AP - 67

ANNUAL MONITORING REPORT

YEAR(S):

2006

CERTIFIED MAIL
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TRIDENT ENVIRONMENTAL

February 7, 2007

RECEIVED
FEB - 9 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 D-1 JUNCTION BOX SITE
T20S, R36E, SECTION 1, UNIT LETTER D
Stage 1 Abatement Plan No.: AP-67

Mr. Hansen:

Trident Environmental takes this opportunity to submit the 2006 Annual Monitoring Well Report for the EME D-1 junction box site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

Identification of soil and ground water impacts at this site occurred during line replacement being performed as part of the approved Junction Box Upgrade Program in October 2004. Groundwater monitoring activities have been conducted quarterly since December 21, 2004. The Stage 1 Abatement Plan (AP-67) for this site was verbally approved by the NMOCD on March 30, 2006. One downgradient (MW-2) and upgradient (MW-3) monitoring well were installed at the site in April, however, based on subsequent findings from these wells (analytical results and groundwater flow), we installed an additional downgradient well (MW-4) on December 14, 2006. A Stage 1 Final Investigation Report will be forthcoming to incorporate the findings described above.

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,

Gilbert J. Van Deventer, PG, REM

cc: CDH, KFP, file

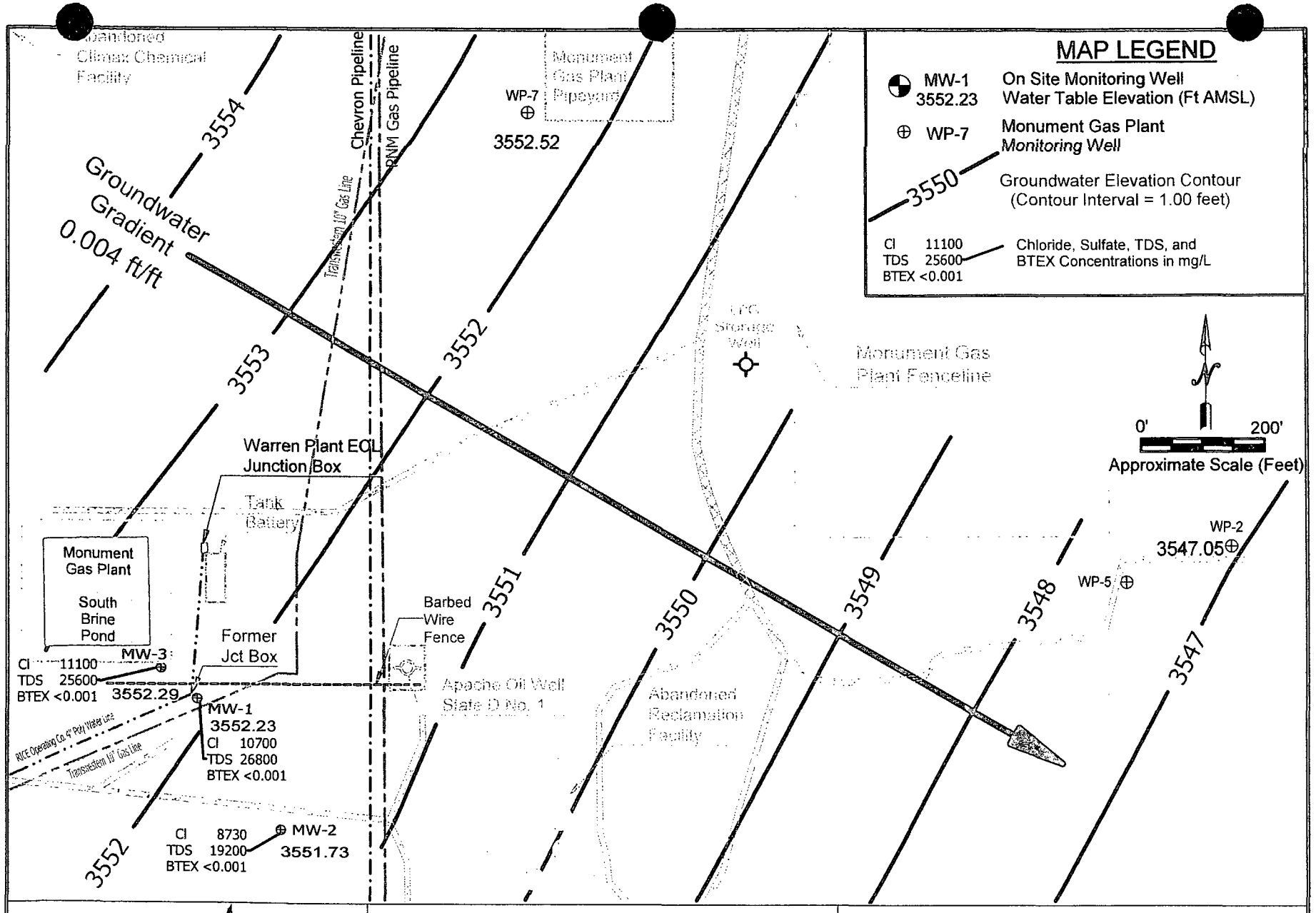
enclosures: maps, table, graphs, and laboratory analytical reports.

ATTACHMENT A

Site Maps

Table

Graphs



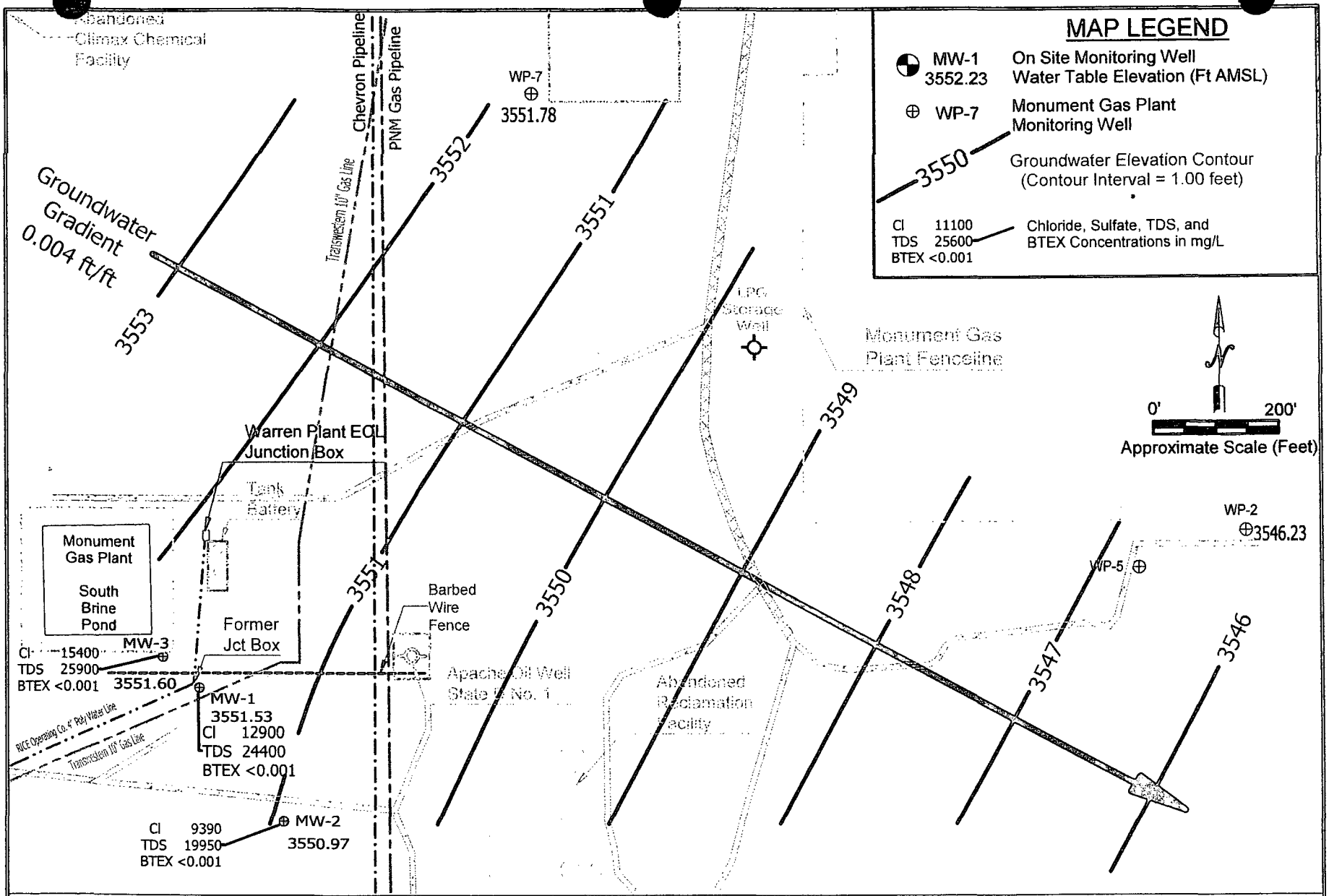
TRIDENT ENVIRONMENTAL

EME D-1 JUNCTION BOX SITE

T20S - R36E - Section 1- Unit D

RICE *Operating Company*

GROUNDWATER ELEVATION AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP APRIL 19, 2006



