

1R - 427-17

Annual GW Mon. REPORTS

DATE:
2007



Whole Earth Environmental, Inc.

2103 Arbor Cove
Katy, Tx. 77494
281.394.2050
whearth@msn.com

January 22, 2008

NMOCD
1220 South St. Francis Drive
Sante Fe, NM 87505

Attn: Edward Hansen

**Re: 2007 Monitor Well Report / Sampling Summary
Sarah Phillips EOL
Unit "K", Sec. 33, T-19-S, R-37 E
NMOCD Case # 1RP-427-17**

Dear Mr. Hansen:

Enclosed, please find the 2007 Annual Ground Water Monitoring Report for the Rice Operating Company Sarah Phillips EOL site. The report includes the following information:

- Summary Tables of all laboratory results and depths to ground water
- Laboratory analytical reports
- CD version of the above

During the course of the year, the excavation and remediation of the surface impact site was completed with a report submitted to the NMOCD on July 10th. In 2008, we are planning to advance a second monitor well down gradient to delineate the lateral extent of the groundwater impact.

Thank you again for your interest in this project; if you've any questions or comments, please do not hesitate to get in touch with me or Kristin Pope at 505.393.9174

Warmest personal regards,

Mike Griffin
President
Whole Earth Environmental, Inc.

RECEIVED
2008 APR 22 PM 3 24



Executive Summary

Location

The site is located approximately one mile southeast of Monument, New Mexico on fee land in Unit K, Section 33, Township 19-S, Range 37-E.

Site History

The EME Sarah Phillips EOL (end of line) site is situated adjacent to an Amerada Hess battery that has been dismantled and removed prior to 2002.

Previous Site Investigations

The initial investigation occurred on November 3rd, 2003 by excavating to a depth of approximately 14' below ground surface (bgs). Upon discovery, the site was initially field tested for VOC's and chlorides and found to contain no detectable hydrocarbon involvement but elevated chlorides undiminished in concentration to the 14' excavation depth. The initial junction box disclosure report was submitted to the NMOCD on December 30, 2003.

Further vertical and lateral delineation of the site occurred on November 16, 2005 through a series of 18' vertical excavations which revealed that the contaminant plume within the soil was essentially vertical in profile covering an area of approximately 12' in diameter and presumably extending to the groundwater. A monitor well was advanced on October 6, 2006 at the center of the contaminant plume and found elevated chlorides and non-detectable BTEX concentrations within the groundwater at a depth of 28' bgs.

The attached boring log describes the soil profile as sandy with thin bands of sandy clay and unconsolidated caliche.

Soil Remediation

In accordance with the approved remediation plan, PR-77, the area of 120' X 100' was gridded on 20' centers and composite soil samples were collected to a depth at each grid point to a depth of 0-24" bgs. The soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for electrical conductivity testing. The test results were incorporated into Surfer and a histogram developed to determine the true areal extent of contamination and the location of any "hot spots" within the tested grid.

Two such “hot spots” were discovered to the north and northeast of the monitor well and were excavated to depths between 6-10’ bgs. with a total of 60 cubic yards of the material sent to commercial disposal at Sundance Services. The two areas were backfilled with fresh topsoils. The entire 120’ X 100’ area was excavated to a minimum depth of 4’ bgs and a geosynthetic clay liner, (.75lb./sq. ft. Denefix EC) was set in place at the 4’ depth.

The area was backfilled with the excavated soils mixed with four tons of organics and 108 cubic yards of fresh soils. The area was finally re-contoured, compacted, watered and seeded with native grasses. ROC continues to monitor for growth.

