

1R - 336

Annual GW Mon. REPORTS

DATE:

2007



CERTIFIED MAIL
RETURN RECEIPT 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**

RECEIVED
2008 MAR 28 PM 1 46

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

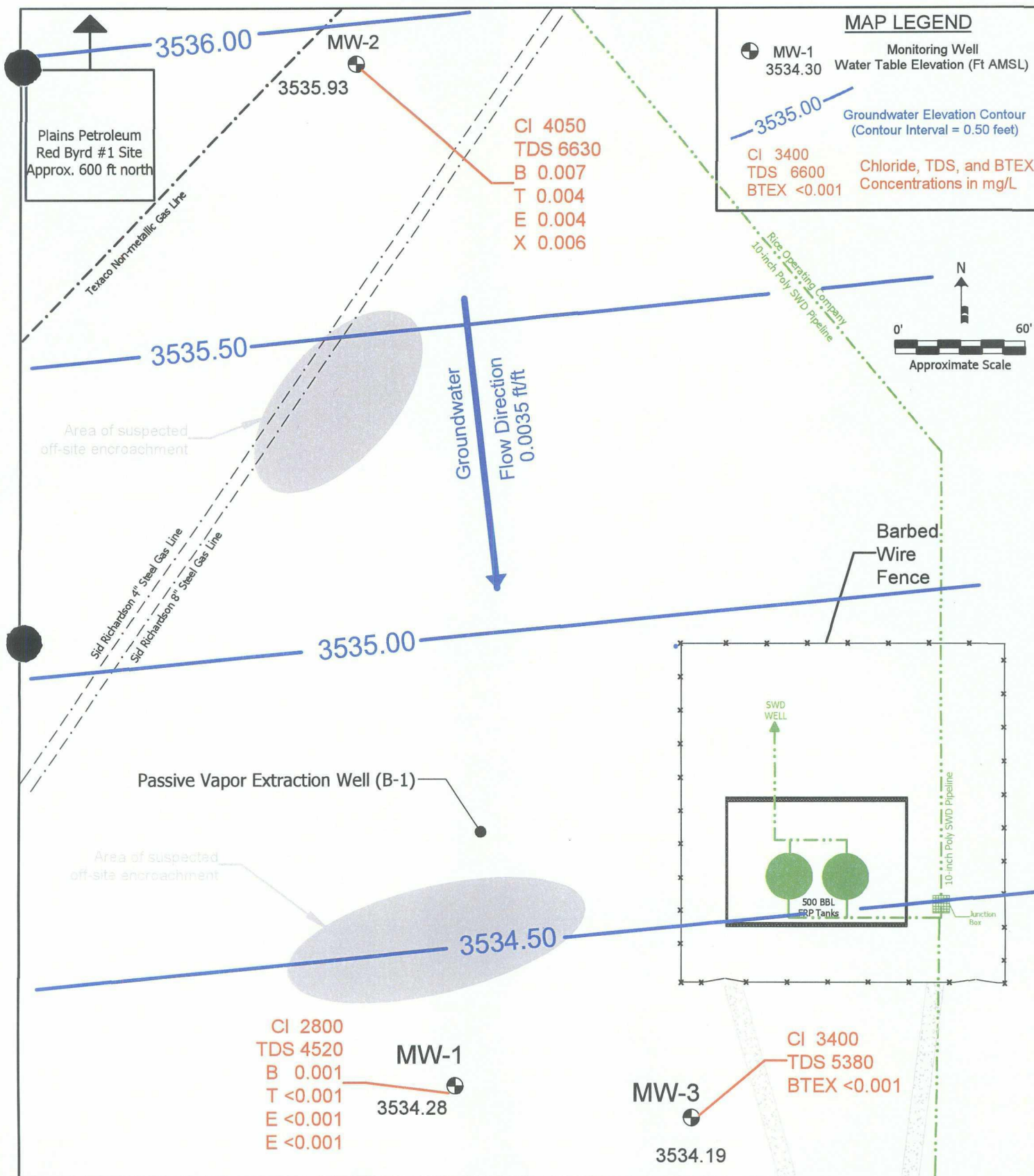
enclosures: maps, table, graphs, well sampling data forms, and laboratory analytical reports.

