

AP - 46

**ANNUAL GW MONITORING
REPORT**

**DATE:
2006**

 **TRIDENT**
ENVIRONMENTAL

AP-46
Annual GW Mon. Report
2006

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March 7, 2006

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MAR 17 2007

Environmental Bureau
Oil Conservation Division

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: 2006 ANNUAL GROUNDWATER MONITORING REPORT
EME JCT. K-6 SITE (AP-46)
T20S, R37E, SECTION 6, UNIT LETTER K**

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2006 Annual Monitoring Well Report for the Jct. K-6 Site (AP-46) which located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

This annual report consists of the following sections:

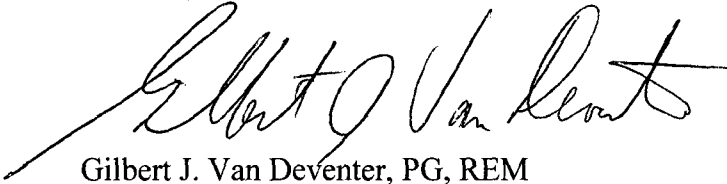
1. A map for each sampling event conducted during 2006 that depicts the groundwater gradient and analytical results of the constituents of concern
2. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site,
3. Graphs showing chemical concentration and depth to groundwater vs. time for chloride and total dissolved solids (TDS),
4. Laboratory analytical reports associated with the routine sampling for 2006.

The Stage 1 Final Investigation Report and Corrective Action Plan for this site are being sent along with this annual report.

ROC is the service provider (agent) for the EME Salt Water Disposal 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, do not hesitate to contact me at (432) 638-8740 or Kristin Farris Pope at (505) 393-9174.

Sincerely,

A handwritten signature in black ink, appearing to read "Gilbert J. Van Deventer". The signature is fluid and cursive, with a long horizontal stroke extending to the left.

Gilbert J. Van Deventer, PG, REM

cc: CDH, KFP, file

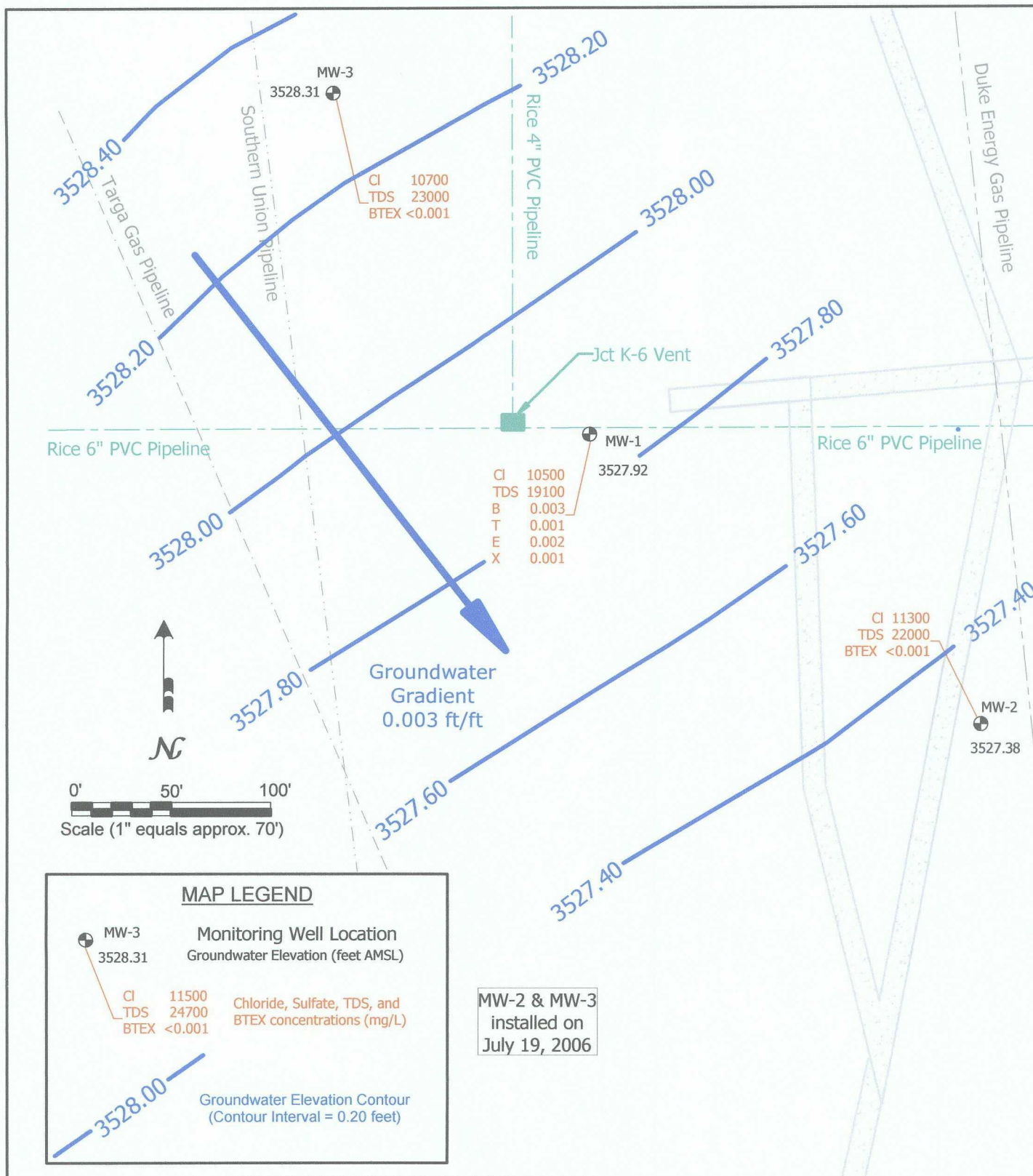
enclosures: table, graphs, maps, and laboratory analytical reports.