Groundwater

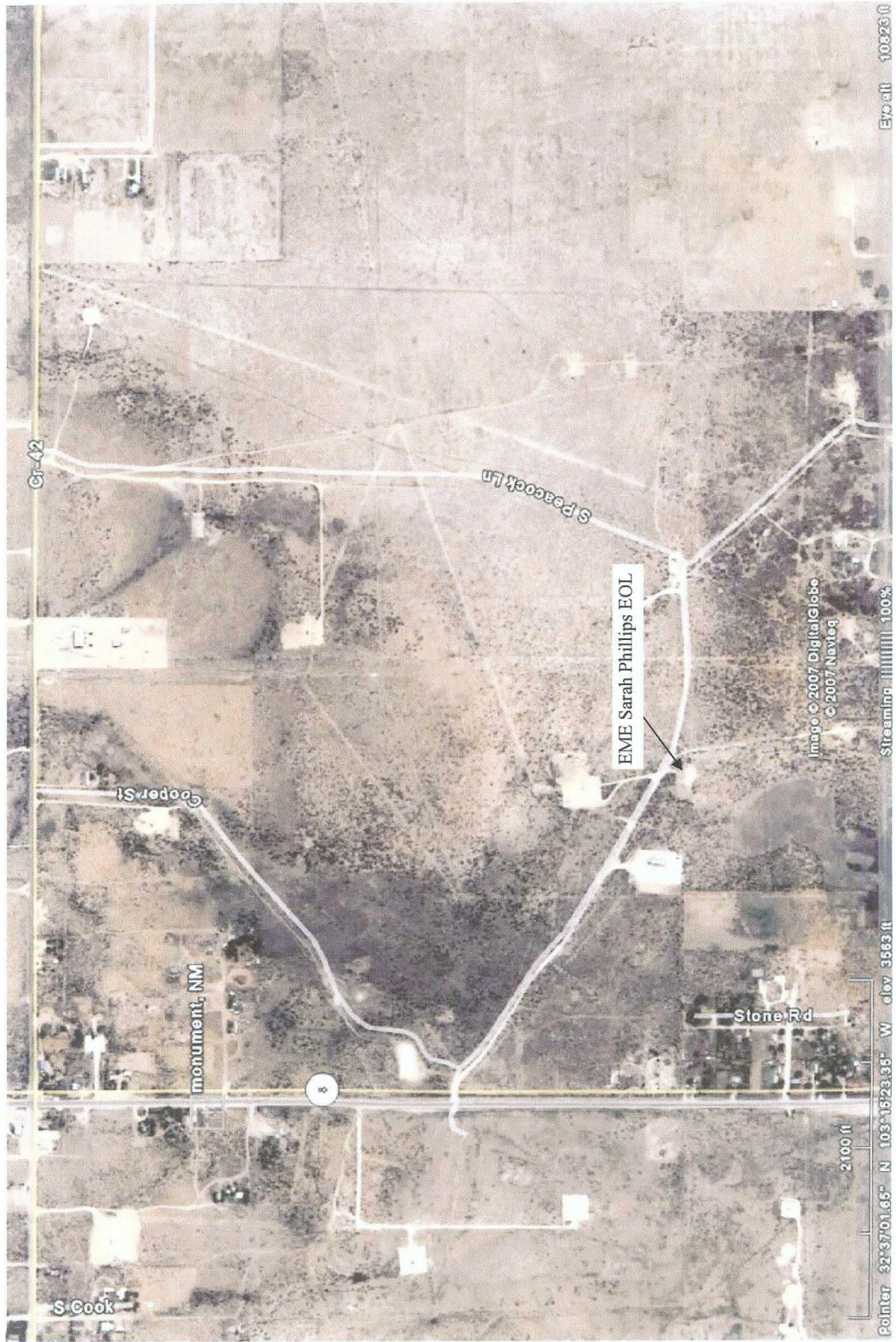
Rice Operating will advance a second monitor well by the end of the second quarter, 2008 in order to determine the lateral extent of chloride contamination within the groundwater. The well is to be situated approximately eight hundred feet southeast of the existing MW-1.

Rice Operating will continue to monitor the quality of the groundwater quarterly and will report the results annually to the NMOCD until final closure.