ATTACHMENT A

Site Maps

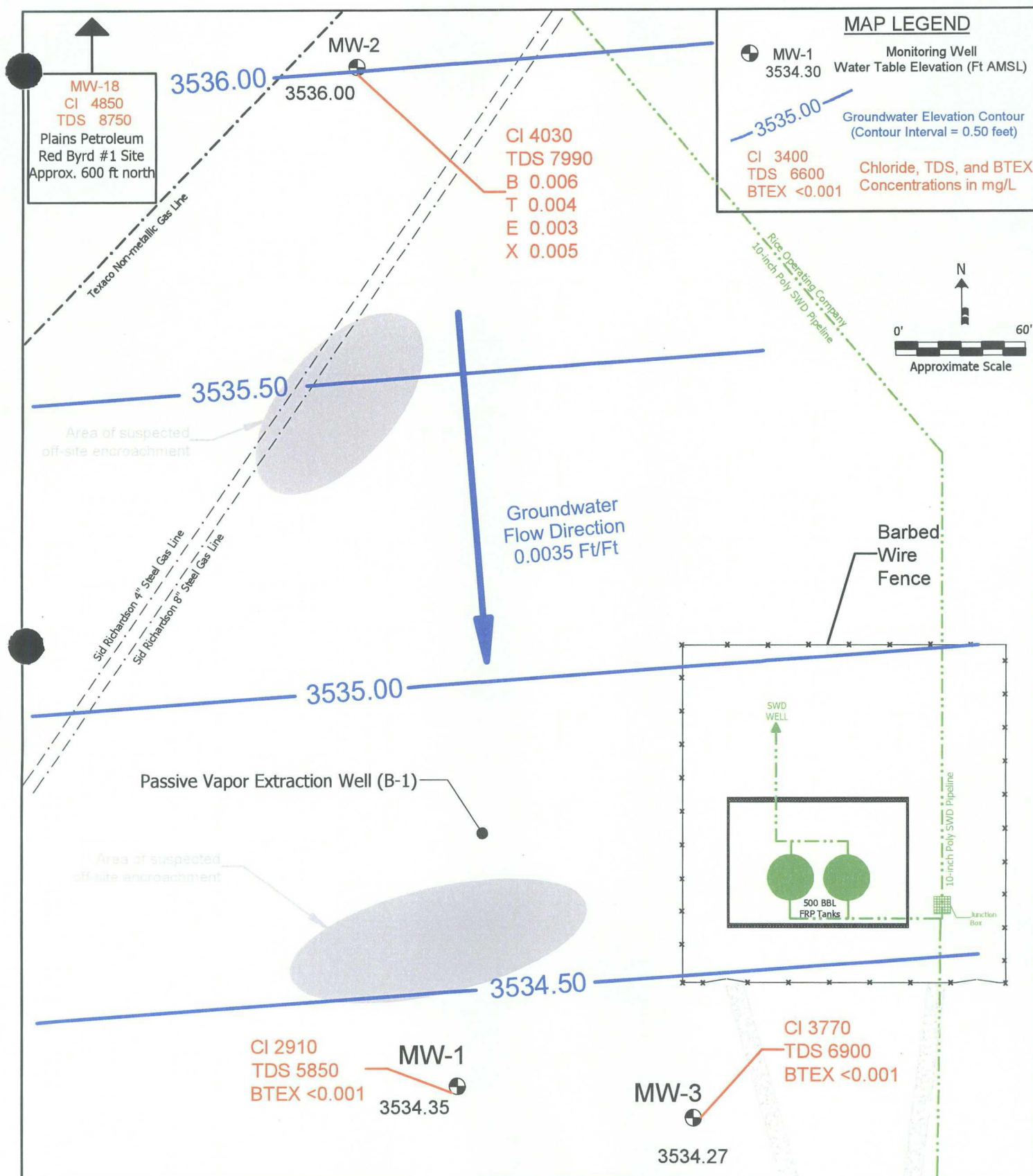
Graphs

Table



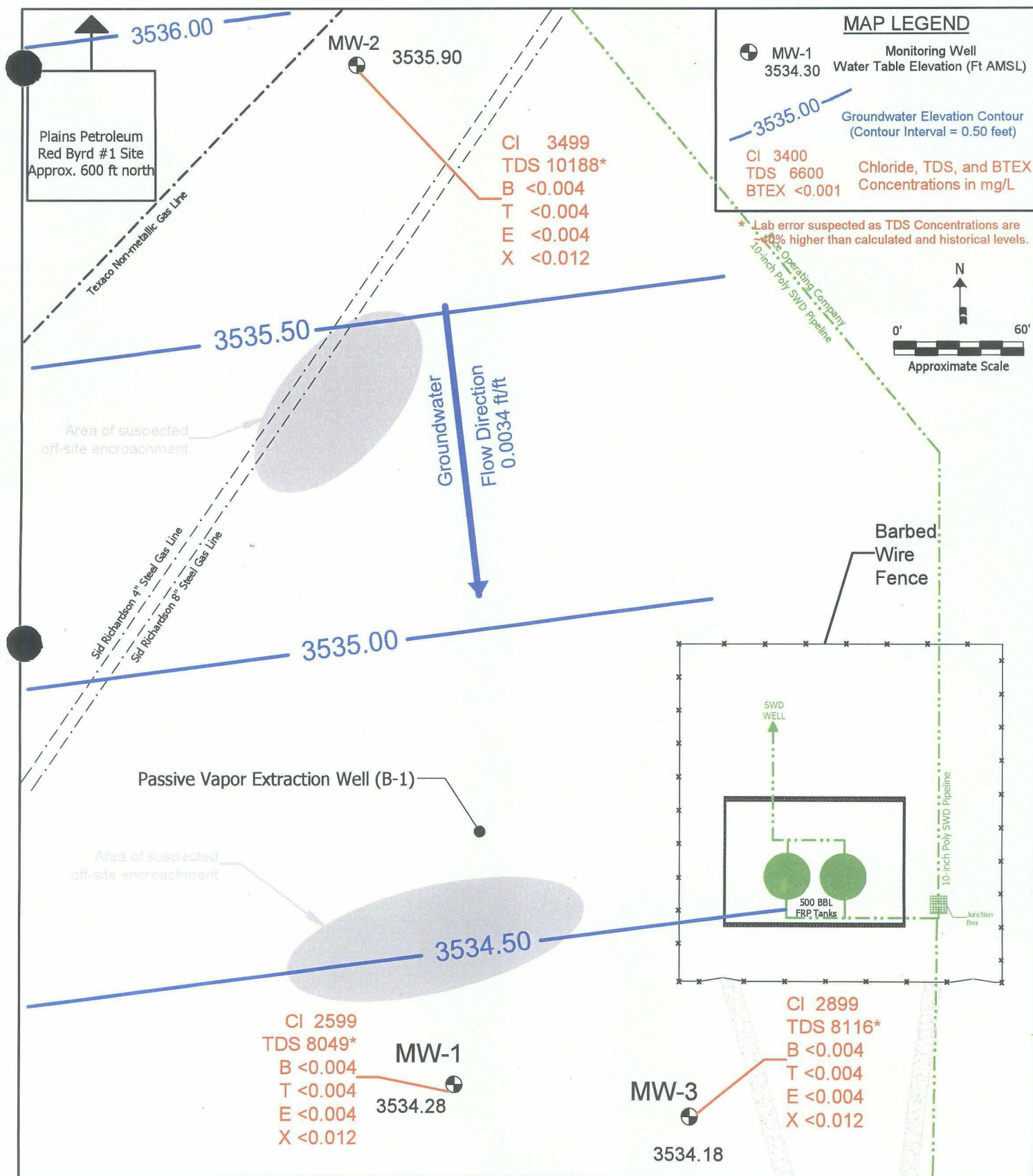
EME I-1 SWD Offsite Encroachment Site
T2OS - R36E - Section 1 - Unit I
RICE Operating Company

GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
FEBRUARY 26, 2007



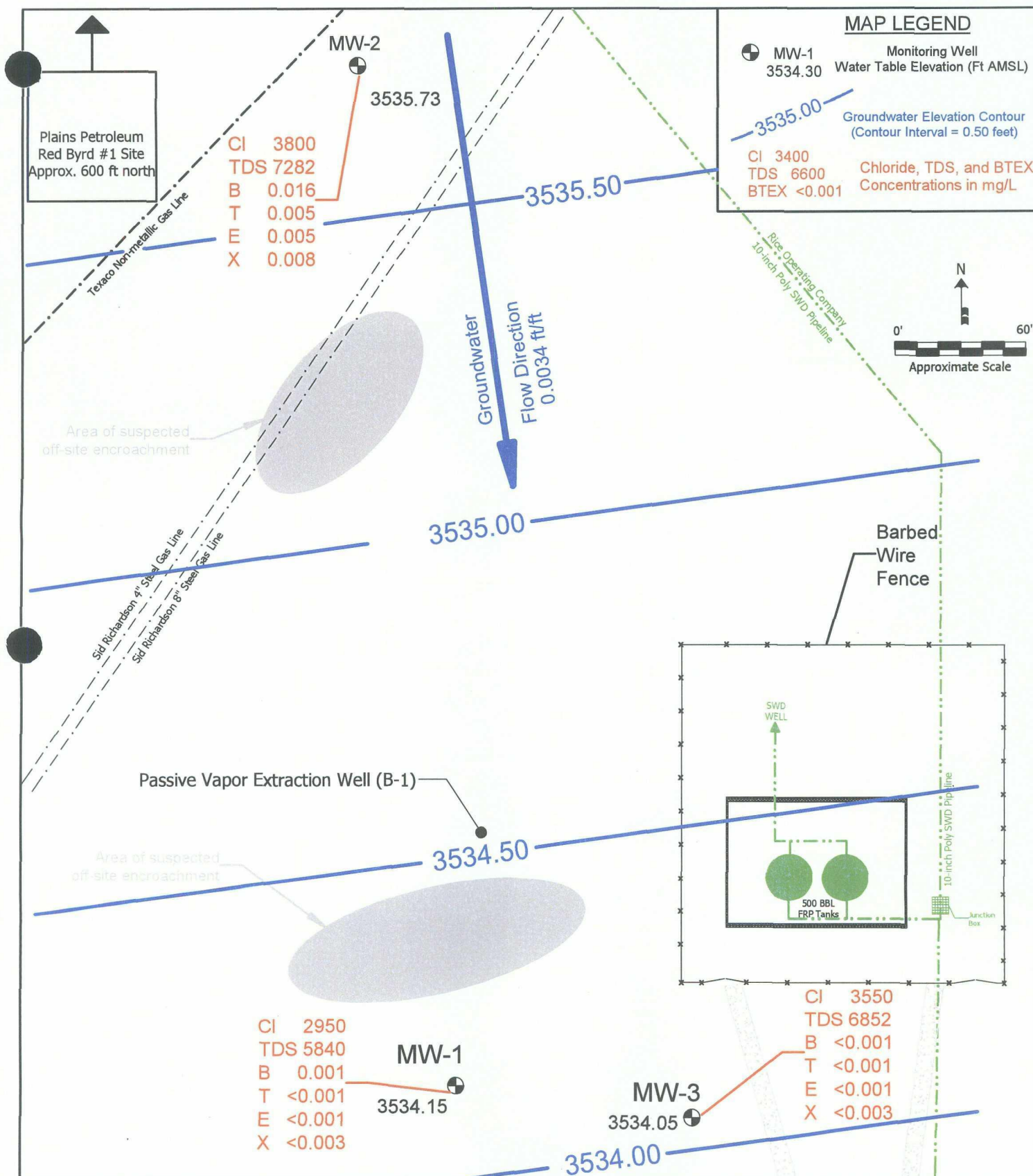
EME I-1 SWD Offsite Encroachment Site
T20S - R36E - Section 1 - Unit I
RICE Operating Company

GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
JUNE 4, 2007



EME I-1 SWD Offsite Encroachment Site
T2OS - R36E - Section 1 - Unit I
RICE Operating Company

GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
AUGUST 20, 2007



EME I-1 SWD Offsite Encroachment Site
T20S - R36E - Section 1 - Unit I
RICE Operating Company

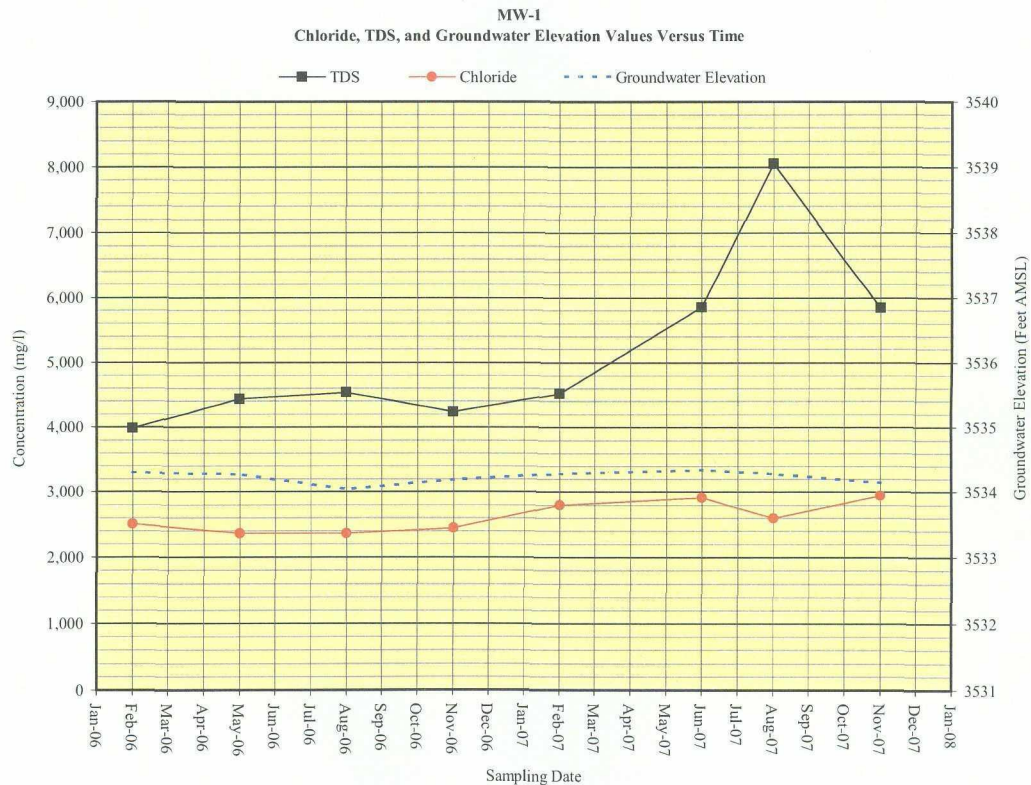
GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
NOVEMBER 5, 2007

