AP-67

ANNUAL MONITORING REPORT

YEAR(S): 2007



CERTIFIED MAIL RETURN RECIEPT NO. 7099 3400 0017 1737 2534



March 19, 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 JCT. D-1 SITE (AP-67)

T20S, R36E, SECTION 1, UNIT LETTER D

LEA COUNTY, NEW MEXICO

Mr. Hansen:

Trident Environmental takes this opportunity to submit the 2007 Annual Groundwater Monitoring Report for the EME Jct. D-1 Site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

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

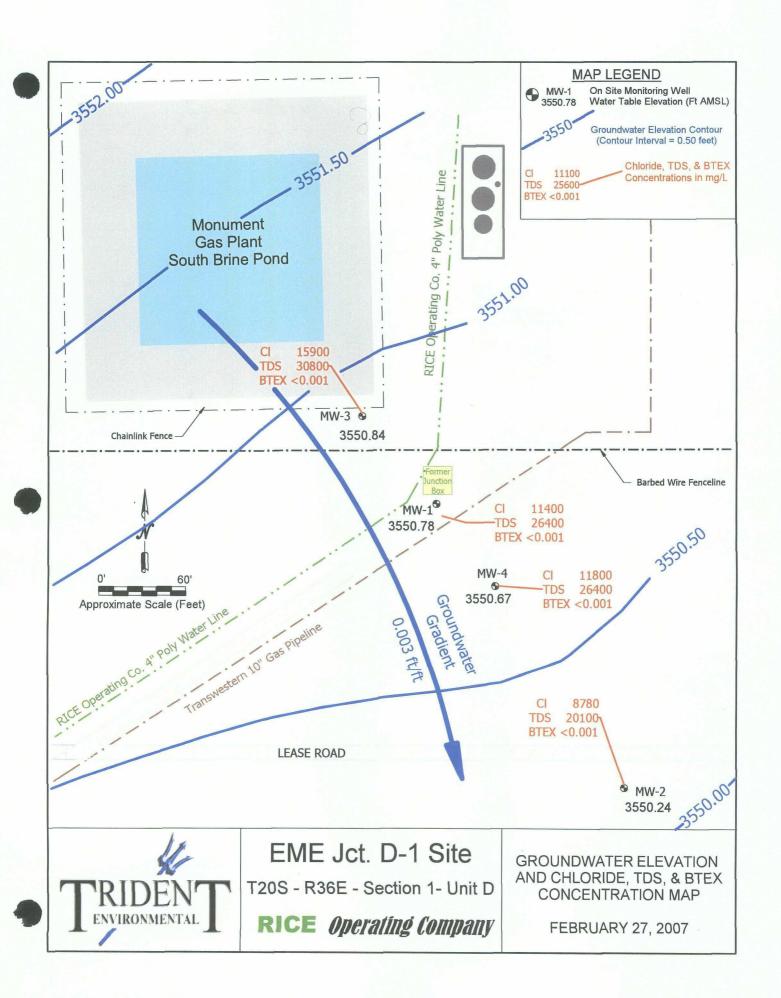
enclosures: maps, table, graphs, well sampling data forms, and laboratory analytical reports.

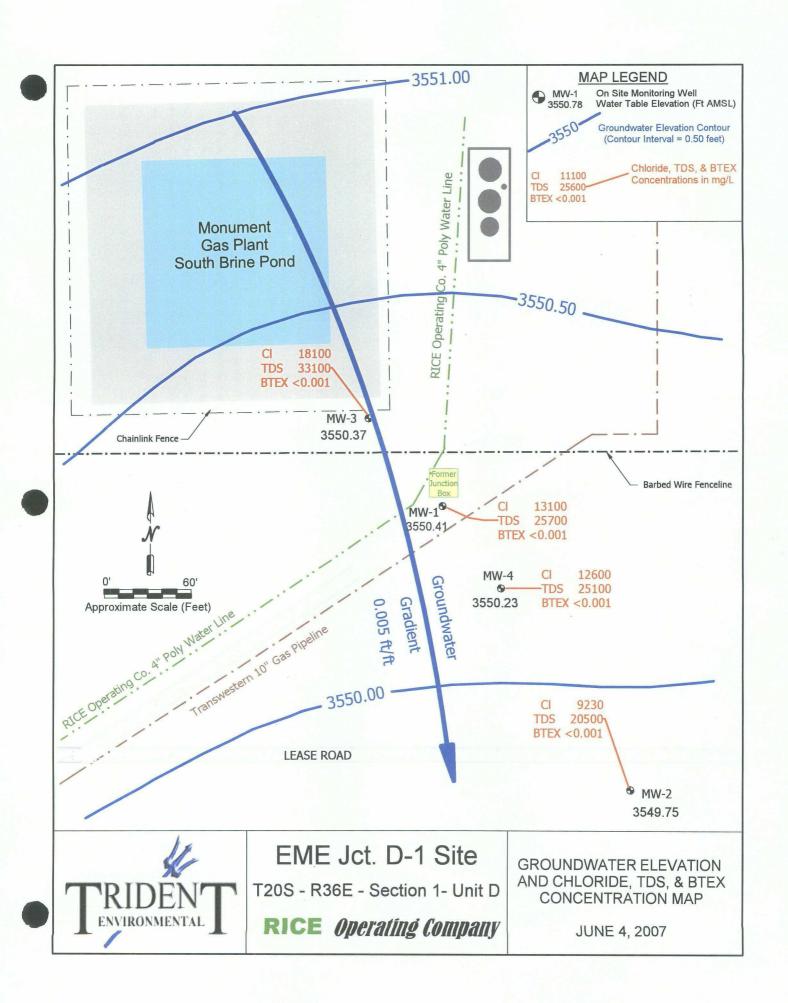
ATTACHMENT A

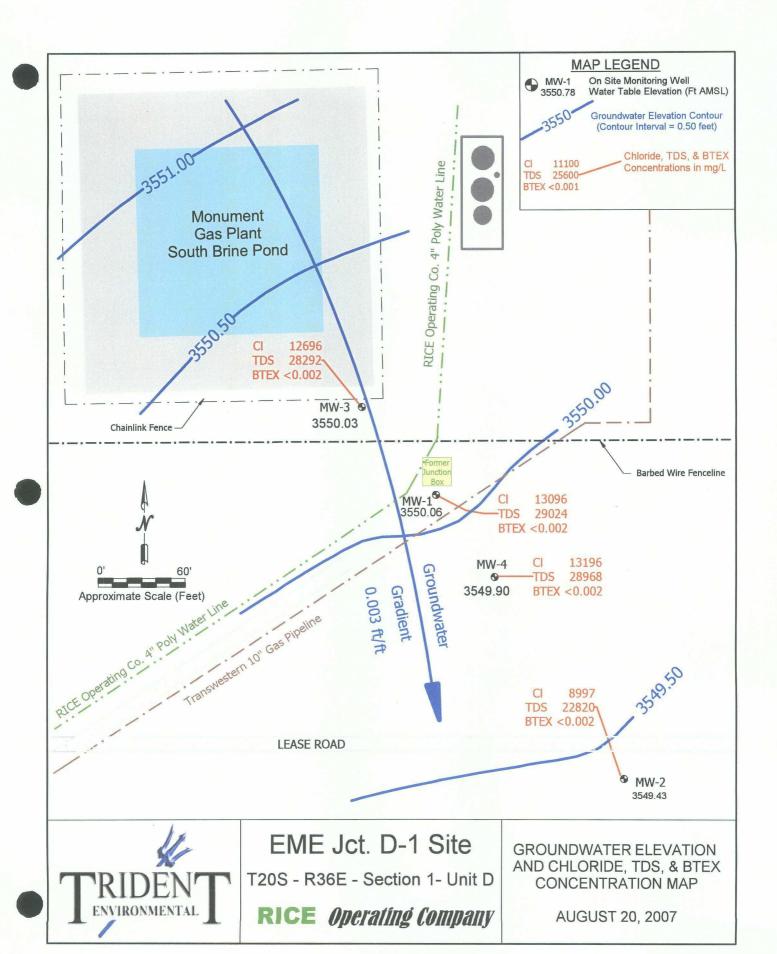
Site Maps

Table

Graphs







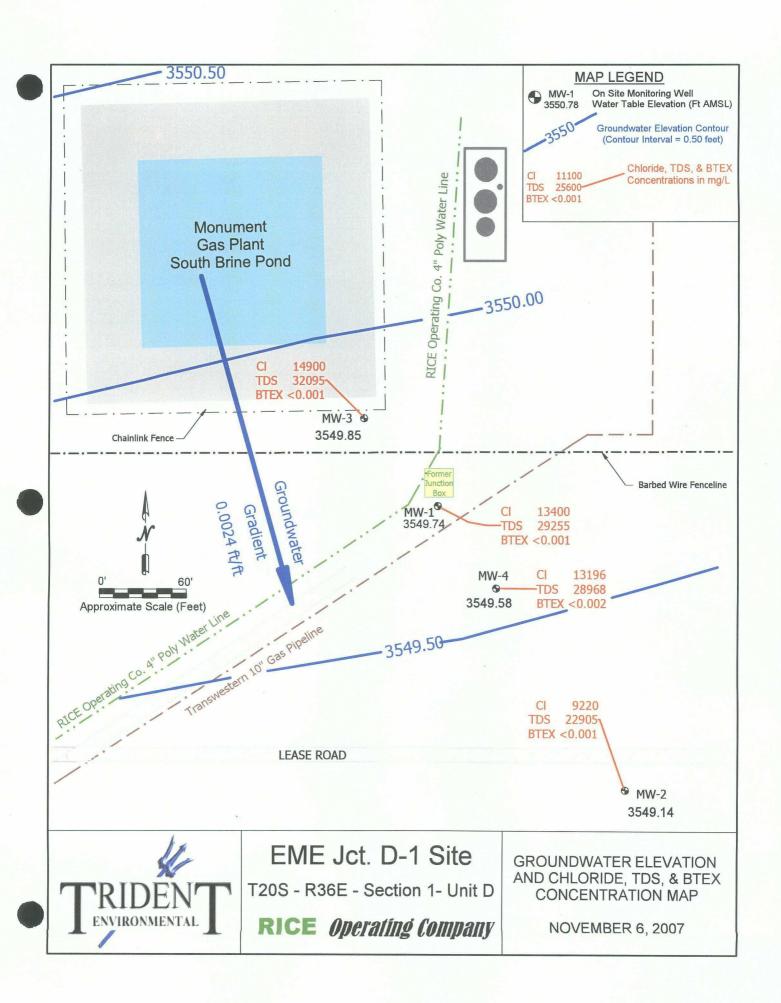


Table 1 **Summary of Groundwater Sampling Results**

EME Jct. D-1 Site (AP-67)