ATTACHMENT A

Site Maps

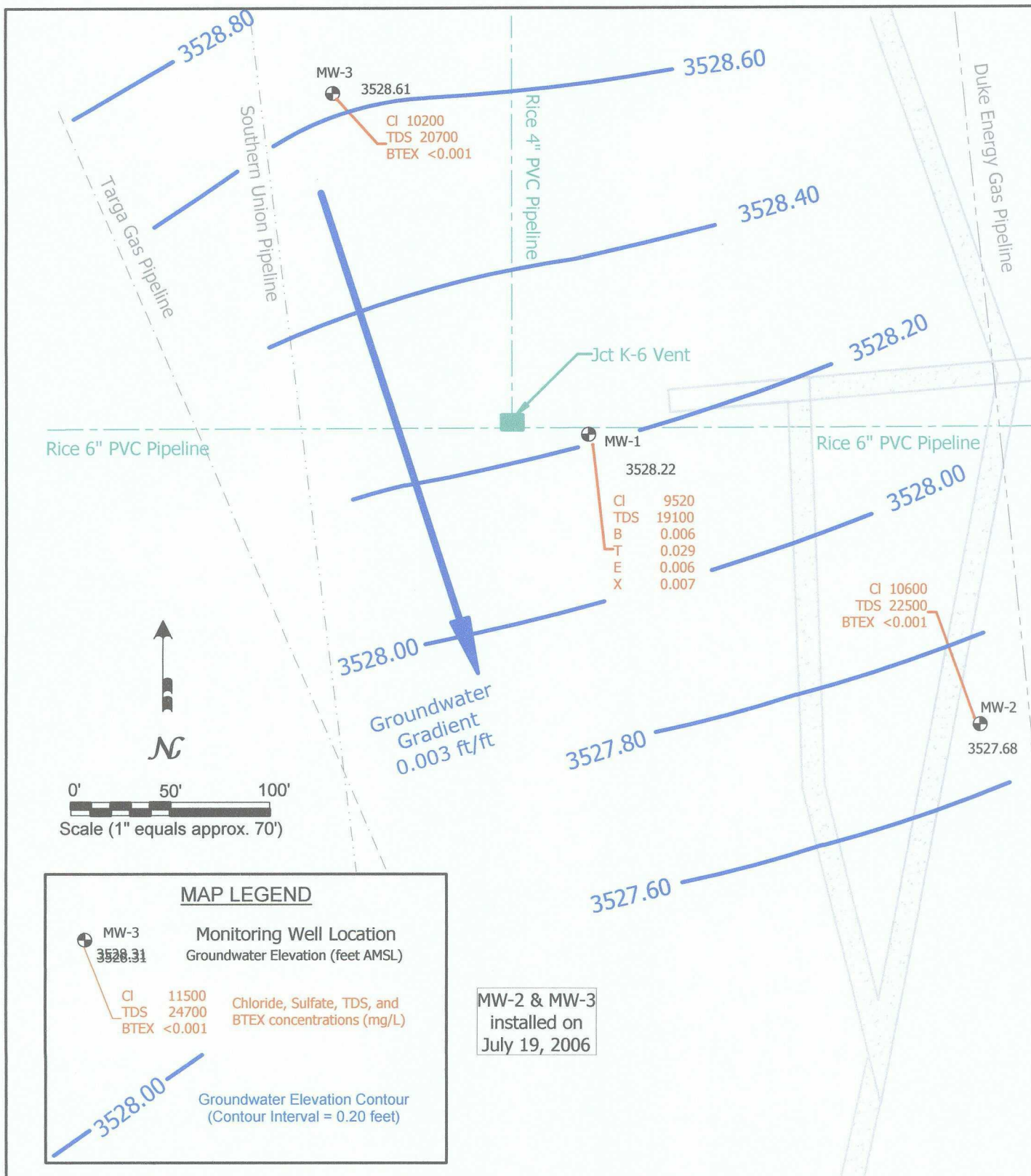
Table

Graphs



EME Jct. K-6 Vent Site
T20S - R37E - Section 6 - Unit K
RICE Operating Company

**GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP**
AUGUST 22, 2006



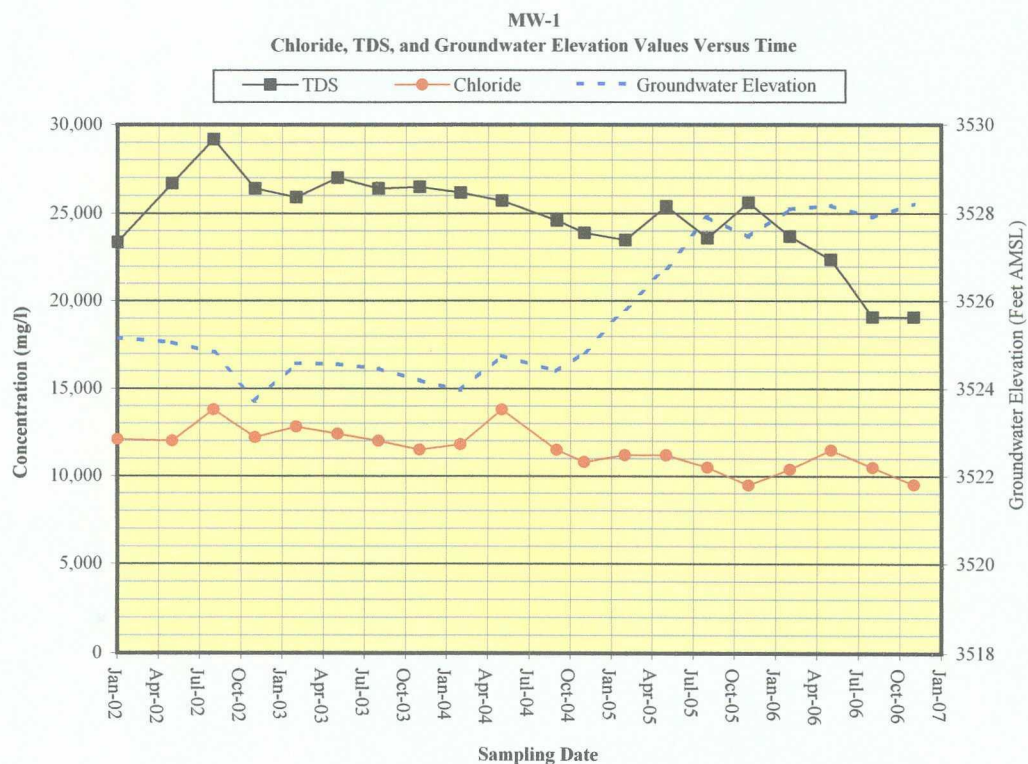
EME Jct. K-6 Vent Site
T20S - R37E - Section 6 - Unit K
RICE Operating Company