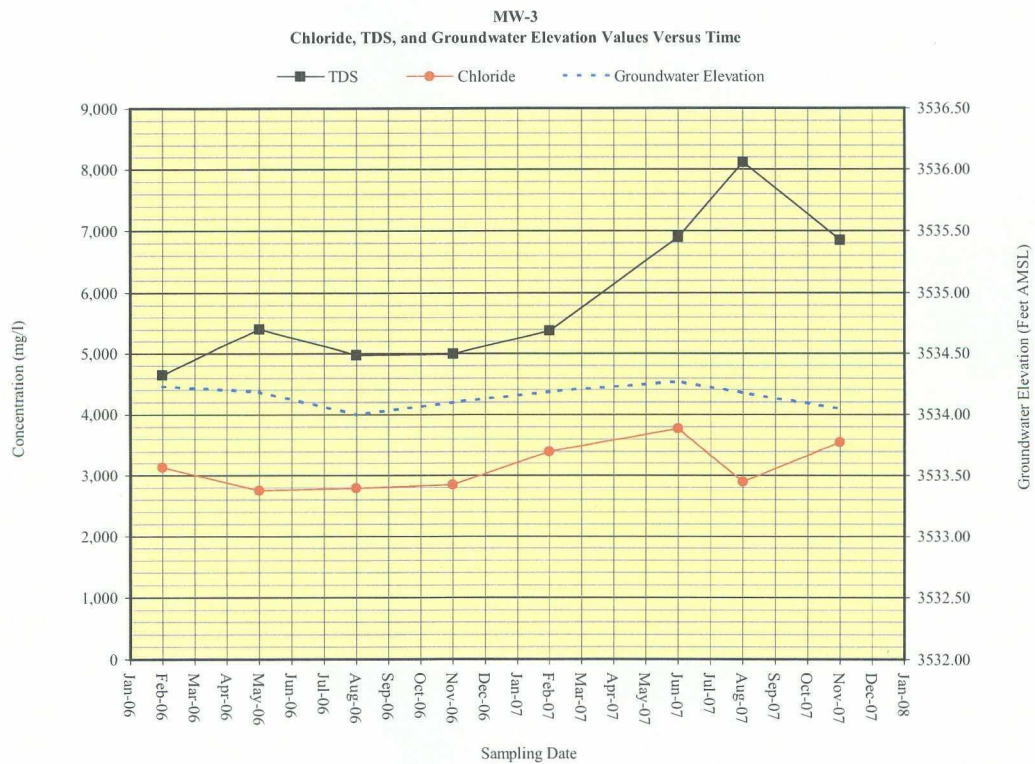
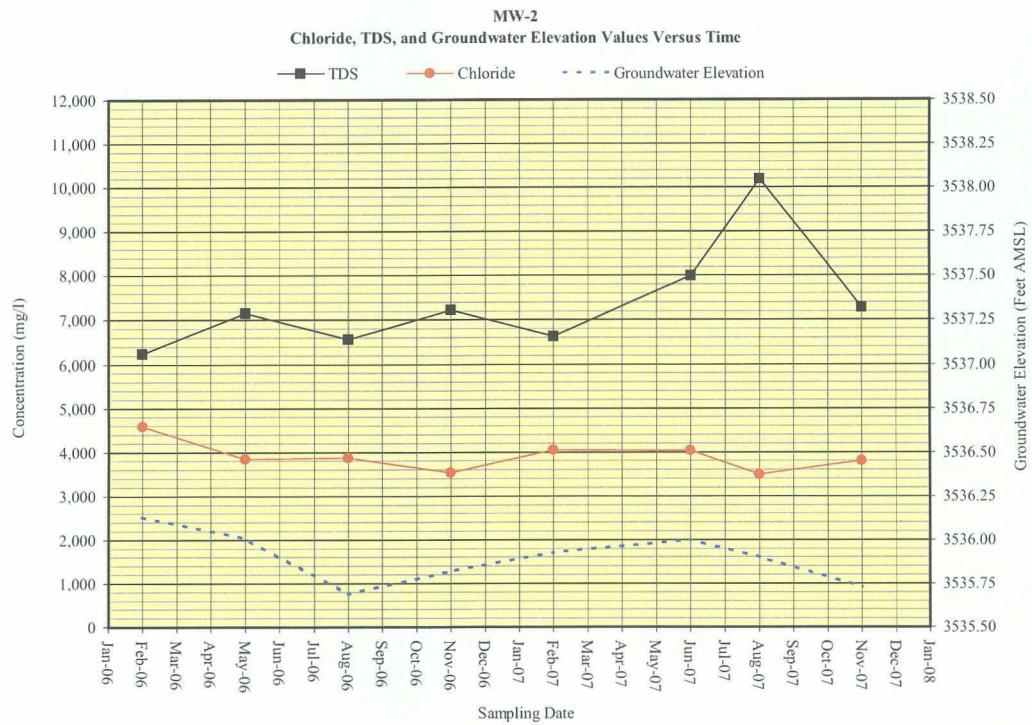
Table 1
Summary of Groundwater Sampling Results
EME I-1 SWD Site