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)	Xylene (mg/L)
	12/21/04	37.20	3550.57	29,400	56,800	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.20	3551.57	29,200	54,200	< 0.001	< 0.001	< 0.001	< 0.001
	05/03/05	35.27	3552.50	22,900	43,600	< 0.001	< 0.001	< 0.001	< 0.001
1	08/13/05	37.74	3550.03	18,600	34,800	< 0.001	< 0.001	< 0.001	< 0.001
	10/19/05	34.70	3553.07	15,600	31,900	< 0.001	< 0.001	< 0.001	< 0.001
	01/18/06	34.95	3552.82	13,000	28,000	< 0.001	< 0.001	< 0.001	< 0.001
MW-1	04/19/06	35.54	3552.23	10,700	26,800	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	36.24	3551.53	12,900	24,400	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	36.57	3551.20	10,200	20,200	< 0.001	< 0.001	< 0.001	< 0.001
	02/27/07	36.99	3550.78	11,400	26,400	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	37.36	3550.41	13,100	25,700	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	37.71	3550.06	13,096	29,024	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	38.03	3549.74	13,400	29,255	< 0.001	< 0.001	< 0.001	< 0.003
	04/19/06	33.89	3551.73	8,730	19,200	< 0.001	<0.001	< 0.001	< 0.001
	07/18/06	34.65	3550.97	9,390	19,950	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	34.87	3550.75	7,910	18,000	< 0.001	< 0.001	< 0.001	< 0.001
MW-2	02/27/07	35.38	3550.24	8,780	20,100	< 0.001	<0.001	< 0.001	<0.001
	06/04/07	35.87	3549.75	9,230	20,500	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	36.19	3549.43	8,997	22,820	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	36.48	3549.14	9,200	22,905	< 0.001	< 0.001	< 0.001	< 0.003
	04/19/06	37.55	3552.29	11,100	25,600	< 0.001	<0.001	< 0.001	< 0.001
	07/18/06	38.24	3551.60	15,400	25,900	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	38.59	3551.25	13,100	24,000	< 0.001	< 0.001	< 0.001	< 0.001
MW-3	02/27/07	39.00	3550.84	15,900	30,800	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	39.47	3550.37	18,100	33,100	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	39.81	3550.03	12,696	28,292	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	39.99	3549.85	14,900	32,095	< 0.001	< 0.001	< 0.001	< 0.003
	12/22/06	35.97	3550.93	12,900	22,700	< 0.001	< 0.001	< 0.001	< 0.001
•	02/27/07	36.23	3550.67	11,800	26,400	< 0.001	< 0.001	< 0.001	< 0.001
MW-4	06/04/07	36.67	3550.23	12,600	25,100	<0.001	< 0.001	< 0.001	< 0.001
	08/20/07	37.00	3549.90	13,196	28,968	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	37.32	3549.58	11,900	26,419	< 0.001	< 0.001	< 0.001	< 0.003

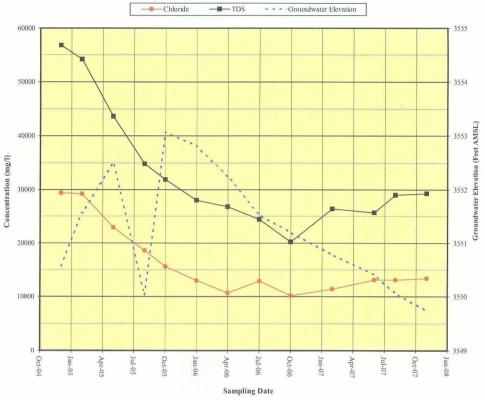
Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L)

Analyses performed by Cardinal Labs, Hobbs, NM (1995-1998) and Environmental Lab of Texas, Odessa, TX (1999-2003). Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.

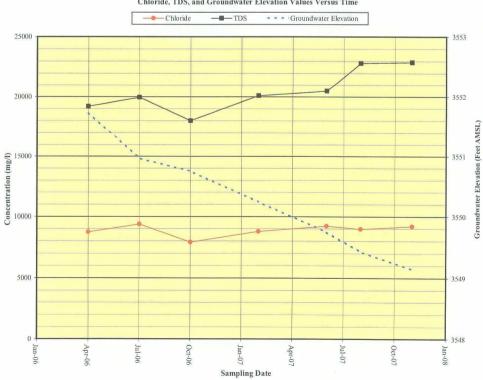
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing

Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

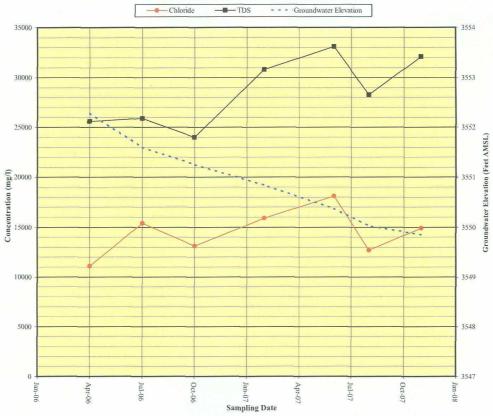
 $$\operatorname{MW-I}$$ Chloride, TDS, and Groundwater Elevation Values Versus Time



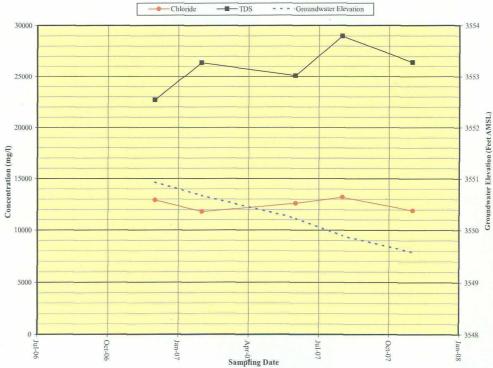
MW-2 Chloride, TDS, and Groundwater Elevation Values Versus Time



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



MW-4 Chloride, TDS, and Groundwater Elevation Values Versus Time

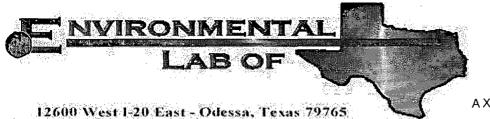


ATTACHMENT B

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 Jct. D-1 Leak Project Number: None Given

Location: T20S-R36E-Sec D-1 Lea Co., NM

Lab Order Number: 7C01014

Report Date: 03/09/07

Project: EME Jct. D-1 Leak

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	7C01014-01	Water	02/27/07 14:45	03-01-2007 15:00
Monitor Well #2	7C01014-02	Water	02/27/07 13:20	03-01-2007 15:00
Monitor Well #3	7C01014-03	Water	02/27/07 15:15	03-01-2007 15:00
Monitor Well #4	7C01014-04	Water	02/27/07 14:00	03-01-2007 15:00

Project: EME Jct. D-1 Leak

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	No
Monitor Well #1 (7C01014-01) Water									
Benzene	ND	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	ND	0.00100	•	n	n	n	н	n	
Ethylbenzene	ND	0.00100	•	н	H	11	#	н	
Xylene (p/m)	ND	0.00100	н	*		n	*	n	
Xylene (o)	ND	0.00100	0	•	n	"	n	*	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	80-1	20	"	"	"	"	
Monitor Well #2 (7C01014-02) Water									
Benzene	ND	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	ND	0.00100	*	"	н	и ,	n	u	
Ethylbenzene	ND	0.00100		н	*	it	n	n	
Xylene (p/m)	ND	0.00100	н	*	,		Ħ	"	
Xylene (o)	ND	0.00100			*	n	n	r	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-1	20	"	"	"	"	
urtogate: 4-Bromofluorobenzene		105 %	80-1	20	n	"	"	"	
Monitor Well #3 (7C01014-03) Water									
Benzene	ND	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	ND	0.00100	н	s	,	"	"	,,	
Ethylbenzene	ND	0.00100		n	ır	н	н	n	
Xylene (p/m)	ND	0.00100	y		и	ts	н		
Xylene (o)	ND	0.00100	"	н	"	"	я	n	
Surrogate: a,a,a-Trifluorotoluene		96.4 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	80-1	20	"	"	, ,	n	
Monitor Well #4 (7C01014-04) Water			·						
Benzene	ND	0.00100	mg/L	1	EC70201	03/02/07	03/07/07	EPA 8021B	
Toluene	ND	0.00100	M	n	"	"	11	**	
Ethylbenzene	ND	0.00100	п	п	"	Ħ	н	#	
Xylene (p/m)	ND	0.00100	P	n	н	н .	b	n	
Xylene (o)	ND	0.00100	н	*	н	,	u	II .	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-1	20	,,	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	80-1	20	•	"	"	"	