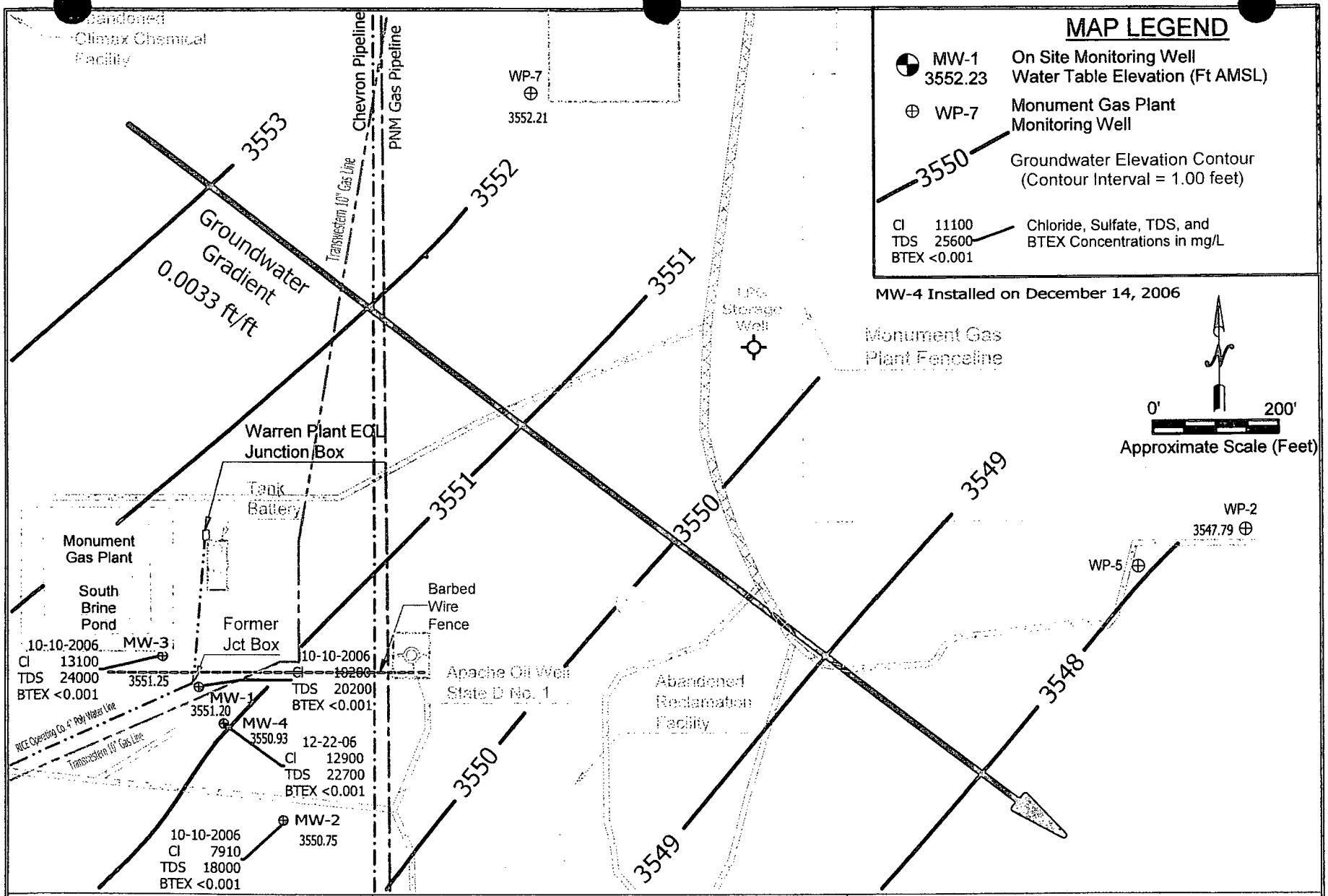
TRIDENT ENVIRONMENTAL

EME D-1 JUNCTION BOX SITE

T20S - R36E - Section 1- Unit D

RICE Operating Company

GROUNDWATER ELEVATION AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP JULY 18, 2006



TRIDENT ENVIRONMENTAL

EME D-1 JUNCTION BOX SITE

T20S - R36E - Section 1- Unit D

RICE *Operating Company*

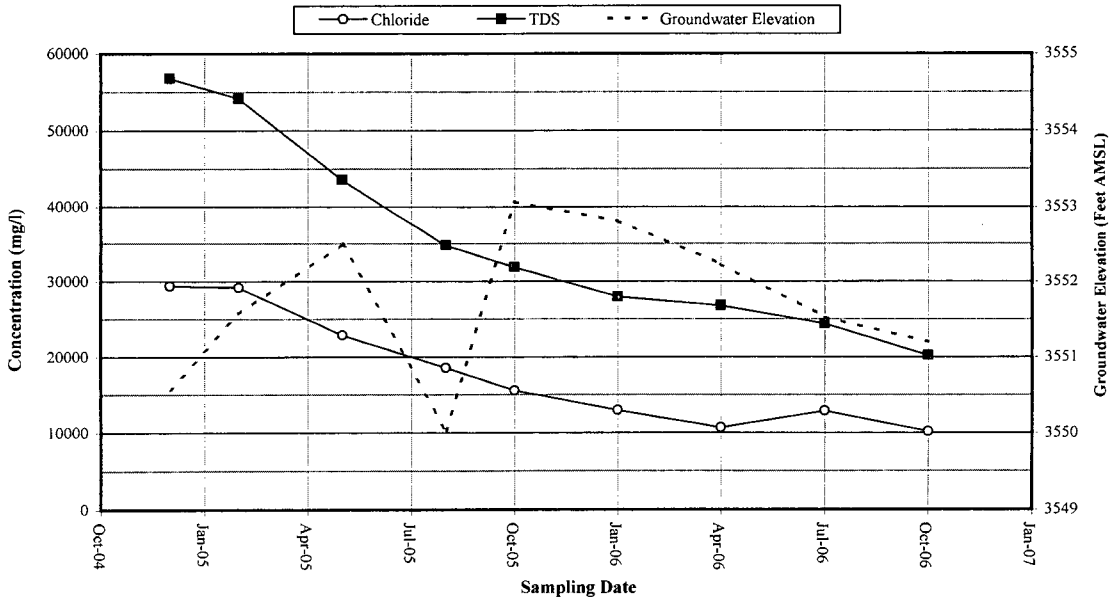
GROUNDWATER ELEVATION AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP OCTOBER 10, 2006 & DECEMBER 22, 2006

Table 1
Summary of Groundwater Sampling Results

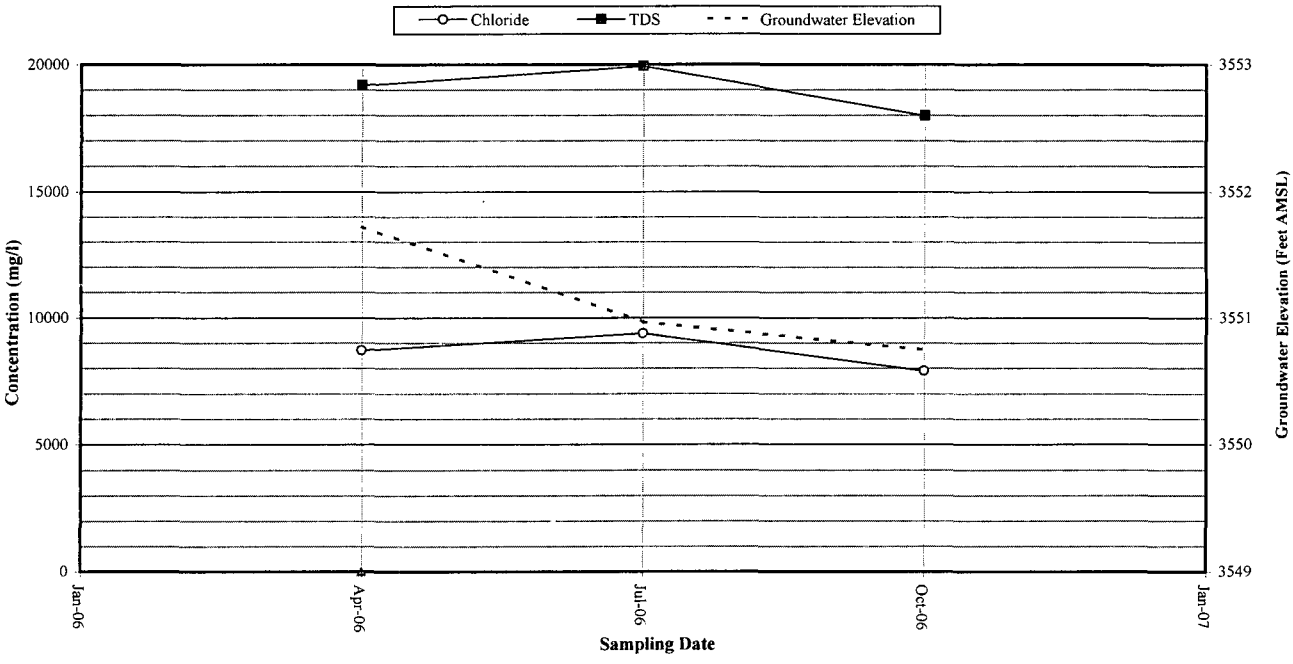
Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	12/21/04	37.20	3550.57	**29,400**	**56,800**	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.20	3551.57	**29,200**	**54,200**	< 0.001	< 0.001	< 0.001	< 0.001
	05/03/05	35.27	3552.50	**22,900**	**43,600**	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.74	3550.03	**18,600**	**34,800**	< 0.001	< 0.001	< 0.001	< 0.001
	10/19/05	34.70	3553.07	**15,600**	**31,900**	< 0.001	< 0.001	< 0.001	< 0.001
	01/18/06	34.95	3552.82	**13,000**	**28,000**	< 0.001	< 0.001	< 0.001	< 0.001
	04/19/06	35.54	3552.23	**10,700**	**26,800**	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	36.24	3551.53	**12,900**	**24,400**	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	36.57	3551.20	**10,200**	**20,200**	< 0.001	< 0.001	< 0.001	< 0.001
MW-2	04/19/06	33.89	3551.73	**8,730**	**19,200**	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	34.65	3550.97	**9,390**	**19,950**	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	34.87	3550.75	**7,910**	**18,000**	< 0.001	< 0.001	< 0.001	< 0.001
MW-3	04/19/06	37.55	3552.29	**11,100**	**25,600**	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	38.24	3551.60	**15,400**	**25,900**	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	38.59	3551.25	**13,100**	**24,000**	< 0.001	< 0.001	< 0.001	< 0.001
MW-4	12/22/06	35.97	3550.93	**12,900**	**22,700**	< 0.001	< 0.001	< 0.001	< 0.001
			WQCC Standards	250	1000	0.01	0.75	0.75	0.62

Total Dissolved Soilds (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L)
Analyses performed by Cardinal Labs, Hobbs, NM (1995-1998) and Environmental Lab of Texas, Odessa, TX (1999-2003).
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

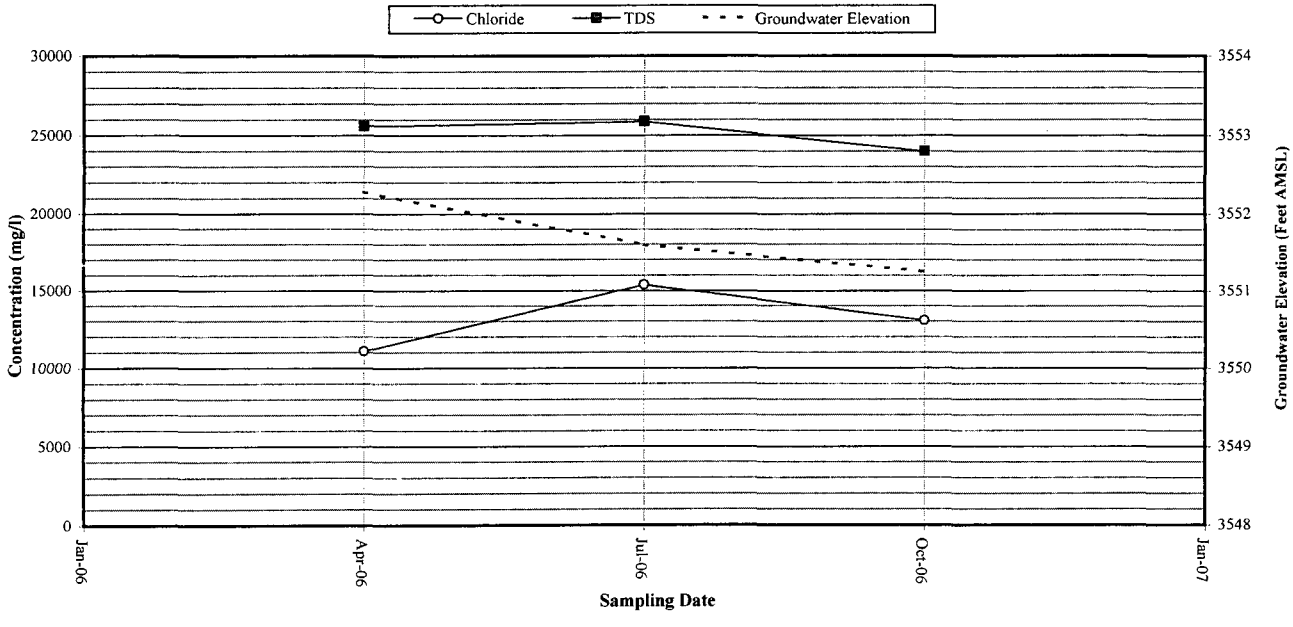
MW-1
Chloride, TDS, and Groundwater Elevation Values Versus Time