Exhibit Index

1. Satellite Zoom Out
2. Satellite Zoom In
3. Survey Map of Location
4. Gradient Survey
5. Satellite View of Location Showing Well Locations and Chloride Concentrations





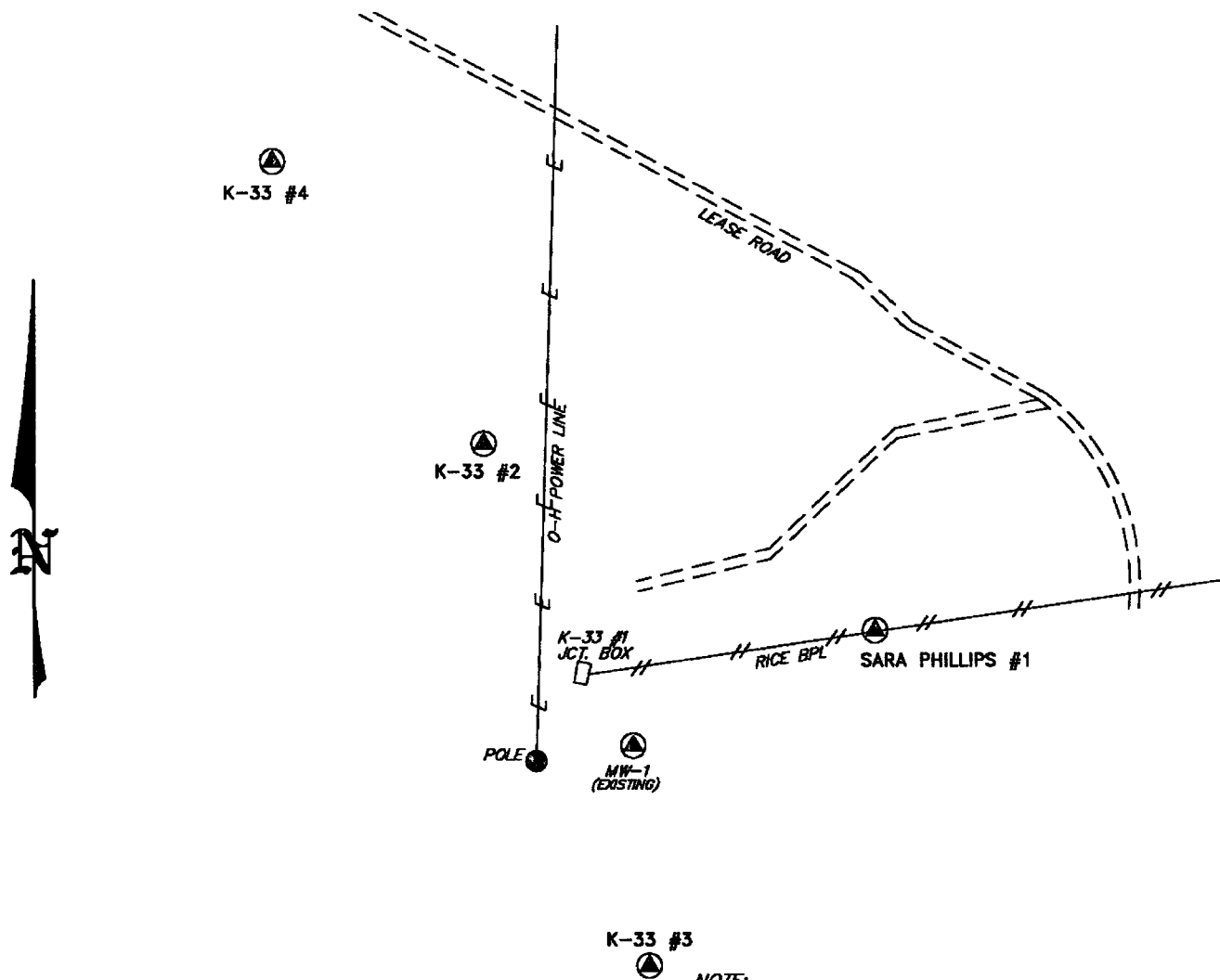
K-33-1 Sarah
Phillips EOL

Google

Image © 2005 DigitalGlobe



SECTION 33, TOWNSHIP 19 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

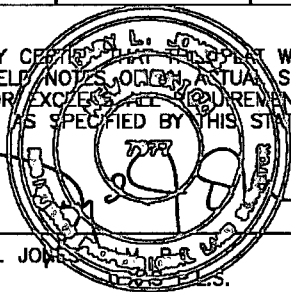


NEW MEXICO STATE PLANE COORDINATES (NAD83)
TOP CASING

NOTE:
ELEVATIONS ARE ON BLACK MARK
ON NORTH SIDE OF PVC CASING.

