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Annual GW Mon. REPORTS





CERTIFIED MAIL RETURN RECIEPT NO. 7099 3400 0017 1737 2053

March 21, 2008

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504

> RE: 2007 Annual Groundwater Monitoring Report EME I-1 SWD Offsite Encroachment Site T20S, R36E, Section 1, Unit Letter I Lea County, New Mexico NMOCD Case No.: 1R0336

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Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2007 Annual Monitoring Well Report for the EME I-1 SWD Offsite Encroachment Site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

Groundwater monitoring and passive vapor extraction were conducted at the site in accordance with the Corrective Action Plan which was verbally approved by the OCD on July 18, 2007.

ROC is the service provider (agent) for the EME SWD System and has no ownership of any portion of pipeline, well, or facility. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, please contact me at (432) 638-8740 or Kristin Pope at (505) 393-9174.

Sincerely,

Gilbert J. Van Deventer, PG, REM

cc: KFP, JSC



enclosures: maps, table, graphs, well sampling data forms, and laboratory analytical reports.



ATTACHMENT A

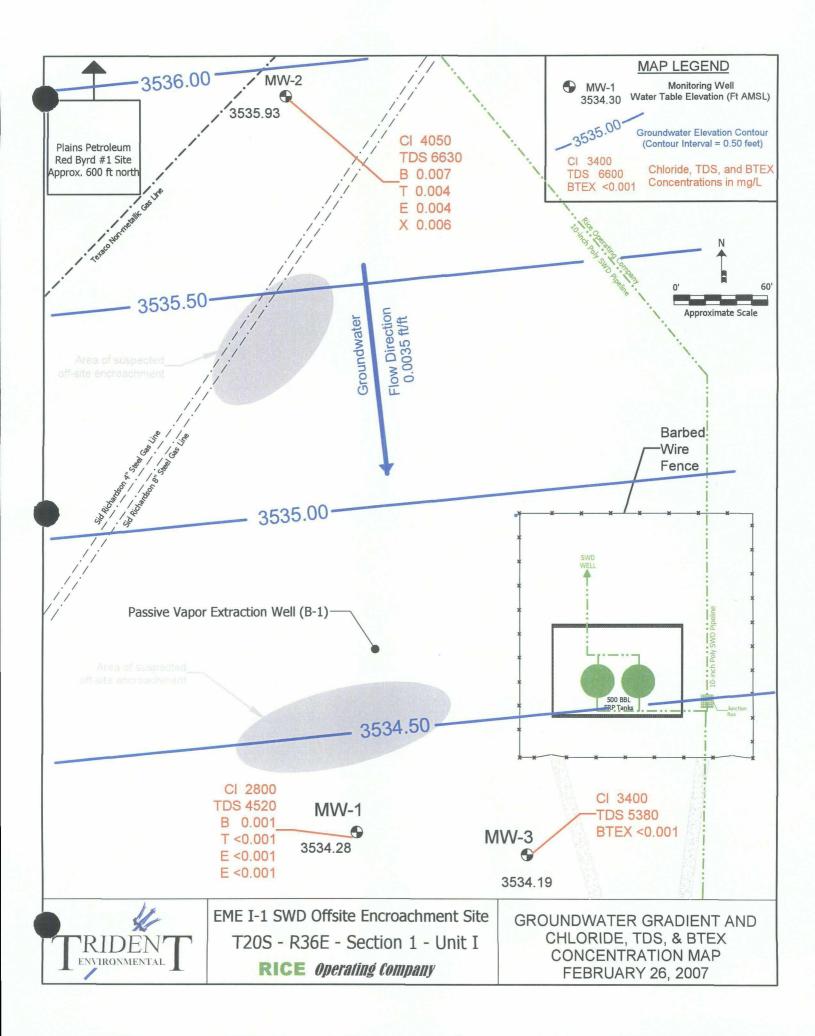
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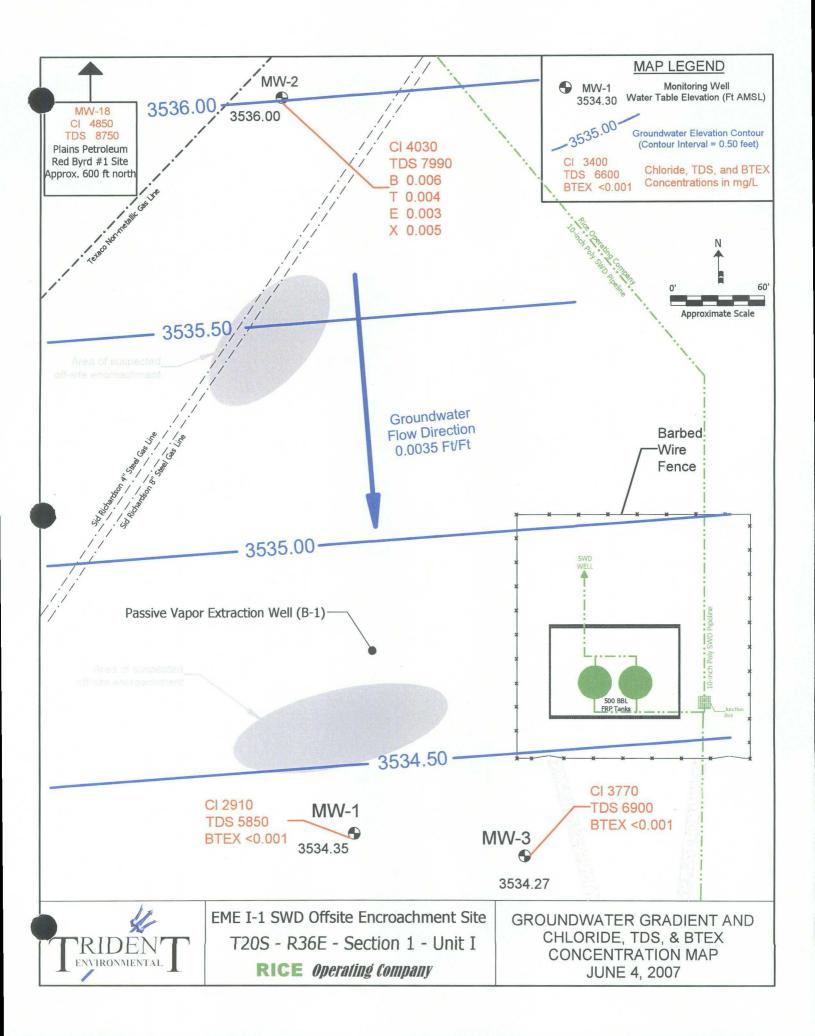
Site Maps