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)
MW-1	02/15/06	35.09	3534.30	2,510	3,990	< 0.001	< 0.001	< 0.001	< 0.001
	05/22/06	35.12	3534.27	2,360	4,440	< 0.001	< 0.001	< 0.001	< 0.001
	08/28/06	35.35	3534.04	2,360	4,540	< 0.001	< 0.001	< 0.001	< 0.001
	11/27/06	35.20	3534.19	2,440	4,240	0.001	0.001	0.001	< 0.001
	02/26/07	35.11	3534.28	2,800	4,520	0.001	< 0.001	< 0.001	< 0.001
	06/04/07	35.04	3534.35	2,910	5,850	0.001	< 0.001	< 0.001	< 0.001
	08/20/07	35.11	3534.28	2,599	8,049	< 0.004	< 0.004	< 0.004	< 0.012
	11/05/07	35.24	3534.15	2,950	5,840	0.001	< 0.001	< 0.001	< 0.003
MW-2	02/15/06	33.52	3536.13	4,590	6,240	0.003	0.003	0.006	0.007
	05/22/06	33.64	3536.01	3,850	7,160	0.001	< 0.001	0.001	< 0.001
	08/28/06	33.96	3535.69	3,880	6,560	0.001	< 0.001	0.007	0.002
	11/27/06	33.83	3535.82	3,540	7,220	0.002	0.001	0.003	0.002
	02/26/07	33.72	3535.93	4,050	6,630	0.007	0.004	0.004	0.006
	06/04/07	33.65	3536.00	4,030	7,990	0.006	0.004	0.003	0.005
	08/20/07	33.75	3535.90	3,499	10,188	< 0.004	< 0.004	< 0.004	< 0.012
	11/05/07	33.92	3535.73	3,800	7,282	0.016	0.005	0.005	0.008
MW-3	02/15/06	34.59	3534.23	3,140	4,640	< 0.001	< 0.001	< 0.001	< 0.001
	05/22/06	34.63	3534.19	2,750	5,410	< 0.001	< 0.001	< 0.001	< 0.001
	08/28/06	34.82	3534.00	2,790	4,970	< 0.001	< 0.001	< 0.001	< 0.001
	11/27/06	34.72	3534.10	2,850	4,990	< 0.001	0.001	< 0.001	< 0.001
	02/26/07	34.63	3534.19	3,400	5,380	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	34.55	3534.27	3,770	6,900	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	34.64	3534.18	2,899	8,116	< 0.004	< 0.004	< 0.004	< 0.012
	11/05/07	34.77	3534.05	3,550	6,852	< 0.001	< 0.001	< 0.001	< 0.003
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Solids (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 2007 TDS values are 40% higher than calculated values suggesting lab error.



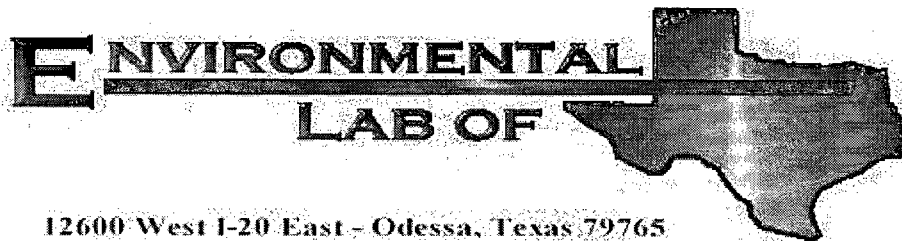


ATTACHMENT B

Laboratory Analytical Reports

And

Chain of Custody Documentation



12600 West I-20 East - Odessa, Texas 79765

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

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

ANALYTICAL REPORT FOR SAMPLES

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

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	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	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		"	"	"	"	
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	"	"	"	"	"	"	
Xylene (p/m)	0.00619	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
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	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

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: 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

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	"	100	EC70717	03/07/07	03/08/07	EPA 300.0	
Total Dissolved Solids	4520	10.0	"	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	"	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	"	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	

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Page 3 of 10

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	"	"	"	"	"	"	
Potassium	24.3	1.00	"	"	"	"	"	"	
Sodium	812	1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Potassium	22.1	1.00	"	"	"	"	"	"	
Sodium	1230	1.00	"	"	"	"	"	"	
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	"	"	"	"	"	"	
Potassium	25.5	1.00	"	"	"	"	"	"	
Sodium	1030	1.00	"	"	"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 4 of 10

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 Limits	RPD	RPD Limit	Notes
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Batch EC70201 - EPA 5030C (GC)

Blank (EC70201-BLK1)

Prepared: 03/02/07 Analyzed: 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		
Surrogate: 4-Bromofluorobenzene	51.6		"	50.0		103	80-120		

LCS (EC70201-BS1)

Prepared: 03/02/07 Analyzed: 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		
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: 03/02/07 Analyzed: 03/07/07

Benzene	59.0		ug/l	50.0		118	80-120		
Toluene	53.4		"	50.0		107	80-120		
Ethylbenzene	51.9		"	50.0		104	80-120		
Xylene (p/m)	98.7		"	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)

Source: 7C02009-01

Prepared: 03/02/07 Analyzed: 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		
Ethylbenzene	0.0537	0.00100	"	0.0500	ND	107	80-120		
Xylene (p/m)	0.101	0.00100	"	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-04
Surrogate: 4-Bromofluorobenzene	62.8		"	50.0		126	80-120		S-04

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

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
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Batch EC70201 - EPA 5030C (GC)

Matrix Spike Dup (EC70201-MSD1)	Source: 7C02009-01			Prepared: 03/02/07 Analyzed: 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	"	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: <i>a,a,a</i> -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

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 Limits	RPD Limit	Notes
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Batch EC70704 - General Preparation (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	"	200	85.0	85-115

Duplicate (EC70704-DUP1)

Source: 7C01005-01

Prepared & Analyzed: 03/09/07

Total 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	"	0.00		20

Reference (EC70704-SRM1)