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	TOP CASING	GROUND	CONCRETE
SARA PHILLIPS #1	588405.631	872331.319	N 32°36'46.7"	W 103°15'30.2"	3563.07'	3560.80'	
K-33 #1	588339.470	872191.720	N 32°36'46.1"	W 103°15'31.8"	3563.86'	3560.50'	
K-33 #2	588512.766	872105.535	N 32°36'47.8"	W 103°15'32.8"	3562.84'	3560.15'	
K-33 #3	588213.537	872201.136	N 32°36'44.8"	W 103°15'31.7"	3562.87'	3560.75'	
K-33 #4	588674.6	871983.8	N 32°36'49.4"	W 103°15'34.2"	3562.74'	3560.30'	3560.64'

I HEREBY CERTIFY THAT THIS MAP WAS PREPARED
FROM FIELD NOTES, OR FROM ACTUAL SURVEY AND
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND
SURVEYS AS SPECIFIED BY THIS STATE.



GARY L. JONES

No. 7977
No. 5074

100 0 100 200 FEET

RICE OPERATING COMPANY

REF: MONITOR WELLS

MONITOR WELLS LOCATED IN

SECTION 33, TOWNSHIP 19 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 18910

Drawn By: K. GOAD

Date: 12-11-2007

Disk: KJG - RC18910MW.DWG

Survey Date: 12-04-2007

Sheet 2 of 2 Sheets

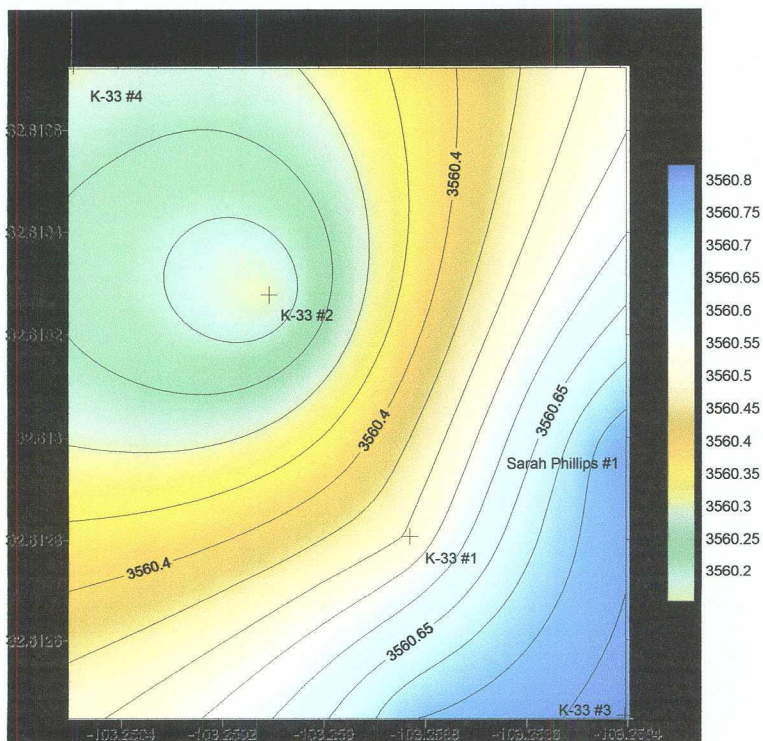
Longitude, E	Latitude, N	Elevation, G
-103.258389	32.612972	3560.80
-103.258833	32.612806	3560.50
-103.259111	32.613278	3560.15
-103.258805	32.612444	3560.75
-103.259500	32.613722	3560.30