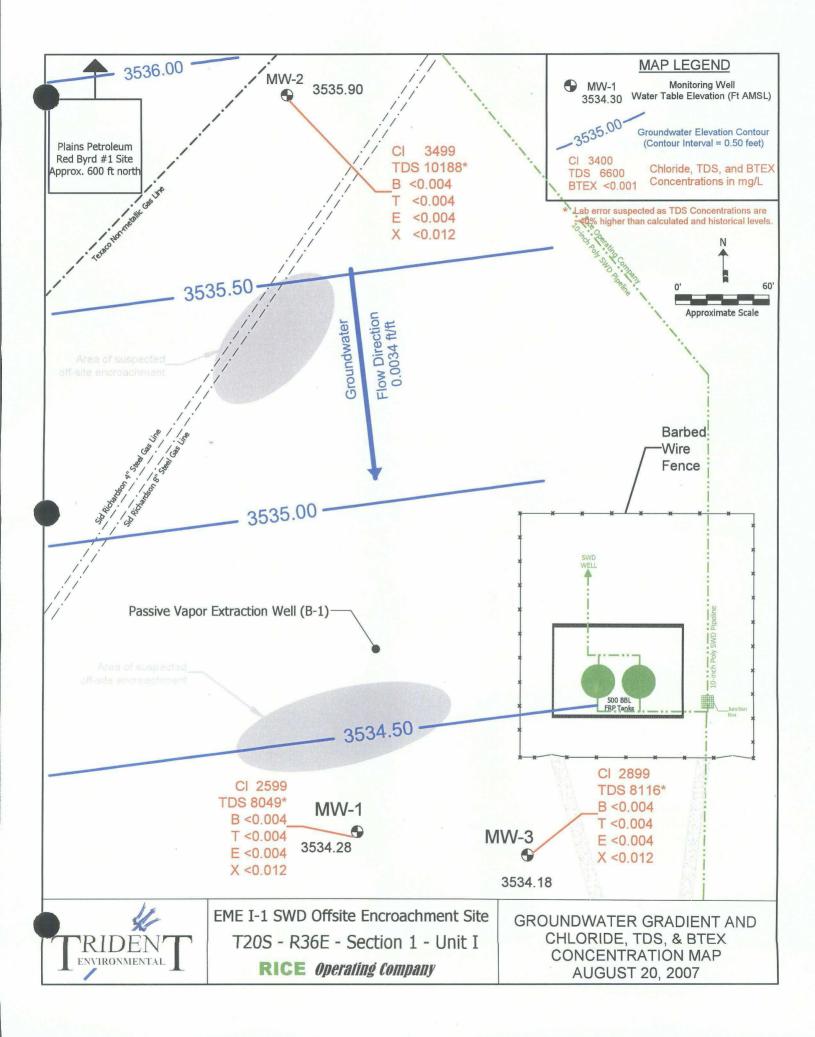
Graphs

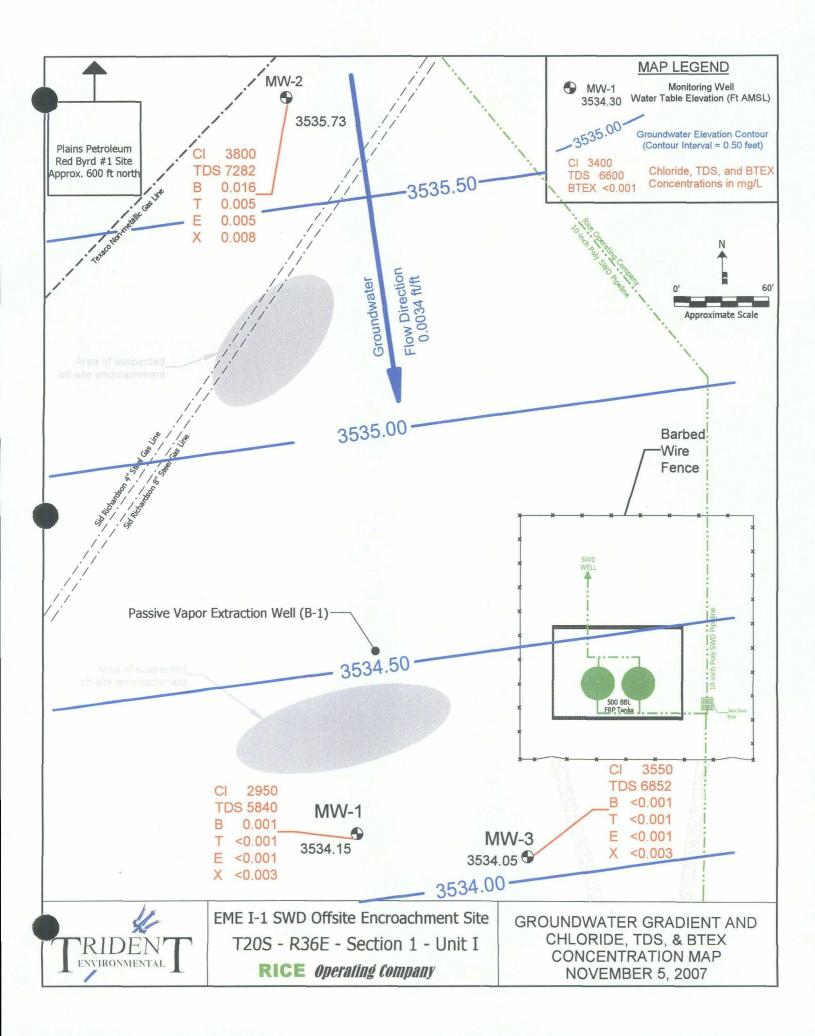
Table











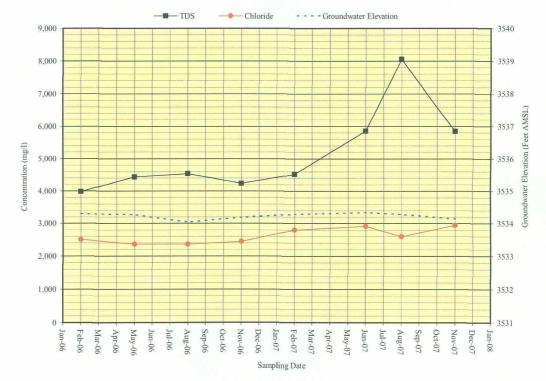


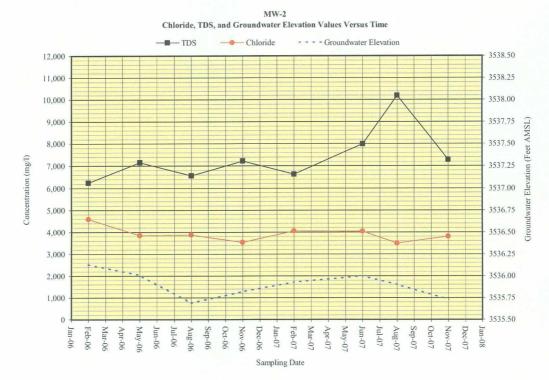
			Summary o	of Groundwa EME I-1 S		Results			
Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylen (mg/L
	02/15/06	35.09	3534.30	2,510	3,990	< 0.001	< 0.001	< 0.001	< 0.00
	05/22/06	35.12	3534.27	2,360	4,440	< 0.001	< 0.001	< 0.001	< 0.00
_	08/28/06	35.35	3534.04	2,360	4,540	< 0.001	< 0.001	< 0.001	< 0.00
MW-1	11/27/06	35.20	3534.19	2,440	4,240	0.001	0.001	0.001	< 0.00
IVI W-1	02/26/07	35.11	3534.28	2,800	4,520	0.001	< 0.001	< 0.001	< 0.00
	06/04/07	35.04	3534.35	2,910	5,850	0.001	< 0.001	< 0.001	< 0.00
-	08/20/07	35.11	3534.28	2,599	8,049	< 0.004	< 0.004	< 0.004	< 0.01
	11/05/07	35.24	3534.15	2,950	5,840	100.0	< 0.001	< 0.001	< 0.00
	02/15/06	33.52	3536.13	4,590	6,240	0.003	0.003	0.006	0.00
	05/22/06 33.64 3536.01 08/28/06 33.96 3535.69	3536.01	3,850	7,160	0.001	< 0.001	0.001	< 0.00	
_		3535.69	3,880	6,560	0.001	< 0.001	0.007	0.003	
MW-2	11/27/06	33.83	3535.82	3,540	7,220	0.002	0.001	0.003	0.00
IVI W-2	02/26/07	33.72	3535.93	4,050	6,630	0.007	0.004	0.004	0.000
	06/04/07	33.65	3536.00	4,030	7,990	0.006	0.004	0.003	0.00
-	08/20/07	33.75	3535.90	3,499	10,188	< 0.004	< 0.004	< 0.004	< 0.0
_	11/05/07	33.92	3535.73	3,800	7,282	0.016	0.005	0.005	0.008
	02/15/06	34.59	3534.23	3,140	4,640	< 0.001	< 0.001	< 0.001	< 0.00
_	05/22/06	34.63	3534.19	2,750	5,410	< 0.001	< 0.001	< 0.001	< 0.00
	08/28/06	34.82	3534.00	2,790	4,970	< 0.001	< 0.001	< 0.001	< 0.00
MW-3	11/27/06	34.72	3534.10	2,850	4,990	< 0.001	0.001	< 0.001	< 0.00
IVI VV-3	02/26/07	34.63	3534.19	3,400	5,380	< 0.001	< 0.001	< 0.001	< 0.00
	06/04/07	34.55	3534.27	3,770	6,900	< 0.001	< 0.001	< 0.001	< 0.00
-	08/20/07	34.64	3534.18	2,899	8,116	< 0.004	< 0.004	< 0.004	< 0.0
	11/05/07	34.77	3534.05	3,550	6,852	< 0.001	< 0.001	< 0.001	< 0.00
QCC Standard	S		141	250	1000	0.01	0.75	0.75	0.62

Table 1

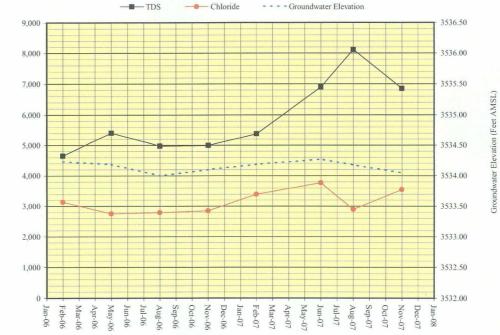
Total Dissolved Soilds (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L) Analyses performed by Environmental Lab of Texas (Odessa TX) and TraceAnalysis (Midland TX). Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards. AMSL - Above Mean Sea Level; BTOC - Below Top of Casing Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM. * August 200° TDS values are 40% higher than calculated val