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



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



ATTACHMENT B

Laboratory Analytical Reports

And

Chain of Custody Documentation

ENVIRONMENTAL LAB OF

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. D-1 Leak

Project Number: None Given

Location: Lea County

Lab Order Number: 6A19007

Report Date: 02/02/06

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/02/06 08:29

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6A19007-01	Water	01/18/06 09:10	01/19/06 11:10

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

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/02/06 08:29

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A19007-01) Water									
Benzene	ND	0.00100	mg/L	1	EA62304	01/23/06	01/24/06	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		*87.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/02/06 08:29

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 (6A19007-01) Water									
Total Alkalinity	**406**	2.00	mg/L	1	EA62406	01/26/06	01/26/06	EPA 310.1M	
Chloride	**13000**	250	"	500	EA62018	01/20/06	01/20/06	EPA 300.0	
Total Dissolved Solids	**28000**	5.00	"	1	EA62307	01/19/06	01/20/06	EPA 160.1	
Sulfate	**3580**	250	"	500	EA62018	01/20/06	01/20/06	EPA 300.0	

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Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/02/06 08:29

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6A19007-01) Water									
Calcium	**965**	5.00	mg/L	500	EA62615	01/26/06	01/26/06	EPA 6010B	
Magnesium	**283**	0.0500	"	50	"	"	"	"	
Potassium	**251**	2.50	"	"	"	"	"	"	
Sodium	**10300**	50.0	"	5000	"	"	"	"	

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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 EA62304 - EPA 5030C (GC)										
Blank (EA62304-BLK1)				Prepared & Analyzed: 01/23/06						
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	*37.5*		*ug/l*	*40.0*		*93.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.6*		*"*	*40.0*		*81.5*	*80-120*			
LCS (EA62304-BS1)				Prepared & Analyzed: 01/23/06						
Benzene	0.0461	0.00100	mg/L	0.0500		92.2	80-120			
Toluene	0.0462	0.00100	"	0.0500		92.4	80-120			
Ethylbenzene	0.0427	0.00100	"	0.0500		85.4	80-120			
Xylene (p/m)	0.0846	0.00100	"	0.100		84.6	80-120			
Xylene (o)	0.0451	0.00100	"	0.0500		90.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.5*		*ug/l*	*40.0*		*96.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.9*		*"*	*40.0*		*94.8*	*80-120*			
Calibration Check (EA62304-CCV1)				Prepared & Analyzed: 01/23/06						
Benzene	44.4		ug/l	50.0		88.8	80-120			
Toluene	45.2		"	50.0		90.4	80-120			
Ethylbenzene	42.5		"	50.0		85.0	80-120			
Xylene (p/m)	83.1		"	100		83.1	80-120			
Xylene (o)	44.5		"	50.0		89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.8*		*"*	*40.0*		*89.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		*"*	*40.0*		*88.8*	*80-120*			
Matrix Spike (EA62304-MS1)	**Source: 6A20019-01**			Prepared & Analyzed: 01/23/06						
Benzene	0.0455	0.00100	mg/L	0.0500	ND	91.0	80-120			
Toluene	0.0452	0.00100	"	0.0500	ND	90.4	80-120			
Ethylbenzene	0.0417	0.00100	"	0.0500	ND	83.4	80-120			
Xylene (p/m)	0.0829	0.00100	"	0.100	ND	82.9	80-120			
Xylene (o)	0.0445	0.00100	"	0.0500	ND	89.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.2*		*ug/l*	*40.0*		*95.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.2*		*"*	*40.0*		*90.5*	*80-120*			

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 EA62304 - EPA 5030C (GC)										
Matrix Spike Dup (EA62304-MSD1)	**Source: 6A20019-01**			Prepared & Analyzed: 01/23/06						
Benzene	0.0427	0.00100	mg/L	0.0500	ND	85.4	80-120	6.35	20	
Toluene	0.0428	0.00100	"	0.0500	ND	85.6	80-120	5.45	20	
Ethylbenzene	0.0404	0.00100	"	0.0500	ND	80.8	80-120	3.17	20	
Xylene (p/m)	0.0802	0.00100	"	0.100	ND	80.2	80-120	3.31	20	
Xylene (o)	0.0427	0.00100	"	0.0500	ND	85.4	80-120	4.13	20	
Surrogate: a,a,a-Trifluorotoluene	*37.2*		*ug/l*	*40.0*		*93.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.4*		*"*	*40.0*		*88.5*	*80-120*			

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 EA62018 - General Preparation (WetChem)										
Blank (EA62018-BLK1)				Prepared & Analyzed: 01/20/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EA62018-BS1)				Prepared & Analyzed: 01/20/06						
Chloride	8.74		mg/L	10.0		87.4	80-120			
Sulfate	9.62		"	10.0		96.2	80-120			
Calibration Check (EA62018-CCV1)				Prepared & Analyzed: 01/20/06						
Sulfate	9.77		mg/L	10.0		97.7	80-120			
Chloride	8.88		"	10.0		88.8	80-120			
Duplicate (EA62018-DUP1)	**Source: 6A19008-01**			Prepared & Analyzed: 01/20/06						
Sulfate	110	5.00	mg/L		111			0.905	20	
Chloride	61.5	5.00	"		62.2			1.13	20	
Batch EA62307 - General Preparation (WetChem)										
Blank (EA62307-BLK1)				Prepared: 01/19/06 Analyzed: 01/20/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EA62307-DUP1)	**Source: 6A19005-01**			Prepared: 01/19/06 Analyzed: 01/20/06						
Total Dissolved Solids	2400	5.00	mg/L		2480			3.28	5	
Batch EA62406 - General Preparation (WetChem)										
Blank (EA62406-BLK1)				Prepared & Analyzed: 01/26/06						
Total Alkalinity	ND	2.00	mg/L							

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 EA62406 - General Preparation (WetChem)										
LCS (EA62406-BS1)				Prepared & Analyzed: 01/26/06						
Bicarbonate Alkalinity	220		mg/L	200		110	85-115			
Duplicate (EA62406-DUP1)	**Source: 6A19005-01**			Prepared & Analyzed: 01/26/06						
Total Alkalinity	258	2.00	mg/L		256			0.778	20	
Reference (EA62406-SRM1)				Prepared & Analyzed: 01/26/06						
Total Alkalinity	97.0		mg/L	100		97.0	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
Batch EA62615 - 6010B/No Digestion										
Blank (EA62615-BLK1)				Prepared & Analyzed: 01/26/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EA62615-CCV1)				Prepared & Analyzed: 01/26/06						
Calcium	2.12		mg/L	2.00		106	85-115			
Magnesium	1.99		"	2.00		99.5	85-115			
Potassium	1.88		"	2.00		94.0	85-115			
Sodium	1.94		"	2.00		97.0	85-115			
Duplicate (EA62615-DUP1)	**Source: 6A19005-01**			Prepared & Analyzed: 01/26/06						
Calcium	224	0.500	mg/L		222			0.897	20	
Magnesium	115	0.0500	"		120			4.26	20	
Potassium	14.6	0.500	"		15.2			4.03	20	
Sodium	306	0.500	"		313			2.26	20	

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 EA62615 - 6010B/No Digestion										
Blank (EA62615-BLK1)				Prepared & Analyzed: 01/26/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EA62615-CCV1)				Prepared & Analyzed: 01/26/06						
Calcium	2.12		mg/L	2.00		106	85-115			
Magnesium	1.99		"	2.00		99.5	85-115			
Potassium	1.88		"	2.00		94.0	85-115			
Sodium	1.94		"	2.00		97.0	85-115			
Duplicate (EA62615-DUP1)	**Source: 6A19005-01**			Prepared & Analyzed: 01/26/06						
Calcium	224	0.500	mg/L		222			0.897	20	
Magnesium	115	0.0500	"		120			4.26	20	
Potassium	14.6	0.500	"		15.2			4.03	20	
Sodium	306	0.500	"		313			2.26	20	

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: 2/2/2006

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.

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 kpriceswd@valornet.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310 [signature]

Email: rozanne@valornet.com

Project Name: EME Jct. D-1 Leak

Project #:

Project Loc: Lea County

PO #:

					Preservative							Matrix				Analyze For:															
																TCLP:															
																TOTAL:							X								
LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Ice	HNO_3	HCl (2) 40 ml glass vials	NaOH	H_2SO_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, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids				RUSH TAT (Pre-Schedule)	Standard TAT
6A19007 -01	Monitor Well #1	1/18/2006	9:10	3	X		2			1		X					X	X					X			X					X

Special Instructions:

PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson [signature]	1/19/06	6:50	James Johnsen	1/19/06	6:51
Relinquished by: James Johnson	1/19/06	11:10	Received by ELOT: [signature]	1/19/06	11:10

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers Cooler
Temperature Upon Receipt: -2.0

Laboratory Comments:

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

Cl[redacted] Five Dp.