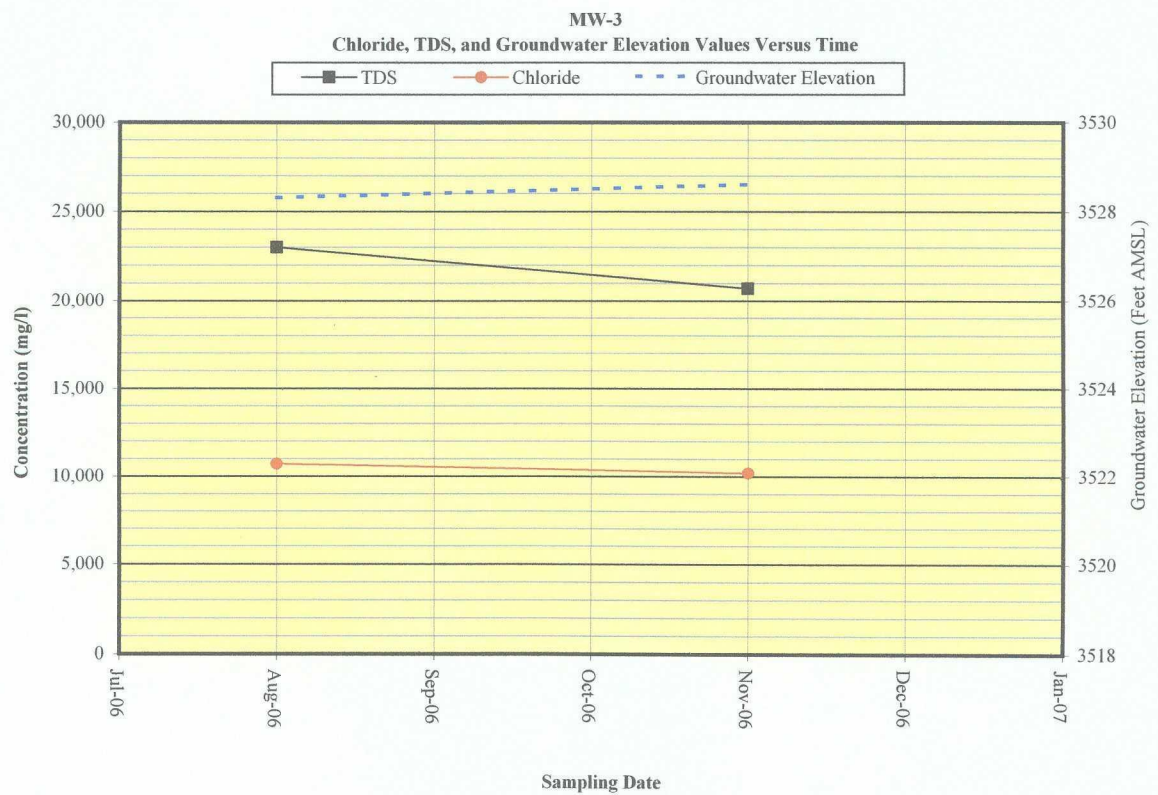
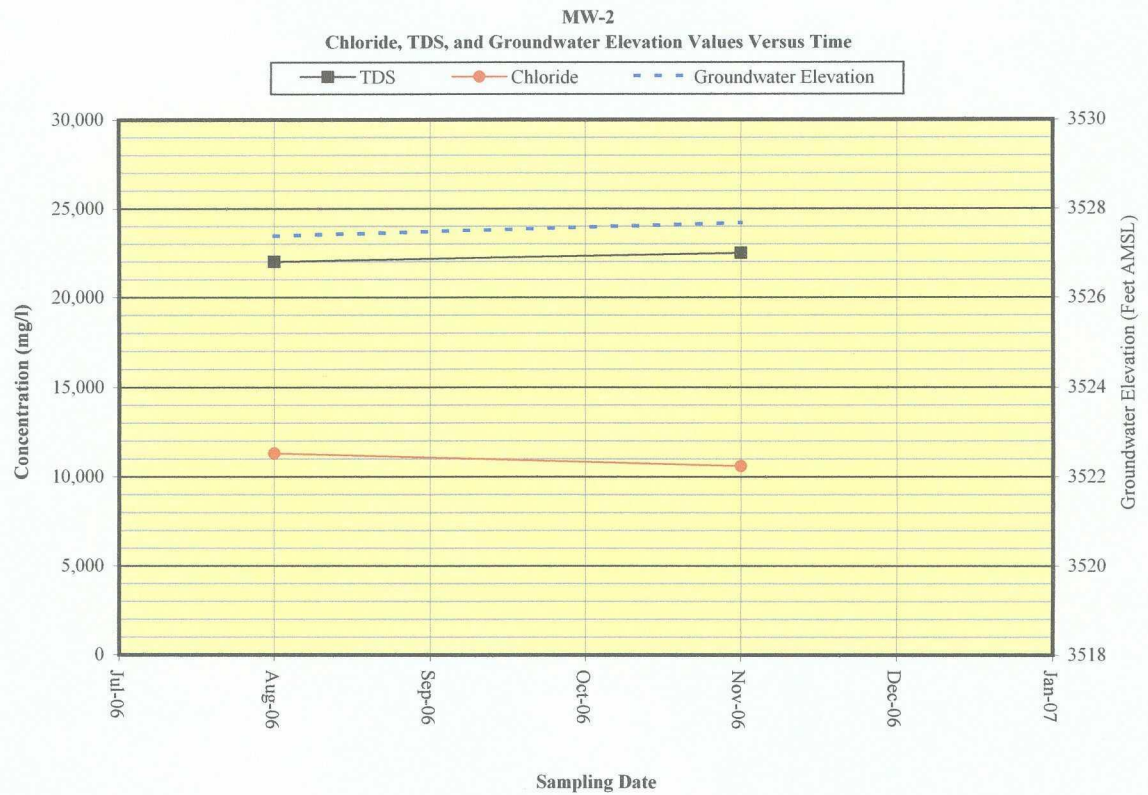
**GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
NOVEMBER 8, 2006**

Table 1
Summary of Groundwater Sampling Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	01/25/02	37.20	3525.16	12,096	23,370	<0.002	<0.002	0.002	0.006
	05/14/02	37.30	3525.06	12,000	26,700	0.001	0.003	<0.001	0.004
	08/28/02	37.52	3524.84	13,796	29,180	<0.002	<0.002	0.003	<0.006
	11/11/02	38.65	3523.71	12,200	26,400	0.001	0.001	0.001	0.003
	02/27/03	37.78	3524.58	12,800	25,900	0.001	0.001	0.001	0.003
	05/29/03	37.80	3524.56	12,400	27,000	0.002	0.001	0.001	0.001
	08/21/03	37.90	3524.46	12,000	26,400	0.003	<0.001	0.002	0.004
	11/19/03	38.17	3524.19	11,500	26,500	0.003	0.001	<0.001	0.001
	02/18/04	38.40	3523.96	11,796	26,172	0.003	<0.002	<0.002	<0.006
	05/27/04	37.60	3524.76	13,800	25,700	0.001	<0.001	<0.001	0.001
	09/07/04	37.96	3524.40	11,500	24,600	0.003	<0.001	0.001	0.003
	11/24/04	37.53	3524.83	10,800	23,900	0.005	0.004	0.005	0.015
	02/09/05	36.54	3525.82	11,200	23,500	0.003	<0.001	<0.001	0.002
	05/03/05	35.60	3526.76	11,200	25,400	0.003	0.001	0.002	0.001
	08/11/05	34.44	3527.92	10,500	23,600	0.004	<0.001	0.004	0.002
	11/28/05	34.89	3527.47	9,480	25,600	0.002	0.001	0.003	0.002
	02/21/06	34.26	3528.10	10,400	23,700	0.002	0.003	0.004	0.006
	05/17/06	34.18	3528.18	11,500	22,400	0.002	0.001	0.002	0.001
	08/22/06	34.44	3527.92	10,500	19,100	0.003	0.001	0.002	0.001
	11/08/06	34.14	3528.22	9,520	19,100	0.006	0.029	0.006	0.007
MW-2	08/22/06	31.92	3527.38	11,300	22,000	<0.001	<0.001	<0.001	<0.001
	11/08/06	31.62	3527.68	10,600	22,500	<0.001	<0.001	<0.001	<0.001
MW-3	08/22/06	34.85	3528.31	10,700	23,000	<0.001	<0.001	<0.001	<0.001
	11/08/06	34.55	3528.61	10,200	20,700	<0.001	<0.001	<0.001	<0.001
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Solids (TDS), chloride, sulfate, and BTEX concentrations listed in milligrams per liter (mg/L).
Analyses performed by Environmental Lab of Texas (Odessa TX) or Cardinal Laboratories (Hobbs NM).
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards,



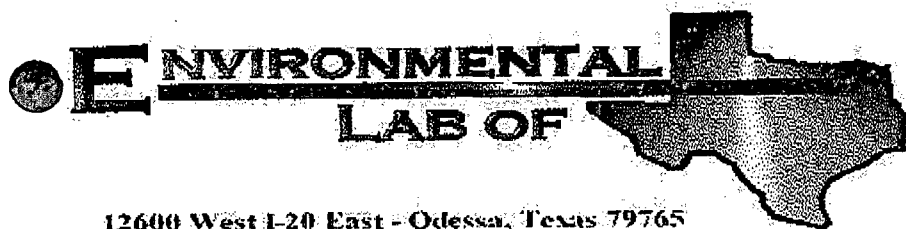


ATTACHMENT B

Laboratory Analytical Reports

And

Chain of Custody Documentation



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. K-6

Project Number: None Given

Location: Lea County

Lab Order Number: 6B23005

Report Date: 03/06/06

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6B23005-01	Water	02/21/06 10:50	02/23/06 09:45