Prepared & Analyzed: 03/09/07

Total Alkalinity	246		mg/L	250	98.4	90-110
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Batch EC70715 - General Preparation (WetChem)

Blank (EC70715-BLK1)

Prepared: 03/05/07 Analyzed: 03/08/07

Total Dissolved Solids	ND	10.0	mg/L
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Duplicate (EC70715-DUP1)

Source: 7C01013-01

Prepared: 03/05/07 Analyzed: 03/08/07

Total Dissolved Solids	4630	10.0	mg/L	4520	2.40	20
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Duplicate (EC70715-DUP2)

Source: 7C01015-04

Prepared: 03/05/07 Analyzed: 03/08/07

Total Dissolved Solids	12500	10.0	mg/L	12100	3.25	20
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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

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 EC70717 - General Preparation (WetChem)										
Blank (EC70717-BLK1) Prepared: 03/07/07 Analyzed: 03/08/07										
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EC70717-BS1) Prepared: 03/07/07 Analyzed: 03/08/07										
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: 03/07/07 Analyzed: 03/08/07										
Sulfate	11.7		mg/L	10.0		117	80-120			
Chloride	8.24		"	10.0		82.4	80-120			
Duplicate (EC70717-DUP1) Source: 7B28002-05 Prepared: 03/07/07 Analyzed: 03/08/07										
Sulfate	0.766	0.500	mg/L		0.755			1.45	20	
Chloride	0.823	0.500	"		0.811			1.47	20	
Duplicate (EC70717-DUP2) Source: 7C01014-01 Prepared: 03/07/07 Analyzed: 03/08/07										
Chloride	11300	250	mg/L		11400			0.881	20	
Sulfate	4410	250	"		4360			1.14	20	
Matrix Spike (EC70717-MS1) Source: 7B28002-05 Prepared: 03/07/07 Analyzed: 03/08/07										
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) Source: 7C01014-01 Prepared: 03/07/07 Analyzed: 03/08/07										
Sulfate	9950	250	mg/L	5000	4360	112	80-120			
Chloride	17500	250	"	5000	11400	122	80-120			M1

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 - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC70801 - 6010B/No Digestion

Blank (EC70801-BLK1)

Prepared & Analyzed: 03/07/07

Calcium	ND	0.200	mg/L							
Magnesium	ND	0.0200	"							
Potassium	ND	1.00	"							
Sodium	ND	1.00	"							

LCS (EC70801-BS1)

Prepared & Analyzed: 03/07/07

Calcium	0.974		mg/L	1.00		97.4	85-115			
Magnesium	0.990		"	1.00		99.0	85-115			
Potassium	9.59		"	10.0		95.9	85-115			
Sodium	9.82		"	11.0		89.3	85-115			

LCS Dup (EC70801-BSD1)

Prepared & 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		"	11.0		91.8	85-115	2.81	20	

Matrix Spike (EC70801-MS1)

Source: 7C01013-01

Prepared & Analyzed: 03/07/07

Calcium	368	0.0810	mg/L	2.00	376	NR	75-125			M8
Magnesium	182	0.0360	"	2.00	183	NR	75-125			M8
Potassium	56.9	0.0600	"	20.0	24.3	163	75-125			M8
Sodium	1170	0.0430	"	22.0	812	NR	75-125			M8

Matrix Spike Dup (EC70801-MSD1)

Source: 7C01013-01

Prepared & Analyzed: 03/07/07

Calcium	369	0.0810	mg/L	2.00	376	NR	75-125	0.271	20	M8
Magnesium	180	0.0360	"	2.00	183	NR	75-125	1.10	20	M8
Potassium	57.0	0.0600	"	20.0	24.3	164	75-125	0.176	20	M8
Sodium	1180	0.0430	"	22.0	812	NR	75-125	0.851	20	M8

Environmental Lab of Texas
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Page 9 of 10

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

Notes and Definitions

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

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

Report Approved By:



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.

Environmental Lab of Texas

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Page 10 of 10

12500 West I-20 East
Odessa, Texas 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

Sampler Signature: Rozanne Johnson (505) 631-9310

Fax No:

e-mail:

(505) 397-1471

rozanne@valornet.com

Project Name: EME I-1 SWD

Project #:

Project Loc: T20S-R36E-Sec 1 Lee County New Mexico

PO #:

Report Format:

☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #:

7B 7C01013

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl (2) 40 ml glass vials	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	Other (Specify)	DV - Drinking Water SL-Sludge	GV - Groundwater S-Solid	NP - Non-Portable Specify Other	TPH: 418.1 801SM 801	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	NO ₃ -M	Total Dissolved Solids	RUSH TAT (Per Schedule) 24, 48, Standard TAT		
-01	Monitor Well #1			2/26/2007	9:10		3	X	2					1	GW					X	X	X	X				X					
-02	Monitor Well #2			2/26/2007	11:50		3	X	2					1	GW					X	X	X	X				X					
-03	Monitor Well #3			2/26/2007	10:15		3	X	2					1	GW					X	X	X	X				X					

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op.
 Date/ Time: 2/1/07 3:30
 Lab ID #: 11001013
 Initials: UK

Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	Yes	No	10 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

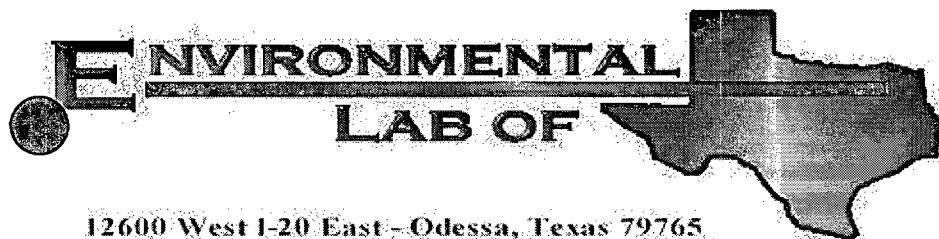
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

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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.
122 W. Taylor
Hobbs NM, 88240