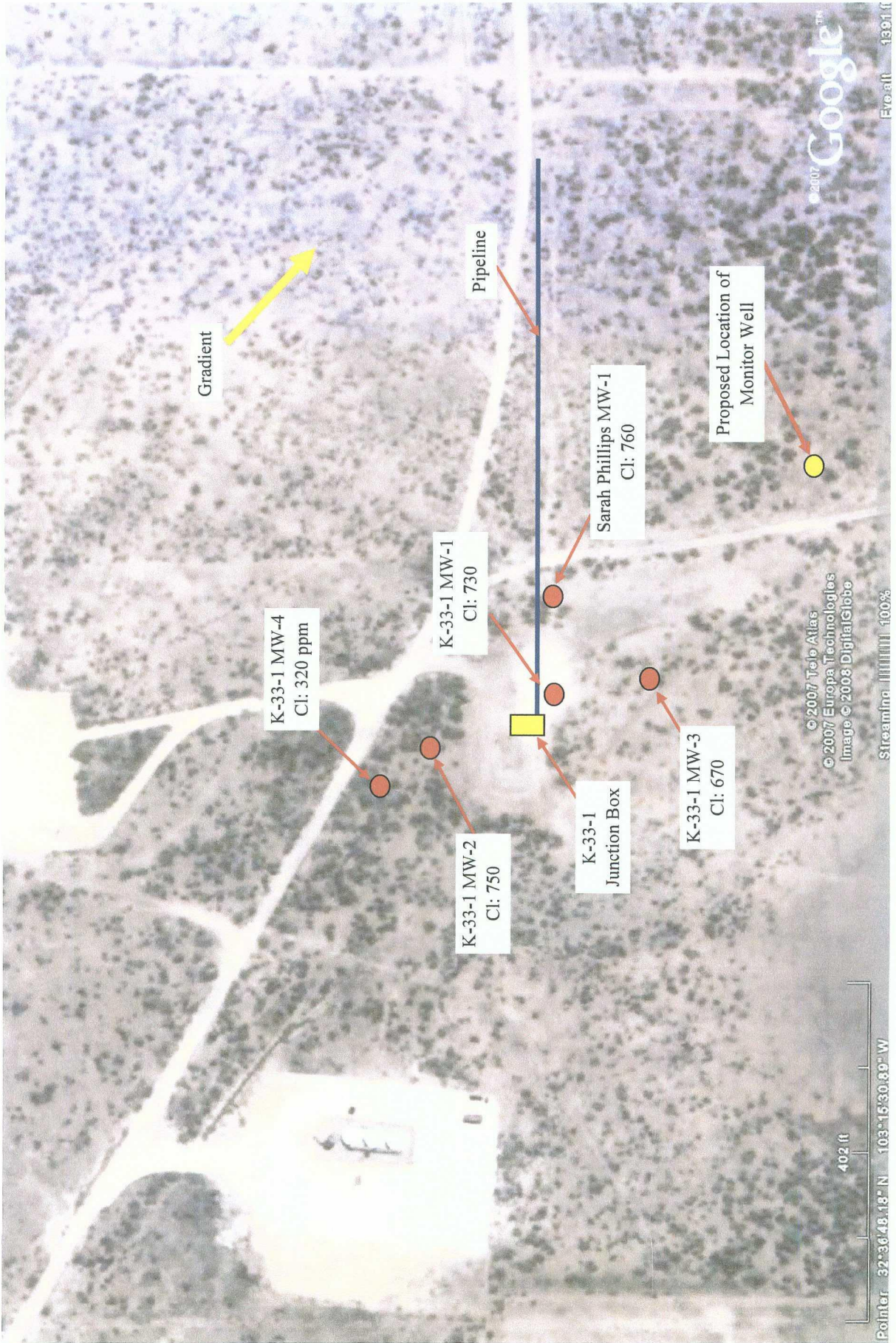
Well	Easting	Northing	Elevation, C
Sarah Phillips #1	872331.319	588405.631	3563.07
K-33 #1	872191.720	588339.470	3563.86
K-33 #2	872105.535	588512.766	3562.84
K-33 #3	872301.136	588213.537	3562.87
K-33 #4	871983.800	588674.600	3562.74