Date/Time: 1/19/06 11:10

Order #: 6A19007

Initials: MK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-2.0 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	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Su[redacted]nt sample amount for indicated test?	Yes	No	
All [redacted]ples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Samples not frozen

Variance Documentation:

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

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

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. D-1 Leak

Project Number: None Given

Location: Lea County

Lab Order Number: 6D20008

Report Date: 05/03/06

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/03/06 11:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6D20008-01	Water	04/19/06 10:35	04/20/06 15:05
Monitor Well #2	6D20008-02	Water	04/19/06 11:55	04/20/06 15:05
Monitor Well #3	6D20008-03	Water	04/19/06 09:05	04/20/06 15:05

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

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/03/06 11:49

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D20008-01) Water									
Benzene	ND	0.00100	mg/L	1	ED62607	04/26/06	04/26/06	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		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.2 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6D20008-02) Water									
Benzene	ND	0.00100	mg/L	1	ED62607	04/26/06	04/26/06	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		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6D20008-03) Water									
Benzene	ND	0.00100	mg/L	1	ED62607	04/26/06	04/26/06	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		*92.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	

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

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/03/06 11:49

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 (6D20008-01) Water									
Total Alkalinity	**448**	2.00	mg/L	1	ED62402	04/25/06	04/25/06	EPA 310.1M	
Chloride	**10700**	250	"	500	ED62120	04/24/06	04/24/06	EPA 300.0	
Total Dissolved Solids	**26800**	5.00	"	1	ED62405	04/20/06	04/21/06	EPA 160.1	
Sulfate	**3320**	250	"	500	ED62120	04/24/06	04/24/06	EPA 300.0	
Monitor Well #2 (6D20008-02) Water									
Total Alkalinity	**434**	2.00	mg/L	1	ED62402	04/25/06	04/25/06	EPA 310.1M	
Chloride	**8730**	100	"	200	ED62120	04/24/06	04/24/06	EPA 300.0	
Total Dissolved Solids	**19200**	5.00	"	1	ED62405	04/20/06	04/21/06	EPA 160.1	
Sulfate	**3840**	100	"	200	ED62120	04/24/06	04/24/06	EPA 300.0	
Monitor Well #3 (6D20008-03) Water									
Total Alkalinity	**474**	2.00	mg/L	1	ED62402	04/25/06	04/25/06	EPA 310.1M	
Chloride	**11100**	250	"	500	ED62120	04/24/06	04/24/06	EPA 300.0	
Total Dissolved Solids	**25600**	5.00	"	1	ED62405	04/20/06	04/21/06	EPA 160.1	
Sulfate	**3480**	250	"	500	ED62120	04/24/06	04/24/06	EPA 300.0	

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

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/03/06 11:49

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6D20008-01) Water									
Calcium	**544**	0.500	mg/L	50	ED62106	04/21/06	04/21/06	EPA 6010B	
Magnesium	**252**	0.0500	"	"	"	"	"	"	
Potassium	**248**	2.50	"	"	"	"	"	"	
Sodium	**9370**	25.0	"	2500	"	"	"	"	
Monitor Well #2 (6D20008-02) Water									
Calcium	**382**	0.500	mg/L	50	ED62106	04/21/06	04/21/06	EPA 6010B	
Magnesium	**175**	0.0500	"	"	"	"	"	"	
Potassium	**146**	2.50	"	"	"	"	"	"	
Sodium	**8220**	25.0	"	2500	"	"	"	"	
Monitor Well #3 (6D20008-03) Water									
Calcium	**409**	0.500	mg/L	50	ED62106	04/21/06	04/21/06	EPA 6010B	
Magnesium	**230**	0.0500	"	"	"	"	"	"	
Potassium	**188**	2.50	"	"	"	"	"	"	
Sodium	**10400**	25.0	"	2500	"	"	"	"	

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

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 ED62607 - EPA 5030C (GC)										
Blank (ED62607-BLK1)				Prepared & Analyzed: 04/26/06						
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	*39.1*		*ug/l*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.4*		*"*	*40.0*		*104*	*80-120*			
LCS (ED62607-BS1)				Prepared & Analyzed: 04/26/06						
Benzene	0.0503	0.00100	mg/L	0.0502		100	80-120			
Toluene	0.0550	0.00100	"	0.0502		110	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0502		116	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100		120	80-120			
Xylene (o)	0.0582	0.00100	"	0.0502		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*42.9*		*ug/l*	*40.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.2*		*"*	*40.0*		*118*	*80-120*			
Calibration Check (ED62607-CCV1)				Prepared: 04/26/06 Analyzed: 04/27/06						
Benzene	57.8		ug/l	50.0		116	80-120			
Toluene	56.3		"	50.0		113	80-120			
Ethylbenzene	58.2		"	50.0		116	80-120			
Xylene (p/m)	118		"	100		118	80-120			
Xylene (o)	58.8		"	50.0		118	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.5*		*"*	*40.0*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.6*		*"*	*40.0*		*91.5*	*80-120*			
Matrix Spike (ED62607-MS1)	**Source: 6D20008-01**			Prepared: 04/26/06 Analyzed: 04/27/06						
Benzene	0.0595	0.00100	mg/L	0.0502	ND	119	80-120			
Toluene	0.0573	0.00100	"	0.0502	ND	114	80-120			
Ethylbenzene	0.0559	0.00100	"	0.0502	ND	111	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120			
Xylene (o)	0.0582	0.00100	"	0.0502	ND	116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.1*		*ug/l*	*40.0*		*92.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.0*		*"*	*40.0*		*100*	*80-120*			

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 ED62607 - EPA 5030C (GC)										
Matrix Spike Dup (ED62607-MSD1)	**Source: 6D20008-01**			Prepared: 04/26/06 Analyzed: 04/27/06						
Benzene	0.0600	0.00100	mg/L	0.0502	ND	120	80-120	0.837	20	
Toluene	0.0579	0.00100	"	0.0502	ND	115	80-120	0.873	20	
Ethylbenzene	0.0590	0.00100	"	0.0502	ND	118	80-120	6.11	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	0.00	20	
Xylene (o)	0.0584	0.00100	"	0.0502	ND	116	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*41.9*		*ug/l*	*40.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.5*		*"*	*40.0*		*106*	*80-120*			

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 ED62120 - General Preparation (WetChem)										
Blank (ED62120-BLK1)				Prepared & Analyzed: 04/24/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (ED62120-BS1)				Prepared & Analyzed: 04/24/06						
Sulfate	8.76		mg/L	10.0		87.6	80-120			
Chloride	9.01		"	10.0		90.1	80-120			
Calibration Check (ED62120-CCV1)				Prepared & Analyzed: 04/24/06						
Sulfate	9.38		mg/L	10.0		93.8	80-120			
Chloride	9.40		"	10.0		94.0	80-120			
Duplicate (ED62120-DUP1)	**Source: 6D20005-01**			Prepared & Analyzed: 04/24/06						
Sulfate	86.7	5.00	mg/L		86.4			0.347	20	
Chloride	56.7	5.00	"		55.9			1.42	20	
Batch ED62402 - General Preparation (WetChem)										
Blank (ED62402-BLK1)				Prepared & Analyzed: 04/25/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (ED62402-BS1)				Prepared & Analyzed: 04/25/06						
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115			
Duplicate (ED62402-DUP1)	**Source: 6D20005-01**			Prepared & Analyzed: 04/25/06						
Total Alkalinity	197	2.00	mg/L		198			0.506	20	
Reference (ED62402-SRM1)				Prepared & Analyzed: 04/25/06						
Total Alkalinity	97.0		mg/L	100		97.0	90-110			

Rice Operating Co.	Project: EME Jct. D-1 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/03/06 11:49

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 ED62405 - Filtration Preparation										
Blank (ED62405-BLK1)				Prepared: 04/20/06 Analyzed: 04/21/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (ED62405-DUP1)	**Source: 6D20006-01**			Prepared: 04/20/06 Analyzed: 04/21/06						
Total Dissolved Solids	2390	5.00	mg/L		2290			4.27	5	

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 ED62106 - 6010B/No Digestion										
Blank (ED62106-BLK1)				Prepared & Analyzed: 04/21/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (ED62106-CCV1)				Prepared & Analyzed: 04/21/06						
Calcium	1.98		mg/L	2.00		99.0	85-115			
Magnesium	2.10		"	2.00		105	85-115			
Potassium	2.06		"	2.00		103	85-115			
Sodium	2.06		"	2.00		103	85-115			
Duplicate (ED62106-DUP1)	**Source: 6D20005-01**			Prepared & Analyzed: 04/21/06						
Calcium	25.1	0.100	mg/L		28.8			13.7	20	
Magnesium	15.9	0.0100	"		13.4			17.1	20	
Potassium	8.87	0.500	"		10.0			12.0	20	
Sodium	122	0.500	"		122			0.00	20	

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: 5/3/2006

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.

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 Jct. D-1 Leak
Company Name: RICE Operating Company
Project #:
Company Address: 122 W. Taylor Street
Project Loc: Lea County
City/State/Zip: Hobbs, New Mexico 88240
PO #:
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: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	Analyze For: TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids				RUSH TAT (Pre-Schedule)	Standard TAT
01	Monitor Well #1	4/19/2006	10:35	3	X		2			1		X					X	X					X			X					X
02	Monitor Well #2	4/19/2006	11:55	3	X		2			1		X					X	X					X			X					X
03	Monitor Well #3	4/19/2006	9:05	3	X		2			1		X					X	X					X			X					X

Special Instructions:

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

Sample Containers Intact? (Y) N
Labels on container? (Y) N
Custody Seals: Containers / Cooler
Temperature Upon Receipt:

Laboratory Comments: 25

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	4/20/06	13:05			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Cheryl Cole	4/20/06	15:05

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

nt: Rice Op.

e/Time: 4/20/00 15:05

er #: 1eD20008

als: CK

Sample Receipt Checklist

perature of container/cooler?	Yes	No	2.5 C
pping container/cooler in good condition?	Yes	No	
tody Seals intact on shipping container/cooler?	Yes	No	Not present
tody Seals intact on sample bottles?	Yes	No	Not present
in of custody present?	Yes	No	
mple Instructions complete on Chain of Custody?	Yes	No	
ain of Custody signed when relinquished and received?	Yes	No	
ain of custody agrees with sample label(s)	Yes	No	
ntainer labels legible and intact?	Yes	No	
mple Matrix and properties same as on chain of custody?	Yes	No	
mples in proper container/bottle?	Yes	No	
mples properly preserved?	Yes	No	
mple bottles intact?	Yes	No	
eservations documented on Chain of Custody?	Yes	No	
ntainers documented on Chain of Custody?	Yes	No	
fficient sample amount for indicated test?	Yes	No	
l sa[illegible]s received within sufficient hold time?	Yes	No	
OC samples have zero headspace?	Yes	No	Not Applicable

ther observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Kristen Farris-Pope
Rice Operating Company
122 W Taylor Street
Hobbs, NM, 88240

Report Date: August 17, 2006

Work Order: 6072142

Project Location: Lea County,NM
Project Name: EME D-1 Leak
Project Number: EME D-1 Leak

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
96137	Monitor Well #1	water	2006-07-18	11:00	2006-07-21
96138	Monitor Well #2	water	2006-07-18	09:25	2006-07-21
96139	Monitor Well #3	water	2006-07-18	08:05	2006-07-21

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 17 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 96137 - Monitor Well #1

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	28340	Date Analyzed:	2006-07-26	Analyzed By:	LJ
Prep Batch:	24777	Sample Preparation:	2006-07-25	Prepared By:	LJ

Parameter	Flag	RL Result	Units	Dilution	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**494**	mg/L as CaCo3	1	4.00
Total Alkalinity		**494**	mg/L as CaCo3	1	4.00

Sample: 96137 - Monitor Well #1

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28277	Date Analyzed:	2006-07-24	Analyzed By:	MT
Prep Batch:	24759	Sample Preparation:	2006-07-24	Prepared By:	MT

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0963	mg/L	1	0.100	96	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)	[1]	0.0699	mg/L	1	0.100	70	70.6 - 129.2

Sample: 96137 - Monitor Well #1

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	28356	Date Analyzed:	2006-07-26	Analyzed By:	TP
Prep Batch:	24749	Sample Preparation:	2006-07-24	Prepared By:	TS

Parameter	Flag	RL Result	Units	Dilution	RL
Dissolved Calcium		**572**	mg/L	10	0.500
Dissolved Potassium		**249**	mg/L	10	1.00
Dissolved Magnesium		**299**	mg/L	10	1.00
Dissolved Sodium		**7270**	mg/L	100	1.00

Sample: 96137 - Monitor Well #1

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28927	Date Analyzed:	2006-08-15	Analyzed By:	WB
Prep Batch:	25286	Sample Preparation:	2006-08-11	Prepared By:	WB

[1] BFB surrogate recovery outside normal limits. ICV/CCV and TFT surrogate recovery show the method to be in control.