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6823005-01) Water									
Benzene	0.00235	0.00100	mg/L	1	EB62306	02/23/06	02/27/06	EPA 8021B	
Toluene	0.00287	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00428	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00595	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		93.8 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.2 %		80-120	"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: EMB Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

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

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Monitor Well #1 (6823005-01) Water										
Total Alkalinity	520	2.00		mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	10400	250		"	500	EB62811	02/28/06	02/28/06	EPA 300.0	
Total Dissolved Solids	23700	5.00		"	1	EB62405	02/23/06	02/24/06	EPA 160.1	
Sulfate	3060	250		"	500	EB62811	02/28/06	02/28/06	EPA 300.0	

Environmental Lab of Texas

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Page 3 of 10

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6B23005-01) Water									
Calcium	872	1.00	mg/L	100	EC60207	03/02/06	03/02/06	EPA 6010B	
Magnesium	425	0.100	"	"	"	"	"	"	
Potassium	56.7	0.500	"	10	"	"	"	"	
Sodium	9700	20.0	"	2000	"	"	"	"	

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Page 4 of 10

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

Project: EMB Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

Organics by GC - Quality Control
Environmental Lab of Texas

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

Environmental Lab of Texas

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Page 5 of 10

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62306 - EPA 5030C (GC)										
Matrix Spike Dup (EB62306-MSD1)										
		Source: 6B23001-01		Prepared: 02/23/06 Analyzed: 02/27/06						
Benzene	0.0475	0.00100	mg/L	0.0500	ND	95.0	80-120	12.8	20	
Toluene	0.0524	0.00100	"	0.0500	ND	105	80-120	12.3	20	
Ethylbenzene	0.0577	0.00100	"	0.0500	ND	115	80-120	10.0	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	9.61	20	
Xylene (o)	0.0591	0.00100	"	0.0500	ND	118	80-120	9.78	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	40.3		ug/l	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	41.3		"	40.0		103	80-120			

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Page 6 of 10

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

Project: EME Jet K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62205 - General Preparation (WetChem)										
Blank (EB62205-BLK1)					Prepared & Analyzed: 02/23/06					
Total Alkalinity	ND	2.00	mg/L							
LCS (EB62205-BL1)					Prepared & Analyzed: 02/23/06					
Bicarbonate Alkalinity	207	2.00	mg/L	200		104	85-115			
Duplicate (EB62205-DUP1)					Source: 6B16004-01 Prepared & Analyzed: 02/23/06					
Total Alkalinity	273	2.00	mg/L		278			1.81	20	
Reference (EB62205-SRM1)					Prepared & Analyzed: 02/23/06					
Total Alkalinity	97.0		mg/L	100		97.0	90-110			
Batch EB62405 - General Preparation (WetChem)										
Blank (EB62405-BLK1)					Prepared: 02/23/06 Analyzed: 02/24/06					
Total Dissolved Solids	ND	1.00	mg/L							
Duplicate (EB62405-DUP1)					Source: 6B17004-01 Prepared: 02/23/06 Analyzed: 02/24/06					
Total Dissolved Solids	178	5.00	mg/L		178			0.00	5	
Batch EB62811 - General Preparation (WetChem)										
Blank (EB62811-BLK1)					Prepared & Analyzed: 02/28/06					
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EB62811-BL1)					Prepared & Analyzed: 02/28/06					
Chloride	8.76	0.500	mg/L	10.0		87.6	80-120			
Sulfate	8.40	0.500	"	10.0		84.0	80-120			

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Page 7 of 10

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

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

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62811 - General Preparation (WetChem)										
Calibration Check (EB62811-CCV1)					Prepared & Analyzed: 02/28/06					
Sulfate	9.25		mg/L	10.0		92.5	80-120			
Chloride	9.36		"	10.0		93.6	80-120			
Duplicate (EB62811-DUP1)					Source: 6B23601-01 Prepared & Analyzed: 02/28/06					
Chloride	7740	100	mg/L		7510			3.02	20	
Sulfate	936	100	"		889			7.26	20	

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Page 8 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM 88240

Project: EMB Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
03/06/06 13:52

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EC60207 - 6010B/No Digestion										
Blank (EC60207-BLK1)				Prepared & Analyzed: 03/02/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EC60207-CCV1)				Prepared & Analyzed: 03/02/06						
Calcium	2.15		mg/L	2.00		108	85-115			
Magnesium	2.20		"	2.00		110	85-115			
Potassium	1.72		"	2.00		86.0	85-115			
Sodium	1.87		"	2.00		93.5	85-115			
Duplicate (EC60207-DUP1)				Source: 6B17004-01 Prepared & Analyzed: 03/02/06						
Calcium	106	0.500	mg/L		102			3.85	20	
Magnesium	20.6	0.0100	"		22.2			7.48	20	
Potassium	15.4	0.500	"		15.8			2.56	20	
Sodium	91.5	0.500	"		88.3			3.56	20	

Environmental Lab of Texas

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

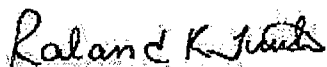
Fax: (505) 397-1471

Reported:
03/06/06 13:52

Notes and Definitions

DET: Analyte DETECTED
ND: Analyte NOT DETECTED at or above the reporting limit
NR: Not Reported
dry: Sample results reported on a dry weight basis
RPD: Relative Percent Difference
LCS: Laboratory Control Spike
MS: Matrix Spike
Dup: Duplicate

Report Approved By:



Date:

3/6/2006

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

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

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

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

Environmental Lab of Texas

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12600 West 1-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kprcaswo@valmet.com

Project Name: EME Jct. K-8

Company Name **RICE Operating Company**

Project #:

Company Address: 122 W. Taylor Street

Project Loc: **Lea County**

city/state/zip: Hobbs, New Mexico 88240

PO 88

Telephone No: (506) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valomet.com

[illegible]

Isuzu Motors Limited

PLEASE Email RESULTS TO: kpriceswd@valonnet.com & mfranks@priceswd.com

Sample Containers Intact?

2000-2001

Culody Sea: Camillere, Gotti

Tempe/Mesa Upper Recapt.

2004

Realizing It!