Sarah Phillips Study Area

Latitude - Longitude Coordinates

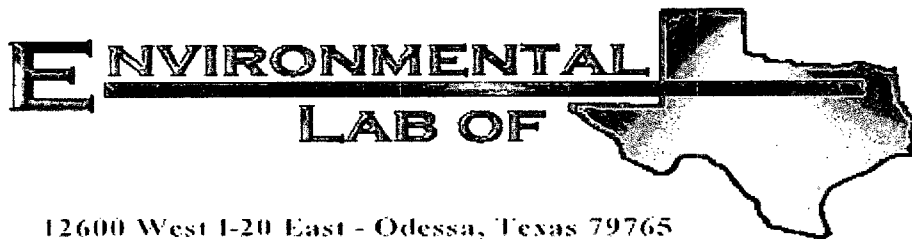
Surface Elevations in Feet Above MSL





**Rice Operating Company
Sarah Phillips EOL
NMOCD Case 1RP 427-17
Unit 'K', Sec. 33, T19S, R37E**

MW #	Depth to Water (Ft.)	Total Depth (Ft.)	Well Volume (Gal.)	Sample Date	Chlorides	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylene	Sulfate
1	30.21	45.28	2.40	01/29/07	871	2,060	<0.002	<0.002	<0.002	<0.002	167
1	30.10	45.28	2.40	04/13/07	748	2,250	<0.002	<0.002	<0.002	<0.002	99.6
1	30.10	45.28	2.40	07/17/07	725	2,260	<0.002	<0.002	<0.002	<0.002	74.3
1	30.73	45.28	2.30	10/02/07	760	1,881	<0.002	<0.002	<0.002	<0.002	67.2



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Sarah Phillips EOL

Project Number: None Given

Location: T19S R37E Sec33K Lea Co., NM

Lab Order Number: 7B01018

Report Date: 02/08/07

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

Project: EME Sarah Phillips EOL
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	7B01018-01	Water	01/29/07 13:05	02-01-2007 15:42

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

Project: EME Sarah Phillips EOL
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 (7B01018-01) Water									
Benzene	ND	0.00100	mg/L	1	EB70501	02/05/07	02/07/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00268	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: EME Sarah Phillips EOL
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 (7B01018-01) Water									
Total Alkalinity	410	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	871	12.5	"	25	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	2060	10.0	"	1	EB70611	02/05/07	02/06/07	EPA 160.1	
Sulfate	167	12.5	"	25	EB70208	02/02/07	02/03/07	EPA 300.0	

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

Project: EME Sarah Phillips EOL
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 (7B01018-01) Water									
Calcium	161	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 6010B	
Magnesium	131	1.80	"	"	"	"	"	"	
Potassium	11.8	0.600	"	10	"	"	"	"	
Sodium	278	4.30	"	100	"	"	"	"	

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Page 4 of 10

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

Project: EME Sarah Phillips EOL
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 EB70501 - EPA 5030C (GC)

Blank (EB70501-BLK1)

Prepared: 02/05/07 Analyzed: 02/06/07

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	47.2		ug/l	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	35.0		"	40.0		87.5	80-120			

LCS (EB70501-BS1)

Prepared: 02/05/07 Analyzed: 02/06/07

Benzene	0.0405	0.00100	mg/L	0.0500		81.0	80-120			
Toluene	0.0420	0.00100	"	0.0500		84.0	80-120			
Ethylbenzene	0.0425	0.00100	"	0.0500		85.0	80-120			
Xylene (p/m)	0.0857	0.00100	"	0.100		85.7	80-120			
Xylene (o)	0.0414	0.00100	"	0.0500		82.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.3		ug/l	40.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

Calibration Check (EB70501-CCV1)

Prepared: 02/05/07 Analyzed: 02/07/07

Benzene	42.8		ug/l	50.0		85.6	80-120			
Toluene	42.5		"	50.0		85.0	80-120			
Ethylbenzene	45.8		"	50.0		91.6	80-120			
Xylene (p/m)	81.2		"	100		81.2	80-120			
Xylene (o)	42.1		"	50.0		84.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.8		"	40.0		120	80-120			
Surrogate: 4-Bromofluorobenzene	39.7		"	40.0		99.2	80-120			

Matrix Spike (EB70501-MS1)

Source: 7B01002-01

Prepared: 02/05/07 Analyzed: 02/07/07

Benzene	0.0430	0.00100	mg/L	0.0500	ND	86.0	80-120			
Toluene	0.0447	0.00100	"	0.0500	ND	89.4	80-120			
Ethylbenzene	0.0474	0.00100	"	0.0500	ND	94.8	80-120			
Xylene (p/m)	0.0910	0.00100	"	0.100	ND	91.0	80-120			
Xylene (o)	0.0418	0.00100	"	0.0500	ND	83.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.3		ug/l	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	47.2		"	40.0		118	80-120			