Project: EME Jct. D-1 Leak

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	Analy zed	Method	Note
Monitor Well #1 (7C01014-01) Water									
Total Alkalinity	490	2.00	mg/L	1	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	11400	250	"	500	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	26400	10.0	"	1	EC70715	03/05/07	03/08/07	EPA 160.1	
Sulfate	4360	250	n	500	EC70717	03/07/07	03/08/07	EPA 300.0	
Monitor Well #2 (7C01014-02) Water									
Total Alkalinity	520	2.00	mg/L	l	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	8780	250	n	500	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	20100	10.0		1	EC70715	03/05/07	03/08/07	EPA 160.1	
Sulfate	4780	250	*	500	EC70717	03/07/07	03/08/07	EPA 300.0	
Monitor Well #3 (7C01014-03) Water									
Total Alkalinity	520	2.00	mg/L	1	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	15900	250		500	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	30800	10.0	и	1	EC70715	03/05/07	03/08/07	EPA 160.1	
lfate	4570	250	N	500	EC70717	03/07/07	03/08/07	EPA 300.0	
Monitor Well #4 (7C01014-04) Water									
Total Alkalinity	470	2.00	mg/L	1	EC70704	03/09/07	03/09/07	EPA 310.1M	
Chloride	11800	250	н	500	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	26400	10.0	"	1	EC70715	03/05/07	03/08/07	EPA 160.1	
Sulfate	4540	250	"	500	EC70717	03/07/07	03/08/07	EPA 300.0	

Project: EME Jct. D-1 Leak

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	Note
Monitor Well #1 (7C01014-01) Water									
Calcium	551	0.200	mg/L	1	EC70707	03/07/07	03/07/07	EPA 6010B	
Magnesium	271	0.0200	•	n	"	"	N	n	
Potassium	171	1.00	H .		*	"	н	n	
Sodium	7490	1.00	н		n	н	н	ir	
Monitor Well #2 (7C01014-02) Water									
Calcium	396	0.200	mg/L	1	EC70707	03/07/07	03/07/07	EPA 6010B	
Magnesium	208	0.0200	,	н	n	n	h	n .	
Potassium	145	1.00			n	n	,	и	
Sodium	6130	1.00		"	н	н	*	Ħ	
Monitor Well #3 (7C01014-03) Water			`						
Calcium	597	0.200	mg/L	1	EC70707	03/07/07	03/07/07	EPA 6010B	
Magnesium	390	0.0200		ıı	n	п	,	*	
Potassium	183	1.00		"	и	n		n	
dium	9280	1.00	"	n	н	H		•	
Monitor Well #4 (7C01014-04) Water									
Calcium	4840	0.200	mg/L	1	EC70707	03/07/07	03/07/07	EPA 6010B	
Magnesium	260	0.0200	H -	n	,	"	н	H	
Potassium	156	1.00	,	U	н	n	и	,	
Sodium	7480	1.00	n		n	**	n	n	

Project: EME Jct. D-1 Leak

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)										

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70201 - EPA 5030C (GC)										
Blank (EC70201-BLK1)				Prepared: 0	3/02/07 A	nalyzed: 03	/07/07			
Benzene	ND	0.00100	mg/L					_		
Toluene	ND	0.00100	n							
Ethylbenzene	ND	0.00100	n							
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	J		
Surrogate: 4-Bromofluorobenzene	51.6		"	50.0		103	80-120			
LCS (EC70201-BS1)				Prepared: 0	03/02/07 Aı	nalyzed: 03	/07/07			
Benzene	0.0566	0.00100	mg/L	0.0500		113	80-120			
Toluene	0.0512	0.00100	м	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			
Surrogate: a, a, a-Trifluorotoluene	57.7		ug/l	50.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	54.5		"	50.0		109	80-120			
alibration Check (EC70201-CCV1)				Prepared: 0	3/02/07 A	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		n	100		98.7	80-120			
Xylene (o)	46.6		н	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	rce: 7C02009-	01	Prepared: 0	3/02/07 Aı	nalyzed: 03	/07/07			
Benzene	0.0588	0.00100	mg/L	0.0500	ND	118	80-120			
Toluene	0.0535	0.00100	н	0.0500	ND	107	80-120			
Ethylbenzene	0.0537	0.00100		0.0500	ND	107	80-120			
Xylene (p/m)	0.101	0.00100	н	0.100	ND	101	80-120			
Xylene (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-0
Surrogate: 4-Bromofluorobenzene	62.8		"	50.0		126	80-120			S-0

Surrogate: 4-Bromofluorobenzene

Project: EME Jct. D-1 Leak

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

Fax: (505) 397-1471

S-04

RPD

%REC

80-120

Organics by GC - Quality Control Environmental Lab of Texas

Reporting

63.4

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Source

Spike

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70201 - EPA 5030C (GC)										
Matrix Spike Dup (EC70201-MSD1)	Sou	ce: 7C02009-	01	Prepared: 0	3/02/07 A	nalyzed: 03	/07/07			
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	n	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

Project: EME Jct. D-1 Leak

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

		Reporting		Spike	Source		%REC	_	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70704 - General Preparatio	n (WetChem)									
Blank (EC70704-BLK1)				Prepared &	: Analyzed:	03/09/07				
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100								
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	,							
LCS (EC70704-BS1)				Prepared &	Analyzed:	03/09/07				
Total Alkalinity	170	2.00	mg/L				85-115			
Bicarbonate Alkalinity	170	2.00	N	200		85.0	85-115			
Duplicate (EC70704-DUP1)	Sour	rce: 7C01005-	01	Prepared &	: Analyzed:	03/09/07				
Total Alkalinity	100	2.00	mg/L		110			9.52	20	
Carbonate Alkalinity	0.00	0.100	и		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	n		0.00				20	
Hydroxide Alkalinity	0.00	0.100	n		0.00				20	
Reference (EC70704-SRM1)				Prepared &	Analyzed:	03/09/07				
Total Alkalinity	246		mg/L	250		98.4	90-110			
atch EC70715 - General Preparatio	on (WetChem)									
Blank (EC70715-BLK1)				Prepared: (3/05/07 A	nalyzed: 03	/08/07			
Total Dissolved Solids	ND	10.0	mg/L			•				
Duplicate (EC70715-DUP1)	Sou	rce: 7C01013-	01	Prepared: (3/05/07 A	nalyzed: 03	3/08/07			
Total Dissolved Solids	4630	10.0	mg/L		4520			2.40	20	
Duplicate (EC70715-DUP2)	Sour	rce: 7C01015-	04	Prepared: (3/05/07 A	nalyzed: 03	3/08/07			
Total Dissolved Solids	12500	10.0	mg/L	•	12100			3.25	20	

A Xenco Laboratories Company

Project: EME Jct. D-1 Leak

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

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70717 - General Preparation (WetChem)									
Blank (EC70717-BLK1)				Prepared: (03/07/07 A	nalyzed: 03	3/08/07			
Chloride	ND	0.500	mg/L					,,,,,		
Sulfate	ND	0.500	H							
LCS (EC70717-BS1)				Prepared: (03/07/07 A	nalyzed: 03	3/08/07			
Chloride	9.11	0.500	mg/L	10.0		91.1	80-120			
Sulfate	9.86	0.500		10.0		98.6	80-120			
Calibration Check (EC70717-CCV1)				Prepared: ()3/07/07 A	nalyzed: 03	3/08/07			
Chloride	8.24		mg/L	10.0		82.4	80-120			
Sulfate	11.7		н	10.0		117	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	11		0.811		•	1.47	20	
Duplicate (EC70717-DUP2)	Sour	ce: 7C01014	01	Prepared: (03/07/07 A	nalyzed: 03	3/08/07			
Sulfate	4410	250	mg/L		4360			1.14	20	
Chloride	11300	250	*		11400			0.881	20	
Matrix Spike (EC70717-MS1)	Sour	ce: 7B28002-	05	Prepared: (03/07/07 A	nalyzed: 03	3/08/07			
Sulfate	9.35	0.500	mg/L	10.0	0.755	86.0	80-120			
Chloride	9.17	0.500	"	10.0	0.811	83.6	80-120			
Matrix Spike (EC70717-MS2)	Sour	ce: 7C01014	01	Prepared: 0	03/07/07 A	nalyzed: 03	3/08/07			
Chloride	17500	250	mg/L	5000	11400	122	80-120			
Sulfate	9950	250	*	5000	4360	112	80-120			

Project: EME Jct. D-1 Leak

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

		reporting		DPIKC	Doulee		701CL3C		MD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EC70707 - 6010B/No Digestion							<u></u>			
Blank (EC70707-BLK1)				Prepared &	Analyzed:	03/07/07				
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360							1	
Potassium	ND	0.0600	и .					•		
Sodium	ND	0.0430	и							
LCS (EC70707-BS1)				Prepared &	Analyzed	03/07/07		l		
Calcium	1.00		mg/L	1.00		100	85-115			
Magnesium	1.04		n	1.00		104	85-115			
Potassium	9.88			10.0		98.8	85-115			
Sodium	9.92		*	11.0		90.2	85-115			
LCS Dup (EC70707-BSD1)				Prepared &	Analyzed:	03/07/07		•		
Calcium	1.01		mg/L	1.00		101	85-115	0.995	20	
Magnesium	1.05		**	1.00		105	85-115	0.957	20	
Potassium	9.97		"	10.0		99.7	85-115	0.907	20	
Sodium	10.0		n	11.0		90.9	85-115	0.803	20	
Matrix Spike (EC70707-MS1)	Sour	ce: 7C01014-	01RE1	Prepared &	Analyzed:	03/07/07				
Alcium	118		mg/L	2.00	116	100	75-125			
Magnesium	50.7		н	2.00	47.1	180	75-125			M
Potassium	42.8		"	20.0	14.3	142	75-125			M
Sodium	317		n	22.0	235	373	75-125			М
Matrix Spike Dup (EC70707-MSD1)	Sour	ce: 7C01014	01RE1	Prepared &	Analyzed:	03/07/07				
Calcium	123		mg/L	2.00	116	350	75-125	4.15	20	M
Magnesium	51.9		*	2.00	47.1	240	75-125	2.34	20	M
Potassium	42.9		,	20.0	14.3	143	75-125	0.233	20	M
Sodium	322			22.0	235	395	75-125	1.56	20	M