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**12900**		mg/L	1000	0.500
Sulfate		**4730**		mg/L	100	0.500

Sample: 96137 - Monitor Well #1

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	29098	Date Analyzed:	2006-08-16	Analyzed By:	WB
Prep Batch:	25437	Sample Preparation:	2006-08-15	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids	[2]	**24400**		mg/L	50	10.00

Sample: 96138 - Monitor Well #2

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	28340	Date Analyzed:	2006-07-26	Analyzed By:	LJ
Prep Batch:	24777	Sample Preparation:	2006-07-25	Prepared By:	LJ

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**484**		mg/L as CaCo3	1	4.00
Total Alkalinity		**484**		mg/L as CaCo3	1	4.00

Sample: 96138 - Monitor Well #2

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28277	Date Analyzed:	2006-07-24	Analyzed By:	MT
Prep Batch:	24759	Sample Preparation:	2006-07-24	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0954	mg/L	1	0.100	95	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)	[3]	0.0690	mg/L	1	0.100	69	70.6 - 129.2

[2]Reran out of hold time. •

[3]BFB surrogate recovery outside normal limits. ICV/CCV and TFT surrogate recovery show the method to be in control.

Sample: 96138 - Monitor Well #2

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	28356	Date Analyzed:	2006-07-26	Analyzed By:	TP
Prep Batch:	24749	Sample Preparation:	2006-07-24	Prepared By:	TS

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**379**		mg/L	10	0.500
Dissolved Potassium		**155**		mg/L	10	1.00
Dissolved Magnesium		**203**		mg/L	10	1.00
Dissolved Sodium		**6300**		mg/L	100	1.00

Sample: 96138 - Monitor Well #2

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28782	Date Analyzed:	2006-08-02	Analyzed By:	WB
Prep Batch:	25167	Sample Preparation:	2006-08-02	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**9390**		mg/L	1000	0.500
Sulfate		**5240**		mg/L	1000	0.500

Sample: 96138 - Monitor Well #2

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	28406	Date Analyzed:	2006-07-27	Analyzed By:	SM
Prep Batch:	24850	Sample Preparation:	2009-07-26	Prepared By:	SM

Parameter	Flag	Result	RL	Units	Dilution	RL
Total Dissolved Solids		**19950**		mg/L	50	10.00

Sample: 96139 - Monitor Well #3

Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	28340	Date Analyzed:	2006-07-26	Analyzed By:	LJ
Prep Batch:	24777	Sample Preparation:	2006-07-25	Prepared By:	LJ

Parameter	Flag	Result	RL	Units	Dilution	RL
Hydroxide Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Carbonate Alkalinity		<1.00		mg/L as CaCo3	1	1.00
Bicarbonate Alkalinity		**544**		mg/L as CaCo3	1	4.00
Total Alkalinity		**544**		mg/L as CaCo3	1	4.00

Sample: 96139 - Monitor Well #3

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	28277	Date Analyzed:	2006-07-24	Analyzed By:	MT
Prep Batch:	24759	Sample Preparation:	2006-07-24	Prepared By:	MT

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0972	mg/L	1	0.100	97	66.2 - 127.7
4-Bromofluorobenzene (4-BFB)	[4]	0.0699	mg/L	1	0.100	70	70.6 - 129.2

Sample: 96139 - Monitor Well #3

Analysis:	Cations	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	28356	Date Analyzed:	2006-07-26	Analyzed By:	TP
Prep Batch:	24749	Sample Preparation:	2006-07-24	Prepared By:	TS

Parameter	Flag	Result	RL	Units	Dilution	RL
Dissolved Calcium		**581**		mg/L	10	0.500
Dissolved Potassium		**268**		mg/L	10	1.00
Dissolved Magnesium		**379**		mg/L	10	1.00
Dissolved Sodium		**7990**		mg/L	100	1.00

Sample: 96139 - Monitor Well #3

Analysis:	Ion Chromatography	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	28782	Date Analyzed:	2006-08-02	Analyzed By:	WB
Prep Batch:	25167	Sample Preparation:	2006-08-02	Prepared By:	WB

Parameter	Flag	Result	RL	Units	Dilution	RL
Chloride		**15400**		mg/L	1000	0.500
Sulfate		**4770**		mg/L	100	0.500

Sample: 96139 - Monitor Well #3

Analysis:	TDS	Analytical Method:	SM 2540C	Prep Method:	N/A
QC Batch:	28406	Date Analyzed:	2006-07-27	Analyzed By:	SM
Prep Batch:	24850	Sample Preparation:	2009-07-26	Prepared By:	SM

continued ...

[4]BFB surrogate recovery outside normal limits. ICV/CCV and TFT surrogate recovery show the method to be in control.

sample 96139 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Total Dissolved Solids		**25900**	mg/L	50	10.00

Method Blank (1) QC Batch: 28277

QC Batch: 28277 Date Analyzed: 2006-07-24 Analyzed By: MT
Prep Batch: 24759 QC Preparation: 2006-07-24 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000255	mg/L	0.001
Toluene		<0.000210	mg/L	0.001
Ethylbenzene		<0.000317	mg/L	0.001
Xylene		<0.000603	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0949	mg/L	1	0.100	95	76.1 - 117
4-Bromofluorobenzene (4-BFB)		0.0633	mg/L	1	0.100	63	58.5 - 118

Method Blank (1) QC Batch: 28340

QC Batch: 28340 Date Analyzed: 2006-07-26 Analyzed By: LJ
Prep Batch: 24777 QC Preparation: 2006-07-25 Prepared By: LJ

Parameter	Flag	MDL Result	Units	RL
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1) QC Batch: 28356

QC Batch: 28356 Date Analyzed: 2006-07-26 Analyzed By: TP
Prep Batch: 24749 QC Preparation: 2006-07-24 Prepared By: TS

Parameter	Flag	MDL Result	Units	RL
Dissolved Calcium		0.132	mg/L	0.5
Dissolved Potassium		1.08	mg/L	1
Dissolved Magnesium		<0.704	mg/L	1
Dissolved Sodium		0.836	mg/L	1

Method Blank (1) QC Batch: 28406

QC Batch: 28406 | Date Analyzed: 2006-07-27 | Analyzed By: SM
Prep Batch: 24850 | QC Preparation: 2006-07-26 | Prepared By: SM

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Method Blank (1) QC Batch: 28782

QC Batch: 28782 | Date Analyzed: 2006-08-02 | Analyzed By: WB
Prep Batch: 25167 | QC Preparation: 2006-08-02 | Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5
Sulfate		<0.0485	mg/L	0.5

Method Blank (1) QC Batch: 28927

QC Batch: 28927 | Date Analyzed: 2006-08-15 | Analyzed By: WB
Prep Batch: 25286 | QC Preparation: 2006-08-11 | Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.0181	mg/L	0.5
Sulfate		<0.0485	mg/L	0.5

Method Blank (1) QC Batch: 29098

QC Batch: 29098 | Date Analyzed: 2006-08-16 | Analyzed By: WB
Prep Batch: 25437 | QC Preparation: 2006-08-15 | Prepared By: WB

Parameter	Flag	MDL Result	Units	RL
Total Dissolved Solids		<5.000	mg/L	10

Duplicates (1)

QC Batch: 28340 | Date Analyzed: 2006-07-26 | Analyzed By: LJ
Prep Batch: 24777 | QC Preparation: 2006-07-25 | Prepared By: LJ

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	110	108	mg/L as CaCo3	1	2	12.6

continued ...

duplicate continued . . .

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Alkalinity	110	108	mg/L as CaCo3	1	2	11.5

Duplicates (1)

QC Batch: 28406 | Date Analyzed: 2006-07-27 | Analyzed By: SM
Prep Batch: 24850 | QC Preparation: 2006-07-26 | Prepared By: SM

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	768.0	928.0	mg/L	2	19	17.2

Duplicates (1)

QC Batch: 29098 | Date Analyzed: 2006-08-16 | Analyzed By: WB
Prep Batch: 25437 | QC Preparation: 2006-08-15 | Prepared By: WB

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids	740.0	800.0	mg/L	2	8	17.2

Laboratory Control Spike (LCS-1)

QC Batch: 28277 | Date Analyzed: 2006-07-24 | Analyzed By: MT
Prep Batch: 24759 | QC Preparation: 2006-07-24 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.109	mg/L	1	0.100	<0.000255	109	82.2 - 119
Toluene	0.108	mg/L	1	0.100	<0.000210	108	81.2 - 119
Ethylbenzene	0.109	mg/L	1	0.100	<0.000317	109	80 - 122
Xylene	0.322	mg/L	1	0.300	<0.000603	107	81.3 - 122

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.104	mg/L	1	0.100	<0.000255	109	82.2 - 119	5	20
Toluene	0.103	mg/L	1	0.100	<0.000210	108	81.2 - 119	5	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.000317	109	80 - 122	8	20
Xylene	0.306	mg/L	1	0.300	<0.000603	107	81.3 - 122	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.101	mg/L	1	0.100	101	101	81.8 - 114
4-Bromofluorobenzene (4-BFB)	0.112	0.111	mg/L	1	0.100	112	111	72.7 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 28356 | Date Analyzed: 2006-07-26 | Analyzed By: TP
Prep Batch: 24749 | QC Preparation: 2006-07-24 | Prepared By: TS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	51.7	mg/L	1	50.0	<0.0950	103	85 - 115
Dissolved Potassium	50.8	mg/L	1	50.0	<0.377	102	85 - 113
Dissolved Magnesium	51.5	mg/L	1	50.0	<0.704	103	85 - 113
Dissolved Sodium	50.5	mg/L	1	50.0	<0.261	101	85 - 111