MW-1 Chloride, TDS, and Groundwater Elevation Values Versus Time





MW-3 Chloride, TDS, and Groundwater Elevation Values Versus Time



Sampling Date

Concentration (mg/l)

ATTACHMENT B

Laboratory Analytical Reports

And

Chain of Custody Documentation



A Xenco Laboratories Company

Analytical Report

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

Project: EME I-1 SWD Project Number: None Given Location: T20S-R36E-Sec1 Lea Co, NM

Lab Order Number: 7C01013

Report Date: 03/09/07

y	ANALYTICAL REPORT FOR SAM	MPLES		
Hobbs NM, 88240	Project Manager: Kristin Far	ris-Pope		
122 W. Taylor	Project Number: None Give	n		
Rice Operating Co.	Project: EME I-1 S	WD F	Fax: (505) 397-1471	

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7C01013-01	Water	02/26/07 09:10	03-01-2007 15:30
Monitor Well #2	7C01013-02	Water	02/26/07 11:50	03-01-2007 15:30
Monitor Well #3	7C01013-03	Water	02/26/07 10:15	03-01-2007 15:30



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Hobbs NM, 88240	Project Manager: Kristin Farris-Pope Organics by GC	
Rice Operating Co. 122 W. Taylor	Project: EME I-1 SWD Project Number: None Given	Fax: (505) 397-1471

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7C01013-01) Water									
Benzene	0.00111	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	ND	0.00100		п	n	H	"	"	
Ethylbenzene	ND	0.00100	T .	n	м	n	N		
Xylene (p/m)	ND	0.00100		n	в	"	N	"	
Xylene (0)	ND	0.00100		"	n	ņ	n	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-12	0	"	"	"	n	
Monitor Well #2 (7C01013-02) Water									
Benzene	0.00724	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	0.00358	0.00100	"	"	"	"		"	
Ethylbenzene	0.00369	0.00100	"	"		"		и	
Xylene (p/m)	0.00619	0.00100			"	n	н		
Xylene (o)	ND	0.00100	u 	n	*	H	n	м	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-12	10	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-12	0	"	"	"	"	
Monitor Well #3 (7C01013-03) Water									
Benzene	ND	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	ND	0.00100	ų	"			"	я	
Ethylbenzene	ND	0.00100	M		"		"	n	
Xylene (p/m)	ND	0.00100		"	"	н	n	n	
Xylene (0)	ND	0.00100	W	n	"	n	n	n	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-12	20	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-12	20	"	"	"	"	

-Environmental Lab of Texas

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

Page 2 of 10



Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

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

Project: EME I-1 SWD

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 (7C01013-01) Water									
Total Alkalinity	384	2.00	mg/L	1	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	2800	50.0	D	100	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	4520	10.0	n	1	EC70715	03/05/07	03/08/07	EPA 160.1	O-04
Sulfate	113	50.0	"	100	EC70717	03/07/07	03/08/07	EPA 300.0	
Monitor Well #2 (7C01013-02) Water									
Total Alkalinity	452	2.00	mg/L	1	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	4050	· 50.0	н	100	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	6630	10.0		1	EC70715	03/05/07	03/08/07	EPA 160.1	O-04
Sulfate	90.8	50.0		100	EC70717	03/07/07	03/08/07	EPA 300.0	
Monitor Well #3 (7C01013-03) Water									
Total Alkalinity	384	2.00	mg/L	1	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	3400	50.0	U	100	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	5380	10.0	,	1	EC70715	03/05/07	03/08/07	EPA 160.1	O-04
Sulfate	167	50.0	"	100	EC70717	03/07/07	03/08/07	EPA 300.0	

Environmental Lab of Texas

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

Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7C01013-01) Water									
Calcium	376	0.200	mg/L	1	EC70801	03/07/07	03/07/07	EPA 6010B	
Magnesium	183	0.0200			"	n	H	*	
Potassium	24.3	1.00		*	"	в	N		
Sodium	812	1.00	H	"	n		"	и	
Monitor Well #2 (7C01013-02) Water									
Calcium	401	0.200	mg/L	1	EC70801	03/07/07	03/07/07	EPA 6010B	
Magnesium	260	0.0200		"	n	n	ŋ	u	
Potassium	22.1	1.00	"	"	"	"	N	"	
Sodium	1230	1.00	"	п				н	

Monitor Well #3 (7C01013-03) Water

Calcium	434	0.200	mg/L	1	EC70801	03/07/07	03/07/07	EPA 6010B
Magnesium	193	0.0200		"	n	*	N	м
Potassium	25.5	1.00	H	"	Ħ		"	n
Sodium	1030	1.00	7	"	"	n	н	и

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Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: EME I-1 SWD 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 EC70201 - EPA 5030C (GC)										
Blank (EC70201-BLK1)				Prepared: 0)3/02/07 Ai	nalyzed: 03	/07/07			
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								
Surrogate: a,a,a-Trifluorotoluene	55.3		ug/l	50.0		111	80-120			<u>`</u> ,
Surrogate: 4-Bromofluorobenzene	51.6		"	50.0		103	80-120			
LCS (EC70201-BS1)				Prepared: 0)3/02/07 Ai	nalyzed: 03	/07/07			
Benzene	0.0566	0.00100	mg/L	0.0500	,	113	80-120			
Toluene	0.0512	0.00100		0.0500		102	80-120			
Ethylbenzene	0.0484	0.00100	*	0.0500		96. 8	80-120			
Xylene (p/m)	0.0955	0.00100		0.100		95.5	80-120			
Xylene (o)	0.0444	0.00100		0.0500		88.8	80-120			٠
Surrogate: a,a,a-Trifluorotoluene	57.7		ug/l	50.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	54.5		"	50.0		109	80-120			
Calibration Check (EC70201-CCV1)				Prepared: 0)3/02/07 Ai	nalyzed: 03	/07/07			
Benzene	59.0		ug/l	50.0		118	80-120			
Toluene	53.4		н	50.0		107	80-120			
Ethylbenzene	51.9			50.0		104	80-120			
Xylene (p/m)	98.7		н	100		98.7	80-120			
Xylene (o)	46.6		•	50.0		93.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	58.5		"	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	59.0		"	50.0		118	80-120			
Matrix Spike (EC70201-MS1)	Sou	urce: 7C02009-	01	Prepared: 0)3/02/07 Ai	nalyzed: 03	/07/07			
Benzene	0.0588	0.00100	mg/L	0.0500	ND	118	80-120 ·			
Toluene	0.0535	0.00100		0.0500	ND	107	80-120			
Sthylbenzene	0.0537	0.00100	•	0.0500	ND	107	80-120			
Kylene (p/m)	0.101	0.00100		0.100	ND	101	80-120			
Kylene (o)	0.0474	0.00100		0.0500	ND	94.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	. 61.8		ug/l	50.0		124	80-120			S
Surrogate: 4-Bromofluorobenzene	62.8		"	50.0		126	80-120			S



Environmental Lab of Texas A Xenco Laboratories Company

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

Project: EME I-1 SWD 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 EC70201 - EPA 5030C (GC)

Matrix Spike Dup (EC70201-MSD1)	Sou	rce: 7C02009-	01	Prepared: 0	3/02/07 A					
Benzene	0.0564	0.00100	mg/L	0.0500	ND	113	80-120	4.33	20	
Toluene	0.0521	0.00100	"	0.0500	ND	104	80-120	2.84	20	
Ethylbenzene	0.0533	0.00100	"	0.0500	ND	107	80-120	0.00	20	
Xylene (p/m)	0.0999	0.00100	*	0.100	ND	99.9	80-120	1.10	20	
Xylene (o)	0.0468	0.00100	"	0.0500	ND	93.6	80-120	1.27	20	
Surrogate: a,a,a-Trifluorotoluene	61.4		ug/l	50.0		123	80-120			S-04
Surrogate: 4-Bromofluorobenzene	63.4		"	50.0		127	80-120			S-04