Dup

Duplicate

Project: EME Jct. D-1 Leak

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

Fax: (505) 397-1471

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. Ml 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 Matrix Spike MS

Report Approved By:

Sin Bonon

Date:

3/9/2007

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

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

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

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

Engionmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Odessa, Texas 79765 12600 West I-20 East

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

Lone Star NPDES RUSH TAT (Pre-Schedule) 24, 48, 72 his ပ္ Project Loc: T20S-R36E-SecD 1 - Lea County New Mexico () () Total Dissolved Solids × ☐ TRRP M.O.A.M. Sample Containers Intact? UPS DHL Project Name: EME Junction D-1 Leak SCI Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s) Temperature Upon Receipt: × BLEX 8051B/2030 × × VOCs Free of Headspace? Laboratory Comments salitelovimas X Standard Metals: As Ag Ba Cd Cr Pb Hg Se TCLP Anions (Cl., SO4; Alkalinity) × PO #: Project #: Cations (Ca, Mg, Na, K) Report Format: 8001 XT 9001 XT Hall \mathcal{R} 80158 142108 1 817 Hdi 3 Matrix 8€ GW 80 8€ Omer (Specify) rozanne@valornet.com Mone (1) 1 Liter HDPE COCSEEN rozanne@valornet.com HOSN (505) 397-1471 'OS'H HCI (2) 40 iiil 8jasa viala Ŋ Ñ N S CONH əəj × က m 'n 3 rotal # of Containers beretlin bla e-mail: FAX No: 14:45 13:20 15:15 14:00 Time Sampled matt@riceswd.com kpope@riceswd.com Received by ELOT: 2/27/2007 2/27/2007 2/27/2007 2/27/2007 Received by: Received by Date Sampled Ending Depth Hobbs, New Mexico 88240 RICE Operating Company E W ıme The Rozanne Johnson (505)631-9310 Beginning Depth kpope@riceswd.com purvis@riceswd.com 122 W. Taylor Street Kristin Farris Pope 3-(2) (505) 393-9174 Date Date FIELD CODE 10001 Please email to: Company Address: Sampler Signature: Project Manager: Company Name Monitor Well #2 Monitor Well #3 Wonitor Well #4 Telephone No: Monitor Well #1 City/State/Zip: Special Instructions Relinquished by: (lab use only) ORDER #: 000 AB # (lsb use only)

TAT brebnets

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ALL DD

ate/ Time:

ab ID #:

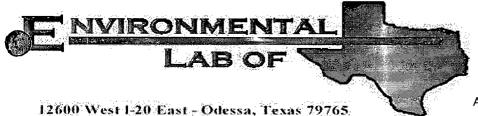
Itials:

Sample Receipt Checklist

					Client Initials
1 Temperature of container/ cooler	?	Yes	No	.0 .0	1
2. Shipping container in good cond	tion?	(CS)	No		
3 Custody Seals intact on shipping	container/ cooler?	(es)	No	Not Present	e entropy is the above of
4 Custody Seals intact on sample	bottles/ container?	≱es	No	Not Present	
5 Chain of Custody present?		Ø€§	No		
6 Sample instructions complete of	Chain of Custody?	769	No	545.15*1	375
7 Chain of Custody signed when re	elinquished/ received?	(63	No		
8 Chain of Custody agrees with sa	mple label(s)?	Xe	No	ID written on Cont./ Lid	
9 Container label(s) legible and int	act?	€63	No	Not Applicable	70.77 5 48
10 Sample matrix/ properties agree	with Chain of Custody?	(es	No		
11 Containers supplied by ELOT?	process and the second	163	No		1,19
12 Samples in proper container/ bo	ottle?	Yes	No	See Below	
13 Samples properly preserved?		Yes)	No	See Below	The state of the s
14 Sample bottles intact?		Ves	No		
15 eservations documented on (Chain of Custody?	\$66	No		
16 Containers documented on Cha		200	No		
17 Sufficient sample amount for in	· · · · · · · · · · · · · · · · · · ·	X26	No	See Below	
18 All samples received within suff	***/****	7es	No	See Below	
19 Subcontract of sample(s)?		Yes	No	Not Applicable	
20 VOC samples have zero heads	páce?	X€s,	No	Not Applicable	

Variance Documentation

Contact:		Contacted by:	Date/ Time:				
Règarding:	·	· · · · · · · · · · · · · · · · · · ·					
Corrective Action Taken	•	, , , , , , , , , , , , , , , , , , , ,	qu qu				
				2			
Check all that Apply:		See attached e-mail/ fax Client understands and wo Cooling process had begui		, ,			



A Xenco Laboratories Company

Analytical Report

Prepared for:

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

Project: EME Jct. D-1 Leak Project Number: None Given

Location: T20S-R36E-SecD 1 ~ Lea County New Mexico

Lab Order Number: 7F06020

Report Date: 06/27/07

Project: EME Jct. D-1 Leak

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	7F06020-01	Water	06/04/07 10:15	06-06-2007 12:51
Monitor Well #2	7F06020-02	Water	06/04/07 08:40	06-06-2007 12:51
Monitor Well #3	7F06020-03	Water	06/04/07 11:20	06-06-2007 12:51
Monitor Well #4	7F06020-04	Water	06/04/07 09:30	06-06-2007 12:51

Project: EME Jct. D-1 Leak

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

Fax: (505) 397-1471

Organics by GC Environmental Lab of Texas

			ilciitai La	D 01 10					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
Monitor Well #1 (7F06020-01) Water									
Benzene	ND	0.00100	mg/L	1	EF70804	06/08/07	06/11/07	EPA 8021B	
Toluene	. ND	0.00100	N		۳.	н	"		
Ethylbenzene	ND	0.00100	,	"		ı	n	n	
Xylene (p/m)	ND	0.00100	,	,	n	n	n	n	
Xylene (o)	ND	0.00100	•	•	•	"	n	n	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-12	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		89.4 %	80-12	0	"	"	"	"	•
Monitor Well #2 (7F06020-02) Water									
Benzene	ND	0.00100	mg/L	1	EF70804	06/08/07	06/11/07	EPA 8021B	
Toluene	ND	0.00100		н	n	n	Ħ		
Ethylbenzene	ND	0.00100	п		W	ır	H	"	
Xylene (p/m)	ND	0.00100	*	\n	n	n	n	,	
Xylene (o)	ND	0.00100	H	и	н	n .	n	n	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-12	0	"	"	"	"	
rrogate: 4-Bromofluorobenzene		96.4 %	80-12	0	"	"	"	"	
Monitor Well #3 (7F06020-03) Water									
Benzene	ND	0.00100	mg/L	1	EF70804	06/08/07	06/11/07	EPA 8021B	
Toluene	ND	0.00100	н		n	n	n	n	
Ethylbenzene	ND	0.00100		"	,	н	n	n	
Xylene (p/m)	ND	0.00100	н	**		н	н	tr	
Xylene (o)	ND	0.00100	н	"	Ħ	n	н	п	
Surrogate: a,a,a-Trifluorotoluene		106%	80-12	0	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		96.2 %	80-12	0	"	"	"	"	
Monitor Well #4 (7F06020-04) Water									
Benzene	ND	0.00100	mg/L	1	EF70804	06/08/07	06/11/07	EPA 8021B	
Toluene	ND	0.00100	,	,	,	n	,	"	
Ethylbenzene	ND	0.00100	n	n	"		n	"	
Xylene (p/m)	ND	0.00100	Ħ	n	*	. "	ħ	n	
Xylene (o)	ND	0.00100	и		*	*	n	**	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-12	0	"	"	"	"	

Project: EME Jct. D-1 Leak

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	Note
Monitor Well #1 (7F06020-01) Water									
Total Alkalinity	440	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	13100	250	*	500	EF71204	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	25700	10.0		1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	4650	250	н	500	EF71204	06/12/07	06/12/07	EPA 300.0	
Monitor Well #2 (7F06020-02) Water									
Total Alkalinity	560	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	9230	100	,	200	EF71204	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	20500	10.0	n	1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	4910	100	"	200	EF71204	06/12/07	06/12/07	EPA 300.0	ć
Monitor Well #3 (7F06020-03) Water						-			
Total Alkalinity	510	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	18100	250	,	500	EF71204	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	33100	10.0		1	EF71110	06/07/07	06/11/07	EPA 160.1	
Alfate	4670	250	,	500	EF71204	06/12/07	06/12/07	EPA 300.0	
Monitor Well #4 (7F06020-04) Water			•						
Total Alkalinity	510	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	12600	250	n	500	EF71204	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	25100	10.0	"	1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	4530	250	"	500	EF71204	06/12/07	06/12/07	EPA 300.0	

Project: EME Jct. D-1 Leak

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	Not
Monitor Well #1 (7F06020-01) Water								· · · · · ·	
Calcium	489	20.2	mg/L	250	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	230	1.80		50	"	п		н	
Potassium	172	3.00	19		"	n	н		
Sodium	9120	215	N	5000	"	n		r	
Monitor Well #2 (7F06020-02) Water									
Calcium	343	20.2	mg/L	250	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	166	1.80		50	"	n	,		
Potassium	111	3.00		"		n	*	н	
Sodium	7840	43.0	N	1000	,	n	H	н	
Monitor Well #3 (7F06020-03) Water									
Calcium	499	20.2	mg/L	250	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	303	1.80	n	50	н	h		н	
Potassium	244	3.00	•	н	п	n	*	Ħ	
dium	10200	215	n	5000	"	н	,	н	
Monitor Well #4 (7F06020-04) Water									
Calcium	394	20.2	mg/L	250	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	204	1.80	•	50	n	n	,	u	
Potassium	132	3.00		п			*	н	
Sodium	11400	215	N	5000				и	