Date	Time
------	------

Date	Time
------	------

Religionsstudien

RECEIVED BY SKOT:

Date	Trail
------	-------

Date	Time
------	------

Laboratory Comments:

100

Environmental Lab of Texas

Variance / Corrective Action Report - Sample Log-in

Sent: File DP.Date/Time: 2/23/06 9:45Order #: 6B23005Initials: UK

Sample Receipt Checklist

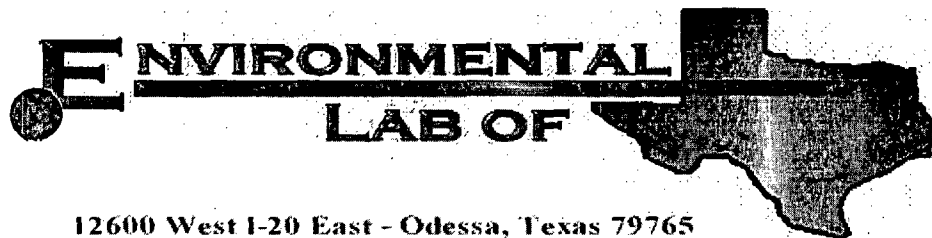
Temperature of container/cooler?	Yes	No	-2.5	C
Shipping container/cooler in good condition?	☒	No		
Custody Seals intact on shipping container/cooler?	☒	No	Not present	
Custody Seals intact on sample bottles?	☒	No	Not present	
Chain of custody present?	☒	No		
Sample Instructions complete on Chain of Custody?	☒	No		
Chain of Custody signed when relinquished and received?	☒	No		
Chain of custody agrees with sample label(s)	☒	No		
Container labels legible and intact?	☒	No		
Sample Matrix and properties same as on chain of custody?	☒	No		
Samples in proper container/bottle?	☒	No		
Samples properly preserved?	☒	No		
Sample bottles intact?	☒	No		
Preservations documented on Chain of Custody?	☒	No		
Containers documented on Chain of Custody?	☒	No		
Sufficient sample amount for indicated test?	☒	No		
All samples received within sufficient hold time?	☒	No		
QC samples have zero headspace?	☒	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. K-6

Project Number: None Given

Location: Lea County

Lab Order Number: 6E18016

Report Date: 05/25/06

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

Project: EME Jet. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/25/06 16:21

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6E18016-01	Water	05/17/06 10:20	05/18/06 12:00

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/25/06 16:21

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E18016-01) Water									
Benzene	0.00244	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	EPA 8021B	
Toluene	I [0.000731]	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00248	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000942]	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		106 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.8 %	80-120		"	"	"	"	

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/25/06 16:21

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 (6E18016-01) Water									
Total Alkalinity	521	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	11500	250	"	500	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	22400	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	3440	250	"	500	EE62205	05/22/06	05/22/06	EPA 300.0	

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/25/06 16:21

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6E18016-01) Water									
Calcium	1030	2.00	mg/L	200	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	392	0.200	"	"	"	"	"	"	
Potassium	34.1	2.50	"	50	"	"	"	"	
Sodium	6730	10.0	"	1000	"	"	"	"	

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/25/06 16:21

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 EE62101 - EPA 5030C (GC)

Blank (EE62101-BLK1)

Prepared & Analyzed: 05/21/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	42.9		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	32.2		"	40.0		80.5	80-120			

LCS (EE62101-BS1)

Prepared & Analyzed: 05/21/06

Benzene	0.0415	0.00100	mg/L	0.0500		83.0	80-120			
Toluene	0.0421	0.00100	"	0.0500		84.2	80-120			
Ethylbenzene	0.0463	0.00100	"	0.0500		92.6	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0504	0.00100	"	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.7		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			

Calibration Check (EE62101-CCV1)

Prepared & Analyzed: 05/21/06

Benzene	44.3		ug/l	50.0		88.6	80-120			
Toluene	44.3		"	50.0		88.6	80-120			
Ethylbenzene	55.3		"	50.0		111	80-120			
Xylene (p/m)	99.1		"	100		99.1	80-120			
Xylene (o)	49.1		"	50.0		98.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.6		"	40.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	34.8		"	40.0		87.0	80-120			

Matrix Spike (EE62101-MS1)

Source: 6E17005-01

Prepared: 05/21/06 Analyzed: 05/22/06

Benzene	0.0444	0.00100	mg/L	0.0500	ND	88.8	80-120			
Toluene	0.0454	0.00100	"	0.0500	ND	90.8	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.108	0.00100	"	0.100	ND	108	80-120			
Xylene (o)	0.0531	0.00100	"	0.0500	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.5		ug/l	40.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	80-120			

Environmental Lab of Texas

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

Page 5 of 10

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/25/06 16:21

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 EE62101 - EPA 5030C (GC)

Matrix Spike Dup (EE62101-MSD1)

Source: 6E17005-01

Prepared: 05/21/06 Analyzed: 05/22/06

Benzene	0.0439	0.00100	mg/L	0.0500	ND	87.8	80-120	1.13	20	
Toluene	0.0447	0.00100	"	0.0500	ND	89.4	80-120	1.55	20	
Ethylbenzene	0.0481	0.00100	"	0.0500	ND	96.2	80-120	1.44	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	0.930	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	1.90	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	46.4		ug/l	40.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	33.4		"	40.0		83.5	80-120			

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/25/06 16:21

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

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:
05/25/06 16:21

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
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Batch EE62205 - General Preparation (WetChem)

Matrix Spike (EE62205-MS1)		Source: 6E18012-01		Prepared & Analyzed: 05/22/06						
Chloride	565	10.0	mg/L	200	344	110	80-120			
Sulfate	465	10.0	"	200	304	80.5	80-120			
Matrix Spike (EE62205-MS2)		Source: 6E18015-01		Prepared & Analyzed: 05/22/06						
Chloride	654	10.0	mg/L	200	412	121	80-120			S-07
Sulfate	200	10.0	"	200	50.6	74.7	80-120			S-07

Batch EE62220 - General Preparation (WetChem)

Blank (EE62220-BLK1)		Prepared & Analyzed: 05/22/06								
Total Alkalinity	ND	2.00	mg/L							
LCS (EE62220-BS1)		Prepared & Analyzed: 05/22/06								
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115			
Duplicate (EE62220-DUP1)		Source: 6E18012-01		Prepared & Analyzed: 05/22/06						
Total Alkalinity	279	2.00	mg/L		280			0.358	20	
Reference (EE62220-SRM1)		Prepared & Analyzed: 05/22/06								
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/25/06 16:21

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 EE61926 - 6010B/No Digestion

Blank (EE61926-BLK1)

Prepared & Analyzed: 05/19/06

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EE61926-CCV1)

Prepared & Analyzed: 05/19/06

Calcium	2.30		mg/L	2.00		115	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.81		"	2.00		90.5	85-115			

Duplicate (EE61926-DUP1)

Source: 6E18012-01

Prepared & Analyzed: 05/19/06

Calcium	111	0.500	mg/L		111			0.00	20	
Magnesium	58.3	0.0100	"		56.5			3.14	20	
Potassium	12.2	0.500	"		12.9			5.58	20	
Sodium	266	0.500	"		271			1.86	20	

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471
Reported:
05/25/06 16:21

Notes and Definitions

S-07 Recovery outside Laboratory historical or method prescribed limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

5/25/2006

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

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

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: EME Jct. K-6

Project #:

Project Loc: Lea County

City/State/Zip: Hobbs, New Mexico 88240

20#

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozzanne@valornet.com

[illegible]

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

Client: Rice Operating Co
 Date/Time: 05-18-06 @ 1200
 Order #: 6E18016
 Initials: JMM