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

Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC70704 - General Preparatio	on (WetChem)									
Blank (EC70704-BLK1)				Prepared &	Analyzed:	03/09/07				
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	н							
Bicarbonate Alkalinity	ND	2.00	n							
Iydroxide Alkalinity	ND	0.100	n							
LCS (EC70704-BS1)				Prepared &	Analyzed:	03/09/07				
Total Alkalinity	170	2.00	mg/L				85-115			
Bicarbonate Alkalinity	170	2.00	×	200		85.0	85-115			
Duplicate (EC70704-DUP1)	Sou	rce: 7C01005-	-01	Prepared &	: Analyzed:	03/09/07				
Fotal Alkalinity	100	2.00	mg/L		110			9.52	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	м		0.00				20	
Reference (EC70704-SRM1)				Prepared &	Analyzed:	03/09/07				
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch EC70715 - General Preparatio	on (WetChem)									
Blank (EC70715-BLK1)				Prepared: (03/05/07 A	nalyzed: 03	/08/07			
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EC70715-DUP1)	Sou	rce: 7C01013-	01	Prepared: (03/05/07 A	nalyzed: 03	/08/07			
Fotal Dissolved Solids	4630	10.0	mg/L	1	4520			2.40	20	
Duplicate (EC70715-DUP2)	Sou	rce: 7C01015-	-04	Prepared: (03/05/07 Ai	nalyzed: 03	/08/07			
Fotal Dissolved Solids	12500	10.0	mg/L		12100			3.25	20	



Environmental Lab of Texas A Xenco Laboratories Company

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

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
Ашатуте	Kesuit	Lunu	Units	Level	Result	%REC	Limits	KPD	Limit	Notes
Batch EC70717 - General Preparation (VetChem)									
Blank (EC70717-BLK1)				Prepared: ()3/07/07 At	nalyzed: 03	8/08/07			
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	N							
LCS (EC70717-BS1)				Prepared: ()3/07/07 Ar	nalyzed: 03	3/08/07			
Sulfate	9.86	0.500	mg/L	10.0		98.6	80-120			
Chloride	9.11	0.500	"	10.0	•	91.1	80-120			
Calibration Check (EC70717-CCV1)				Prepared: ()3/07/07 Ai	nalyzed: 03	3/08/07			
Sulfate	11.7		mg/L	10.0		117	80-120			
Chloride	8.24			10.0		82.4	80-120			
Duplicate (EC70717-DUP1)	Sour	-ce: 7B28002-	-05	Prepared: ()3/07/07 A	nalyzed: 03	3/08/07			
Sulfate	0.766	0.500	mg/L		0.755			1.45	20	
Chloride	0.823	0.500	н		0.811			1.47	20	
Duplicate (EC70717-DUP2)	Sou	rce: 7C01014	-01	Prepared: ()3/07/07 A	nalyzed: 03	3/08/07			
Chloride	11300	250	mg/L		11400			0.881	20	
Sulfate	4410	250	м		4360	*		1.14	20	
Matrix Spike (EC70717-MS1)	Sou		-05	Prepared: (03/07/07 Ai	nalyzed: 03	3/08/07			
Chloride	9.17	0.500	mg/L	10.0	0.811	83.6	80-120			
Sulfate	9.35	0.500	"	10.0	0.755	86.0	80-120			
Matrix Spike (EC70717-MS2)	Sou	rce: 7C01014-	-01	Prepared: (03/07/07 Ai	nalyzed: 03	3/08/07			
Sulfate	9950	250	mg/L	5000	4360	112	80-120			
Chloride	17500	250	n	5000	11400	122	80-120			

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 8 of 10

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

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

Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		EBVITOBIL			AAS					
Analyte	Result	R e porting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC70801 - 6010B/No Digestion										
Blank (EC70801-BLK1)				Prepared &	Analyzed:	03/07/07				
Calcium	ND	0.200	mg/L							
Magnesium	ND	0.0200	11							
Potassium	ND	1.00	"							
Sodium	ND	1.00	н							
LCS (EC70801-BS1)				Prepared &	Analyzed:	03/07/07				•
Calcium	0.974		mg/L	1.00		97.4	85-115			
Magnesium	0.990		н	1.00		99.0	85-115			
Potassium	9.59		н	10.0		95.9	85-115			
Sodium	. 9.82		Π	11.0		89.3	85-115			
LCS Dup (EC70801-BSD1)				Prepared &	z Analyzed:	03/07/07				
Calcium	0.994		mg/L	1.00		99.4	85-115	2.03	20	
Magnesium	1.01		"	1.00		101	85-115	2.00	20	
Potassium	9.80			· 10.0		98.0	85-115	2.17	20	
Sodium	10.1		N	11.0		91.8	85-115	2.81	20	
Matrix Spike (EC70801-MS1)	Sou	rce: 7C01013-	-01	Prepared &	Analyzed:	03/07/07				
Calcium	368	0.0810	' mg/L	2.00	376	NR	75-125			М
Magnesium	182	0.0360	н	2.00	183	NR	75-125			М
Potassium	56.9	0.0600	н	20.0	24.3	163	75-125			М
Sodium	1170	0.0430	N	22.0	812	NR	75-125			М
Matrix Spike Dup (EC70801-MSD1)	Sou	rce: 7C01013-	-01	Prepared &	z Analyzed:	03/07/07				
Calcium	369	0.0810	mg/L	2.00	376	NR	75-125	0.271	20	М
Magnesium	180	0.0360		2.00	183	NR	75-125	1.10	20	М
Potassium	57.0	0.0600		20.0	24.3	164	75-125	0.176	20	М
Sodium	1180	0.0430	н	22.0	812	NR	75-125	0.851	20	М

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

Notes and Definitions

	S-04	The surrogate recover	y for this sample is outside of established control limits due to a sample matrix effec
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- O-04 This sample was analyzed outside the EPA recommended holding time.
- M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- M1 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

l Jan wor

3/9/2007

Report Approved By:

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.

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Date:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST	I-20 East xas 79765 Fax: 432-563-1713	Project Name: EME I-1 SVVD	Project #	Project Loc: T20S-R36E-Sec1 1.2 Lee County New Mexico	PO#	471 Report Format: K Standard	alornet.com			H ₂ SO, NaOH NaOH None (1) 1 Liter HDPE None (1) 1 Liter HDPE None (1) 1 Liter HDPE SV-Dimking Vate SL-Sulfsolid FPH, 1×1005 TX 1005 TPH, 1×1005 TX 1005 TPH, 1×1005 TX 1005 Netals: As Ag Ba Cd Cr Pb Hg Metals: As Ag Ba Cd Cr Pb Hg Norgalities Sonivoratiles Stander (Cl, SO4, Alkalimity) FPH, 1×1005 TX 1005 TPH, 1×1005 TX 1005 Norgalities Norgalities Stander (Cl, SO4, Alkalimity) Standard TAT (Pre-Selecture) 24, % RCI Standard TAT (Pre-Selecture) Standard TAT (Pre-Selecture) 24, % Standard TAT (Pre-Selecture) 24, %	GW X X X X					I I	VOCs Free of Headspace?	Date Lapels on container(s) Custody seals on container(s) ON N	Sample Hand Delivered Presenting Client Rep. 7 Particular Client Rep	emperature Upon Receipt
	12600 West I-20 East Odessa, Texas 79765	kpope@riceswd.com				Fax No: (505) 397-147	e-mail: <u>rozanne@valornet.com</u>		Preservatio	Date Sampled Time Sampled ieid Fillered ioa HCI (2) 40 mi glass viais ioa	<u> </u>	2/26/2007 11:50 3 X 2	2/26/2007 10:15 3 X 2			matt@riceswd.com rozanne@valornet.com		Received by:	Received by:	Received by ELOT
vironmental Lab of Texas		Kristin Farris Popé kpope	RICE Operating Company	122 W. Taylor Street	Hobbs, New Mexico 88240	(505) 393-9174	Rozanne Johnson (505)631-9310		0101311 1/11	Hinding Depth Seginning Depth CO CO CO CO CO CO CO CO CO CO CO CO CO	3			-		kpope@riceswd.com	jpurvis@riceswd.com	3-1-07 5:30	Time	Date
M ironmenta		Project Manageř:		Company Address:	City/State/Zip:	Telephone No:	Sampler Signature:	Care I	ORDER #: +0 1C C	(Ajno esu dal) # 문A.	Monitor Well #1		-03 Monitor Well #3			Special Instructions: Please email to		Bezanne Johnson	Relinquished by:	Relinquished by:

.