Project: EME Jct. D-1 Leak

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 EF70804 - EPA 5030C (GC)				·						
Blank (EF70804-BLK1)				Prepared: 0	6/08/07 A	nalyzed: 06	/11/07			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100	н							
Xylene (p/m)	ND	0.00100	н							
Xylene (o)	ND	0.00100								
Surrogate: a,a,a-Trifluorotoluene	48.0		ug/l	50.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	45.7		"	50.0		91.4	80-120			
LCS (EF70804-BS1)				Prepared: 0	6/08/07 A	nalyzed: 06	/11/07			
Benzene	0.0508	0.00100	mg/L	0.0500		102	80-120			
Toluene	0.0518	0.00100	n	0.0500		104	80-120			
Ethylbenzene	0.0505	0.00100	н	0.0500		101	80-120			
Xylene (p/m)	0.0995	0.00100	н	0.100		99.5	80-120			
Xylene (o)	0.0526	0.00100		0.0500		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	49.7		ug/l	50.0		99.4	80-120	· · · · · · ·		
Surrogate: 4-Bromofluorobenzene	48.0		"	50.0		96.0	80-120			
Calibration Check (EF70804-CCV1)				Prepared: 0	6/08/07 A	nalyzed: 06	/12/07			
Benzene	0.0577		mg/L	0.0500		115	80-120			
Toluene	0.0576		н	0.0500		115	80-120			
Ethylbenzene	0.0548		н	0.0500		110	80-120			
Xylene (p/m)	0.104		n	0.100		104	80-120			
Xylene (o)	0.0579		н	0.0500		116	80-120			
Surrogate: a, a, a-Trifluorotoluene	57.6		ug/l	50.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	50.8		"	50.0		102	80-120			
Matrix Spike (EF70804-MS1)	Sou	rce: 7F06020-	01	Prepared: 0	6/08/07 A	nalyzed: 06	/11/07			
Benzene	0.0547	0.00100	mg/L	0.0500	ND	109	80-120			·
Голиене	0.0556	0.00100	*	0.0500	ND	111	80-120			
Ethylbenzene	0.0531	0.00100	*	0.0500	ND	106	80-120			
Xylene (p/m)	0.105	0.00100		0.100	ND	105	80-120			
Xylene (o)	0.0578	0.00100		0.0500	ND	116	80-120			
Surrogate: a,a,a-Trifluorotoluene	56.5		ug/l	50.0		113	80-120			

Surrogate: 4-Bromofluorobenzene

107

80-120

50.0

53.6

Project: EME Jct. D-1 Leak

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 EF70804 - EPA 5030C (GC)										
Matrix Spike Dup (EF70804-MSD1)	Sou	ce: 7F06020-	01	Prepared: 0	6/08/07 A	nalyzed: 06	/12/07			
Benzene	-: .0:0562	0.00100	mg/L	0.0500	ND	112	80-120	2.71	20	
Toluene	0.0569	0.00100		0.0500	ND	114	80-120	2.67	20	
Ethylbenzene	0.0558	0.00100	и	0.0500	ND	112	80-120	5.50	20	
Xylene (p/m)	0.107	0.00100		0.100	ND	107	80-120	1.89	20	
Xylene (o)	0.0589	0.00100		0.0500	ND	118	80-120	1.71	20	
Surrogate: a,a,a-Trifluorotoluene	59.3		ug/l	50.0		119	80-120			
Surrogate: 4-Bromofluorobenzene	55.2		"	50.0		110	80-120			

A Xenco Laboratories Company

Project: EME Jct. D-1 Leak

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71110 - General Preparation (Omo	DOVOI	ixesuit	70ICEC	ьшпо	M D	Lillit	110103
	метсиені)			D1-0) (07 07 A	11.00	(11/07			
Blank (EF71110-BLK1) Total Dissolved Solids	ND	10.0	mg/L	Prepared: ()6/U//U/ A	nalyzed: 06	/11/0/			
Total Dissolved Bolles	ND	10.0	nig/L							
Duplicate (EF71110-DUP1)	Sou	rce: 7F06016-	01	Prepared: (6/07/07 A	nalyzed: 06	/11/07			
Total Dissolved Solids	1270	10.0	mg/L		1210			4.84	20	
Duplicate (EF71110-DUP2)	Sou	rce: 7F06019-	03	Prepared: (06/07/07 A	nalyzed: 06	/11/07			
Total Dissolved Solids	7020	10.0	mg/L	Marine and a second	6900			1.72	20	
Batch EF71204 - General Preparation (WetChem)								•	
Blank (EF71204-BLK1)				Prepared &	: Analyzed:	06/12/07				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	H							
LCS (EF71204-BS1)				Prepared &	: Analyzed:	06/12/07				
Sulfate	10.0	0.500	mg/L	10.0		100	80-120			
Chloride	10.8	0.500	N	10.0		108	80-120			
Calibration Check (EF71204-CCV1)				Prepared &	: Analyzed:	06/12/07				
Ifate	10.0	······································	mg/L	10.0		100	80-120			
Chloride	10.8		u	10.0		108	80-120			
Duplicate (EF71204-DUP1)	Sou	rce: 7F06020-	03	Prepared &	: Analyzed:	06/12/07				
Sulfate	4550	250	mg/L		4670			2.60	20	
Chloride	17500	250	н		18100			3.37	20	
Matrix Spike (EF71204-MS1)	Source: 7F06020-03		Prepared &	: Analyzed:	06/12/07					
Chloride	21100	250	mg/L	5000	18100	60.0	80-120			QM-
Sulfate	7770	250	н	5000	4670	62.0	80-120			QM-

Project: EME Jct. D-1 Leak

Project Number: None Given

Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

								-		$\overline{}$
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

•	
Dotob F F71200	Consul Duamanation (WatCham)

Blank (EF71309-BLK1)	Prepared & Analyzed: 06/13/07											
Total Alkalinity	ND	2.00	mg/L									
Carbonate Alkalinity	ND	0.100	*									
Bicarbonate Alkalinity	ND	2.00										
Hydroxide Alkalinity	ND	0.100	n									
LCS (EF71309-BS1)			•	Prepared & Anal	yzed: 06/13/07		*					
Bicarbonate Alkalinity	174	2.00	mg/L	200	87.0	85-115						
Duplicate (EF71309-DUP1)	Source	e: 7F06017-	02	Prepared & Anal	yzed: 06/13/07							
Total Alkalinity	348	2.00	mg/L	34	48		0.00	20				
Reference (EF71309-SRM1)				Prepared & Anal	yzed: 06/13/07							
Total Alkalinity	250		mg/L	250	100	90-110						



A Xenco Laboratories Company

Project: EME Jct. D-1 Leak

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		
	Result	Linn	Onits	Level	Result	/orceC	Limits	KrD	Lunt	140163		
Batch EF70807 - 6010B/No Digestion												
Blank (EF70807-BLK1)	Prepared & Analyzed: 06/08/07											
Calcium	ND	0.0810	mg/L									
Magnesium	ND	0.0360	*									
Potassium	ND	0.0600	n									
Sodium	ND	0.0430	"									
Calibration Check (EF70807-CCV1)	Prepared & 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		н	2.00		114	85-115					
Sodium	1.82			2.00		91.0	85-115					
Duplicate (EF70807-DUP1)	Source: 7F05011-03			Prepared & Analyzed: 06/08/07								
Calcium	139	4.05	mg/L	,	139			0.00	20			
Magnesium	29.5	0.360	H		29.8			1.01	20			
Potassium	6.37	0.600	•		6.57			3.09	20			
Sodium	121	2.15	*		124			2.45	20			



Project: EME Jct. D-1 Leak

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

Fax: (505) 397-1471

Notes and Definitions

QM-10 LCS/LCSD were analyzed in place of MS/MSD.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Date: 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

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

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SIS REQUEST Phone: 432-563-18 Fax: 432-563-17 Junction D-1 Leak 336E-Section 1 - Lea Co		BTEX 80219/5030	×	\overrightarrow{x}	$\overline{\times}$	\overline{x}							٠ د	e e	(S	٠ د	ಕ
AMALYSIS REQUEST Phone: 432-5: Fax: 432-5: EME Junction D-11	₿ĦŦ	Semivolatiles							80 700.				atory Comments: e Containers Infact?	ainer(s) on containe	on cooler(s Delivered	ÀS.	Temperature Upon Receipt
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irChmental Lab of Texas Froject Manager Kriistin Farris Pope kp Company Name RICE Operating Company Company Address 122 W. Taylor Street City/State/Zip: Hobbs. New Mexico 8824/ Telephone No: (505) 393-9174 Sampler Signature: Rezanne Johnson (505)831-8310			Monitor Well #1	왍	읦	.2				51 38 138501	3612		ğ r	MJI)	8	1/11	8
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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

ate/ Time: 6:6-07 / 12:51				
DID#: 7F06020				
tials:			e de la companya de l	
e Name in 1978. I propie delle dell'Allanda photoserate e lossensi della della della		100	social additional and a sign	
Sample Receipt	Checklist			
Temperature of container/ cooler?	Syes ≥	No	7000	Client Init
Shipping container in good condition?	Yes	No		1
Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	+
Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
Chain of Custody present?	(Yes)	No		
Sample instructions complete of Chain of Custody?	rres s	No		1
Chain of Custody signed when relinquished/ received?	Yes	No		
Chain of Custody agrees with sample label(s)?	Yes/	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	(es)	No	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	(es)	No		
Containers supplied by ELOT?	Yes	No		
Samples in proper container/ bottle?	Yes)	No	See Below	
amples properly preserved?	Yes	No	See Below	
Sample bottles intact?	Yes)	No		
Preservations documented on Chain of Custody?	Yés)	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test(s)?	Mes .	No	See Below	
All samples received within sufficient hold time?	Yes)	No	See Below	
Subcontract of sample(s)?	Yes	No	Mot Applicable	
VOC samples have zero headspace?	∠Yes>	No	Not Applicable	1
Variance Docur	mentation		And the second of the second o	
ontact: Contacted by:			Date/ Time:	
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ntact Contacted by: garding: prective Action Taken:			Date/ Time:	



