60207 - 6010B/No Digestion										
Blank (EC60207-BLK1)		•		Prepared &	Analyzed	: 03/02/06				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	H.							
Potassium	· ND	0.0500	'ei		,					
Sodium	ND	0.0100			•					
Calibration Check (EC60207-CCVI)				Prepared &	k Analyzed	: 03/02/06				
Calcium .	2.15		mg/L	2.00		108	85-115			
Magnesium	2.20		**	2.00.		110	85-115			
Potassium	1.72		11	2.00		86.0	85-115			
Sodium	1.87		11	2.00		93.5	85-115			,
Duplicate (EC60207-DUP1)	Sou	ırce: 6B17004-	-01	Prepared &	Analyzed:	: 03/02/06		,		
Calcium	106	0,500	mg/L		102			3,85	20	
Magnesium	20.6	0.0100	•		22.2			7.48	20	
Potassium	15.4	0.500	**		15,8			2.56	20	
Sodium	91.5	0.500	* **		88.3			3.56	20	

Rice Operating Co.Project:EME Jet. E-5Fax: (505) 397-1471122 W. TaylorProject Number:None GivenReported:Hobbs NM, 88240Project Manager:Kristin Farris-Pope03/06/06 13:49

### **Notes and Definitions**

DEI	Analyte Defected
ND	Analyte NOT DETECTED at or above the reporting lim
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:	Kaland KJulus	Date:	3/6/2006
		•	

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

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

# Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Live of

の変変を

100 m

Salita St.

Water Tolk

The second

緑湯

ははず

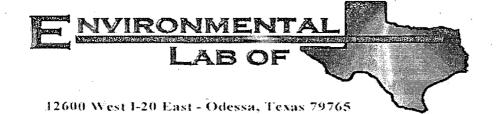
Mr. winds

· ·

estate.

			ļ				(a	chedui	2-91 <b>q)</b> TA TAT {	T H <b>ZUЯ</b> Drebnet2	×					_	_		-	-				
	İ		-		<u></u>										-		-			Z				
	1		ĺ																	]	z			
		- }																_ .	_	_@_	V L	)		
			l			<u></u>			sbitos bevi		×			_			-+	-+		4 .		ŋ		
į						-				RCI N.O.R.M.	-	_						-+		1	1 to 1		2	
-		4			Analyze For			·	0009/81	BTEX 802	×	_					-+	{		-tact		Ę.	hosen	
9		5	-		ezyle		·	· ——		idelavimeč					-	-		十		1 2	5 E E	ııme	20	
5		Lea County			.  ₹					Volatiles						寸	_	1	$\top$	igi.	ontai als: e Up	ပ္ပိ	-	
띮		의			f		80	QH 69 10	yê ge cq c	eA :elesteld										Sample Containers Intact?	Labels on container? Custody Seals: Romanass: Temperature Upon Receipt:	Laboratory Comments:	3	
<u> </u>			)			TCLP: TOTAL:				SARIESP					_	_	_	_			bels istod mpe	ğ		
Project Name: EME Jct. E-5	Project#;	Project Loa:	₽O #:						SO4, CO3				<u> </u>						-	S	<u> ಇರ</u> ್	_ <u>=</u>		
ž	ō	ec	ш,			{ } {			, sM , gM , e		×		_					}		4		Time		Time 9.45
ō Ģ	Δ,	Pro			L		900	N SOUL	L SD19M	eqe) ishlo Rib HqT							-	-	_	-		F	10:2	7.4
4							ب خ.		-(-76-7-	4io2	-						-		+-	$\dashv$	e e	-		
							Matrix			agbula					$\neg$		$\dashv$	+	+	┥.	Ö Ö	B	20	ite (360.
.   *	Į	-		1	į	į				Water	×										AS	Date	2/23/66	15 C
		-	1							Other (Sp										] ,	9		γ'.	12
		Í	1			į	[ه	<b>D</b> bE	H neti.l 1		-								_ _	4	ē)	i		
							<u>ş</u>  -		·	'Os <sup>z</sup> H							$-\downarrow$	_		╣.	nks			
	}			147	1		Preservative	SIRIA B	salç im Ot	HOUN HOU	2		_		-				<del>-  -</del>	-	<u>₹</u>	}.	الم	
				97-						HINO	-						$\dashv$		-	╣	E		1	
	-			5						lce	×						$\dashv$	+	+	┤ '	භ . ප		2	1 1
Ì	1			20					<i>e</i> renistno	No. of C	3									7	5		6	1
_	İ	-		)     			-								-		-	+	1	┤ `	Je F		73	2
				Fax No: (505) 397-1471	X	1			pəldus	se emiT	8:45										PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com			12
kpriceswd@valomet.com					*	7	>				B						ļ			1.	8		کرا	1 7
et.c			. \			V.	?									$\dashv$	$\dashv$	-	+	┨ .	Ğ ≹	1	7	5 3
E					4	. K					900					- {	- }	ļ		1	Ses	i k	James Johnson	Received by ELOT
)va						17			ımpled	s2 exe Ca	2/21/2006				1	- 1	1			-	Ž.	Received by:	195 A	
d			}		5	N	4	•			2/2				}		- (				<del></del>	eçei,	Jame	ecei)
MSE		ļ	}		6-	\	۱ 🖯	<del></del>		·····	-					-	-	-+		-   '	<u> </u>	=		[
) ii			2	,	631							-			İ		1				2	Time	00:7	2/2469 4 US
- 월	an		824	ļ	3	5														1	5	ļĒ.	3	1
}	Ë	ē	80	1	35	3									İ		- 1				ESI	-	<u></u>	79
<u>8</u>	ŏ	<u> </u>	S S	- 1	5	<u>ie</u>				낊					1	- 1	Ì	ļ			<u>0</u> 2	Date	W13-06	Date 7 2/0
, g		6	ž	174	th St	힕				ELD CODE				. }	}	- {		-	1		E	ď	1,0	5 C. C.
ĬĮ.	era	<u>a</u>	§	99	읙	Š				ELD					ļ						<b>ឃ</b> យ	-		-3
E E	ାଁ	$\leq$	S	8	E	) Luc				正	#	i			-	ļ	ļ				SS.			}
isti		22 4	용	ন্ত	bza	zan	1			:	ie i				- 1		1	}			<u>u</u>		1	2
조	<u>~</u>	17	피	: (5	<u>~</u>	Email: rozanne@valornet.com	1				Monitor Well #1			}	.	1		]		'	QL.	$\prod$	$\langle    $	men
tger:	lame	ress.	⁄Zip:	No	ture	mail	İ				Sit						1		}		,		1) (	2
₩aπ≀	A YE	Addı	state	hone	ígna	Ψ	-	ভূ.ভ <sup>.</sup> তে	98 19 S 19 S	150 S 10 S 10	100		100	- 741	1971	- 64		_	+	J ,,	·	1	[v]	S.
Project Manager: Kristin Farris Pope	Company Name RICE Operating Company	Company Address: 122 W. Taylor Street	cityistate/zip: Hobbs, New Mexico 88240	Telephone Na: (505) 393-9174	Sampler Signature: Rozanne Johnson (505) 631-9310			γ,		Ş Ş	6									Special Instructions:			M	
Proj	ပိ	фшс	J	<del>/</del>	amp				$\mathscr{S}^{\prime}$	) esn										truc		13	18/	nquished by.
	•	Ũ			ű				4,5	(ab										∃E.	/	( Bal		and Arias
										la O T AB # (latr use only)		Á	.5	4						ecia		Relinquished by	Rozanne Jonnach	Relinquished by:
							L	<u> </u>	<u> </u>	<u> </u>			-84		<u> </u>		<u> </u>	<u>- 1</u>		िक	· · · · · · · · · · · · · · · · · · ·	18/	/版	<u>~</u>
											٠.		j. t									}	h	
									· · · ·	2000 B						:.		*				-	`	` `