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

Client	Rive Op,
Date/ Time:	21107 3:30
Lab ID # :	1001013
Initials:	<u> </u>

Sample Receipt Checklist

وتترينه وحضو	and the second	5.55. S		C	lient Initials
#1	Temperature of container/ cooler?	Yes	No	0·0 °C	
#2	Shipping container in good condition?	(CES)	No		
#3	Custody Seals intact on shipping container/ cooler?	Xes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	XES .	No	Not Present	
#5	Chain of Custody present?	Xes	No		
#6	Sample instructions complete of Chain of Custody?	XED	No	• • • • • • • • • • • • • • • • • • •	
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Ye	No	ID written on Cont / Lid	
#9	Container label(s) legible and intact?	1 Ves	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	100	No		
#11	Containers supplied by ELOT?	1283	No		
#12	Samples in proper container/ bottle?	Yeg	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	<u></u>
#14	Sample bottles intact?	Vesi	No		•
#15	Preservations documented on Chain of Custody?	206	No		<u>e Ser er r</u>
#16	Containers documented on Chain of Custody?	\$00	No		<u> </u>
#17	Sufficient sample amount for indicated test(s)?	1 des	Nö	See Below	
#18	All samples received within sufficient hold time?	Ves	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Xes,	No	Not Applicable	- 10 2010 - 10 2010 - 10

Variance Documentation

Contact:	Contacted by:		Date/ Time:	<u> </u>
Regarding:	5. 	•		
Corrective Action Taken:				
				······································

Check all that Apply:

See attached e-mail/ fax

Client understands and would like to proceed with analysis Cooling process had begun shortly after sampling event



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Analytical Report

Prepared for:

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

Project: EME I-1 SWD Project Number: None Given Location: T20S-R36E-Sec1 I ~ Lea County New Mexico

Lab Order Number: 7F06019

Report Date: 06/27/07

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7F06019-01	Water	06/04/07 14:50	06-06-2007 12:51
Monitor Well #2	7F06019-02	Water	06/04/07 15:55	06-06-2007 12:51
Monitor Well #3	7F06019-03	Water	06/04/07 14:00	06-06-2007 12:51

Rice Operating Co.

122 W. Taylor Hobbs NM, 88240 Project: EME I-1 SWD 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	Dronarad	Analyzed	Method	Matte
Monitor Well #1 (7F06019-01) Water	icour			Dilution	Бакл	Prepared	Analyzed	Method	Notes
Benzene	J [0.000956]	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	J [0.000533]	0.00100	H	n	н	n	"		
Ethylbenzene	ND	0.00100			н	"	н	n	
Xylene (p/m)	ND	0.00100	"	"	н	*	n	"	
Xylene (0)	ND	0.00100	"	"	п	"	н	17	
Surrogate: a,a,a-Trifluorotoluene		122 %	80-1.	20	"	"	"	. "	S-04
Surrogate: 4-Bromofluorobenzene		105 %	80-1.	20	"	"	"	"	
Monitor Well #2 (7F06019-02) Water									
Benzene	0.00611	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	0.00410	0.00100	"	"	n	n	W	u .	
Ethylbenzene	0.00268	0.00100		31	и	n		n	
Xylene (p/m)	0.00418	0.00100	н	H	п	n	н	n	
Xylene (o)	0.00101	0.00100		н		n		n	
Surrogate: a,a,a-Trifluorotoluene		137 %	80-1.	20	<i>11</i> -	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		106 %	80-1.	20	"	н	"	"	
Monitor Well #3 (7F06019-03) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	N	"	н	п	н	"	
Ethylbenzene	ND	0.00100	".	"	и	n	п	"	
Xylene (p/m)	ND	0.00100	н	"		n	п	"	
Xylene (0)	ND	0.00100	u	"	18	n	п		
Surrogate: a,a,a-Trifluorotoluene		112 %	80-1.	20	"`	"	n	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	80-1.	20	"	"	"	"	



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Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7F06019-01) Water									
Total Alkalinity	450	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	2910	50.0	"	100	EF71203	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	5850	10.0		1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	123	50.0		100	EF71203	06/12/07	06/12/07	EPA 300.0	
Monitor Well #2 (7F06019-02) Water									
Total Alkalinity	470	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	4030	50.0		100	EF71203	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	7990	10.0	n	1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	74.7	50.0		100	EF71203	06/12/07	06/12/07	EPA 300.0	
Monitor Well #3 (7F06019-03) Water									
Total Alkalinity	450	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	3770	50.0	n	100	EF71203	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	6900	10.0		1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	199	50.0	"	100	EF71203	06/12/07	06/12/0 7	EPA 300.0	

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Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7F06019-01) Water									
Calcium	353	8.10	mg/L	100	EF70807	06/08/0 7	06/08/0 7	EPA 6010B	
Magnesium	174	1.80	н	50	n	*			
Potassium	14.7	0.600	н	10	n	n	n	n	
Sodium	778	21.5	"	500	n	"	· •	"	
Monitor Well #2 (7F06019-02) Water									
Calcium	439	8.10	mg/L	100	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	246	1.80	n	50	n	n	н	*	
Potassium	13.3	0.600	n	10	n	h	н	"	
Sodium	1130	21.5		500	n	n	N	H	
Monitor Well #3 (7F06019-03) Water									
Calcium	430	8.10	mg/L	100	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	189	1.80	u.	50	n		N	n	
Potassium	14.3	0.600		10	n	н	н	H	
Sodium	985	21.5	н	500	n	"	ń	n	

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

Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental	Lab	of	Texas
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Amahata	Result	Reporting Limit	T Tao ita	Spike	Source	WEEG	%REC	DDD	RPD	NT /
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF70802 - EPA 5030C (GC)										
Blank (EF70802-BLK1)				Prepared &	Analyzed	: 06/08/07				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	v							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	54.1		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	45.4		"	50.0		90.8	80-120			
LCS (EF70802-BS1)				Prepared 8	د Analyzed	: 06/08/07				
Benzene	0.0548	0.00100	mg/L	0.0500	5	110	80-120			
Toluene	0.0556	0.00100		0.0500		111	80-120			
Ethylbenzene	0.0543	0.00100		0.0500		109	80-120			
Xylene (p/m)	0.101	0.00100		0.100		101	80-120			
Xylene (o)	0.0569	0.00100	н	0.0500		114	80-120			
Surrogate: a, a, a-Trifluorotoluene	54.6		ug/l	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	51.7		"	50.0		103	80-120			
Calibration Check (EF70802-CCV1)				Prenared: (06/08/07 A	nalyzed: 06	/09/07			
Benzene	0.0576		mg/L	0.0500		115	80-120			
Toluene	0.0567		"	0.0500		113	80-120			
Ethylbenzene	0.0537		н	0.0500		107	80-120			
Xylene (p/m)	0.0999		н	0.100		99.9	80-120			
Xylene (o)	0.0573		н	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	57.9		ug/l	50.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	53.0		"	50.0		106	80-120			
Matrix Spike (EF70802-MS1)	Sou	rce: 7F06019-	03	Prepared:	06/08/07 A	nalyzed: 06	5/09/07			
Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120			
Toluene	0.0593	0.00100		0.0500	ND	119	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.107	0.00100	н	0.100	ND	107	80-120			
Xylene (o)	0.0614	0.00100		0.0500	ND	123	80-120			1
Surrogate: a,a,a-Trifluorotoluene	58.4		ug/l	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	56.2		"	50.0		112	80-120			

-Environmental Lab of Texas

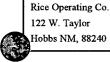
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122 W. Taylor Hobbs NM, 88240

Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	1
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EF70802 - EPA 5030C (GC)

Matrix Spike Dup (EF70802-MSD1)	Sou	Source: 7F06019-03			Prepared: 06/08/07 Analyzed: 06/09/07					
Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120	6.01	20	
Toluene	0.0566	0.00100	"	0.0500	ND	113	80-120	5.17	20	
Ethylbenzene	0.0556	0.00100	и	0.0500	ND	111	80-120	5.26	20	
Xylene (p/m)	0.102	0.00100	и	0.100	ND	102	80-120	4.78	20	
Xylene (o)	0.0584	0.00100	W	0.0500	ND	117	80-120	5.00	20	
Surrogate: a, a, a-Trifluorotoluene	58.3		ug/l	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	54.2		"	50.0		108	80-120			