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	51.7	mg/L	1	50.0	<0.0950	103	85 - 115	0	20
Dissolved Potassium	49.3	mg/L	1	50.0	<0.377	102	85 - 113	3	20
Dissolved Magnesium	49.8	mg/L	1	50.0	<0.704	103	85 - 113	3	20
Dissolved Sodium	48.6	mg/L	1	50.0	<0.261	101	85 - 111	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 28782 | Date Analyzed: 2006-08-02 | Analyzed By: WB
Prep Batch: 25167 | QC Preparation: 2006-08-02 | Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.2	mg/L	1	12.5	<0.0181	98	90 - 110
Sulfate	12.5	mg/L	1	12.5	<0.0485	100	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.3	mg/L	1	12.5	<0.0181	98	90 - 110	1	20
Sulfate	12.5	mg/L	1	12.5	<0.0485	100	90 - 110	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 28927 | Date Analyzed: 2006-08-15 | Analyzed By: WB
Prep Batch: 25286 | QC Preparation: 2006-08-11 | Prepared By: WB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	12.3	mg/L	1	12.5	<0.0181	98	90 - 110
Sulfate	12.1	mg/L	1	12.5	<0.0485	97	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	12.4	mg/L	1	12.5	<0.0181	98	90 - 110	1	20
Sulfate	12.2	mg/L	1	12.5	<0.0485	97	90 - 110	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 96149

QC Batch: 28277 | Date Analyzed: 2006-07-24 | Analyzed By: MT
Prep Batch: 24759 | QC Preparation: 2006-07-24 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.107	mg/L	1	0.100	<0.000255	107	70.9 - 126
Toluene	0.105	mg/L	1	0.100	<0.000210	105	70.8 - 125
Ethylbenzene	0.106	mg/L	1	0.100	<0.000317	106	74.8 - 125
Xylene	0.311	mg/L	1	0.300	<0.000603	104	75.7 - 126

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[5]	NA	mg/L	1	0.100	<0.000255	0	70.9 - 126	200	20
Toluene	[6]	NA	mg/L	1	0.100	<0.000210	0	70.8 - 125	200	20
Ethylbenzene	[7]	NA	mg/L	1	0.100	<0.000317	0	74.8 - 125	200	20
Xylene	[8]	NA	mg/L	1	0.300	<0.000603	0	75.7 - 126	200	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	[9]	0.101	NA	mg/L	1	0.1	101	0	73.6 - 121
4-Bromofluorobenzene (4-BFB)	[10]	0.110	NA	mg/L	1	0.1	110	0	81.8 - 114

Matrix Spike (MS-1) Spiked Sample: 96124

QC Batch: 28356 | Date Analyzed: 2006-07-26 | Analyzed By: TP
Prep Batch: 24749 | QC Preparation: 2006-07-24 | Prepared By: TS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	416	mg/L	1	50.0	361	110	68.4 - 138
Dissolved Potassium	73.8	mg/L	1	50.0	22	104	82 - 129
Dissolved Magnesium	208	mg/L	1	50.0	147	122	61.2 - 135
Dissolved Sodium	633	mg/L	1	50.0	578	110	81.8 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[5]RPD is out of range because a matrix spike duplicate was not prepared.
[6]RPD is out of range because a matrix spike duplicate was not prepared.
[7]RPD is out of range because a matrix spike duplicate was not prepared.
[8]RPD is out of range because a matrix spike duplicate was not prepared.
[9]RPD is out of range because a matrix spike duplicate was not prepared.
[10]RPD is out of range because a matrix spike duplicate was not prepared.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	406	mg/L	1	50.0	361	90	68.4 - 138	2	20
Dissolved Potassium	81.3	mg/L	1	50.0	22	119	82 - 129	10	20
Dissolved Magnesium	194	mg/L	1	50.0	147	94	61.2 - 135	7	20
Dissolved Sodium	637	mg/L	1	50.0	578	118	81.8 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 96141

QC Batch: 28782 | Date Analyzed: 2006-08-02 | Analyzed By: WB
Prep Batch: 25167 | QC Preparation: 2006-08-02 | Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	2210	mg/L	100	12.5	988	98	25.4 - 171
Sulfate	1580	mg/L	100	12.5	298	102	0 - 677

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	2200	mg/L	100	12.5	988	97	25.4 - 171	0	20
Sulfate	1550	mg/L	100	12.5	298	100	0 - 677	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 97976

QC Batch: 28927 | Date Analyzed: 2006-08-15 | Analyzed By: WB
Prep Batch: 25286 | QC Preparation: 2006-08-11 | Prepared By: WB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	69.2	mg/L	5	12.5	9.24	96	25.4 - 171
Sulfate	63.7	mg/L	5	12.5	5.29	93	0 - 677

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	69.7	mg/L	5	12.5	9.24	97	25.4 - 171	1	20
Sulfate	65.0	mg/L	5	12.5	5.29	96	0 - 677	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 28277 | Date Analyzed: 2006-07-24 | Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	85 - 115	2006-07-24
Toluene		mg/L	0.100	0.104	104	85 - 115	2006-07-24
Ethylbenzene		mg/L	0.100	0.104	104	85 - 115	2006-07-24
Xylene		mg/L	0.300	0.314	105	85 - 115	2006-07-24

Standard (CCV-1)

QC Batch: 28277 Date Analyzed: 2006-07-24 Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.107	107	85 - 115	2006-07-24
Toluene		mg/L	0.100	0.105	105	85 - 115	2006-07-24
Ethylbenzene		mg/L	0.100	0.106	106	85 - 115	2006-07-24
Xylene		mg/L	0.300	0.311	104	85 - 115	2006-07-24

Standard (ICV-1)

QC Batch: 28340 Date Analyzed: 2006-07-26 Analyzed By: LJ

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	240	96	90 - 110	2006-07-26

Standard (CCV-1)

QC Batch: 28340 Date Analyzed: 2006-07-26 Analyzed By: LJ

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Alkalinity		mg/L as CaCo3	250	240	96	90 - 110	2006-07-26

Standard (ICV-1)

QC Batch: 28356 Date Analyzed: 2006-07-26 Analyzed By: TP

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	50.7	101	90 - 110	2006-07-26
Dissolved Potassium		mg/L	50.0	52.0	104	90 - 110	2006-07-26
Dissolved Magnesium		mg/L	50.0	49.6	99	90 - 110	2006-07-26
Dissolved Sodium		mg/L	50.0	50.9	102	90 - 110	2006-07-26

Standard (CCV-1)

QC Batch: 28356 Date Analyzed: 2006-07-26 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	51.2	102	90 - 110	2006-07-26
Dissolved Potassium		mg/L	50.0	54.6	109	90 - 110	2006-07-26
Dissolved Magnesium		mg/L	50.0	50.0	100	90 - 110	2006-07-26
Dissolved Sodium		mg/L	50.0	53.2	106	90 - 110	2006-07-26

Standard (ICV-1)

QC Batch: 28406 Date Analyzed: 2006-07-27 Analyzed By: SM

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1056	106	90 - 110	2006-07-27

Standard (CCV-1)

QC Batch: 28406 Date Analyzed: 2006-07-27 Analyzed By: SM

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1075	108	90 - 110	2006-07-27

Standard (ICV-1)

QC Batch: 28782 Date Analyzed: 2006-08-02 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.4	99	90 - 110	2006-08-02
Sulfate		mg/L	12.5	12.7	102	90 - 110	2006-08-02

Standard (CCV-1)

QC Batch: 28782 Date Analyzed: 2006-08-02 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.2	98	90 - 110	2006-08-02
Sulfate		mg/L	12.5	12.4	99	90 - 110	2006-08-02

Standard (ICV-1)

QC Batch: 28927 Date Analyzed: 2006-08-15 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.3	98	90 - 110	2006-08-15
Sulfate		mg/L	12.5	12.1	97	90 - 110	2006-08-15

Standard (CCV-1)

QC Batch: 28927 Date Analyzed: 2006-08-15 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	12.5	12.5	100	90 - 110	2006-08-15
Sulfate		mg/L	12.5	12.2	98	90 - 110	2006-08-15

Standard (ICV-1)

QC Batch: 29098 Date Analyzed: 2006-08-16 Analyzed By: WB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1022	102	90 - 110	2006-08-16

Standard (CCV-1)

QC Batch: 29098 Date Analyzed: 2006-08-16 Analyzed By: WB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Dissolved Solids		mg/L	1000	1007	101	90 - 110	2006-08-16

Page 1 of 1

6701 Aberdeen Ave, Ste 9
Lubbock,Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon Way, Suite H
El Paso,Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 6072142

Company Name: RICE Operating Company
Phone #: (505)393-9174
Address: (Street, City, Zip) 122 W Taylor Street - Hobbs, New Mexico 88240
Fax #: (505) 397-1471
Contact Person: Kristin Farris - Pope, Project Scientist
kpope@riceswd.com
Invoice to: (If different from above)
Project #: None Given
Project Name: EME D-1 Leak
Project Location: Lea County - New Mexico
Sampler Signature: Rozanne Johnson (505)631-9310
rozanne@valornet.com

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCL	HNO_3	$NaHSO_4$	H_2SO_4	ICE	NONE	SAMPLING: DATE 2006	TIME
46137	Monitor Well #1	2	40 ml	X					X				X		7-18	11:00
	Monitor Well #1	1	1L	X									X		7-18	11:00
38	Monitor Well #2	2	40 ml	X					X				X		7-18	9:25
	Monitor Well #2	1	1L	X									X		7-18	9:25
39	Monitor Well #3	2	40 ml	X					X				X		7-18	8:05
	Monitor Well #3	1	1L	X									X		7-18	8:05

ANALYSIS REQUEST
(Circle or Specify Method No.)

FIELD CODE	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	~~PAH 8270C~~	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SSSO4, CO3, HCO3)	Total Dissolved Solids		Turn Around Time if different from standard	Hold
Monitor Well #1		X																				
Monitor Well #1																	X	X	X			
Monitor Well #2		X																				
Monitor Well #2																	X	X	X			
Monitor Well #3		X																				
Monitor Well #3																	X	X	X			

Relinquished by: Rozanne Johnson Date: 7-20-06 Time: 8:00
Received by: Date: Time:
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Megan McCloud Date: 7-21-06 Time: 1105

LAB USE ONLY
Intact (Y)/N
Headspace Y/(N)
Temp 4°
Log-in Review MA

REMARKS:

☐ check if special reporting limits needed

Carrier # BUS GLL 1690177159

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of COC

Cation-Anion Balance Sheet

DATE: 8/16/2006

Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate ppm	Fluoride ppm	TDS ppm	EC µMHOs/cm
96137	572	299	7270	249	494	5480	13000			24400	
96138	379	203	6300	155	484	5240	9690			20000	
96139	581	379	7990	268	584	4770	15400			25900	

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate in meq/L	Fluoride in meq/L	**Total Cations in meq/L**	**Total Anions in meq/L**	**Percentage Error**
96137	28.54	24.60	316.25	6.37	9.88	114.09	366.73			375.76	490.70	26.5
96138	18.91	16.70	274.05	3.96	9.68	109.10	273.35			313.63	392.13	22.2
96139	28.99	31.19	347.57	6.86	11.68	99.31	434.43			414.60	545.43	27.3