Environmental L	ab of T	exas	·	
Variance / Corrective Action		- v. , , , , , , , , , , , , , , , , , ,	**	In
Client: <u>RICO OP</u> ,				
Date/Time: 2/23/01/9:45				,
Order #: <u>UB23003</u>				
Initials:				
Sample Receipt	Checkli	st ·	-	
Temperature of container/cooler?	Yes	No	-2.5	
Shipping container/cooler in good condition?	YES	No	2.(.)	<del>-</del>
Custody Seals intact on shipping container/cooler?	Yes I	No	Not present	
Custody Seals intact on sample bottles?	(ES)	No	Not present	<del></del>
Chain of custody present?	YES	No	1.50 \$1552.10	<del>  </del>
Sample Instructions complete on Chain of Custody?	YES	No		
Chain of Custody signed when relinquished and received?	YES	No		<del></del>
Chain of custody agrees with sample label(s)	¥es	No		
Container labels legible and intact?	Yes	No		1
Sample Matrix and properties same as on chain of custody?	YES	No		<del></del> '
Samples in proper container/bottle?	<b>₹</b> €\$	No		<del></del>
Samples properly preserved?	(E)	No		
Sample bottles intact?	1 23s I	No		<del></del>
Preservations documented on Chain of Custody?	Y36	No	_	<del></del> -
Containers documented on Chain of Custody?	)rejs	No		<del></del> i
Sufficient sample amount for indicated test?	<b>(E)</b>	No	· ·	
All'samples received within sufficient hold time?	(E2)	No		<del>-</del>
VOC samples have zero headspace?	X2S	No	Not Applicable	
Other observations:				
Variance Docum	nentatio	n:		
Contact Person: Date/Time: Regarding:			Contacted by:	:
Corrective Action Taken:				
	·			
		····-		
	······································			



# Analytical Report

# Prepared for:

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

Project: EME Jct. E-5
Project Number: None Given
Location: Lea County

Lab Order Number: 6E18015

Report Date: 05/25/06

Rice Operating Co. 122 W. Taylor Project: EME Jct. E-5

Fax: (505) 397-1471

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

**Reported:** 05/25/06 16:14

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6E18015-01	Water	05/17/06 08:50	05/18/06 12:00

Project: EME Jct. E-5
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported: 05/25/06 16:14

# Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E18015-01) Wate	er								
Benzene	ND	0.00100	mg/L	ı	EE62101	05/21/06	05/22/06	EPA 8021B	
Toluene	0.00215	0.00100	•		11	•	п	**	
Ethylbenzene	J [0.000390]	0.00100	н	••	,,	•	**	н	-
Xylene (p/m)	0.00309	0.00100	11		и		H	••	
Xylene (o)	0.00142	0.00100	11	,,		i.	17	н	
Surrogate: a,a,a-Trifluorotoluene		119 %	80-12	20	,,	"	"	n ·	
Surrogate: 4-Bromofluorobenzene	•	83.0 %	80-12	20	,,	"	"	"	

Project: EME Jct. E-5

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

Fax: (505) 397-1471

**Reported:** 05/25/06 16:14

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

Analyte  Monitor Well #1 (6£18015-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	444	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	412	10.0	U	20	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	1290	5.00		1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	50.6	10.0	n	20	EE62205	05/22/06	05/22/06	EPA 300.0	

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Reported: 05/25/06 16:14

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E18015-01) Water									
Calcium	178	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	42.4	0.0100	,,	10	H	*	14	"	
Potassium	6.37	0.500		"	" ,	**	и	п	
Sodium	191	0.500	"	50		**	h	n	,

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Reported: 05/25/06 16:14

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

Analysis	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Onits	Level	Result	70NEC	Linns	Ki D	tymit	Notes
Batch EE62101 - EPA 5030C (GC)										
Blank (EE62101-BLK1)				Prepared &	Analyzed:	05/21/06				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	11							
Ethylbenzene	ND	0.00100	11	•						
Xylene (p/m)	ND	0.00100	и.							
Xylene (o)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	42.9		ug/l	40.0		107	80-120		`	
Surrogate: 4-Bromofluorobenzene	32.2		"	40.0		80.5	80-120			
LCS (EE62101-BS1)				Prepared &	: Analyzed:	05/21/06				
Benzene	0.0415	0.00100	mg/L	0.0500		83.0	80-120			
Γoluene	0.0421	0.00100	n	0.0500		84.2	80-120			
Ethylbenzene	0.0463	0.00100	,	0.0500		92.6	80-120			
Xylene (p/m)	0.102	0.00100	n	0.100		102	80-120			
Xylene (o)	0.0504	0.00100	u	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/l	40.0	1.1.1.1	107	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			
Calibration Check (EE62101-CCV1)				Prepared &	Analyzed	05/21/06				
Benzene	44.3		ug/l	50.0		88.6	80-120		-	
Toluene	44.3		n	50.0		88.6	80-120			
Ethylbenzene	55.3		n	50.0		111	80-120			-
Xylene (p/m)	99.1		**	100		99.1	80-120			
Xylene (o)	49.1		n	50.0		98.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.6		"	40.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	34.8		n	40.0		87.0	80-120			
Matrix Spike (EE62101-MS1)	Sou	rce: 6E17005-	01	Prepared: (	)5/21/06 A	nalyzed: 0:	5/22/06			
Benzene	0.0444	0.00100	mg/L	0.0500	ND	88.8	80-120			
Toluene	0.0454	0.00100	"	0.0500	ND	90.8	80-120			
Ethylbenzene	0.0488	0.00100	н	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.108	0.00100	**	0.100	ND	108	80-120			
Xvlene (o)	0.0531	0.00100	•	0.0500	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.5		ug/l	40.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Reported: 05/25/06 16:14

# 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 EE62101 - EPA 5030C (GC)										
Matrix Spike Dup (EE62101-MSD1)	Sou	rce: 6E17005-	01	Prepared: 0	5/21/06 A	nalyzed: 05	/22/06			
Benzene	0.0439	0.00100	mg/L	0.0500	ND	87.8	80-120	1.13	20	
Toluene	0.0447	0.00100	"	0.0500	ND	89.4	80-120	1.55	20	
Ethylbenzene	0.0481	0.00100	n	0.0500	ND	96.2	80-120	1.44	20	
Xylene (p/m)	0.107	0.00100	n	0.100	ND	107	80-120	0.930	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	1.90	20	
Surrogate: a,a,a-Trifluorotoluene	46.4		ug/l	40.0		116	80-120	· · · · · · · · · · · · · · · · · · ·		
Surrogate: 4-Bromofluorobenzene	33.4		"	40.0		83.5	80-120		^	