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

Project: EME Sarah Phillips EOL
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 EB70501 - EPA 5030C (GC)

Matrix Spike Dup (EB70501-MSD1)

Source: 7B01002-01

Prepared: 02/05/07 Analyzed: 02/07/07

Benzene	0.0401	0.00100	mg/L	0.0500	ND	80.2	80-120	6.98	20	
Toluene	0.0403	0.00100	"	0.0500	ND	80.6	80-120	10.4	20	
Ethylbenzene	0.0490	0.00100	"	0.0500	ND	98.0	80-120	3.32	20	
Xylene (p/m)	0.0873	0.00100	"	0.100	ND	87.3	80-120	4.15	20	
Xylene (o)	0.0430	0.00100	"	0.0500	ND	86.0	80-120	2.83	20	
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.7		"	40.0		112	80-120			

Environmental Lab of Texas

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

Project: EME Sarah Phillips EOL
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 EB70208 - General Preparation (WetChem)

Blank (EB70208-BLK1)

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

Chloride	ND	0.500	mg/L							
Sulfate	0.459	0.500	"							B, J

LCS (EB70208-BS1)

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

Sulfate	11.6	0.500	mg/L	10.0		116	80-120			
Chloride	10.7	0.500	"	10.0		107	80-120			

Calibration Check (EB70208-CCV1)

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

Sulfate	11.8		mg/L	10.0		118	80-120			
Chloride	10.5		"	10.0		105	80-120			

Duplicate (EB70208-DUP1)

Source: 7B01017-01

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

Sulfate	93.0	5.00	mg/L		96.4			3.59	20	
Chloride	127	5.00	"		132			3.86	20	

Duplicate (EB70208-DUP2)

Source: 7B01020-02

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

Sulfate	2410	50.0	mg/L		2400			0.416	20	
Chloride	2220	50.0	"		2240			0.897	20	

Matrix Spike (EB70208-MS1)

Source: 7B01017-01

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

Sulfate	204	5.00	mg/L	100	96.4	108	80-120			
Chloride	240	5.00	"	100	132	108	80-120			

Matrix Spike (EB70208-MS2)

Source: 7B01020-02

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

Sulfate	3500	50.0	mg/L	1000	2400	110	80-120			
Chloride	3330	50.0	"	1000	2240	109	80-120			

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122 W. Taylor
Hobbs NM, 88240

Project: EME Sarah Phillips EOL
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 EB70209 - General Preparation (WetChem)

Blank (EB70209-BLK1)

Prepared & Analyzed: 02/02/07

Total Alkalinity ND 2.00 mg/L

Duplicate (EB70209-DUP1)

Source: 7B01016-01

Prepared & Analyzed: 02/02/07

Total Alkalinity 310 2.00 mg/L 314 1.28 20

Reference (EB70209-SRM1)

Prepared & Analyzed: 02/02/07

Total Alkalinity 246 mg/L 250 98.4 90-110

Batch EB70611 - Filtration Preparation

Blank (EB70611-BLK1)

Prepared: 02/05/07 Analyzed: 02/06/07

Total Dissolved Solids ND 10.0 mg/L

Duplicate (EB70611-DUP1)

Source: 7B01016-03

Prepared: 02/05/07 Analyzed: 02/06/07

Total Dissolved Solids 1920 10.0 mg/L 1870 2.64 20

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

Project: EME Sarah Phillips EOL
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

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

Batch EB70612 - 6010B/No Digestion

Blank (EB70612-BLK1)

Prepared & Analyzed: 02/06/07

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

Calibration Check (EB70612-CCV1)

Prepared & Analyzed: 02/06/07

Calcium	1.79		mg/L	2.00	89.5	85-115
Magnesium	1.98		"	2.00	99.0	85-115
Potassium	1.80		"	2.00	90.0	85-115
Sodium	1.74		"	2.00	87.0	85-115

Duplicate (EB70612-DUP1)