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Rice Operating Co.	Project: EME I-1 SWD Fax: (505) 397-1471									
122 W. Taylor	Project Number: None Given									
Hobbs NM, 88240		Project Manager: Kristin Farris-Pope								
General C	Chemistry Paran	neters by	EPA /	Standard	Method	is - Qual	lity Cont	rol		
	•	-		ab of Tex			•			
	·	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	- %REC	Limits	RPD	Limit	Notes
Batch EF71110 - General Preparation	(WetChem)									
Blank (EF71110-BLK1)				Prepared: 0	6/07/07 A	nalyzed: 06	/11/07			
Fotal Dissolved Solids	ND	10.0	mg/L							
Duplicate (EF71110-DUP1)	Source: 7F06016-01 Prepared: 06/07/07 Analyzed: 06/11/07									
Total Dissolved Solids	1270	10.0	mg/L		1210			4.84	20	
Duplicate (EF71110-DUP2)	Sour	:e: 7F06019-	03	Prepared: 0	6/07/07 A	nalyzed: 06	/11/07			
Total Dissolved Solids	7020	10.0	mg/L		6900			1.72	20	
Blank (EF71203-BLK1)				Prepared &	Analyzed	06/12/07				
Chloride	ND	0.500	mg/L							
	1.12									
Sulfate	ND	0.500	u							
		0.500	и	Prepared &	Analyzed	06/12/07				
LCS (EF71203-BS1)		0.500	" mg/L	Prepared &	Analyzed	99.1	80-120			
LCS (EF71203-BS1)	ND				Analyzed		80-120 80-120			
LCS (EF71203-BS1) Chloride Sulfate	ND 9.91	0.500	mg/L	10.0		99.1 94.5				
LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1)	ND 9.91	0.500	mg/L	10.0		99.1 94.5				
LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1) Chloride	ND 9.91 9.45	0.500	mg/L "	10.0 10.0 Prepared &		99.1 94.5 : 06/12/07	80-120			
LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1) Chloride Sulfate	ND 9.91 9.45 9.55 12.0	0.500	mg/L " mg/L "	10.0 10.0 Prepared & 10.0	Analyzed	99.1 94.5 : 06/12/07 95.5 120	80-120 80-120			
LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1) Chloride Sulfate Duplicate (EF71203-DUP1)	ND 9.91 9.45 9.55 12.0	0.500	mg/L " mg/L "	10.0 10.0 Prepared & 10.0 10.0	Analyzed	99.1 94.5 06/12/07 95.5 120 : 06/12/07	80-120 80-120	0.00	20	
LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1) Chloride Sulfate Duplicate (EF71203-DUP1) Sulfate	ND 9.91 9.45 9.55 12.0 Sour	0.500 0.500 ce: 7F05004	mg/L " mg/L " 01	10.0 10.0 Prepared & 10.0 10.0	Analyzed Analyzed	99.1 94.5 : 06/12/07 95.5 120	80-120 80-120	0.00 2.45	20 20	
LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1) Chloride Sulfate Duplicate (EF71203-DUP1) Sulfate Chloride	ND 9.91 9.45 9.55 12.0 Sour 586 289	0.500 0.500 ce: 7F05004 5.00	mg/L " 01 "	10.0 10.0 Prepared & 10.0 10.0	Analyzed Analyzed 586 282	99.1 94.5 : 06/12/07 95.5 120 : 06/12/07	80-120 80-120			
Sulfate LCS (EF71203-BS1) Chloride Sulfate Calibration Check (EF71203-CCV1) Chloride Sulfate Duplicate (EF71203-DUP1) Sulfate Chloride Duplicate (EF71203-DUP2) Chloride	ND 9.91 9.45 9.55 12.0 Sour 586 289	0.500 0.500 xe: 7F05004 5.00 5.00	mg/L " 01 "	10.0 10.0 Prepared & 10.0 10.0 Prepared &	Analyzed Analyzed 586 282	99.1 94.5 : 06/12/07 95.5 120 : 06/12/07	80-120 80-120			

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

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 EF71203 - General Preparation	n (WetChem)									
Matrix Spike (EF71203-MS1)	Sour	ce: 7F05004-	01	Prepared &	Analyzed:	06/12/07				
Chloride	378	5.00	mg/L	100	282	96.0	80-120			
Sulfate	661	5.00	n	100	586	75.0	80-120			QM-1
Matrix Spike (EF71203-MS2)	Sour	ce: 7F06017-	01	Prepared &	Analyzed:	06/12/07				
Sulfate	654	10.0	mg/L	200	438	108	80-120			
Chloride	623	10.0	n	200	401	111	80-120			
Batch EF71309 - General Preparation	n (WetChem)									
_	n (WetChem)			D	A . 1 1	0.6/10/07				
Blank (EF71309-BLK1)	· · · · · · · · · · · · · · · · · · ·	2.00		Prepared &	: Analyzed:	06/13/07				
Blank (EF71309-BLK1) Total Alkalinity	ND	2.00	mg/L	Prepared &	: Analyzed:	06/13/07				
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity	ND ND	0.100	n	Prepared &	z Analyzed:	06/13/07				
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity Bicarbonate Alkalinity	ND ND ND	0.100 2.00	19	Prepared &	z Analyzed:	06/13/07				
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity	ND ND	0.100	n	Prepared &	Analyzed:	06/13/07				
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity Bicarbonate Alkalinity Hydroxide Alkalinity	ND ND ND	0.100 2.00	19		Analyzed:					
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity Bicarbonate Alkalinity	ND ND ND	0.100 2.00	19				85-115			
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity Bicarbonate Alkalinity Hydroxide Alkalinity LCS (EF71309-BS1) Bicarbonate Alkalinity	ND ND ND ND 174	0.100 2.00 0.100	" " mg/L	Prepared & 200		06/13/07 87.0	85-115			
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity Bicarbonate Alkalinity Hydroxide Alkalinity LCS (EF71309-BS1) Bicarbonate Alkalinity	ND ND ND ND 174	0.100 2.00 0.100 2.00	" " mg/L	Prepared & 200	z Analyzed:	06/13/07 87.0	85-115	0.00	20	
Blank (EF71309-BLK1) Total Alkalinity Carbonate Alkalinity Bicarbonate Alkalinity Hydroxide Alkalinity LCS (EF71309-BS1) Bicarbonate Alkalinity Duplicate (EF71309-DUP1)	ND ND ND ND 174 Sour	0.100 2.00 0.100 2.00 ce: 7F06017-	" " mg/L 02	Prepared & 200 Prepared &	Analyzed:	06/13/07 87.0 06/13/07	85-115	0.00	20	



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Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD						
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes					
Batch EF70807 - 6010B/No Digestion															
Blank (EF70807-BLK1)	Prepared & Analyzed: 06/08/07														
Calcium	ND	0.0810	mg/L												
Magnesium	ND	0.0360	n												
Potassium	ND	0.0600	N												
Sodium	ND	0.0430													
Calibration Check (EF70807-CCV1)				Prepared &	k Analyzed:	06/08/07									
Calcium	1.78		mg/L	2.00		89.0	85-115								
Magnesium	1.83		n	2.00		91.5	85-115								
Potassium	2.28		"	2.00		114	85-115								
Sodium	1.82		۳	2.00		91.0	85-115								
Duplicate (EF70807-DUP1)	Sou	rce: 7F05011-	03	Prepared 8	& Analyzed:	06/08/07									
Calcium	139	4.05	mg/L		139			0.00	20						
Magnesium	29.5	0.360	н		29.8			1.01	20						
Potassium	6.37	0.600	н		6.57			3.09	20						
Sodium	121	2.15	N		124			2.45	20						

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Rice Operating Co. 122 W. Taylor

Hobbs NM, 88240

Project: EME I-1 SWD Project Number: None Given Project Manager: Kristin Farris-Pope

Notes and Definitions

	Notes and Definitions
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-10	LCS/LCSD were analyzed in place of MS/MSD.
M1	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



Report Approved By:

/ Service

6/27/2007

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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Page 10 of 10

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### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

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nitials:

Client: Date/ Ti _ab ID #

### Sample Receipt Checklist

**Client Initials** Yes No #1 Temperature of container/ cooler? C 1990) (B. 19 #2 Shipping container in good condition? No Mes. No #3 Custody Seals intact on shipping container/ cooler? Not Present #4 Custody Seals intact on sample bottles/ container? Yes No Not Present ¥5 Chain of Custody present? Mes No 16 Sample instructions complete of Chain of Custody? res No Yes #7 Chain of Custody signed when relinquished/ received? No #8 Chain of Custody agrees with sample label(s)? No Yes, ID written on Cont./ Lid 49 Container label(s) legible and intact? Yes No Not Applicable #10 Sample matrix/ properties agree with Chain of Custody? Xes No #11 Containers supplied by ELOT? No Yes t12 Samples in proper container/ bottle? No See Below No Samples properly preserved? Kes See Below No Sample bottles intact? Yes #15 Preservations documented on Chain of Custody? Yes No #16 Containers documented on Chain of Custody? Yes? No 117 Sufficient sample amount for indicated test(s)? Nes No See Below #18 All samples received within sufficient hold time? Yes No See Below Not Applicable £19 Subcontract of sample(s)? Yes No #20 VOC samples have zero headspace? Yes No Not Applicable