Project: EME I-1 SWD
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	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	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7F06019-01) Water									
Benzene	J [0.000956]	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	J [0.000533]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		122 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	
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	"	"	"	"	"	"	
Ethylbenzene	0.00268	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00418	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00101	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		137 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
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	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.6 %	80-120		"	"	"	"	

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Page 2 of 10

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

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 (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	"	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	"	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	06/12/07	EPA 300.0	

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 (7F06019-01) Water									
Calcium	353	8.10	mg/L	100	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	174	1.80	"	50	"	"	"	"	
Potassium	14.7	0.600	"	10	"	"	"	"	
Sodium	778	21.5	"	500	"	"	"	"	
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	"	50	"	"	"	"	
Potassium	13.3	0.600	"	10	"	"	"	"	
Sodium	1130	21.5	"	500	"	"	"	"	
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	"	50	"	"	"	"	
Potassium	14.3	0.600	"	10	"	"	"	"	
Sodium	985	21.5	"	500	"	"	"	"	

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
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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	"							
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 & Analyzed: 06/08/07

Benzene	0.0548	0.00100	mg/L	0.0500		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	"	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)

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0576		mg/L	0.0500		115	80-120			
Toluene	0.0567		"	0.0500		113	80-120			
Ethylbenzene	0.0537		"	0.0500		107	80-120			
Xylene (p/m)	0.0999		"	0.100		99.9	80-120			
Xylene (o)	0.0573		"	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)

Source: 7F06019-03

Prepared: 06/08/07 Analyzed: 06/09/07

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	"	0.100	ND	107	80-120			
Xylene (o)	0.0614	0.00100	"	0.0500	ND	123	80-120			M1
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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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 EF70802 - EPA 5030C (GC)										
Matrix Spike Dup (EF70802-MSD1)		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	"	0.0500	ND	111	80-120	5.26	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	4.78	20	
Xylene (o)	0.0584	0.00100	"	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			

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

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 (WetChem)										
Blank (EF71110-BLK1)				Prepared: 06/07/07 Analyzed: 06/11/07						
Total 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)				Source: 7F06019-03 Prepared: 06/07/07 Analyzed: 06/11/07						
Total Dissolved Solids	7020	10.0	mg/L		6900			1.72	20	
Batch EF71203 - General Preparation (WetChem)										
Blank (EF71203-BLK1)				Prepared & Analyzed: 06/12/07						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EF71203-BS1)				Prepared & Analyzed: 06/12/07						
Chloride	9.91	0.500	mg/L	10.0		99.1	80-120			
Sulfate	9.45	0.500	"	10.0		94.5	80-120			
Calibration Check (EF71203-CCV1)				Prepared & Analyzed: 06/12/07						
Chloride	9.55		mg/L	10.0		95.5	80-120			
Sulfate	12.0		"	10.0		120	80-120			
Duplicate (EF71203-DUP1)				Source: 7F05004-01 Prepared & Analyzed: 06/12/07						
Sulfate	586	5.00	mg/L		586			0.00	20	
Chloride	289	5.00	"		282			2.45	20	
Duplicate (EF71203-DUP2)				Source: 7F06017-01 Prepared & Analyzed: 06/12/07						
Chloride	428	10.0	mg/L		401			6.51	20	
Sulfate	456	10.0	"		438			4.03	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

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 Limits	RPD Limit	Notes
Batch EF71203 - General Preparation (WetChem)								
Matrix Spike (EF71203-MS1)		Source: 7F05004-01		Prepared & Analyzed: 06/12/07				
Chloride	378	5.00	mg/L	100	282	96.0	80-120	
Sulfate	661	5.00	"	100	586	75.0	80-120	QM-10
Matrix Spike (EF71203-MS2)		Source: 7F06017-01		Prepared & Analyzed: 06/12/07				
Sulfate	654	10.0	mg/L	200	438	108	80-120	
Chloride	623	10.0	"	200	401	111	80-120	
Batch EF71309 - General Preparation (WetChem)								
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	"					
LCS (EF71309-BS1)		Prepared & Analyzed: 06/13/07						
Bicarbonate Alkalinity	174	2.00	mg/L	200		87.0	85-115	
Duplicate (EF71309-DUP1)		Source: 7F06017-02		Prepared & Analyzed: 06/13/07				
Total Alkalinity	348	2.00	mg/L		348		0.00	20
Reference (EF71309-SRM1)		Prepared & Analyzed: 06/13/07						
Total Alkalinity	250		mg/L	250		100	90-110	

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 8 of 10

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 - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	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	"							
Potassium	ND	0.0600	"							
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		"	2.00		91.5	85-115			
Potassium	2.28		"	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	"		29.8			1.01	20	
Potassium	6.37	0.600	"		6.57			3.09	20	
Sodium	121	2.15	"		124			2.45	20	

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

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:



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

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Environmental Lab of Texas

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Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Project Name: EME I-1 SWD

Company Name: RICE Operating Company

Project #:

Company Address: 122 W. Taylor Street

Project Loc: T20S-R30E-Sec 11 - Lea County New Mexico

City/State/Zip: Hobbs, New Mexico 88240

PO #:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

Sampler Signature: Rozanne Johnson (505) 631-9310

e-mail: rozanne@valornet.com

Lab use only		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix										Analyze For									
ORDER #:	LAB # (lab use only)									HNO ₃	HCl (2) 40 ml glass vials	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	Other (Specify)	Other (Specify)	DV - Drinking Water - SL - Sludge	GV - Groundwater - SL - Soil/Solid	MS - Fishable - Specific Other	TPH 418-1 8015M 8015B	TPH 1X 1005 1X 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As, Ag, Ba, Cd, Cr, Pb, Hg, Se	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 2A, 4B, 72 hrs	Standard TAT					
	01	Monitor Well #1				6/4/2007	14:50		3	X	2			1				GW					X	X													
	02	Monitor Well #2				6/4/2007	15:55		3	X	2			1				GW					X	X													
	03	Monitor Well #3				6/4/2007	14:00		3	X	2			1				GW					X	X													