	EC/Cation	EC/Anion					TDS/EC	TDS/Cat	TDS/Anion	
96137			range	0	to	0		0.65	0.50	needs to be 0.55-0.77
96138			range	0	to	0		0.64	0.51	needs to be 0.55-0.77
96139			range	0	to	0		0.62	0.47	needs to be 0.55-0.77

Cation-Anion Balance Sheet

DATE: 8/16/2006

Sample #	Calcium ppm	Magnesium ppm	Sodium ppm	Potassium ppm	Alkalinity ppm	Sulfate ppm	Chloride ppm	Nitrate ppm	Fluoride ppm	TDS ppm	EC µMHOs/cm
96137	572	299	7270	249	494	4730	12900			24400	
96138	379	203	6300	155	484	5240	9390			20000	
96139	581	379	7990	268	584	4770	15400			25900	

Sample #	Calcium in meq/L	Magnesium in meq/L	Sodium in meq/L	Potassium in meq/L	Alkalinity in meq/L	Sulfate in meq/L	Chloride in meq/L	Nitrate in meq/L	Fluoride in meq/L	**Total Cations in meq/L**	**Total Anions in meq/L**	**Percentage Error**
96137	28.54	24.60	316.25	6.37	9.88	98.48	363.91			375.76	472.27	22.8
96138	18.91	16.70	274.05	3.96	9.68	109.10	264.89			313.63	383.67	20.1
96139	28.99	31.19	347.57	6.86	11.68	99.31	434.43			414.60	545.43	27.3

	EC/Cation	EC/Anion				
96137			range	0	to	0
96138			range	0	to	0
96139			range	0	to	0

TDS/EC	TDS/Cat	TDS/Anion	
	0.65	0.52	needs to be 0.55-0.77
	0.64	0.52	needs to be 0.55-0.77
	0.62	0.47	needs to be 0.55-0.77

ENVIRONMENTAL LAB OF

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. D-1 Leak

Project Number: None Given

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

Lab Order Number: 6J12013

Report Date: 10/24/06

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	6J12013-01	Water	10/10/06 11:00	10-12-2006 16:00
Monitor Well #2	6J12013-02	Water	10/10/06 09:25	10-12-2006 16:00
Monitor Well #3	6J12013-03	Water	10/10/06 08:05	10-12-2006 16:00

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

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

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6J12013-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ61407	10/14/06	10/16/06	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		*81.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6J12013-02) Water									
Benzene	ND	0.00100	mg/L	1	EJ61407	10/14/06	10/16/06	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		*88.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*119 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6J12013-03) Water									
Benzene	ND	0.00100	mg/L	1	EJ61407	10/14/06	10/16/06	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		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*87.5 %*	*80-120*		"	"	"	"	

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

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6J12013-01) Water									
Total Alkalinity	**488**	2.00	mg/L	1	EJ61311	10/13/06	10/13/06	EPA 310.1M	
Chloride	**10200**	250	"	500	EJ61403	10/19/06	10/19/06	EPA 300.0	
Total Dissolved Solids	**20200**	10.0	"	1	EJ61404	10/14/06	10/15/06	EPA 160.1	
Sulfate	**4570**	250	"	500	EJ61403	10/19/06	10/19/06	EPA 300.0	
Monitor Well #2 (6J12013-02) Water									
Total Alkalinity	**472**	2.00	mg/L	1	EJ61311	10/13/06	10/13/06	EPA 310.1M	
Chloride	**7910**	250	"	500	EJ61403	10/19/06	10/19/06	EPA 300.0	
Total Dissolved Solids	**18000**	10.0	"	1	EJ61404	10/14/06	10/15/06	EPA 160.1	
Sulfate	**4790**	250	"	500	EJ61403	10/19/06	10/19/06	EPA 300.0	
Monitor Well #3 (6J12013-03) Water									
Total Alkalinity	**556**	2.00	mg/L	1	EJ61311	10/13/06	10/13/06	EPA 310.1M	
Chloride	**13100**	250	"	500	EJ61403	10/19/06	10/19/06	EPA 300.0	
Total Dissolved Solids	**24000**	10.0	"	1	EJ61404	10/14/06	10/15/06	EPA 160.1	
Sulfate	**4570**	250	"	500	EJ61403	10/19/06	10/19/06	EPA 300.0	

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

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (6J12013-01) Water									
Calcium	**495**	4.05	mg/L	50	EJ61604	10/13/06	10/16/06	EPA 6010B	
Magnesium	**233**	1.80	"	"	"	"	"	"	
Potassium	**275**	3.00	"	"	"	"	"	"	
Sodium	**7390**	43.0	"	1000	"	"	"	"	
Monitor Well #2 (6J12013-02) Water									
Calcium	**370**	4.05	mg/L	50	EJ61604	10/13/06	10/16/06	EPA 6010B	
Magnesium	**184**	1.80	"	"	"	"	"	"	
Potassium	**179**	3.00	"	"	"	"	"	"	
Sodium	**6410**	43.0	"	1000	"	"	"	"	
Monitor Well #3 (6J12013-03) Water									
Calcium	**595**	4.05	mg/L	50	EJ61604	10/13/06	10/16/06	EPA 6010B	
Magnesium	**328**	1.80	"	"	"	"	"	"	
Potassium	**360**	3.00	"	"	"	"	"	"	
Sodium	**9300**	43.0	"	1000	"	"	"	"	

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

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 EJ61407 - EPA 5030C (GC)										
Blank (EJ61407-BLK1)				Prepared: 10/14/06 Analyzed: 10/15/06						
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	*33.5*		*ug/l*	*40.0*		*83.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.0*		*"*	*40.0*		*87.5*	*80-120*			
LCS (EJ61407-BS1)				Prepared: 10/14/06 Analyzed: 10/15/06						
Benzene	0.0451	0.00100	mg/L	0.0500		90.2	80-120			
Toluene	0.0430	0.00100	"	0.0500		86.0	80-120			
Ethylbenzene	0.0513	0.00100	"	0.0500		103	80-120			
Xylene (p/m)	0.0929	0.00100	"	0.100		92.9	80-120			
Xylene (o)	0.0423	0.00100	"	0.0500		84.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*34.4*		*ug/l*	*40.0*		*86.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.8*		*"*	*40.0*		*110*	*80-120*			
Calibration Check (EJ61407-CCV1)				Prepared: 10/14/06 Analyzed: 10/17/06						
Benzene	49.9		ug/l	50.0		99.8	80-120			
Toluene	43.1		"	50.0		86.2	80-120			
Ethylbenzene	42.0		"	50.0		84.0	80-120			
Xylene (p/m)	83.7		"	100		83.7	80-120			
Xylene (o)	41.2		"	50.0		82.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.1*		*"*	*40.0*		*90.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.3*		*"*	*40.0*		*85.8*	*80-120*			
Matrix Spike (EJ61407-MS1)	**Source: 6J12015-01**			Prepared: 10/14/06 Analyzed: 10/17/06						
Benzene	0.0501	0.00100	mg/L	0.0500	ND	100	80-120			
Toluene	0.0440	0.00100	"	0.0500	ND	88.0	80-120			
Ethylbenzene	0.0416	0.00100	"	0.0500	ND	83.2	80-120			
Xylene (p/m)	0.0914	0.00100	"	0.100	ND	91.4	80-120			
Xylene (o)	0.0427	0.00100	"	0.0500	ND	85.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.5*		*ug/l*	*40.0*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.2*		*"*	*40.0*		*100*	*80-120*			

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 EJ61407 - EPA 5030C (GC)										
Matrix Spike Dup (EJ61407-MSD1)	**Source: 6J12015-01**			Prepared: 10/14/06 Analyzed: 10/17/06						
Benzene	0.0502	0.00100	mg/L	0.0500	ND	100	80-120	0.00	20	
Toluene	0.0442	0.00100	"	0.0500	ND	88.4	80-120	0.454	20	
Ethylbenzene	0.0412	0.00100	"	0.0500	ND	82.4	80-120	0.966	20	
Xylene (p/m)	0.0913	0.00100	"	0.100	ND	91.3	80-120	0.109	20	
Xylene (o)	0.0437	0.00100	"	0.0500	ND	87.4	80-120	2.31	20	
Surrogate: a,a,a-Trifluorotoluene	*35.4*		*ug/l*	*40.0*		*88.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.0*		*"*	*40.0*		*102*	*80-120*			

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

Project: EME Jct. D-1 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61311 - General Preparation (WetChem)										
Blank (EJ61311-BLK1)				Prepared & Analyzed: 10/13/06						
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
LCS (EJ61311-BS1)				Prepared: 10/13/06 Analyzed: 10/20/06						
Bicarbonate Alkalinity	196	2.00	mg/L	200		98.0	85-115			
Duplicate (EJ61311-DUP1)		**Source: 6J12011-01**		Prepared & Analyzed: 10/13/06						
Total Alkalinity	238	2.00	mg/L		242			1.67	20	
Reference (EJ61311-SRM1)				Prepared & Analyzed: 10/13/06						
Total Alkalinity	250		mg/L	250		100	90-110			
Batch EJ61403 - General Preparation (WetChem)										
Blank (EJ61403-BLK1)				Prepared & Analyzed: 10/19/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EJ61403-BS1)				Prepared & Analyzed: 10/19/06						
Sulfate	9.55	0.500	mg/L	10.0		95.5	80-120			
Chloride	9.62	0.500	"	10.0		96.2	80-120			
Calibration Check (EJ61403-CCV1)				Prepared & Analyzed: 10/19/06						
Chloride	10.5		mg/L	10.0		105	80-120			
Sulfate	10.1		"	10.0		101	80-120			

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

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ61403 - General Preparation (WetChem)										
Duplicate (EJ61403-DUP1)		**Source: 6J12011-01**		Prepared & Analyzed: 10/19/06						
Chloride	1430	25.0	mg/L		1430			0.00	20	
Sulfate	291	25.0	"		308			5.68	20	
Duplicate (EJ61403-DUP2)		**Source: 6J12016-02**		Prepared & Analyzed: 10/19/06						
Chloride	690	12.5	mg/L		692			0.289	20	
Sulfate	236	12.5	"		237			0.423	20	
Matrix Spike (EJ61403-MS1)		**Source: 6J12011-01**		Prepared & Analyzed: 10/19/06						
Sulfate	781	25.0	mg/L	500	308	94.6	80-120			
Chloride	2040	25.0	"	500	1430	122	80-120			S-07
Matrix Spike (EJ61403-MS2)		**Source: 6J12016-02**		Prepared & Analyzed: 10/19/06						
Chloride	979	12.5	mg/L	250	692	115	80-120			
Sulfate	476	12.5	"	250	237	95.6	80-120			
Batch EJ61404 - Filtration Preparation										
Blank (EJ61404-BLK1)				Prepared: 10/14/06 Analyzed: 10/15/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EJ61404-DUP1)		**Source: 6J12011-01**		Prepared: 10/14/06 Analyzed: 10/15/06						
Total Dissolved Solids	3380	10.0	mg/L		3260			3.61	5	
Duplicate (EJ61404-DUP2)		**Source: 6J12016-02**		Prepared: 10/14/06 Analyzed: 10/15/06						
Total Dissolved Solids	1850	10.0	mg/L		1900			2.67	5	

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

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 EJ61604 - 6010B/No Digestion										
Blank (EJ61604-BLK1)				Prepared: 10/13/06 Analyzed: 10/16/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EJ61604-CCV1)				Prepared: 10/13/06 Analyzed: 10/16/06						
Calcium	1.99		mg/L	2.00		99.5	85-115			
Magnesium	2.20		"	2.00		110	85-115			
Potassium	1.94		"	2.00		97.0	85-115			
Sodium	1.79		"	2.00		89.5	85-115			
Duplicate (EJ61604-DUP1)	**Source: 6J12001-04**			Prepared: 10/13/06 Analyzed: 10/16/06						
Calcium	0.426	0.0810	mg/L		0.427			0.234	20	
Magnesium	0.432	0.0360	"		0.422			2.34	20	
Potassium	0.596	0.0600	"		0.582			2.38	20	
Sodium	0.890	0.0430	"		0.866			2.73	20	

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: 10/24/2006

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.