### Variance Documentation

Contacted by:

Date/ Time

Contact:

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



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 08/22/07 Reporting Date: 08/27/07 Project Number: NOT GIVEN Project Name: EME I-1 SWD Project Location: T20S-R36E-SEC1 I ~ LEA COUNTY -NEW MEXICO Sampling Date: 08/20/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	TE and an and a second s	08/23/07	08/23/07	08/23/07	08/23/07
H13154-1	MONITOR WELL #1	<0.004	< 0.004	< 0.004	<0.012
H13154-2	MONITOR WELL #2	<0.004	<0.004	<0.004	<0.012
H13154-3	MONITOR WELL #3	< 0.004	< 0.004	< 0.004	<0.012
					11 A A
•				· · · ·	
<b>Quality Control</b>		0.096	0.085	0.086	0.264
True Value QC		0.100	0.100	0.100	0.300
% Recovery	4.5 1	96	85	86	88
<b>Relative Perce</b>	nt Difference	0.9	1.8	0.8	2.8

METHOD: EPA SW-846 8021B

Chemist





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PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

8049

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 08/22/07 Reporting Date: 08/28/07 Project Owner: NOT GIVEN Project Name: EME I-1 SWD Project Location: T20S-R36E-SEC1 I~LEA COUNTY, NM Sampling Date: 08/20/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM/KS

120.1

310.1

		Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DA	TE:	08/23/07	08/23/07	08/23/07	08/23/07	08/23/07	08/23/07
H13154-1	MONITOR WELL #1	681	692	226	6.45	8,200	228
H13154-2	MONITOR WELL #2	846	918	278	7.90	10,390	204
H13154-3	MONITOR WELL #3	1061	452	250	10.5	9,090	368
Quality Control		NR	51.9	49.2	1.94	1414	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	104	98.4	97.0	100	NR
<b>Relative</b> Perce	nt Difference	NR	8.0	6:3	2.1	.0,6	NR

SM3500-Ca-D 3500-Mg E

		cſ	SO4	CO3	HCO ₃	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	ATE:	08/23/07	08/23/07	08/23/07	08/23/07	08/23/07	08/23/07
H13154-1	MONITOR WELL #1	2599	249	Ö	278	6.79	8,049
H13154-2	MONITOR WELL #2	3449	217	0	249	6.80	10,188
H13154-3	MONITOR WELL #3	2899	26.6	0	449	6.71	8,116
Quality Contr	rol	520	25.4	NR	939	6.95	NR
True Value C	2C	500	25.0	NR	1000	7.00	NR
% Recovery		104	101	NR	93.9	99.3	NR
Relative Percent	cent Difference	3.9	1.1	NR	1.4	< 0.1	NR
METHODS:	a nanovan na manja ka saanga na	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1

08-28-07 Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In how we have a shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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	01 East Mai	Mexico 86240 Tel (505) 393-2326 Fax (505) 393-2476	Company Name. RICE Ope	roject Manager	(ristin F	Address:	22 W Tayl	Phone #		Project #:	Project Location T20S-R36		LAB#	ONLY	12 159-1		. 1.3							مر بند الم م	Relinguished by	Rozanne Johnson	Relinquished by:		Delivered By:	Sampler
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ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/08/07 Reporting Date: 11/19/07 Project Number: NOT GIVEN Project Name: EME I-1 SWD Project Location: T205 R36E SEC1 I - LEA COUNTY, NM Sampling Date: 11/05/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DAT	Έ	11/08/07	11/08/07	11/08/07	11/08/07
H13668-1	MONITOR WELL #1	0.001	<0.001	<0.001	< 0.003
H13668-2	MONITOR WELL # 2	0.016	0.005	0.005	0.008
H13668-3	MONITOR WELL # 3	<0.001	<0.001	<0.001	<0.003
Quality Control		0.111	0.109	0.110	0.331
True Value QC		0.100	0.100	0.100	0.300
% Recovery		111	109	110	110
Relative Percen	t Difference	10.6	3.9	2.9	3.8

METHOD: EPA SW-846 8021B

Chemist





H13668b Rice

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: KRISTIN FARRIS-POPE 122 W. TAYLOR STREET HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/08/07 Reporting Date: 11/15/07 Project Number: NOT GIVEN Project Name: EME I-1 SWD Project Location: T20S-R36E-SEC1 I~LEA COUNTY, NM Sampling Date: 11/05/07 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: SB Analyzed By: HM/KS

		Na	Са	Mg	K	Conductivity (u S/cm)	T-Alkalinity
LAB NUMBE	R SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u sicili)	(mgCaCO ₃ /L)
ANALYSIS D	ATE:	11/14/07	11/14/07	11/14/07	11/14/07	11/09/07	11/09/07
H13668-1	MONITOR WELL #1	1,205	369	246	12.6	9,090	388
H13668-2	MONITOR WELL #2	1,659	359	319	11.4	11,300	476
H13668-3	MONITOR WELL #3	1,424	539	262	8.75	10,630	384
Quality Contr	ol	NR	49.2	51.6	2.95	1,389	NR
True Value C	DC	NR	50.0	50.0	3.00	1,404	NR
% Recovery	······································	NR	98.5	103	98.3	98.9	NR
Relative Percent	cent Difference	NR	< 0.1	1.5	5.0	0.5	NR
METHODS:		SMa	3500-Ca-D	13500-Mg E	8049	120.1	310.1

		C	SO4	CO ₃	HCO ₃	pH	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	ATE:	11/09/07	11/12/07	11/09/07	11/09/07	11/09/07	11/13/07
H13668-1	MONITOR WELL #1	2,950	27.3	0	473	6.75	5,840
H13668-2	MONITOR WELL #2	3,800	2.87	0	581	6.75	7,282
H13668-3	MONITOR WELL #3	3,550	144	0	468	6.75	6,852
Quality Contri	ol	500	24.3	NR	1000	6.99	NR
True Value Q		500	25.0	NR	1000	7.00	NR
% Recovery	**************************************	100	97.0	NR	100	99.9	NR
Relative Perc	ent Difference	< 0.1	3.5	ŇR	< 0.1	< 0.1	NR
METHODS:	Ar A same a PA - Markana a Markana a Markana A - A - A - A - A - A - A - A - A - A	SM4500-CI-B	375.4	310.1	310.1	150.1	160.1



PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including three for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In 19000 shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred, by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





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	101 East Martand - Hobbs, New Mexico 88240	Tel (505) 393-2328 Fax (505) 393-2476	mpany Name: RICE Operating Company	1.	Kristin Farris-Pope, Project Scientist	(Street, City, Zip)	122 W Taylor Street ~ Hobbs, New Mexico 88240	6		oject Location: T20S-R36E-Sec1 I ~ Lea County - New Mexico	<b> </b>		~	Ň	1	Ţ		- <u> </u>	┝─┝	<u>Ц</u>	Þ,	, ž	Sor	×		2	
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# ATTACHMENT C

Field Data Forms





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CLIENT:	RICE OF	erating Co	mpany	WELL ID: Monitor Well #1					
SYSTEM:	EME			DATE: February 26, 2007					
SITE LOCATION:	<u>I - 1</u>			SAMPLER: Rozanne Johnson					
PURGING METHOD				Pump, Type: Direct from Discharge Hose D Other:					
DISPOSAL METHOL TOTAL DEPTH OF V DEPTH TO WATER HEIGHT OF WATER WELL VOLUME:	VELL: : R COLUMN	45.20 35.11 10.09	Con-sit Feet Feet Feet	e Drum Drums I SWD Disposal Facility          2       In. Well Diameter         5       Gallons purged prior to sampling					
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS					
9:10	19.4	8.28	6.81	Clear / No Odor					
				Samples Collected					
				BTEX (2-40ml VOA)					
				Major lons/TDS (1-1000ml Plastic)					

#### COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT:	RICE Op	erating Co	mpany	WELL ID: Monitor Well #1					
SYSTEM:	EME			DATE: June 4, 2007					
SITE LOCATION:	1-1			SAMPLER: Rozanne Johnson					
PURGING METHOD SAMPLING METHOI				Pump, Type:					
DISPOSAL METHOD TOTAL DEPTH OF V DEPTH TO WATER HEIGHT OF WATEF WELL VOLUME:	VELL: : R COLUMN:	45.20	On-sil Feet Feet Feet	te Drum Drums Drums SWD Disposal Facility          2       In. Well Diameter         5       Gallons purged prior to sampling					
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS					
14:50	21.4	8.65	6.79	Clear / No Odor					
				Samples Collected					
			_	BTEX (2-40ml VOA)					
				Major lons/TDS (1-1000ml Plastic)					
		1							

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT:	RICE Op	erating Co	mpany	WELL ID: Monitor Well #1
SYSTEM:	EME	_		DATE: August 20, 2007
SITE LOCATION:	I - 1			SAMPLER: Rozanne Johnson
PURGING METHOD SAMPLING METHOI				Pump, Type: Direct from Discharge Hose  Other:
TOTAL DEPTH OF N DEPTH TO WATER HEIGHT OF WATEF	NELL: :	45.20 35.15 10.05	On-sid Feet Feet Feet	e Drum Drums I SWD Disposal Facility          2       In. Well Diameter         5       Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
8:15	20.3	8.17	6.82	Clear / No Odor
	20.3	0.17	0.02	Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)
	-			· · · · · · · · · · · · · · · · · · ·
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COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Laboratories in Hobbs, New Mexico for BTEX, Major lons, and TDS analysis.