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: 08/21/07

Reporting Date: 08/27/07
Project Number: NOT GIVEN

elative Percent Difference

Project Name: EME JUNCTION D-1 LEAK

Project Location: T20S-R36E-SEC1 D ~ LEA COUNTY - NEW MEXICO

Sampling Date: 08/20/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DAT	E:	08/21/07	08/23/07	08/23/07	08/23/07	08/22/07	08/23/07
H13142-1	MONITOR WELL #1	9,570	592	331	145	40100	408
H13142-2	MONITOR WELL #2	7,400	446	383	98.5	31300	388
H13142-3	MONITOR WELL #3	9,633	605	286	150	39300	420
H13142-4	MONITOR WELL #4	10,114	579	270	105	40300	416
Quality Control	The second secon	NR	51.9	49.2	1.94	1423	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
Recovery		NR	104	98.4	97.0	101	NR

8.0

6.3

2.1

0.3

NR

160.1

NR

SM4500-CI-B

METHODS:		SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		CI ⁻	SO ₄	CO ₃	HCO ₃	рΗ	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS D	ATE:	08/22/07	08/22/07	08/23/07	08/23/07	08/22/07	08/22/07
H13142-1	MONITOR WELL #1	13,096	4,780	0	498	6.89	29,024
H13142-2	MONITOR WELL #2	8,997	5,610	0	473	7.11	22,820
H13142-3	MONITOR WELL #3	12,696	5,300	0	512	6.92	28,292
H13142-4	MONITOR WELL #4	13,196	5,450	0	508	6.98	28,968
Quality Contr	ol	500	25.6	NR	939	6.95	NR
True Value C	IC	500	25.0	NR	1000	7.00	NR
% Recovery		100	103	NR	93.9	99.3	NR
Relative Perc	ent Difference	< 0.1	1.0	NR	1.4	< 0.1	NR

Chemist S. Mario

METHODS:

08-27-09

150.1

310.1

Date

310.1

375.4



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

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

Receiving Date: 08/21/07

Reporting Date: 08/23/07

Project Number: NOT GIVEN

Project Name: EME JUNCTION D-1 LEAK

Project Location: T20S-R36E-SEC1 D ~ LEA COUNTY, NM

Sampling Date: 08/20/07

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Ļ)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DA	re	08/22/07	08/22/07	08/22/07	08/22/07
H13142-1	MONITOR WELL #1	< 0.002	<0.002	<0.002	<0.006
H13142-2	MONITOR WELL #2	< 0.002	<0.002	<0.002	<0.006
H13142-3	MONITOR WELL #3	<0.002	<0.002	< 0.002	<0.006
H13142-4	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
Quality Control		0.093	0.091	0.093	0.264
True Value QC		0.100	0.100	0.100	0.300
% Recovery		92.8	91.2	93.4	88.0
Relative Perce	nt Difference	2.8	2.6	1.6	1.2

METHOD: EPA SW-846 8260

Date

Sampler Relinquished by: Delivered By: LAB USE roject Location 13142 122 W Taylor Street ~ Hobbs, New Mexico 88240 Kristin Farris-Pope, Project Scientist RICE Operating Company 101 East Mariand - Hobbs, New T20S-R36E-Sec1 D ~ Lea County - New Mexico (505) 393-9174 LAB# Tel (505) 393-2326 Fax (505) 393-2476 Mexico 88240 Chnson (Street, City, Zip) Monitor Well #3 Monitor Well #2 Monitor Well #1 Monitor Well #4 8-21-07 Bus -Date: Date EME Junction 9-1 Leak oroject Name: FIELD CODE Other: Time: me: 8:0/A Cardinal] Fax#: Cool Received By: Received by: (505)397-1471 (G)rab or (C)omp G ି ଦ ១ G Yes Yes BILL TO Company: RICE Operating Company 122 W Taylor Street ~ Hobbs, New Mexico 88240 (505) 393-9174 Laboratories, Inc # CONTAINERS ယ دن × × × WATER (Laboratory Staff) Z SOIL MATRIX AIR SLUDGE HCL (2 40ml VOA) N N PRESERVATIVE HNO₃ rozanne@valornet.com Rozanne Johnson (505)631-9310 Date: METHOD (Initials) NaHSO₄ (Street, City, Zip) 8-21-07 H₂SO₄ ICE (1-1Liter HDPE) (505)397-1471 Time: NONE 7101 AS 8-20 SAMPLING 8-20 8-20 8-20 **DATE (2007)** 13:40 15:50 12:50 14:30 TIME MTBE 8021B/602 REMARKS: Fax Results Phone Results × BTEX 8021B/602 ×. × TPH 418.1/TX1005 / TX1005 Extended (C35) CHAIN-OF-CUSTODY AND ANALYSIS REQUEST Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 LAB Order ID # TCLP Metals Ag As Ba Cd Cr Pb Se Hg STEX STEX TCLP Volatiles Yes (Circle or Specify Method No. Yes ANALYSIS REQUEST **TCLP Semi Volatiles** TCLP Pesticides ö 8 RCI GC/MS Vol. 8260B/624 GC/MS Semi. Vol. 8270C/625 Additional Fax Number: m 087 PCB's 8082/608 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) × Anions (CI, SO4, CO3, HCO3) **Total Dissolved Solids** × × × Chlorides Turn Around Time ~ 24 Hours

Page 1 of 1



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 JUNCTION D-1 LEAK

Project Location: T208 R36E SEC1 D - LEA COUNTY, NM

Sampling Date: 11/06/07 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 XYLENÉS (mg/L)
ANALYSIS DAT	E	11/08/07	11/08/07	11/08/07	11/08/07
H13667-1	MONITOR WELL # 1	<0.001	<0.001	<0.001	< 0.003
H13667-2	MONITOR WELL # 2	<0.001	<0.001	<0.001	<0.003
H13667-3	MONITOR WELL#3	< 0.001	< 0.001	<0.001	<0.003
H13667-4	MONITOR WELL # 4	<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

Date



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 JUNCTION D-1 LEAK

Project Location: T20S-R36E-SEC1 D-LEA COUNTY, NM

Sampling Date: 11/06/07 Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: SB Analyzed By: HM/KS

	,	Na	Ca	Mg	K	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(u S/cm)	(mgCaCO ₃ /L)
ANALYSIS DAT	TE:	11/14/07	11/14/07	11/14/07	11/14/07	11/09/07	11/09/07
H13667-1	MONITOR WELL #1	9,608	506	339	135	41,300	492
H13667-2	MONITOR WELL #2	7,893	323	222	90.0	31,500	464
H13667-3	MONITOR WELL #3	10,997	432	363	190	44,900	528
H13667-4	MONITOR WELL #4	9,271	419	274	84.3	37,800	468
Quality Control		NR	49.2	52.4	3.10	1,389	NR
True Value QC		NR	50.0	50.0	3.00	1,404	NR
% Recovery		NR	98.4	105	103	98.9	NR
Relative Percer	nt Difference	NR	< 0.1	1.5	12.7	0.5	NR
METHODS:	10110001111111111111111111111111111111	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		CIT	SO ₄	CO ₃	HÇO₃	рН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DAT	TE:	11/09/07	11/12/07	11/09/07	11/09/07	11/09/07	11/13/07
H13667-1	MONITOR WELL #1	13,400	4,180	0	600	6.87	29,255
H13667-2	MONITOR WELL #2	9,200	5,350	0	566	7.10	22,905
H13667-3	MONITOR WELL #3	14,900	5,001	0	644	6.96	32,095
H13667-4	MONITOR WELL #4	11,900	5,001	0	571	7.04	26,419
Quality Control	and the second s	500	24.3	NR	1000	6.99	NR
True Value QC	***************************************	500	25.0	NR	1000	7.00	NR
% Recovery		100	97.0	NR	100	99.9	NR
Relative Percen	nt Difference	< 0.1	3.5	NR	< 0.1	< 0.1	NR
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160:1

Mistr Suproto
Chemist

1/15/07 Date Page 1 0 1 1 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager:				ğ	Address:	8		Г	Street, City, Zip)	ty, Zip)		Г	•	•		<u>.</u>	5 2 3	ondo .	. Y		2	-	-	•		ula étap
Kristin Fa	Kristin Farris-Pope, Project Scientist		122 W Taylor Street ~	rlor St		Hobbs, New Mexico 88240	New A	exico	88240											-		<u> </u>				******
Address: ((Street, City, Zip)		ŀ	Pho	Phone#				ĬĬ.	Fex#.		_									<u></u> -	***************************************				
122.W Taylor	122 W Taylor Street ~ Hobbs, New Mexico 88240	-	(505) 393-9174	93-6	174				: -	(505)397-1471	7-147				7.00						,					
Phone #:		Fax#.												(g	08\5	,								······································		
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7	Monitor Well #4	9	3 ×				2		*	1 11	11-8 10:20	20	×										×	×		
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Rozanne Johnson												T.	Fax Results	ults		Yes	ś	ĝ	×	Additional Fax Number	alFa	N X	ber:			1
Relinquished by:	y: Date: Time:	Receive	Received By: (Laboratory	abor		Staff)		Date:		Time:		뿐_	REMARKS:	KS:												
		222	Subunia	- 1	108	11/08/07			<i>[]</i>	30				面	mail	Email Results to:	is to:	ğ	ope@	kpope@riceswd.com	wd.c	Ę				
Delivered By:	(Circle One)	Sample Condition	condition	١,		_	CHEC	CHECKED BY:	3¥:									<u>š</u>	inhe	weinheimer@riceswd.com	OLICO I	pwse	EOU S			wani
Sampler	UPS - Bils - Other	> 2	Z e e		回		(Initials)	S)	1,10									<u>3</u>	<u> </u>	ווסכשוווופומאשוטווופריסווו			=1			
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ATTACHMENT C