Rice Operating Co.
Project: EME Jct. E-5

122 W. Taylor
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:** 05/25/06 16:14

# 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 EE61919 - Filtration Preparation				·						
Blank (EE61919-BLK1)				Prepared &	: Analyzed:	05/18/06				
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EE61919-DUP1)	Sour	ce: 6E18012-	01	Prepared &	: Analyzed:	05/18/06				
Total Dissolved Solids	1420	5.00	mg/L		1470			3.46	5	
Batch EE62205 - General Preparation (V	VetChem)									
Blank (EE62205-BLK1)				Prepared &	Analyzed	05/22/06				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EE62205-BS1)				Prepared &	Analyzed:	05/22/06				
Sulfate	8.20		mg/L	10.0		82.0	80-120			
Chloride	10.1		"	10.0		101	80-120			
Calibration Check (EE62205-CCV1)				Prepared &	: Analyzed:	05/22/06				
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	9.63		n	10.0		96.3	80-120	•		,
Duplicate (EE62205-DUP1)	Sour	ce: 6E18012-	01	Prepared &	: Analyzed:	05/22/06				
Sulfate	307	10.0	mg/L		304			0.982	20	
Chloride	343	10.0	11		344			0.291	20	
Duplicate (EE62205-DUP2)	Sour	ce: 6E18015-	01	Prepared &	Analyzed:	05/22/06				
Chloride	415	10.0	mg/L		412			0.726	20	
Sulfate	50.3	10.0			50.6			0.595	20	

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Reported: 05/25/06 16:14

# 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 EE62205 - General Preparation	(WetChem)		_	·					****	
Matrix Spike (EE62205-MS1)	Sou	rce: 6E18012-	01	Prepared &	Analyzed:	05/22/06				
Chloride	565	10.0	mg/L	200	344	110	80-120			
Sulfate	465	10.0	,,	200	304	80.5	80-120			
Matrix Spike (EE62205-MS2)	Sour	rce: 6E18015-	01	Prepared &	Analyzed:	05/22/06				
Chloride	654	10.0	mg/L	200	412	121	80-120			S-0
n 14										S-0*
Sulfate	200	10.0	"	200	50.6	74.7	80-120			3-0
Sulfate Batch EE62220 - General Preparation		10.0		200	50.6	74.7	80-120	·····		3-0
		10,0			50.6 2 Analyzed:		80-120	<u></u>		5-0
Batch EE62220 - General Preparation		2.00	mg/L				80-120			5-0
Batch EE62220 - General Preparation Blauk (EE62220-BLK1)	(WetChem)		· · · · · · · · · · · · · · · · · · ·	Prepared &		05/22/06	80-120			5-0
Batch EE62220 - General Preparation Blank (EE62220-BLK1) Total Alkalinity	(WetChem)		· · · · · · · · · · · · · · · · · · ·	Prepared &	Analyzed:	05/22/06	85-115			
Batch EE62220 - General Preparation Blank (EE62220-BLK1) Total Alkalinity LCS (EE62220-BS1) Bicarbonate Alkalinity	(WetChem)  ND  214	2.00	mg/L	Prepared &	Analyzed:	05/22/06 05/22/06 107	· · · · · · · · · · · · · · · · · · ·			
Batch EE62220 - General Preparation Blank (EE62220-BLK1) Total Alkalinity LCS (EE62220-BS1) Bicarbonate Alkalinity Duplicate (EE62220-DUP1)	(WetChem)  ND  214	2.00	mg/L	Prepared &	2 Analyzed: 2 Analyzed:	05/22/06 05/22/06 107	· · · · · · · · · · · · · · · · · · ·	0.358	20	
Batch EE62220 - General Preparation Blank (EE62220-BLK1) Total Alkalinity LCS (EE62220-BS1)	(WetChem)  ND  214  South	2.00 2.00	mg/L mg/L	Prepared & Prepared & 200 Prepared &	2 Analyzed:	05/22/06 05/22/06 107 05/22/06	· · · · · · · · · · · · · · · · · · ·		20	

Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

**Reported:** 05/25/06 16:14

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

		Reporting		Spike	Source	N/DDG	%REC	n n n	RPD	<b>3.7</b> .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE61926 - 6010B/No Digestion									***	
Blank (EE61926-BLK1)				Prepared &	Analyzed:	05/19/06				
Calcium	ND	0.0100	mg/L	-				_		
Magnesium	ND	0,00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EE61926-CCV1)				Prepared &	Analyzed:	05/19/06				
Calcium	2.30		mg/L	2.00		115	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.80		**	2.00		90.0	85-115			
Sodium	18.1		n	2.00		90.5	85-115			
Duplicate (EE61926-DUP1)	Sou	rce: 6E18012-	01	Prepared &	Analyzed:	05/19/06				
Calcium	111	0.500	mg/L		111	7		0.00	20	
Magnesium	58.3	0.0100	**		56.5			3.14	20	
Potassium	12.2	0.500	_ 11		12.9			5.58	20	
Sodium .	266	0.500	u		271			1.86	20	

 Rice Operating Co.
 Project:
 EME Jet. E-5
 Fax: (505) 397-1471

 122 W. Taylor
 Project Number:
 None Given
 Reported:

 Hobbs NM, 88240
 Project Manager:
 Kristin Farris-Pope
 05/25/06 16:14

### **Notes and Definitions**

S-07 Recovery outside Laboratory historical or method prescribed 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 Duplicate Dup

	Kaland KJulus		
Report Approved By:	Karan C 110	Date:	5/25/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