Sample Receipt Checklist

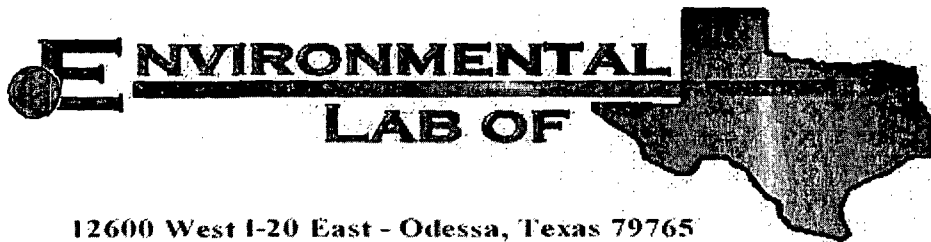
Temperature of container/cooler?	☒ Yes	☐ No	J.D	C
Shipping container/cooler in good condition?	☒ Yes	☐ No		
Custody Seals intact on shipping container/cooler?	☒ Yes	☐ No	Not present	
Custody Seals intact on sample bottles?	☒ Yes	☐ No	Not present	
Chain of custody present?	☒ Yes	☐ No		
Sample Instructions complete on Chain of Custody?	☒ Yes	☐ No		
Chain of Custody signed when relinquished and received?	☒ Yes	☐ No		
Chain of custody agrees with sample label(s)	☒ Yes	☐ No		
Container labels legible and intact?	☒ Yes	☐ No		
Sample Matrix and properties same as on chain of custody?	☒ Yes	☐ No		
Samples in proper container/bottle?	☒ Yes	☐ No		
Samples properly preserved?	☒ Yes	☐ No		
Sample bottles intact?	☒ Yes	☐ No		
Reservations documented on Chain of Custody?	☒ Yes	☐ No		
Containers documented on Chain of Custody?	☒ Yes	☐ No		
Sufficient sample amount for indicated test?	☒ Yes	☐ No		
1 samples received within sufficient hold time?	☒ Yes	☐ No		
DC samples have zero headspace?	☒ Yes	☐ No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. K-6

Project Number: None Given

Location: T20S-R37E-Sec6K, Lea Co, NM

Lab Order Number: 6H25011

Report Date: 09/05/06

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

Project: EME Jct. K-6
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	6H25011-01	Water	08/22/06 12:45	08-25-2006 15:22
Monitor Well #2	6H25011-02	Water	08/22/06 11:05	08-25-2006 15:22
Monitor Well #3	6H25011-03	Water	08/22/06 09:45	08-25-2006 15:22

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

Project: EME Jct. K-6
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 (6H25011-01) Water									
Benzene	0.00269	0.00100	mg/L	1	EH62520	08/25/06	08/28/06	EPA 8021B	
Toluene	[0.000990]	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00216	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00134	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		110 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	
Monitor Well #2 (6H25011-02) Water									
Benzene	ND	0.00100	mg/L	1	EH62520	08/25/06	08/28/06	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		101 %	80-120		"	"	"	"	
Monitor Well #3 (6H25011-03) Water									
Benzene	ND	0.00100	mg/L	1	EH62520	08/25/06	08/28/06	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		105 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	80-120		"	"	"	"	

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

Project: EME Jct. K-6
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 (6H25011-01) Water									
Total Alkalinity	560	4.00	mg/L	2	EH63106	08/31/06	08/31/06	EPA 310.1M	
Chloride	10500	250	"	500	EH63019	08/28/06	08/28/06	EPA 300.0	
Total Dissolved Solids	19100	10.0	"	1	EH62916	08/28/06	08/30/06	EPA 160.1	
Sulfate	3710	250	"	500	EH63019	08/28/06	08/28/06	EPA 300.0	
Monitor Well #2 (6H25011-02) Water									
Total Alkalinity	472	4.00	mg/L	2	EH63106	08/31/06	08/31/06	EPA 310.1M	
Chloride	11300	250	"	500	EH63019	08/28/06	08/28/06	EPA 300.0	
Total Dissolved Solids	22000	10.0	"	1	EH62916	08/28/06	08/30/06	EPA 160.1	
Sulfate	4560	250	"	500	EH63019	08/28/06	08/28/06	EPA 300.0	
Monitor Well #3 (6H25011-03) Water									
Total Alkalinity	460	4.00	mg/L	2	EH63106	08/31/06	08/31/06	EPA 310.1M	
Chloride	10700	250	"	500	EH63019	08/28/06	08/28/06	EPA 300.0	
Total Dissolved Solids	23000	10.0	"	1	EH62916	08/28/06	08/30/06	EPA 160.1	
Sulfate	4160	250	"	500	EH63019	08/28/06	08/28/06	EPA 300.0	

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

Project: EME Jct. K-6
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 (6H25011-01) Water									
Calcium	832	40.5	mg/L	500	EH62802	08/28/06	08/28/06	EPA 6010B	
Magnesium	278	1.80	"	50	"	"	"	"	
Potassium	37.0	3.00	"	"	"	"	"	"	
Sodium	7690	43.0	"	1000	"	"	"	"	
Monitor Well #2 (6H25011-02) Water									
Calcium	999	40.5	mg/L	500	EH62802	08/28/06	08/28/06	EPA 6010B	
Magnesium	312	1.80	"	50	"	"	"	"	
Potassium	36.6	3.00	"	"	"	"	"	"	
Sodium	9220	43.0	"	1000	"	"	"	"	
Monitor Well #3 (6H25011-03) Water									
Calcium	775	40.5	mg/L	500	EH62802	08/28/06	08/28/06	EPA 6010B	
Magnesium	270	1.80	"	50	"	"	"	"	
Potassium	49.2	3.00	"	"	"	"	"	"	
Sodium	7500	43.0	"	1000	"	"	"	"	

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

Project: EME Jct. K-6
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 EH62520 - EPA 5030C (GC)

Blank (EH62520-BLK1)

Prepared: 08/25/06 Analyzed: 08/28/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	42.0		ug/l	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	43.1		"	40.0		108	80-120			

LCS (EH62520-BS1)

Prepared: 08/25/06 Analyzed: 08/28/06

Benzene	0.0508	0.00100	mg/L	0.0500		102	80-120			
Toluene	0.0533	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0539	0.00100	"	0.0500		108	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100		120	80-120			
Xylene (o)	0.0559	0.00100	"	0.0500		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	43.0		ug/l	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	46.7		"	40.0		117	80-120			

Calibration Check (EH62520-CCV1)

Prepared & Analyzed: 08/25/06

Benzene	45.2		ug/l	50.0		90.4	80-120			
Toluene	48.4		"	50.0		96.8	80-120			
Ethylbenzene	52.4		"	50.0		105	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	54.1		"	50.0		108	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.9		"	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	38.5		"	40.0		96.2	80-120			

Matrix Spike (EH62520-MS1)

Source: 6H23008-01

Prepared & Analyzed: 08/25/06

Benzene	0.0517	0.00100	mg/L	0.0500	ND	103	80-120			
Toluene	0.0561	0.00100	"	0.0500	ND	112	80-120			
Ethylbenzene	0.0509	0.00100	"	0.0500	ND	102	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100	ND	118	80-120			
Xylene (o)	0.0546	0.00100	"	0.0500	ND	109	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.5		ug/l	40.0		119	80-120			
Surrogate: 4-Bromofluorobenzene	47.0		"	40.0		118	80-120			

Environmental Lab of Texas

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

Page 5 of 10

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

Project: EME Jct. K-6
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 EH62520 - EPA 5030C (GC)

Matrix Spike Dup (EH62520-MSD1)

Source: 6H23008-01

Prepared & Analyzed: 08/25/06

Benzene	0.0542	0.00100	mg/L	0.0500	ND	108	80-120	4.74	20	
Toluene	0.0563	0.00100	"	0.0500	ND	113	80-120	0.889	20	
Ethylbenzene	0.0539	0.00100	"	0.0500	ND	108	80-120	5.71	20	
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120	10.7	20	
Xylene (o)	0.0525	0.00100	"	0.0500	ND	105	80-120	3.74	20	
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/l	40.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	45.3		"	40.0		113	80-120			