Field Data Forms

CLIENT:	RICE OF	perating Co	mpany	WELL ID: Monitor Well #1
SYSTEM:	EME			DATE: February 27, 2007
SITE LOCATION:	Jct. D-1 I	Leak		SAMPLER: Rozanne Johnson
•				
PURGING METHOD	:	☐ Hand Ba	ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D :	☑ Disposa	able Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOL	OF PURC	GE WATER:	☐ On-si	te Drum 🗖 Drums 🗹 SWD Disposal Facility
TOTAL DEPTH OF V	VELL:	42.59	Feet	
DEPTH TO WATER HEIGHT OF WATER		36.99 I: 5.60	Feet Feet	2 In. Well Diameter
WELL VOLUME:		Gal.	1 661	5 Gallons purged prior to sampling
		1		
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
14:45	20.2	35.83	6.93	Silt to Clear with slight odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
COMMENTS:				
Myron Model 6P instr	ument used	d to obtain p⊢	l, conducti	vity, and temperature measurements.
Delivered samples to	Environme	ntal Lab of Te	exas for B1	EX, Major lons, and TDS analysis.

CLIEN I:	KICE OF	verating Co	mpany	WELL ID: MONITOL AAGI # 1
SYSTEM:	EME_			DATE: June 4, 2007
SITE LOCATION:	Jct. D-1 l	Leak		SAMPLER: Rozanne Johnson
PURGING METHOD SAMPLING METHOI			,	Pump, Type: Purge Pump Direct from Discharge Hose Other:
DISPOSAL METHOL TOTAL DEPTH OF V DEPTH TO WATER HEIGHT OF WATER WELL VOLUME:	WELL: : R COLUMN	42.59 37.36	On-si Feet Feet Feet	ite Drum □ Drums ☑ SWD Disposal Facility 2 In. Well Diameter 5 Gallons purged prior to sampling
TIME	TEMP.	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
10:15	20.7	38.1	6.90	Silt to Clear with slight odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
COMMENTS:		·		
Myron Model 6P instr	ument usec	I to obtain pF	l, conducti	vity, and temperature measurements.
Delivered samples to	Environmer	ntal Lab of Te	exas for BT	EX, Major lons, and TDS analysis.
	*····			

CLIENT:	KICE UP	reraiting Co	mpany	WELLID: MOUNTOR WEN #1
SYSTEM:	EME	· · · · · ·		DATE: August 20, 2007
SITE LOCATION:	Jct. D-1 L	_eak		SAMPLER: Rozanne Johnson
PURGING METHOD):	☐ Hand Ba	ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	ble Bailer [☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHO	O OF PURG	SE WATER:	☐ On-sit	te Drum
TOTAL DEPTH OF V		42.59	Feet	
DEPTH TO WATER HEIGHT OF WATER		37.71 4.88	Feet Feet	2 In. Well Diameter
WELL VOLUME:		Gal.	•	4 Gallons purged prior to sampling
	TEMP.	COND.		
TIME	°C	mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
14:30	21.2	38.53	6.94	Silt to Clear with slight odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
			<u> </u>	
1				
COMMENTS:				
Myron Model 6P instr	ument used	I to obtain pl	t, conductiv	vity, and temperature measurements.
Delivered samples to	Cardinal La	boratories in	Hobbs, Ne	w Mexico for BTEX, Major lons, and TDS analysis.

CLIENT:	RICE OF	erating Co	mpany	WELL ID: Monitor Well #1
SYSTEM:	EME			DATE: November 6, 2007
SITE LOCATION:	Jct. D-1 l	_eak		SAMPLER: Rozanne Johnson
PURGING METHOD):	☐ Hand Ba	ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	able Bailer	☐ Direct from Discharge Hose ☐ Other:
DICDOCAL METHOL	OF DUDO	SE MATER.	П о:	to Davis D. Davis D. CIMD Disposed For illity
DISPOSAL METHOR	J OF PURG	E WATER:	U On-si	te Drum 🔲 Drums 🔽 SWD Disposal Facility
TOTAL DEPTH OF N		42.59 38.03	Feet Feet	
HEIGHT OF WATER			Feet	2 In. Well Diameter
WELL VOLUME:	0.7	Gal.		4 Gallons purged prior to sampling
TIME	TEMP.	COND.		DUNCION ADDEADANCE AND DEMARKS
TIME	°C	mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
11:15	19.7	40.21	6.92	Silt to Clear with slight odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
	•			
COMMENTS:				
Myron Model 6P instr	ument used	to obtain ph	l, conducti	vity, and temperature measurements.
Delivered samples to	Cardinal La	boratories in	Hobbs, Ne	ew Mexico for BTEX, Major Ions, and TDS analysis.
		•	ė	

CLIENT:	KICE OF	verating Co	mpany	WELL ID: IVIONILOT VVEII #2
SYSTEM:	EME			DATE: February 27, 2007
SITE LOCATION:	Jct. D-1 I	Leak		SAMPLER: Rozanne Johnson
PURGING METHOD SAMPLING METHO				Pump, Type: Purge Pump ☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOI TOTAL DEPTH OF I DEPTH TO WATER HEIGHT OF WATEF WELL VOLUME:	WELL: : R COLUMN	47.18 35.38	On-si Feet Feet Feet	te Drum Drums SWD Disposal Facility 2 In. Well Diameter Gallons purged prior to sampling
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
13:20	20.5	29.97	6.98	Silt to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
	 	<u> </u>		
COMMENTS:				
Myron Model 6P instr	ument used	I to obtain pF	I, conductiv	vity, and temperature measurements.
Delivered samples to	Environmer	ntal Lab of Te	exas for BT	EX, Major lons, and TDS analysis.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #2
SYSTEM: EME				DATE: June 4, 2007
SITE LOCATION:	Jct. D-1 l	_eak		SAMPLER: Rozanne Johnson
•				
PURGING METHOD: ☐ Hand Bailed ☑ F				Pump, Type: Purge Pump
SAMPLING METHOR	D:	☑ Disposa	ble Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHO	OE DUBC	>= \\/ ATED:	П Оп si	te Drum ☐ Drums ☑ SWD Disposal Facility
				Te Drums SWD Disposal Facility
TOTAL DEPTH OF V		47.18 35.87	Feet Feet	
HEIGHT OF WATER	R COLUMN	11.31	Feet	In. Well Diameter
WELL VOLUME:	1.8	Gal.		8 Gallons purged prior to sampling
TIME	TEMP.	COND.	рН	PHYSICAL APPEARANCE AND REMARKS
	°C	mS/cm	ρii	THIS IS A STATE OF THE METAL WATER
8:40	20.0	30.31	6.97	Silt to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
		_		Major lons/TDS (1-1000ml Plastic)
COMMENTS:				
Myron Model 6P instr	ument used	I to obtain ph	l, conducti	vity, and temperature measurements.
Delivered samples to	Environmer	ntal Lab of Te	exas for B1	EX, Major lons, and TDS analysis.
	_			
	w			

CLIENT: RICE Operating Company				WELL ID: Monitor Well #2
SYSTEM:	EME			DATE: August 20, 2007
SITE LOCATION:	Jct. D-1 I	Leak		SAMPLER: Rozanne Johnson
			•	
PURGING METHOD: ☐ Hand Bailed ☑ P				Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	able Bailer	☐ Direct from Discharge Hose ☐ Other:
				•
DISPOSAL METHO	OF PURC	GE WATER:	☐ On-si	ite Drum ☐ Drums ☑ SWD Disposal Facility
TOTAL DEPTH OF \	VELL:	47.18	Feet	
DEPTH TO WATER		36.19	Feet	O In Wall Division
HEIGHT OF WATER WELL VOLUME:		: 10.99 Gal.	Feet	2 In. Well Diameter 8 Gallons purged prior to sampling
,		- 1	,	
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
		Moren		
12:50	20.9	30.9	7.01	Silt to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
		-		
<u> </u>]		
COMMENTS:		-		
Myron Model 6P instr	ument used	to obtain ph	l, conducti	vity, and temperature measurements.
Delivered samples to	Cardinal La	boratories in	Hobbs, No	ew Mexico for BTEX, Major lons, and TDS analysis.
	 			
*				

CLIENT: RICE Operating Company				WELL ID: Monitor Well #2
SYSTEM:	EME			DATE: November 6, 2007
SITE LOCATION: Jct. D-1 Leak				SAMPLER: Rozanne Johnson
PURGING METHOD: ☐ Hand Bailed ☑ F				Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	ble Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOL	O OF PURC	SE WATER:	☐ On-si	ite Drum Drums 🗹 SWD Disposal Facility
TOTAL DEPTH OF \	WELL:	47.18	Feet	
DEPTH TO WATER HEIGHT OF WATER		36.48 : 10.70	Feet Feet	2 In. Well Diameter
WELL VOLUME:		Gal.	reel	8 Gallons purged prior to sampling
	T		<u>.</u>	1
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
9:40	19.7	30.64	6.85	Silt to Clear with no odor.
				Samples Collected
,				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
COMMENTS:				
Myron Model 6P instr	rument used	d to obtain ph	l, conducti	vity, and temperature measurements.
Delivered samples to	Cardinal La	aboratories in	Hobbs, N	ew Mexico for BTEX, Major lons, and TDS analysis.