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

# Environmental Lab of Texas

12600 West I-20 East Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

i Vigoria

Salar Control

を記す

神神

27.24

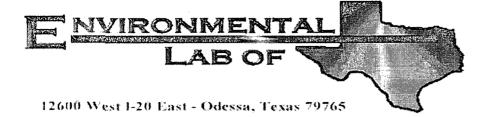
SON N

A Section

			Print of the second						M.R.O.I. Onal Dissolved Solids Onal Dissolved Solids TAT HZUS TAT HZUS	×				india		ST CON N EST COOLEY			
Project Name: EME Jct. E-5	Project #:	Project Loc: Lea County	PO #:	·		Analyze For	TOTAL: X	əç	ations (Ca, Mg, Na, K)  nnons (Cl, SO4, CO3, HCO3)  ARR / ESP / CEC  formivalstises  gemivalstises							Sample Containers Intact? Labels on container? Custody Seals: Costainers / Cobler. Température Upon Receipt: /	E Laboratory Comments	2	
Project	Pre	Proje						Matrix	None (1) 1 Liter HDPE  Other ( Specify):  Soil  Soil  Other ( Specify):	×						iceswd.com	Date Time	2-18-04 6:02	Date Time 5-78-00 / 200-
				Fex No: (505) 397-1471	0			Preservative	No. of Containers Ice INO <sub>2</sub> ICI (2) 40 ml glass vials VaOH P <sub>2</sub> SO <sub>4</sub>							kpope@riceswd.com & mfranks@riceswd.com		magn	
eswd.com				Fax No:		J. Jin	Jac 1		Dale Sampled	17/2006 8:50			1				, sixed by:	Times he	ived by ELOT: (ALOM CICK)
n Farris Pope kpope@riceswd.com	Company Name RICE Operating Company	W. Taylor Street	city/state/zip: Hobbs, New Mexico 88240	393-9174	Sampler Signature: Rozanne Johnson (505) 631-9310	Email: rozanne@valornet.com	A STATE OF THE PARTY OF THE PAR		יי פענייט פעייט פענייט פעיט פעייט פעייט פעייט פעייט פעייט פעיט פע							PLEASE Email RESULTS TO:	Date Time Rece	10:07	5/17/06 12(00 K
Project Manager: Kristin Farris Pope	Company Name RICE	Company Address: 122 W. Taylor Street	City/State/Zip: Hobb	Telephane No: (505) 393-9174	Sampler Signature: Roza	Email: FOZal	the first of the f			Monitor Well #1						Special Instructions:	Kellina isheday	Rozanne Johnson	Relinguished by:  HWANA HWANA
									وفلا	3					舊	Spec	Kella	Z 20 Z	Relin

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

nt Rice Operating Co.			
e/Time: 05-18-04 @ 1200			
er#: <u>6618015</u>		•	
Els:			
Sample Receipt	t Chacklist		
	Yes No I	1,0 C	
perature of container/cooler? pring container/cooler in good condition?	Yes No		
tody Seals intact on shipping container/cooler?	Yes No	Not present	
tody Seals intact on sample bottles?	PES) No	Not present	
in of custody present?	(Yes) No		
nple Instructions complete on Chain of Custody?	XES) NO		
in of Custody signed when relinquished and received?	res No		
in of Custody signed when reimquides in of custody agrees with sample label(s)	res No		
ntainer labels legible and intact?	(Pes) No		
nole Matrix and properties same as on chain of custody?	Yes No	1	
nales in proper container/bottle?	(Yes) No		
ngles in proper container volte.  ngles properly preserved?	(Yes No		
note bottles intact?	(Yes No		
note buttles that: servations documented on Chain of Custody?	(YES) No		
eservations documented on Chain of Custody? Intainers documented on Chain of Custody? Intainers sample amount for indicated test? Is samples received within sufficient hold time?	(Yes) No		
Figure sample amount for indicated test?	(Yes) No	1	
samples received within sufficient hold time?	(Yes) No		l
SELLIDICS LECEVACO MINIMI GALVIOLE			
OC samples have zero headspace?	(Yes) No	Not Applicable	
C samples have zero headspace?  ther observations:	(Yes) No	Not Applicable	
OC samples have zero headspace?		Not Applicable  Contacted by:	
ther observations:  Uariance Doc  ontact Person:			
ther observations:  Variance Docentact Person:			
ther observations:  Uariance Doc  ontact Person:			
ther observations:  Uariance Doc  ontact Person:			
ther observations:  Uariance Doc  ontact Person:			
ther observations:  Uariance Doc  ontact Person:			
ther observations:  Uariance Doc  ontact Person:			
ther observations:  Uariance Doc  ontact Person:			



# Analytical Report

# Prepared for:

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

Project: EME Jct. E-5

Project Number: None Given

Location: T20S-R37E-Sec5E, Lea Co., NM

Lab Order Number: 6H25013

Report Date: 09/05/06

Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: EME Jct. E-5

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	6H25013-01	Water	08/24/06 08:00	08-25-2006 15:22

Project: EME Jct. E-5

122 W. Taylor

Hobbs NM, 88240

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 (6H25013-01) Water	r						<b>`</b>		
Benzene	ND	0.00100	mg/L	1	EH62909	08/29/06	08/29/06	EPA 8021B	
Toluene	0.00139	0.00100	n		Ħ	11	н	n n	
Ethylbenzene	ND	0.00100	n.	**	и	ii .	n	,,	
Xylene (p/m)	0.00155	0.00100	"		**	n	, ,		
Xylene (0)	F [0.000656]	0.00100	"		**	n	11	**	
Surrogate: a,a,a-Trifluorotoluene		116%	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-12	0	"	"	"	"	

Fax: (505) 397-1471

Project: EME Jct. E-5

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

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

Analyte  Monitor Well #1 (6H25013-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Total Alkalinity	456	4.00	mg/L	2	EH63106	08/31/06	08/31/06	EPA 310.1M	
Chloride	418	10.0	н	20	EH63019	08/28/06	08/28/06	EPA 300.0	
Total Dissolved Solids	1400	10.0		1	EH62916	08/25/06	08/29/06	EPA 160.1	
Sulfate	40.9	10.0	n	20	EH63019	08/28/06	08/28/06	EPA 300.0	

Fax: (505) 397-1471

Project: EME Jct. E-5

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 (6H25013-01) Water	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Calcium	143	4.05	mg/L	50	EH62802	08/28/06	08/28/06	EPA 6010B	
Magnesium	39.1	0.360		10	п		4	и	
Potassium	8.08	0.600	**	H		,	IF	v	
Sodium	243	2.15	**	50		н	Ħ	tr.	

122 W. Taylor Hobbs NM, 88240 Project: EME Jct. E-5

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 EH62909 - EPA 5030C (GC)										
Blank (EH62909-BLK1)				Prepared &	Analyzed	08/29/06				
Benzene	ND	0.00100	mg/L	•	•					
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100	**							
Xylene (o)	ND	0.00100	**							
Surrogate: a,a,a-Trifluorotoluene	42.1		ug/l	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		"	40.0		81.8	80-120			
LCS (EH62909-BS1)				Prepared &	Analyzed	08/29/06				
Benzene	0.0499	0.00100	mg/L	0,0500		99.8	80-120			
Toluene	0.0528	0.00100	"	0.0500		106	80-120			
Ethylbenzene	0.0490	0.00100	"	0.0500		98.0	80-120			
Xylene (p/m)	0.113	0.00100	н	0.100		113	80-120			
Xylene (o)	0.0530	0.00100	п	0.0500		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.9		ug/l	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	46.1		"	40.0		115	80-120			
Calibration Check (EH62909-CCV1)				Prepared &	: Analyzed:	08/29/06				
Benzene	52.7		ug/l	50.0		105	80-120			
Toluene	56.2		**	50.0		112	80-120			
Ethylbenzene	55.8		**	50.0		112	80-120			
Xylene (p/m)	115		"	100		115	80-120			
Xylene (o)	57.3			50.0		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.7			40.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	46.4		"	40.0		116	80-120			
Matrix Spike (EH62909-MSI)	Sou	ırce: 6H25012-	04	Prepared: 0	8/29/06 A	nalyzed: 08	/30/06			
Benzene	0.0489	0.00100	mg/L	0.0500	ND	97.8	80-120			
Toluene	0.0506	0.00100	,	0.0500	ND	101	80-120			
Ethylbenzene	0.0510	0.00100		0.0500	ND	102	80-120			
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117	80-120			
Xylene (o)	0.0538	0.00100	n	0.0500	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.7		ug/l	40.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	47.4		" ,	40.0		118	80-120			