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

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

Environmental Lab of Texas

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Page 7 of 10

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

Project: EME Jct. K-6
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
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Batch EH63019 - General Preparation (WetChem)

Matrix Spike (EH63019-MS1) Source: 6H24003-01 Prepared & Analyzed: 08/28/06

Sulfate	338	5.00	mg/L	100	227	111	75-125			
Chloride	204	5.00	"	100	102	102	80-120			

Matrix Spike (EH63019-MS2) Source: 6H25013-01 Prepared & Analyzed: 08/28/06

Sulfate	239	10.0	mg/L	200	40.9	99.0	75-125			
Chloride	645	10.0	"	200	418	114	80-120			

Batch EH63106 - General Preparation (WetChem)

Blank (EH63106-BLK1) Prepared & Analyzed: 08/31/06

Total Alkalinity	ND	2.00	mg/L							
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LCS (EH63106-BS1) Prepared & Analyzed: 08/31/06

Bicarbonate Alkalinity	190	2.00	mg/L	200		95.0	85-115			
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Duplicate (EH63106-DUP1) Source: 6H24003-01 Prepared & Analyzed: 08/31/06

Total Alkalinity	150	2.00	mg/L		156			3.92	20	
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Reference (EH63106-SRM1) Prepared & Analyzed: 08/31/06

Total Alkalinity	254		mg/L	250		102	90-110			
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Rice Operating Co.
22 W. Taylor
Hobbs NM, 88240

Project: EME Jct. K-6
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 EH62802 - 6010B/No Digestion

Blank (EH62802-BLK1)

Prepared & Analyzed: 08/28/06

Calcium	ND	0.0810	mg/L
Magnesium	ND	0.0360	"
Potassium	ND	0.0600	"
Sodium	ND	0.0430	"

Calibration Check (EH62802-CCV1)

Prepared & Analyzed: 08/28/06

Calcium	1.97		mg/L	2.00	98.5	85-115
Magnesium	2.13		"	2.00	106	85-115
Potassium	1.74		"	2.00	87.0	85-115
Sodium	1.84		"	2.00	92.0	85-115

Duplicate (EH62802-DUP1)

Source: 6H25010-01

Prepared & Analyzed: 08/28/06

Calcium	267	4.05	mg/L	251	6.18	20
Magnesium	81.9	1.80	"	77.6	5.39	20
Potassium	7.20	0.600	"	7.76	7.49	20
Sodium	396	2.15	"	409	3.23	20

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

9/5/2006

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

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

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

Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com

Project Name:

EME Junction K-6

Company Name RICE Operating Company

Project Number:

Company Address: 122 W. Taylor Street

Project Loc:

T20S-R37E-Sec6K, Lea County NM

City/State/Zip: Hobbs, New Mexico 88240

PO Number:

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	PRESERVATIVE										ANALYZE FOR:											
					Ice	HNO ₃	HCl (2) 40 ml glass vials	NaOH	H ₂ SO ₄	None (1) 1 Liter HDPE	Other (Specify)	Water	Sludge	Soil	Other (Specify):	TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTX 80218/5030	RCI	N.O.R.M.	Total Dissolved Solids
615031	Monitor Well #1	8/22/2006	12:45	3	X	2					1			X						X	X			X	X	
	Monitor Well #2	8/22/2006	11:05	3	X	2				1			X						X	X				X	X	
	Monitor Well #3	8/22/2006	9:45	3	X	2				1			X						X	X				X	X	

Special Instructions:

PLEASE Email RESULTS TO: kpope@riceswd.com; mfranks@riceswd.com

rozanne@valornet.com

Sample Containers Intact? N
Labels on container? N
Custody Seals, Containers / Cooler
Temperature Upon Receipt: 1.0°C
Laboratory Comments: not frozen

Relinquished by: Rozanne Johnson	Date: 8-25-06	Time: 13:10	Received by: James Johnson	Date: 8-25-06	Time: 15:22
Relinquished by: James Johnson	Date: 8-25-06	Time: 15:22	Received by: Rozanne Johnson	Date: 8-25-06	Time: 15:22

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

Cont: Rice Operating
Date/ Time: 08-25-06 @ 1522
Lab ID #: 6H25011
Initials: JMM

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	1.0 °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 EL0T?	<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	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

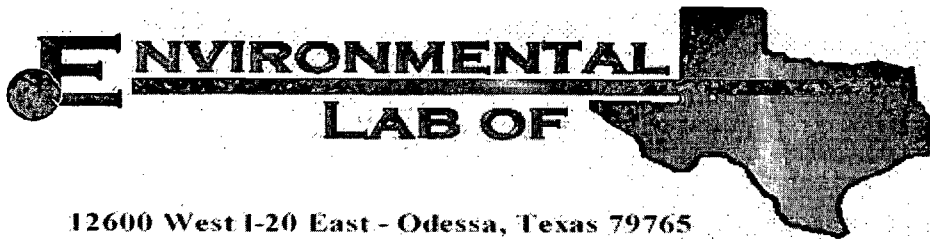
Variance Documentation

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



Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. K-6

Project Number: None Given

Location: T20S R37E Sec 6 K- Lea County, NM

Lab Order Number: 6K08008

Report Date: 11/17/06

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

Project: EME Jct. K-6
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	6K08008-01	Water	11/08/06 11:15	11-08-2006 14:50
Monitor Well #2	6K08008-02	Water	11/08/06 09:20	11-08-2006 14:50
Monitor Well #3	6K08008-03	Water	11/08/06 10:00	11-08-2006 14:50

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

Project: EME Jct. K-6
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 (6K08008-01) Water									
Benzene	0.00638	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	0.00291	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00557	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00604	0.00100	"	"	"	"	"	"	
Xylene (o)	I [0.000476]	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.8 %	80-120		"	"	"	"	
Monitor Well #2 (6K08008-02) Water									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	EPA 8021B	
Toluene	I [0.000686]	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	
Monitor Well #3 (6K08008-03) Water									
Benzene	ND	0.00100	mg/L	1	EK60808	11/10/06	11/10/06	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		95.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.0 %	80-120		"	"	"	"	

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

Project: EME Jct. K-6
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 (6K08008-01) Water									
Total Alkalinity	588	4.00	mg/L	2	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	9520	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	19100	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	3170	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Monitor Well #2 (6K08008-02) Water									
Total Alkalinity	512	4.00	mg/L	2	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	10600	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	22500	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	4090	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Monitor Well #3 (6K08008-03) Water									
Total Alkalinity	456	4.00	mg/L	2	EK61307	11/14/06	11/14/06	EPA 310.1M	
Chloride	10200	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	
Total Dissolved Solids	20700	10.0	"	1	EK61306	11/09/06	11/10/06	EPA 160.1	
Sulfate	3760	250	"	500	EK60911	11/09/06	11/09/06	EPA 300.0	