CLIENT: RICE Operating Company				WELL ID: MOUNTOL AAGII #2	
SYSTEM: EME				DATE: February 27, 2007	
SITE LOCATION:	Jct. D-1 l	_eak		SAMPLER: Rozanne Johnson	
				Pump, Type: Purge Pump Direct from Discharge Hose Other:	
DISPOSAL METHOD TOTAL DEPTH OF V DEPTH TO WATER: HEIGHT OF WATER WELL VOLUME:	WELL: : R COLUMN	47.93 39.00	On-si Feet Feet Feet	te Drum Drums SWD Disposal Facility 2 In. Well Diameter 6 Gallons purged prior to sampling	٠
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS	
15:15	20.9	43.99	6.83	Silt to Clear with slight odor.	
				Samples Collected	_
				BTEX (2-40ml VOA)	
				Major Ions/TDS (1-1000ml Plastic)	
		<u> </u>			_
COMMENTS:					
Myron Model 6P instr	ument used	I to obtain pl	l, conducti	vity, and temperature measurements.	
Delivered samples to	Environmer	ntal Lab of Te	exas for BT	EX, Major Ions, and TDS analysis.	
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CLIENT: RICE Operating Company				WELL ID: MICHIGA AA GIL #2
SYSTEM: EME				DATE: June 4, 2007
SITE LOCATION:	Jct. D-1 L	_eak		SAMPLER: Rozanne Johnson
PURGING METHOD:			ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	ıble Bailer İ	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHO	OF PURC	SE WATER:	☐ On-si	te Drum
TOTAL DEPTH OF V		47.93	Feet	
DEPTH TO WATER: HEIGHT OF WATER		39.47 8.46	Feet Feet	2 In. Well Diameter
WELL VOLUME:		Gal.		6 Gallons purged prior to sampling
	TEMP.	COND.	<u> </u>	
TIME	°C	mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
11:20	20.9	40.36	6.85	Silt to Clear with slight odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
				·
				•
COMMENTS:				1,4,4
Myron Model 6P instr	ument used	I to obtain p⊢	l, conductiv	vity, and temperature measurements.
Delivered samples to	Environmer	ntal Lab of Te	exas for BT	EX, Major lons, and TDS analysis.
		·····		

CLIENT: RICE Operating Company				WELL ID: Monitor Well #3
SYSTEM:	EME			DATE: August 20, 2007
SITE LOCATION:		 Leak		SAMPLER: Rozanne Johnson
PURGING METHOD: ☐ Hand Bailed ☑ F				Pump, Type: Purge Pump
SAMPLING METHO	D:	✓ Disposa	ble Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHO	OF PURC	GE WATER:	∐ On-si	te Drum 🔲 Drums 🔽 SWD Disposal Facility
TOTAL DEPTH OF V		47.93 39.81	Feet Feet	
HEIGHT OF WATER	R COLUMN	8.12	Feet	2 In. Well Diameter
WELL VOLUME:	1.3	Gal.		Gallons purged prior to sampling
	TEMP.	COND.		DINOISAL ADDEADANCE AND DEMARKS
TIME	°C	mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
15:50	21.3	39.77	6.87	Silt to Clear with slight odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
COMMENTS:				
Myron Model 6P instr	ument used	to obtain p	I, conducti	vity, and temperature measurements.
Delivered samples to	Cardinal La	aboratories in	Hobbs, No	ew Mexico for BTEX, Major Ions, and TDS analysis.
		_		

CLIENT: RICE Operating Company				WELL ID: Monitor Well #3
SYSTEM: EME				DATE: November 6, 2007
SITE LOCATION:	Jct. D-1 l	_eak		SAMPLER: Rozanne Johnson
PURGING METHOD):	☐ Hand Ba	ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D:	✓ Disposa	ble Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOL	O OF PURG	SE WATER:	☐ On-si	te Drum ☐ Drums ☑ SWD Disposal Facility
TOTAL DEPTH OF \	WELL:	47.93	Feet	
DEPTH TO WATER	:	39.99	Feet	
HEIGHT OF WATER WELL VOLUME:		7.94 Gal.	Feet	2 In. Well Diameter 6 Gallons purged prior to sampling
			r	
TIMÉ	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
12:45	19.6	43.76	6.98	Silt to Clear with slight odor.
		_		Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
COMMENTS:				
Myron Model 6P instr	ument used	to obtain ph	l, conductiv	vity, and temperature measurements.
Delivered samples to	Cardinal La	boratories in	Hobbs, Ne	ew Mexico for BTEX, Major Ions, and TDS analysis.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #4
SYSTEM:	EME			DATE: December 22, 2006
SITE LOCATION: Jct. D-1 Leak				SAMPLER: Rozanne Johnson
PURGING METHOD: ☐ Hand Bailed ☑ F				Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	ble Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOL	O OF PURG	SE WATER:	☐ On-si	te Drum 🔲 Drums 🗹 SWD Disposal Facility
TOTAL DEPTH OF \	WELL:	47.33	Feet	•
DEPTH TO WATER HEIGHT OF WATER		35.97 11.36	Feet Feet	2 In. Well Diameter
WELL VOLUME:	-	Gal.	1 661	6 Gallons purged prior to sampling
	75115			
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
				Well is weak and will pump off.
9:10	16.8	36.97	7.28	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
COMMENTS:				
Myron Model 6P instr	ument used	to obtain pH	l, conducti	vity, and temperature measurements.
Delivered samples to	Environmer	ntal Lab of Te	exas for BT	FEX, Major lons, and TDS analysis.
			· · · · · · · · · · · · · · · · · · ·	
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CLIENT:	RICE OF	perating Co	mpany	WELL ID: Monitor Well #4
SYSTEM: EME				DATE: June 4, 2007
SITE LOCATION:	Jct. D-1	Leak		SAMPLER: Rozanne Johnson
PURGING METHOD: ☐ Hand Bailed ☑ F			ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	able Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOL	OF PUR	GE WATER:	☐ On-si	ite Drum Drums SWD Disposal Facility
TOTAL DEPTH OF V	VELL:	47.33	Feet	
DEPTH TO WATER HEIGHT OF WATER		36.67 I: 10.66	Feet Feet	2 In. Well Diameter
WELL VOLUME:		Gal.	. reel	2 In. Well Diameter 6 Gallons purged prior to sampling
		- 1	ļ <u></u>	T
TIME	TEMP. °C	COND. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
				/
9:30	20.2	37.72	7.00	Silt to Clear with slight odor. Well pumps dry.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
				·
				Well Pumps off
COMMENTS:				
Myron Model 6P instr	ument used	to obtain pl	l, conducti	vity, and temperature measurements.
Delivered samples to	Environme	ntal Lab of Te	exas for B1	FEX, Major lons, and TDS analysis.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #4
SYSTEM: EME				DATE: August 20, 2007
SITE LOCATION: Jct. D-1 Leak				SAMPLER: Rozanne Johnson
•				
PURGING METHOD: ☐ Hand Bailed ☑ F				Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	ble Bailer	Direct from Discharge Hose Other:
DISPOSAL METHO	OF PURC	SE WATER:	☐ On-si	te Drum Drums SWD Disposal Facility
TOTAL DEPTH OF V	WELL:	47.33	Feet	
DEPTH TO WATER		37.00	Feet	O La Mall Discoster
HEIGHT OF WATER WELL VOLUME:		: 10.33 Gal.	Feet	2 In. Well Diameter6 Gallons purged prior to sampling
		1		
TIME	TEMP. °C	COND. mS/cm	pН	PHYSICAL APPEARANCE AND REMARKS
			,	
13:40	21.0	34.46	7.02	Silt to Clear with slight odor. Well pumps dry.
			-	Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
				Well Pumps off
COMMENTS:				
Myron Model 6P instr	ument used	l to obtain pH	l, conductiv	rity, and temperature measurements.
Delivered samples to	Cardinal La	boratories in	Hobbs, Ne	w Mexico for BTEX, Major lons, and TDS analysis.

CLIENT: RICE Operating Company				WELL ID: Monitor Well #4
SYSTEM: EME				DATE: November 6, 2007
SITE LOCATION:	Jct. D-1	Leak		SAMPLER: Rozanne Johnson
PURGING METHOD: ☐ Hand Bailed ☑ P			ailed 🗹	Pump, Type: Purge Pump
SAMPLING METHO	D:	☑ Disposa	ıble Bailer	☐ Direct from Discharge Hose ☐ Other:
DISPOSAL METHOL	OF PURC	GE WATER:	∐ On-sı	te Drum 🔲 Drums 🔽 SWD Disposal Facility
TOTAL DEPTH OF N		47.33 37.32	Feet Feet	
HEIGHT OF WATER			Feet	2In. Well Diameter
WELL VOLUME:	1.6	Gal.		6 Gallons purged prior to sampling
T.1.45	ТЕМР.	COND.		DINOIS A APPEADANCE AND DEMARKS
TIME	°C	mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
10:20	19.9	36.85	7.00	Silt to Clear with slight odor. Well pumps dry.
				Samples Collected
				BTEX (2-40ml VOA)
				Major lons/TDS (1-1000ml Plastic)
				Well Pumps off
COMMENTS:				
Myron Model 6P instr	ument used	d to obtain pl	ł, conducti	vity, and temperature measurements.
Delivered samples to	Cardinal La	aboratories in	Hobbs, Ne	ew Mexico for BTEX, Major lons, and TDS analysis.