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: EME Jct. E-5

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 EH62909 - EPA 5030C (GC)											
Matrix Spike Dup (EH62909-MSD1)	Sou	rce: 6H25012-	04	Prepared: 0	08/29/06 A	nalyzed: 08	/30/06				
Benzene	0.0472	0.00100	mg/L	0.0500	ND	94.4	80-120	3.54	20		
Toluene	0.0489	0.00100	" ,	0.0500	ND	97.8	80-120	3.22	20		
Ethylbenzene	0.0471	0.00100		0.0500	ND	94.2	80-120	7.95	20		
Xylene (p/m)	0.107	0.00100		0.100	ND	107	80-120	8.93	20		
Xylene (o)	0.0500	0.00100		0.0500	ND	100	80-120	7.69	20		
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/l	40.0		103	80-120				
Surrogate: 4-Bromofluorobenzene	44.1		"	40.0		110	80-120				

Project: EME Jct. E-5

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 EH62916 - Filtration Preparation		•								
Blank (EH62916-BLK1)			*	Prepared:	08/28/06 A	nalyzed: 08	/29/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EH62916-DUP1)	Sour	ce: 6H25010	-01	Prepared:	08/28/06 A	nalyzed: 08	/29/06			
Total Dissolved Solids	2480	10.0	mg/L		2580			3.95	5	
Duplicate (EH62916-DUP2)	Sour	ce: 6H25013	-01	Prepared:	08/28/06 A	nalyzed: 08	/29/06			
Total Dissolved Solids	1350	10.0	mg/L		- 1400			3.64	5	
Batch EH63019 - General Preparation (	WetChem)									
Blank (EH63019-BLK1)				Prepared &	& Analyzed:	08/28/06				
Chloride	ND	0.500	mg/L							-
Sulfate	ND	0.500	"							
LCS (EH63019-BS1)				Prepared &	& Analyzed:	08/28/06				
Chloride	10.2	0,500	mg/L	10.0		102	80-120			
Sulfate	10.1	0.500	"	10.0		101	80-120			
Calibration Check (EH63019-CCV1)				Prepared &	& Analyzed:	08/28/06				
Sulfate	12.0		mg/L	10.0		120	80-120			
Chloride	9.87		. "	10.0		98.7	80-120			
Duplicate (EH63019-DUP1)	Sour	ce: 6H24003	-01	Prepared &	& Analyzed:	08/28/06				
Sulfate	225	5.00	mg/L		227			0.885	20	
Chloride	94.7	5.00	**		102			7.42	20	
Duplicate (EH63019-DUP2)	Sour	ce: 6H25013-	-01	Prepared &	& Analyzed:					
Sulfate	40.5	10.0	mg/L		40.9			0.983	20	
Chloride	420	10.0			418			0.477	20	

Fax: (505) 397-1471

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Project Manager: Kristin Farris-Pope

		Reporting		Spike	Source	-	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EH63019 - General Preparatio	n (WetChem)									
Matrix Spike (EH63019-MS1)	Source	е: 6Н24003-	-01	Prepared &	Analyzed	08/28/06				
Chloride	204	5.00	mg/L	100	102	102	80-120			
Sulfate	338	5.00	n	100	227	111	75-125			
Matrix Spike (EH63019-MS2)	Sourc	е: 6Н25013-	-01	Prepared &	Analyzed:	08/28/06				
Sulfate	239	10.0	mg/L	200	40.9	99.0	75-125			
Chloride	645	10.0	"	200	418	114	80-120			
Batch EH63106 - General Preparatio Blank (EH63106-BLK1)	(			Prepared &	Analyzed:	08/31/06				
Blank (EH63106-BLK1) Total Alkalinity	ND	2.00	mg/L	Prepared &	Analyzed:	08/31/06				
LCS (EH63106-BS1)				Prepared &	¿ Analyzed:	08/31/06				
Bicarbonate Alkalinity	190	2.00	mg/L	200	-	95.0	85-115			
Duplicate (EH63106-DUP1)	Source	е: 6Н24003-	-01	Prepared &	z Analyzed;	08/31/06				
Total Alkalinity	150	2.00	mg/L		156			3.92	20	
Reference (EH63106-SRM1)	•			Prepared &	Analyzed:	08/31/06				
Total Alkalinity	254		mg/L	250		102	90-110			

122 W. Taylor Hobbs NM, 88240 Project: EME Jct. E-5

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 EH62802 - 6010B/No Digestion		,								
Blank (EH62802-BLK1)				Prepared &	Analyzed:	08/28/06				
Calcium	ND	0.0810	mg/L			***				
Magnesium	ND	0.0360	11							
Potassium	ND	0.0600	II.							
Sodium	ND	0.0430	ıτ							
Calibration Check (EH62802-CCV1)				Prepared &	Analyzed:	08/28/06				
Calcium	1.97		mg/L	2.00		98.5	85-115			
Magnesium	2.13		"	2.00		106	85-115			
Potassium	1.74		. "	2.00		87.0	85-115			
Sodium	1.84		н	2.00		92.0	85-115			
Duplicate (EH62802-DUP1)	Sou	rce: 6H25010-	-01	Prepared &	¿ Analyzed:	08/28/06				
Calcium	267	4.05	mg/L		251			6.18	20	
Magnesium	81.9	1.80	n		77.6			5.39	20	
Potassium	7.20	0.600	n		7.76			7.49	20	
Sodium	396	2.15	"		409			3.23	20	

Rice Operating Co.

Project: EME Jet. E-5

122 W. Taylor

Hobbs NM, 88240

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Fax: (505) 397-1471

Fax: (505) 397-1471

### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

leport Approved By:	Kaland	KJul
leport Approved By:	Rocanic	1000

Date

9/5/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

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

# Environmental Lab of Texas

要なる。

B. Co. Je Co.

Do william Balan

The same of

Odessa, Texas 79765 12600 West I-20 East

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

EME Junction E-5 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Project Name:

المواجعة المواجعة

がある

Town Control

心社会

the later we

をおいる

T20S-R37E-Sec5E, Lea County NM Anaivze For TCLP: Project Number: PO Number: Project Loc: Fax No: (505) 397-1471 Project Manager: Kristin Farris Pope kpope@riceswd.com Sampler Signature: Rozanne Johnson (505) 631-9310 city/state/Zip: Hobbs, New Mexico 88240 Company Name RICE Operating Company Email: rozanne@valornet.com Company Address: 122 W. Taylor Street Tetephone No: (505) 393-9174

TAT basbnst2 (elubertoc-eng) TAT HSUS NOT HOLL Custody Seals: Containers / Cooled Solids Dissolved Solids M.R.O.I Temperature Upon Receipt ВСІ Sample Containers Intact? Laboratory Comments: Labels on container? BTEX 80215/5030 Metals: As Ag Ba Cd Cr Pb Hg Se SAR / ESP / CEC Jujous (Cl. 204, CO3, HCO3) Cations (Ca, Mg, Na, K) Time 1006 1005 M2108 1,814 Hq Other (specify): lio2 PLEASE Email RESULTS TO: kpope@riceswd.com; mfranks@riceswd.com Sludge Water Other (Specify) AndH Total (1) anoN <sup>₹</sup>OS<sup>₹</sup>H HOSN HCI (S) 40 WI Blass vials FONH No. of Containers 8:00 Time Sampled 8/24/2006 Received by: Date Sampled rozanne@valornet.com Time Date FIELD CODE Monitor Well #1 Special Instructions: AB # (lab use only) 0