Special Instructions:				Please email to:				Relinquished by:				Relinquished by:				Relinquished by:				Relinquished by:			
kpope@riceswd.com		jpurvis@riceswd.com		kpope@riceswd.com		jpurvis@riceswd.com		kpope@riceswd.com		jpurvis@riceswd.com		kpope@riceswd.com		jpurvis@riceswd.com		kpope@riceswd.com		jpurvis@riceswd.com		kpope@riceswd.com		jpurvis@riceswd.com	
Received by:		Received by:		Received by:		Received by:		Received by:		Received by:		Received by:		Received by:		Received by:		Received by:		Received by:		Received by:	
Date:		Date:		Date:		Date:		Date:		Date:		Date:		Date:		Date:		Date:		Date:		Date:	
Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:		Time:	
8:45		8:45		8:45		8:45		8:45		8:45		8:45		8:45		8:45		8:45		8:45		8:45	
Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton		Mary Morton	
6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07		6/4/07	
12:51		12:51		12:51		12:51		12:51		12:51		12:51		12:51		12:51		12:51		12:51		12:51	
Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm		Undhea Lamm	

Laboratory Comments:
Sample Containers intact?
VOCs Free of Headspace?
Labels on Containers?
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Clean Rep?
by Courier?
Temperature Upon Receipt

ZZZZZZZZ
FedEx
DHL
UPS
Lone Star
10 °C

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

Client: Rice
Date/ Time: 6-6-07 12:51
Lab ID #: 7F06019
Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>2.0</u> °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event



ARDINAL LABORATORIES

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 DATE		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
Quality Control		0.096	0.085	0.086	0.264
True Value QC		0.100	0.100	0.100	0.300
% Recovery		96	85	86	88
Relative Percent Difference		0.9	1.8	0.8	2.8

METHOD: EPA SW-846 8021B

Chemist

Date



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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

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		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
Relative Percent Difference		NR	8.0	6.3	2.1	0.6	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	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	0	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 Control	520	25.4	NR	939	6.95	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	104	101	NR	93.9	99.3	NR
Relative Percent Difference	3.9	1.1	NR	1.4	< 0.1	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Chemist

Date

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[illegible]



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

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: 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: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		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 Percent Difference		10.6	3.9	2.9	3.8

METHOD: EPA SW-846 8021B

Chemist

Date

H13668b Rice

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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

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		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 Control		NR	49.2	51.6	2.95	1,389	NR
True Value QC		NR	50.0	50.0	3.00	1,404	NR
% Recovery		NR	98.5	103	98.3	98.9	NR
Relative Percent Difference		NR	< 0.1	1.5	5.0	0.5	NR

METHODS:	SM3500-Ca-D	13500-Mg E	8049	120.1	310.1
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		Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		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 Control		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 Percent Difference		< 0.1	3.5	NR	< 0.1	< 0.1	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

Kristin Farris-Pope
Chemist

11/15/07
Date

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ATTACHMENT C

Field Data Forms

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #1
 SYSTEM: EME DATE: February 26, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 45.20 Feet
 DEPTH TO WATER: 35.11 Feet
 HEIGHT OF WATER COLUMN: 10.09 Feet
 WELL VOLUME: 1.6 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:10	19.4	8.28	6.81	Clear / No 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 Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #1
 SYSTEM: EME DATE: June 4, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 45.20 Feet
 DEPTH TO WATER: 35.04 Feet
 HEIGHT OF WATER COLUMN: 10.16 Feet
 WELL VOLUME: 1.6 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
14:50	21.4	8.65	6.79	Clear / No 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 Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #1
SYSTEM: EME DATE: August 20, 2007
SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 45.20 Feet
DEPTH TO WATER: 35.15 Feet
HEIGHT OF WATER COLUMN: 10.05 Feet
WELL VOLUME: 1.6 Gal.

2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
8:15	20.3	8.17	6.82	Clear / No 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.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #1
 SYSTEM: EME DATE: November 5, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 45.20 Feet
 DEPTH TO WATER: 35.24 Feet
 HEIGHT OF WATER COLUMN: 9.96 Feet
 WELL VOLUME: 1.6 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:35	19.2	9.00	6.79	Clear / No 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.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #2
 SYSTEM: EME DATE: February 26, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site 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	pH	PHYSICAL APPEARANCE AND REMARKS
11:50	20.7	11.39	6.47	Clear / Slight 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 Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #2
 SYSTEM: EME DATE: June 4, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

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. 2 In. Well Diameter
6 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
15:55	21.3	11.43	6.69	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 Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #2
 SYSTEM: EME DATE: August 20, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

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. 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.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #2
 SYSTEM: EME DATE: November 5, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 45.32 Feet
 DEPTH TO WATER: 33.92 Feet
 HEIGHT OF WATER COLUMN: 11.40 Feet
 WELL VOLUME: 1.8 Gal. 2 In. Well Diameter
6 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:40	19.1	11.24	6.92	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.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #3
 SYSTEM: EME DATE: February 26, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ 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
 WELL VOLUME: 1.4 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:15	19.4	9.63	6.78	Clear / No 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 Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #3
SYSTEM: EME DATE: June 4, 2007
SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
SAMPLING METHOD: ☒ Disposable Bailer ☐ 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: 34.55 Feet
HEIGHT OF WATER COLUMN: 8.83 Feet
WELL VOLUME: 1.4 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	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)

COMMENTS:

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

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #3
 SYSTEM: EME DATE: August 20, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ 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: 34.64 Feet
 HEIGHT OF WATER COLUMN: 8.74 Feet
 WELL VOLUME: 1.4 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 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.

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company WELL ID: Monitor Well #3
 SYSTEM: EME DATE: November 5, 2007
 SITE LOCATION: I - 1 SAMPLER: Rozanne Johnson

PURGING METHOD: ☒ Hand Bailed ☐ Pump, Type: _____
 SAMPLING METHOD: ☒ Disposable Bailer ☐ 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: 34.77 Feet
 HEIGHT OF WATER COLUMN: 8.61 Feet
 WELL VOLUME: 1.4 Gal. 2 In. Well Diameter
5 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:20	18.6	10.57	6.73	Clear / No 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.