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

Project: EME Jct. K-6
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 (6K08008-01) Water									
Calcium	881	40.5	mg/L	500	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	326	1.80	"	50	"	"	"	"	
Potassium	54.0	0.600	"	10	"	"	"	"	
Sodium	6750	43.0	"	1000	"	"	"	"	
Monitor Well #2 (6K08008-02) Water									
Calcium	828	20.2	mg/L	250	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	424	1.80	"	50	"	"	"	"	
Potassium	60.4	0.600	"	10	"	"	"	"	
Sodium	8420	108	"	2500	"	"	"	"	
Monitor Well #3 (6K08008-03) Water									
Calcium	858	40.5	mg/L	500	EK60919	11/09/06	11/09/06	EPA 6010B	
Magnesium	289	1.80	"	50	"	"	"	"	
Potassium	53.2	3.00	"	"	"	"	"	"	
Sodium	9530	108	"	2500	"	"	"	"	

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

Project: EME Jct. K-6
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 EK60808 - EPA 5030C (GC)

Blank (EK60808-BLK1)

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	40.3		ug/l	40.0		101	80-120			
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120			

LCS (EK60808-BS1)

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0525	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0458	0.00100	"	0.0500		91.6	80-120			
Ethylbenzene	0.0457	0.00100	"	0.0500		91.4	80-120			
Xylene (p/m)	0.0919	0.00100	"	0.100		91.9	80-120			
Xylene (o)	0.0448	0.00100	"	0.0500		89.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.2		ug/l	40.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	41.5		"	40.0		104	80-120			

Calibration Check (EK60808-CCV1)

Prepared: 11/08/06 Analyzed: 11/11/06

Benzene	50.9		ug/l	50.0		102	80-120			
Toluene	45.0		"	50.0		90.0	80-120			
Ethylbenzene	46.8		"	50.0		93.6	80-120			
Xylene (p/m)	90.9		"	100		90.9	80-120			
Xylene (o)	45.4		"	50.0		90.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		"	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	39.0		"	40.0		97.5	80-120			

Matrix Spike (EK60808-MS1)

Source: 6K06005-01

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0503	0.00100	mg/L	0.0500	ND	101	80-120			
Toluene	0.0458	0.00100	"	0.0500	ND	91.6	80-120			
Ethylbenzene	0.0473	0.00100	"	0.0500	ND	94.6	80-120			
Xylene (p/m)	0.0939	0.00100	"	0.100	ND	93.9	80-120			
Xylene (o)	0.0465	0.00100	"	0.0500	ND	93.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.9		ug/l	40.0		97.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.4		"	40.0		108	80-120			

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

Project: EME Jct. K-6
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 EK60808 - EPA 5030C (GC)

Matrix Spike Dup (EK60808-MSD1)

Source: 6K06005-01

Prepared: 11/08/06 Analyzed: 11/10/06

Benzene	0.0518	0.00100	mg/L	0.0500	ND	104	80-120	2.93	20	
Toluene	0.0465	0.00100	"	0.0500	ND	93.0	80-120	1.52	20	
Ethylbenzene	0.0478	0.00100	"	0.0500	ND	95.6	80-120	1.05	20	
Xylene (p/m)	0.0983	0.00100	"	0.100	ND	98.3	80-120	4.58	20	
Xylene (o)	0.0494	0.00100	"	0.0500	ND	98.8	80-120	6.05	20	
Surrogate: a,a,a-Trifluorotoluene	41.8		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	43.7		"	40.0		109	80-120			

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

Project: EME Jct. K-6
Project Number: None Given
Project Manager: Kristin Farris-Pope

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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 EK60911 - General Preparation (WetChem)										
Blank (EK60911-BLK1)										
				Prepared & Analyzed: 11/09/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EK60911-BS1)										
				Prepared & Analyzed: 11/09/06						
Chloride	10.9	0.500	mg/L	10.0		109	80-120			
Sulfate	10.1	0.500	"	10.0		101	80-120			
Calibration Check (EK60911-CCV1)										
				Prepared & Analyzed: 11/09/06						
Chloride	10.8		mg/L	10.0		108	80-120			
Sulfate	10.1		"	10.0		101	80-120			
Duplicate (EK60911-DUP1)										
				Source: 6K08007-01		Prepared & Analyzed: 11/09/06				
Sulfate	86.2	5.00	mg/L		86.1			0.116	20	
Chloride	283	5.00	"		285			0.704	20	
Duplicate (EK60911-DUP2)										
				Source: 6K09002-01		Prepared & Analyzed: 11/09/06				
Sulfate	1650	20.0	mg/L		1590			3.70	20	
Chloride	248	20.0	"		239			3.70	20	
Matrix Spike (EK60911-MS1)										
				Source: 6K08007-01		Prepared & Analyzed: 11/09/06				
Sulfate	184	5.00	mg/L	100	86.1	97.9	80-120			
Chloride	404	5.00	"	100	285	119	80-120			
Matrix Spike (EK60911-MS2)										
				Source: 6K09002-01		Prepared & Analyzed: 11/09/06				
Chloride	655	20.0	mg/L	400	239	104	80-120			
Sulfate	1960	20.0	"	400	1590	92.5	80-120			

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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	RPD Limit	Notes
Batch EK61306 - Filtration Preparation									
Blank (EK61306-BLK1)				Prepared: 11/09/06 Analyzed: 11/10/06					
Total Dissolved Solids	ND	10.0	mg/L						
Duplicate (EK61306-DUP1)				Source: 6K07002-01		Prepared: 11/09/06 Analyzed: 11/10/06			
Total Dissolved Solids	10400	10.0	mg/L		9240		11.8	5	S-08
Duplicate (EK61306-DUP2)				Source: 6K08010-02		Prepared: 11/09/06 Analyzed: 11/10/06			
Total Dissolved Solids	24600	10.0	mg/L		23600		4.15	5	
Batch EK61307 - General Preparation (WetChem)									
Blank (EK61307-BLK1)				Prepared & Analyzed: 11/14/06					
Total Alkalinity	ND	2.00	mg/L						
LCS (EK61307-BS1)				Prepared & Analyzed: 11/14/06					
Bicarbonate Alkalinity	192	2.00	mg/L	200		96.0	85-115		
Duplicate (EK61307-DUP1)				Source: 6K08007-01		Prepared & Analyzed: 11/14/06			
Total Alkalinity	150	2.00	mg/L		152		1.32	20	
Reference (EK61307-SRM1)				Prepared & Analyzed: 11/14/06					
Total Alkalinity	248		mg/L	250		99.2	90-110		

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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 EK60919 - 6010B/No Digestion

Blank (EK60919-BLK1)

Prepared & Analyzed: 11/09/06

Calcium	ND	0.0810	mg/L
Magnesium	ND	0.0360	"
Potassium	ND	0.0600	"
Sodium	ND	0.0430	"

Calibration Check (EK60919-CCV1)

Prepared & Analyzed: 11/09/06

Calcium	2.28		mg/L	2.00	114	85-115
Magnesium	2.14		"	2.00	107	85-115
Potassium	1.87		"	2.00	93.5	85-115
Sodium	2.04		"	2.00	102	85-115

Duplicate (EK60919-DUP1)

Source: 6K08007-01

Prepared & Analyzed: 11/09/06

Calcium	164	4.05	mg/L	166		1.21	20
Magnesium	23.5	0.360	"	23.5		0.00	20
Potassium	3.34	0.600	"	3.30		1.20	20
Sodium	77.5	0.430	"	77.6		0.129	20

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Project: EME Jct. K-6
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Notes and Definitions

S-08 Value outside Laboratory historical or method prescribed QC limits.
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

11/17/2006

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

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

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

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Pine Op.
 Date/ Time: 11/8/06 2:50
 Lab ID #: 6K08008
 Initials: CK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	0.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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