/3:// TIME

8-25-04

Date

James Johnson Received by ELC

13:10

3-25-04

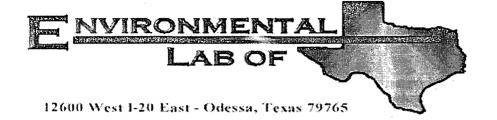
elinquished by

25,51

2-25-4

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

Client: Rice Operating Date/Time: 08-25-06 @ 1522 Lab ID #: 6H 250 13 Initials: JMM  Sample Receipt Checklist  Client Initials  #1 Temperature of container/ cooler? Yes No I.O °C  #2 Shipping container in good condition? Yes No Not Present  #3 Custody Seals intact on shipping container/ cooler? Yes No Not Present  #4 Custody Seals intact on sample bottles/ container? Yes No Not Present  #5 Chain of Custody present? Yes No  #6 Sample instructions complete of Chain of Custody? Yes No  #7 Chain of Custody signed when relinquished/ received? Yes No  #8 Chain of Custody agrees with sample label(s)? Yes No Not Applicable  #9 Container label(s) legible and intact? Yes No Not Applicable  #10 Sample matrix/ properties agree with Chain of Custody? Yes No
Sample Receipt Checklist  Client Initials  #1 Temperature of container/ cooler? Yes No IO °C  #2 Shipping container in good condition? Yes No Not Present  #3 Custody Seals intact on shipping container/ cooler? Yes No Not Present  #4 Custody Seals intact on sample bottles/ container? Yes No Not Present  #5 Chain of Custody present? Yes No  #6 Sample instructions complete of Chain of Custody? Yes No  #7 Chain of Custody signed when relinquished/ received? Yes No  #8 Chain of Custody agrees with sample label(s)? Yes No Not Applicable  #9 Container label(s) legible and intact? Yes No Not Applicable  #10 Sample matrix/ properties agree with Chain of Custody? Yes No
Sample Receipt Checklist  #1 Temperature of container/ cooler? Yes No L.O ° C  #2 Shipping container in good condition? Yes No Not Present  #3 Custody Seals intact on shipping container/ cooler? Yes No Not Present  #4 Custody Seals intact on sample bottles/ container? Yes No Not Present  #5 Chain of Custody present? Yes No  #6 Sample instructions complete of Chain of Custody? Yes No  #7 Chain of Custody signed when relinquished/ received? Yes No ID written on Cont./ Lid  #8 Chain of Custody agrees with sample label(s)? Yes No Not Applicable  #9 Container label(s) legible and intact? Yes No Not Applicable  #10 Sample matrix/ properties agree with Chain of Custody? Yes No
#1 Temperature of container/ cooler?  #2 Shipping container in good condition?  #3 Custody Seals intact on shipping container/ cooler?  #4 Custody Seals intact on sample bottles/ container?  #5 Chain of Custody present?  #6 Sample instructions complete of Chain of Custody?  #7 Chain of Custody signed when relinquished/ received?  #8 Chain of Custody agrees with sample label(s)?  #8 Chain of Custody agrees with sample label(s)?  #9 Container label(s) legible and intact?  #10 Sample matrix/ properties agree with Chain of Custody?  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable  **Test No Not Applicable
#1 Temperature of container/ cooler?
#2 Shipping container in good condition? #3 Custody Seals intact on shipping container/ cooler? #4 Custody Seals intact on sample bottles/ container? #5 Chain of Custody present? #6 Sample instructions complete of Chain of Custody? #7 Chain of Custody signed when relinquished/ received? #8 Chain of Custody agrees with sample label(s)? #9 Container label(s) legible and intact? #10 Sample matrix/ properties agree with Chain of Custody? #8 No #9 Sample matrix/ properties agree with Chain of Custody? #10 Sample matrix/ properties agree with Chain of Custody? #11 Ves No #12 No #13 No #14 Not Present **No **No **No **No **No **No **No **N
#3 Custody Seals intact on shipping container/ cooler? #4 Custody Seals intact on sample bottles/ container? #5 Chain of Custody present? #6 Sample instructions complete of Chain of Custody? #7 Chain of Custody signed when relinquished/ received? #8 Chain of Custody agrees with sample label(s)? #8 Container label(s) legible and intact? #9 Container label(s) legible and intact? #10 Sample matrix/ properties agree with Chain of Custody?  Wes No Not Applicable #10 Sample matrix/ properties agree with Chain of Custody?
#4 Custody Seals intact on sample bottles/ container? #5 Chain of Custody present?  #6 Sample instructions complete of Chain of Custody?  #7 Chain of Custody signed when relinquished/ received?  #8 Chain of Custody agrees with sample label(s)?  #9 Container label(s) legible and intact?  #10 Sample matrix/ properties agree with Chain of Custody?  Wes No Not Applicable  #10 Sample matrix/ properties agree with Chain of Custody?  Wes No
#5 Chain of Custody present?  #6 Sample instructions complete of Chain of Custody?  #7 Chain of Custody signed when relinquished/ received?  #8 Chain of Custody agrees with sample label(s)?  #9 Container label(s) legible and intact?  #10 Sample matrix/ properties agree with Chain of Custody?  Yes No Not Applicable  #10 Sample matrix/ properties agree with Chain of Custody?
#5 Chain of Custody present?  #6 Sample instructions complete of Chain of Custody?  #7 Chain of Custody signed when relinquished/ received?  #8 Chain of Custody agrees with sample label(s)?  #9 Container label(s) legible and intact?  #10 Sample matrix/ properties agree with Chain of Custody?  Yes No Not Applicable  #10 Sample matrix/ properties agree with Chain of Custody?
#6 Sample instructions complete of Chain of Custody?  #7 Chain of Custody signed when relinquished/ received?  #8 Chain of Custody agrees with sample label(s)?  #9 Container label(s) legible and intact?  #10 Sample matrix/ properties agree with Chain of Custody?  Yes No Not Applicable  **No Not Applicable
#7 Chain of Custody signed when relinquished/ received?  #8 Chain of Custody agrees with sample label(s)?  #9 Container label(s) legible and intact?  #10 Sample matrix/ properties agree with Chain of Custody?  Wes No Not Applicable  No Not Applicable
#9 Container label(s) legible and intact? (Yes) No Not Applicable #10 Sample matrix/ properties agree with Chain of Custody? (Yes) No
#9 Container label(s) legible and intact? (Yes) No Not Applicable #10 Sample matrix/ properties agree with Chain of Custody? (Yes) No
#11 Containers supplied by ELOT? (Yes) No
#12 Samples in proper container/ bottle? Yes No See Below
#13 Samples properly preserved? Yes No See Below
#14 Sample bottles intact?
#15 Preservations documented on Chain of Custody? Yes No
#16 Containers documented on Chain of Custody? (Yes) No
#17 Sufficient sample amount for indicated test(s)? Yes No See Below
#18 All samples received within sufficient hold time? Yes No See Below
#19 VOC samples have zero headspace? Yes No Not Applicable
Variance Documentation
Contact: Contacted by: Date/ Time:
Regarding:
Corrective Action Taken:
Check all that Apply: See attached e-mail/ fax
Client understands and would like to proceed with analysis
Cooling process had begun shortly after sampling event