CLIENT:	RICE OF	erating Co	mpany	WELL ID: Monitor Well #1
SYSTEM:	EME			DATE: November 5, 2007
SITE LOCATION:	I-1			SAMPLER: Rozanne Johnson
PURGING METHOD SAMPLING METHOI			_	Pump, Type:
DISPOSAL METHO TOTAL DEPTH OF V DEPTH TO WATER HEIGHT OF WATEF WELL VOLUME:	VELL: : R COLUMN:	45.20 35.24 9.96	On-sit Feet Feet Feet	e Drum ☐ Drums ☑ SWD Disposal Facility In. Well Diameter Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
11:35	19.2	9.00	6.79	Clear / No Odor Samples Collected BTEX (2-40ml VOA) Major lons/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Laboratories in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #2
SYSTEM: EME				DATE: February 26, 2007
SITE LOCATION:	I - 1			SAMPLER: Rozanne Johnson
PURGING METHOD: I Hand Bailed				
SAMPLING METHO	D:	Disposa	ble Bailer	Direct from Discharge Hose Other:
DISPOSAL METHO	D OF PURG	E WATER:	🗋 On-sit	te Drum 🔲 Drums 🗹 SWD Disposal Facility
TOTAL DEPTH OF WELL:       45.32       Feet         DEPTH TO WATER:       33.72       Feet         HEIGHT OF WATER COLUMN:       11.60       Feet         WELL VOLUME:       1.9       Gal.				2 In. Well Diameter 6 Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
11:50	20.7	11.39	6.47	Clear / Slight Odor
	-			Samples Collected
		BTEX (2-40ml VOA)		
				Major lons/TDS (1-1000ml Plastic)

#### COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT:	RICE Op	erating Co	mpany	WELL ID: Monitor Well #2
SYSTEM: EME				DATE: June 4, 2007
SITE LOCATION:	l - 1			SAMPLER: Rozanne Johnson
PURGING METHOD: I Hand Bailed I F				Pump, Type:
DISPOSAL METHOD OF PURGE WATER: On-sit TOTAL DEPTH OF WELL: 45.32 Feet DEPTH TO WATER: 33.65 Feet HEIGHT OF WATER COLUMN: 11.67 Feet WELL VOLUME: 1.9 Gal.				e Drum Drums Disposal Facility          2       In. Well Diameter         6       Gallons purged prior to sampling
TIME	TEMP. ℃	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
15:55	21.3	11.43	6.69	Clear / Strong Odor
				Samples Collected
				BTEX (2-40ml VOA)
	-			Major lons/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #2
SYSTEM: EME				DATE: August 20, 2007
SITE LOCATION:	1-1			SAMPLER: Rozanne Johnson
PURGING METHOD: I Hand Bailed				Pump, Type <u>:</u> Direct from Discharge Hose  Other:
DISPOSAL METHOD OF PURGE WATER: On-site TOTAL DEPTH OF WELL: 45.32 Feet DEPTH TO WATER: 33.75 Feet HEIGHT OF WATER COLUMN: 11.57 Feet WELL VOLUME: 1.9 Gal.				te Drum Drums SWD Disposal Facility          2       In. Well Diameter         6       Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	pH.	PHYSICAL APPEARANCE AND REMARKS
10:20	20.6	10.29	6.73	Clear / Strong Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Laboratories in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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CLIENT:	RICE Op	erating Con	mpany	WELL ID: Monitor Well #2
SYSTEM: EME				DATE: November 5, 2007
SITE LOCATION:	I - 1			SAMPLER: Rozanne Johnson
PURGING METHOD:   Hand Bailed  SAMPLING METHOD:  Disposable Bailer				Pump, Type: Direct from Discharge Hose
TOTAL DEPTH OF V DEPTH TO WATER: HEIGHT OF WATER	VELL: : ? COLUMN	45.32 33.92	On-sit Feet Feet Feet	e Drum Drums I SWD Disposal Facility          2       In. Well Diameter         6       Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
10:40	19.1	11.24	6.92	Clear / Strong Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
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COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Laboratories in Hobbs, New Mexico for BTEX, Major lons, and TDS analysis.

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CLIENT: RICE Operating Company				WELL ID: Monitor Well #3	
SYSTEM: EME				DATE: February 26, 2007	
SITE LOCATION:	I - 1			SAMPLER: Rozanne Johnson	
PURGING METHOD: I Hand Bailed Pr SAMPLING METHOD: I Disposable Bailer				Pump, Type: Direct from Discharge Hose  Other:	
DISPOSAL METHOD OF PURGE WATER: On-site Drum Drums SWD Disposal Facility TOTAL DEPTH OF WELL: 43.38 Feet DEPTH TO WATER: 34.63 Feet HEIGHT OF WATER COLUMN: 8.75 Feet 2 In. Well Diameter WELL VOLUME: 1.4 Gal. 5 Gallons purged prior to sampling					
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS	
*****					
10:15	19.4	9.63	6.78	Clear / No Odor	
				Samples Collected	
		BTEX (2-40ml VOA)			
				Major lons/TDS (1-1000ml Plastic)	

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #3	
SYSTEM: EME				DATE: June 4, 2007	
SITE LOCATION:	I - 1			SAMPLER: Rozanne Johnson	
PURGING METHOD: I Han				Pump, Type:	
DISPOSAL METHOD OF PURGE WATER: On-site Drum Drums SWD Disposal Facility TOTAL DEPTH OF WELL: 43.38 Feet DEPTH TO WATER: 34.55 Feet HEIGHT OF WATER COLUMN: 8.83 Feet 2 In. Well Diameter WELL VOLUME: 1.4 Gal. 5 Gallons purged prior to sampling					
TIMÉ	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS	
14:00	21.1	9.93	6.74	Clear / No Odor	
				Samples Collected	
				BTEX (2-40ml VOA)	
				Major Ions/TDS (1-1000ml Plastic)	
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COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #3
SYSTEM: EME				DATE: August 20, 2007
SITE LOCATION:	1 - 1			SAMPLER: Rozanne Johnson
PURGING METHOD: 🛛 Hand Bailed 🔲 Pu				Pump, Type:
SAMPLING METHO	D:	Disposa	ble Bailer [	Direct from Discharge Hose D Other:
DISPOSAL METHO	O OF PURG	E WATER:	🔲 On-sit	e Drum 🔲 Drums 🛛 SWD Disposal Facility
TOTAL DEPTH OF WELL: <u>43.38</u> Feet DEPTH TO WATER: <u>34.64</u> Feet HEIGHT OF WATER COLUMN: <u>8.74</u> Feet WELL VOLUME: <u>1.4</u> Gal.				2 In. Well Diameter 5 Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	· pH	PHYSICAL APPEARANCE AND REMARKS
9:05	20.3	9.22	6.78	Clear / No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Laboratories in Hobbs, New Mexico for BTEX, Major lons, and TDS analysis.

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CLIENT:	RICE Op	perating Co	mpany	WELL ID: Monitor Well #3
SYSTEM: EME				DATE: November 5, 2007
SITE LOCATION:	1-1	·		SAMPLER: Rozanne Johnson
PURGING METHOD: I Hand Bailed				Pump, Type: Direct from Discharge Hose D Other:
DISPOSAL METHOD TOTAL DEPTH OF V DEPTH TO WATER: HEIGHT OF WATER WELL VOLUME:		43.38 34.77 8.61	On-si Feet Feet	te Drum ☐ Drums ☑ SWD Disposal Facility 2 In. Well Diameter 5 Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
9:20	18.6	10.57	6.73	Clear / No Odor
0.20	10.0	10.07	0.75	Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

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Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Laboratories in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.