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

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505) 631-9310

Email: rozanne@valornet.com

Project Name: EME Junction D-1 Leak

Project Number:

Project Loc: T20S-R36E-Sec1D, Lea County NM

PO Number:

Analyze For: TCLP: / TOTAL: X (BTEX)

LAB # (lab use only) 6J12003	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl (2) 40 ml glass vials	NaOH	H_2SO_4	None (1) 1 Liter HDPE	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify)	TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids				RUSH TAT (Pre-Schedule)	Standard TAT
-01	Monitor Well #1	10/10/2006	11:00	3	X		2			1		X					X	X					X			X					X
-02	Monitor Well #2	10/10/2006	9:25	3	X		2			1		X					X	X					X			X					X
-03	Monitor Well #3	10/10/2006	8:05	3	X		2			1		X					X	X					X			X					X

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	10/12/06	4:00			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			[signature]	10/12/06	4:00

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt:
Laboratory Comments: 2.0

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ent: Rice DP

te/ Time: 10/12/06 4:00

o ID #: 6512013

tials: CK

Sample Receipt Checklist

					Client Initials
	Temperature of container/ cooler?	Yes	No	2.0 °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

ENVIRONMENTAL LAB OF

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. D-1 Leak

Project Number: None Given

Location: T20S-R36E-SecD 1, Lea County NM

Lab Order Number: 6L27020

Report Date: 01/05/07

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-# 4	6L27020-01	Water	12/22/06 09:10	12-27-2006 15:45

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

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

Project: EME Jct. D-1 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-# 4 (6L27020-01) Water									
Benzene	ND	0.00100	mg/L	1	EL63102	12/31/06	01/02/07	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		*102 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.0 %*		*80-120*		"	"	"	

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

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-# 4 (6L27020-01) Water									
Total Alkalinity	**480**	20.0	mg/L	10	EL62804	12/28/06	12/28/06	EPA 310.1M	B
Chloride	**12900**	250	"	500	EL62904	12/29/06	12/29/06	EPA 300.0	
Total Dissolved Solids	**22700**	10.0	"	1	EL62801	12/28/06	12/29/06	EPA 160.1	
Sulfate	**4440**	250	"	500	EL62904	12/29/06	12/29/06	EPA 300.0	

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

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

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-# 4 (6L27020-01) Water									
Calcium	**472**	20.2	mg/L	250	EL62806	12/28/06	12/28/06	EPA 6010B	
Magnesium	**279**	9.00	"	"	"	"	"	"	
Potassium	**210**	3.00	"	50	"	"	"	"	
Sodium	**10200**	215	"	5000	"	"	"	"	

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

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 EL63102 - EPA 5030C (GC)										
Blank (EL63102-BLK1)				Prepared: 12/31/06 Analyzed: 01/01/07						
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	*32.5*		*ug/l*	*40.0*		*81.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.2*		*"*	*40.0*		*88.0*	*80-120*			
LCS (EL63102-BS1)				Prepared: 12/31/06 Analyzed: 01/01/07						
Benzene	0.0421	0.00100	mg/L	0.0500		84.2	80-120			
Toluene	0.0413	0.00100	"	0.0500		82.6	80-120			
Ethylbenzene	0.0424	0.00100	"	0.0500		84.8	80-120			
Xylene (p/m)	0.0832	0.00100	"	0.100		83.2	80-120			
Xylene (o)	0.0410	0.00100	"	0.0500		82.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*32.0*		*ug/l*	*40.0*		*80.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.0*		*"*	*40.0*		*110*	*80-120*			
Calibration Check (EL63102-CCV1)				Prepared: 12/31/06 Analyzed: 01/02/07						
Benzene	46.4		ug/l	50.0		92.8	80-120			
Toluene	47.2		"	50.0		94.4	80-120			
Ethylbenzene	47.9		"	50.0		95.8	80-120			
Xylene (p/m)	91.8		"	100		91.8	80-120			
Xylene (o)	45.2		"	50.0		90.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.2*		*"*	*40.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.1*		*"*	*40.0*		*82.8*	*80-120*			
Matrix Spike (EL63102-MS1)	**Source: 6L22002-44**			Prepared: 12/31/06 Analyzed: 01/02/07						
Benzene	0.0468	0.00100	mg/L	0.0500	ND	93.6	80-120			
Toluene	0.0489	0.00100	"	0.0500	ND	97.8	80-120			
Ethylbenzene	0.0468	0.00100	"	0.0500	ND	93.6	80-120			
Xylene (p/m)	0.108	0.00100	"	0.100	ND	108	80-120			
Xylene (o)	0.0517	0.00100	"	0.0500	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.1*		*ug/l*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.0*		*"*	*40.0*		*97.5*	*80-120*			

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

Project: EME Jct. D-1 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL63102 - EPA 5030C (GC)										
Matrix Spike Dup (EL63102-MSD1)	**Source: 6L22002-44**			Prepared: 12/31/06 Analyzed: 01/02/07						
Benzene	0.0587	0.00100	mg/L	0.0500	ND	117	80-120	22.2	20	R
Toluene	0.0598	0.00100	"	0.0500	ND	120	80-120	20.4	20	R
Ethylbenzene	0.0579	0.00100	"	0.0500	ND	116	80-120	21.4	20	R
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	10.5	20	
Xylene (o)	0.0596	0.00100	"	0.0500	ND	119	80-120	14.4	20	
Surrogate: a,a,a-Trifluorotoluene	*46.9*		*ug/l*	*40.0*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.7*		*"*	*40.0*		*117*	*80-120*			

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

Project: EME Jct. D-1 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL62801 - Filtration Preparation										
Blank (EL62801-BLK1)				Prepared: 12/28/06 Analyzed: 12/29/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EL62801-DUP1)	**Source: 6L27020-01**			Prepared: 12/28/06 Analyzed: 12/29/06						
Total Dissolved Solids	26600	10.0	mg/L		22700			15.8	20	
Batch EL62804 - General Preparation (WetChem)										
Blank (EL62804-BLK1)				Prepared & Analyzed: 12/28/06						
Total Alkalinity	6.00	4.00	mg/L							B
LCS (EL62804-BS1)				Prepared & Analyzed: 12/28/06						
Total Alkalinity	180	4.00	mg/L	200		90.0	85-115			B
Bicarbonate Alkalinity	180	4.00	"	200		90.0	85-115			B
Duplicate (EL62804-DUP1)	**Source: 6L27020-01**			Prepared & Analyzed: 12/28/06						
Total Alkalinity	510	20.0	mg/L		480			6.06	20	B
Reference (EL62804-SRM1)				Prepared & Analyzed: 12/28/06						
Total Alkalinity	244	4.00	mg/L	250		97.6	90-110			B
Batch EL62904 - General Preparation (WetChem)										
Blank (EL62904-BLK1)				Prepared & Analyzed: 12/29/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

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

Project: EME Jct. D-1 Leak
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL62904 - General Preparation (WetChem)										
LCS (EL62904-BS1)				Prepared & Analyzed: 12/29/06						
Sulfate	10.1	0.500	mg/L	10.0		101	80-120			
Chloride	10.0	0.500	"	10.0		100	80-120			
Calibration Check (EL62904-CCV1)				Prepared & Analyzed: 12/29/06						
Sulfate	12.0		mg/L	10.0		120	80-120			
Chloride	9.07		"	10.0		90.7	80-120			
Duplicate (EL62904-DUP1)	**Source: 6L27006-01**			Prepared & Analyzed: 12/29/06						
Sulfate	241	25.0	mg/L		234			2.95	20	
Chloride	750	25.0	"		730			2.70	20	
Duplicate (EL62904-DUP2)	**Source: 6L27017-09**			Prepared & Analyzed: 12/29/06						
Chloride	66.0	5.00	mg/L		68.0			2.99	20	
Sulfate	76.7	5.00	"		77.7			1.30	20	
Matrix Spike (EL62904-MS1)	**Source: 6L27006-01**			Prepared & Analyzed: 12/29/06						
Chloride	1320	25.0	mg/L	500	730	118	80-120			
Sulfate	765	25.0	"	500	234	106	80-120			
Matrix Spike (EL62904-MS2)	**Source: 6L27017-09**			Prepared & Analyzed: 12/29/06						
Chloride	175	5.00	mg/L	100	68.0	107	80-120			
Sulfate	178	5.00	"	100	77.7	100	80-120			

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 EL62806 - 6010B/No Digestion										
Blank (EL62806-BLK1)				Prepared & Analyzed: 12/28/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EL62806-CCV1)				Prepared & Analyzed: 12/28/06						
Calcium	2.00		mg/L	2.00		100	85-115			
Magnesium	2.11		"	2.00		106	85-115			
Potassium	1.72		"	2.00		86.0	85-115			
Sodium	1.89		"	2.00		94.5	85-115			
Duplicate (EL62806-DUP1)	**Source: 6L27020-01**			Prepared & Analyzed: 12/28/06						
Calcium	515	20.2	mg/L		472			8.71	20	
Magnesium	302	9.00	"		279			7.92	20	
Potassium	238	3.00	"		210			12.5	20	
Sodium	13100	215	"		10200			24.9	20	

Notes and Definitions

R	The RPD exceeded the method control limit. The individual analyte QA/QC recoveries, however, were within acceptance limits.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
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: 1/5/2007

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.

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

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: EME Junction D-1 Leak

Project #:

Project Loc: T20S-R36E-SecD 1 ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 6L 27020

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl (2) 40 ml glass vials	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP:	TOTAL: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #4			12/22/2006	9:10		3	X		2				1		GW						X	X					X						X

Special Instructions:
Please email to : kpope@riceswd.com mfranks@riceswd.com rozanne@valornet.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	12-27-06	1545			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Jessica McMurrey	12-27-06	1545

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Operating

Date/ Time: 12-27-06 / 1545

Lab ID #: GL 27020 -

Initials: MT -

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	2.0 °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	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	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