# Analytical Report

# Prepared for:

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

Project: EME Jct. E-5

Project Number: None Given

Location: T20S R37E Sec.5 E- Lea County, NM

Lab Order Number: 6K15003

Report Date: 12/01/06

Project: EME Jct. E-5

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240

Project Number: None Given

Project Manager: Kristin Farris-Pope

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6K15003-01	Water	11/10/06 11:30	11-15-2006 08:10

Hobbs NM, 88240

Project: EME Jct. E-5

122 W. Taylor

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 (6K15003-01) Water	r								
Benzene	0.0132	0.00100	mg/L	1	EK61614	11/16/06	11/19/06	EPA 8021B	· · · · · · · · · · · · · · · · · · ·
Toluene	0.00108	0.00100	"	"		**	11	**	
Ethylbenzene	0.00331	0.00100	п	"	**	*	н	11	
Xylene (p/m)	1 [0.000779]	0.00100	ь	п ,	"	"	п		
Xylene (o)	ND	0.00100	**	"	**	n	п	1+	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-12	0	" .	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-12	0	"	"	"	"	

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240 Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6K15003-01) Water									
Total Alkalinity	494	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	· · · · · · · · · · · · · · · · · · ·
Chloride	625	12.5		25	EK61507	11/15/06	11/15/06	EPA 300.0	
<b>Total Dissolved Solids</b>	1660	10.0	и	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	53,2	12.5	n	25	EK61507	11/15/06	11/15/06	EPA 300.0	

Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Anałyzed	Method	Notes
Monitor Well #1 (6K15003-01) Water									
Calcium	182	4.05	mg/L	50	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	56.7	0.360	**	10	H	n	n	"	
Potassium	14.7	0.600	п	v	"	n	Ħ	, ,	
Sodium	447	2.15		50	н ,		H	"	

Hobbs NM, 88240

Project: EME Jct. E-5

122 W. Taylor

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 EK61614 - EPA 5030C (GC)										
Blank (EK61614-BLK1)				Prepared: 1	1/16/06 Aı	nalyzed: 11	/17/06			
Benzene	ND	0.00100	mg/L						,	
Гołuene	ND	0.00100	H							
Ethylbenzene	ND	0.00100	11							
Xylene (p/m)	ND	0.00100	**							
Xylene (o)	ND	0.00100	n							
Surrogate: a,a,a-Trifluorotoluene	47.8		ug/l	40.0		120	80-120			
Surrogate: 4-Bromofluorobenzene	40.5		"	40.0		101	80-120			
.CS (EK61614-BS1)				Prepared: 1	1/16/06 A	nalyzed: 11	/17/06			
Benzene ·	0.0594	0.00100	mg/L	0.0500		119	80-120			
Toluene	0.0562	0.00100		0.0500		112	80-120			
Ethylbenzene	0.0458	0.00100	n	0.0500		91.6	80-120			
Xylene (p/m)	0.0949	0.00100	n	0.100		94.9	80-120			
Xylene (o)	0.0499	0.00100	n	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.1		ug/l	40.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	44.2		"	40.0		110	-80-120			
Calibration Check (EK61614-CCV1)				Prepared: 1	1/16/06 A	nalyzed: 11	1/20/06			
Benzene	54.7		ug/l	50.0		109	80-120			,
Toluene	48.5		"	50.0		97.0	80-120			
Ethylbenzene	42.1		"	50.0		84.2	80-120			
Xylene (p/m)	83.0		"	100		83.0	80-120			
Xylene (o).	43.3		"	50.0		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.4		"	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			
Matrix Spike (EK61614-MS1)	Sou	ırce: 6K13007-	-01	Prepared: 1	1/16/06 A	nalyzed: 11	1/17/06			
Benzene	0.0551	0.00100	mg/L	0.0500		110	80-120			
Foluene	0.0498	0.00100	" -	0.0500		99.6	80-120			
Ethylbenzene	0.0401	0.00100	**	0.0500		80.2	80-120			
Kylene (p/m)	0.0844	0.00100	"	0.100		84.4	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.1		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	42.4		"	40.0		106	80-120			

Project: EME Jct. E-5

122 W. Taylor

Project Number: None Given

Hobbs NM, 88240

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 EK61614 - EPA 5030C (GC)										
Matrix Spike Dup (EK61614-MSD1)	Sour	rce: 6K13007-	01	Prepared: 1	1/16/06 A	nalyzed: 11	/17/06			
Benzene	0.0580	0.00100	mg/L	0.0500		116	80-120	5.31	20	
Toluene	0.0550	0.00100	11	0.0500		110	80-120	9.92	20	
Ethylbenzene	0.0421	0.00100	11	0.0500		84.2	80-120	4.87	20	
Xylene (p/m)	0.0909	0.00100	**	0.100		90.9	80-120	7.42	20	
Xylene (o)	0.0455	0.00100	"	0.0500		91.0	80-120	2.90	20	
Surrogate: a,a,a-Trifluorotoluene	46.3		ug/l	40.0		116	80-120			
Surrogate: 4-Bromofluorohenzene	42.0		"	40.0		105	80-120			

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK61507 - General Preparation (	WetChem)	,								
Blank (EK61507-BLK1)				Prepared &	Analyzed:	11/15/06				
Sulfate	0.579	0.500	mg/L							
Chloride	ND	0.500	н		•					
LCS (EK61507-BS1)				Prepared &	: Analyzed:	11/15/06				
Sulfate	10.9	0.500	mg/L	10.0		109	80-120			
Chloride	11.1	0.500	н	10.0		111	80-120			
Calibration Check (EK61507-CCV1)				Prepared &	Analyzed:	11/15/06				
Chloride	10.7	·	mg/L	10.0		107	80-120			
Sulfate	12.0		*	10.0		120	80-120			
Duplicate (EK61507-DUP1)	Sou	rce: 6K15004-	-01	Prepared &	: Analyzed:	11/15/06				
Sulfate	79.9	5.00	mg/L		79.8	<u>-</u>		0.125	20	
Chloride	232	5.00	и		234			0.858	20	
Duplicate (EK61507-DUP2)	Sou	rce: 6K15006-	-07	Prepared &	Analyzed:	11/15/06				
Sulfate	78.2	5.00	mg/L		78.1			0.128	20	
Chloride	37.9	5.00	"	,	43.7			14.2	20	
Matrix Spike (EK61507-MS1)	Sou	rce: 6K15004-	-01	Prepared &	Analyzed:	11/15/06			•	
Chloride	345	5.00	mg/L	100	234	111	80-120			
Sulfate	175	5.00	n	100	79.8	95.2	80-120			
Matrix Spike (EK61507-MS2)	Sou	rce: 6K15006-	07	Prepared &	Analyzed:	11/15/06				
Sulfate	175	5.00	mg/L	100	78.1	96.9	80-120			
Chloride	142	5.00	**	100	43.7	98.3	80-120			

Project: EME Jct. E-5

Fax: (505) 397-1471

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

Analida	Danie	Reporting	11-:4-	Spike	Source	N/DEC	%REC	D DD	RPD	Note-
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EK61605 - General Preparation	ı (WetChem)									
Blank (EK61605-BLK1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
Blank (EK61605-BLK2)				Prepared &	Analyzed:	11/17/06				
Total Alkalinity	ND	2.00	mg/L							
LCS (EK61605-BS1)				Prepared &	: Analyzed:	11/17/06				
Bicarbonate Alkalinity	172		mg/L	200	***	86.0	85-115			
LCS (EK61605-BS2)				Prepared &	Analyzed:	11/17/06				
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115	******		
Hydroxide Alkalinity	0.00	0.100					85-115			
Duplicate (EK61605-DUP1)	Sou	rce: 6K15001-	-01	Prepared &	Analyzed:	11/17/06				
Total Alkalinity	238	2.00	mg/L		238	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.00	20	
Carbonate Alkalinity	0.00	0.100	**		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	**		0.00				20	
Hydroxide Alkalinity	0.00	0.100	n		0.00				20	
Duplicate (EK61605-DUP2)	Sou	rce: 6K16005-	-01	Prepared &	Analyzed:	11/17/06				
Total Alkalinity	296	2.00	mg/L		300			1.34	20	
Carbonate Alkalinity	0.00	0.100	**		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		300				20	
Hydroxide Alkalinity	0.00	0.100	н		0.00				20	
Reference (EK61605-SRM1)				Prepared &	Analyzed:	11/17/06				
Total Alkalimity	238		mg/L	250		95.2	90-110			
Reference (EK61605-SRM2)				Prepared &	Analyzed:	11/17/06				
Total Alkalinity	238		mg/L	250		95.2	90-110			

Rice Operating Co.
Project: EME Jet. E-5
Fax: (505) 397-1471
Project Number: None Given
Hobbs NM, 88240
Project Manager: Kristin Farris-Pope

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK61611 - Filtration Preparation										
Blank (EK61611-BLK1)				Prepared: 1	11/15/06 A	nalyzed: 11	/16/06			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EK61611-DUP1)	Sou	rce: 6K15001-	-01	Prepared: 1	11/15/06 A	nalyzed: 11	/16/06			
Total Dissolved Solids	14000	10.0	mg/L		13200			5.88	5	QR-0
Duplicate (EK61611-DUP2)	Sou	rce: 6K15005-	03	Prepared: 1	11/15/06 A	nalyzed: 11	/16/06			
Total Dissolved Solids	586	10.0	mg/L		622			5.96	5	QR-0

122 W. Taylor

Hobbs NM, 88240

Project: EME Jct. E-5

Project Number: None Given

Project Manager: Kristin Farris-Pope

# Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK61703 - 6010B/No Digestion										
Blank (EK61703-BLK1)				Prepared &	2 Analyzed:	11/17/06				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	,,							
Potassium	ND	0.0600	**							
Sodium	ND	0.0430	v							
Calibration Check (EK61703-CCV1)				Prepared &	z Analyzed:	11/17/06				
Calcium	2.17		mg/L	2.00		108	85-115			
Magnesium	2.21		п	2.00		110	85-115			
Potassium	1.74		н	2.00		87.0	85-115			
Sodium	1.88		11	2.00		94.0	85-115			
Duplicate (EK61703-DUP1)	Sou	rce: 6K15001-	-01	Prepared &	Analyzed:	11/17/06				
Calcium	1300	40.5	mg/L		1340			3.03	20	
Magnesium	461	3.60	•		461			0.00	20	
Potassium	55.7	0.600	n		53.2			4.59	20	
Sodium	2890	21.5	"		3100			7.01	20	

Rice Operating Co.

Project: EME Jet. E-5

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

**Notes and Definitions** QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. В Analyte is found in the associated blank as well as in the sample (CLP B-flag). DET Analyte DETECTED NĐ 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

	Raland Kitub		
Report Approved By:	Cacan C 10	Date:	12/1/2006

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez. Lab Tech.

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

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

Peggy Allen, QA Officer

# Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East

となると

ない

教を

金

のできる

である

22222 Lone Star □ NPDES FUSH TAT (Pie-Schedule) 24, 48, 72 lus Project Loc: T20S R37E Sec5 E ~ Lea County New Mexico ņ 000 spilos bevlossi@ listoT  $\times$ Fax: 432-563-1713 TRRP Phone: 432-563-1800 NO.R.M. H Sample Containers Intact? EME Junction E-5 Sustody seals on container(s) Custody seals on cooler(s) by Sample of Client Rep. ?
by Courier? UPS Temperature Upon Receipt: BTEX 80218/5030 or BTEX 8260 VOCs Free of Headspace? Laboratory Comments Sample Hand Delivered abels on container(s) Volatiles (BTEX-N 8260) X Standard Metals: As Ag Ba Cd Cr Pb Hg Se Anions (Cl. SO4, Alkalinity) Project Name: PO#: Cations (Ca, Mg, Na, K) Project #: Report Format: 9001 X 1005 XT MIRSING 18:10 **3**8 Time 8018B MG LOS 1.814 भवा WP-Mon-Potable Specify Other 20 90/41/11 Other (Specify) rozanne@valornet.com None (1) 1 Liter HOPE Odessa, Texas 79765 COESZEN rozanne@valornet.com ИаОн (505) 397-1471 105°H HCt (2) 40 ml glass vials HNO əэ Total #, of Containers m 50 benatilit bleft Fax No: e-mail: mfranks@riceswd.com 11:30 Time Sampled kpope@riceswd.com Received by ELOT: 11/10/2006 Received by Date Sampled ames 20 (30:00 Ending Depth Hobbs, New Mexico 88240 RICE Operating Company Time 0 Rozanne Johnson (505)631-9310 Beginning Depth kpope@riceswd.com 122 W. Taylor Street Kristin Farris Pope 10/h1/11 100 PM (505) 393-9174 FIELD CODE Please email to: Sampler Signature: Company Address: Project Manager: Company Name Telephone No: Monitor Well #1 City/State/Zip: Special Instructions: ORDER #: (lab use only) (vino seu del) # AA

TAT brebriate

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

		•	
<u> </u>			
Checkist	<		Client Initials
Yes	No	0.5 °(	
<del></del>	<del></del>		
		Not Present	
	<del></del>	<del> </del>	1
<del></del>			<del>                                     </del>
	No	<del> </del>	1
<del></del>	No		+
	No	ID written on Cont / Lic	
<del></del>	<del></del>	<del></del>	
	<del></del>		<del></del>
	No	<del> </del>	
Yes	No	See Below	<del> </del>
Yes	No	See Below	1
Yes	No		<del> </del>
Yes	No		1
Yes	No		
Yes	No	See Below	<del></del>
Yes	No	<del></del>	
Yes	No	Not Applicable	
Yes	No		
<del>-1</del>	<del></del>		
nentation	,		
	_	Date/ Time:	
	_		
			·
	*		
	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Yes No Yes No	Yes No OS OC OC OC OC OC OC OC OC OC OC OC OC OC