Source: 7B01016-01

Prepared & Analyzed: 02/06/07

Calcium	172	4.05	mg/L	176	2.30	20
Magnesium	111	1.80	"	109	1.82	20
Potassium	17.0	0.600	"	16.8	1.18	20
Sodium	306	4.30	"	305	0.327	20

Environmental Lab of Texas

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

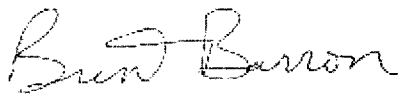
Project: EME Sarah Phillips EOL
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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:



Date:

2/8/2007

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

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

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

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

Environmental Lab of Texas

A Xenco Laboratories Company

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op.
 Date/ Time: 2-1-07 15:42
 Lab ID #: 17B01018
 Initials: CK

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	Yes	No	4.0 °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

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Sarah Phillips

WELL ID: Monitor Well #1
DATE: January 29, 2007
SAMPLER: Rozanne Johnson

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

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

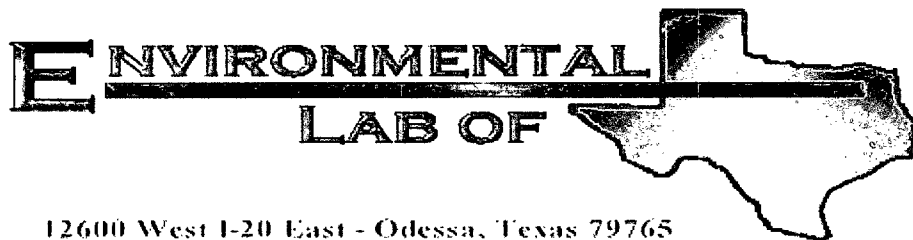
TOTAL DEPTH OF WELL: 45.28 Feet
DEPTH TO WATER: 30.21 Feet
HEIGHT OF WATER COLUMN: 15.07 Feet
WELL VOLUME: 2.4 Gal. 2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
13:05	19.8	3.44	6.97	Pumping Silt to Clear with a Strong Septic Odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

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

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



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Sarah Phillips

Project Number: None Given

Location: T19S R37 Sec33 K ~ Lea County New Mexico

Lab Order Number: 7D18016

Report Date: 04/30/07

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

Project: EME Sarah Phillips
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	7D18016-01	Water	04/13/07 11:15	04-18-2007 14:55

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

Project: EME Sarah Phillips
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 (7D18016-01) Water									
Benzene	0.00148	0.00100	mg/L	1	ED71904	04/19/07	04/20/07	EPA 8021B	
Toluene	0.00197	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00758	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00422	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00194	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		116 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	80-120		"	"	"	"	

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

Project: EME Sarah Phillips
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 (7D18016-01) Water									
Total Alkalinity	452	2.00	mg/L	1	ED71912	04/19/07	04/19/07	EPA 310.1M	
Chloride	748	12.5	"	25	ED72411	04/24/07	04/27/07	EPA 300.0	
Total Dissolved Solids	2250	10.0	"	1	ED71911	04/19/07	04/20/07	EPA 160.1	
Sulfate	99.6	12.5	"	25	ED72411	04/24/07	04/27/07	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 Sarah Phillips
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 (7D18016-01) Water									
Calcium	185	4.05	mg/L	50	ED72703	04/27/07	04/27/07	EPA 6010B	
Magnesium	138	1.80	"	"	"	"	"	"	
Potassium	10.8	0.600	"	10	"	"	"	"	
Sodium	312	4.30	"	100	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: EME Sarah Phillips
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 ED71904 - EPA 5030C (GC)

Blank (ED71904-BLK1)

Prepared: 04/19/07 Analyzed: 04/20/07

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	53.3		ug/l	50.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	46.6		"	50.0		93.2	80-120			

LCS (ED71904-BS1)

Prepared: 04/19/07 Analyzed: 04/20/07

Benzene	0.0535	0.00100	mg/L	0.0500		107	80-120			
Toluene	0.0536	0.00100	"	0.0500		107	80-120			
Ethylbenzene	0.0564	0.00100	"	0.0500		113	80-120			
Xylene (p/m)	0.104	0.00100	"	0.100		104	80-120			
Xylene (o)	0.0575	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	55.0		ug/l	50.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	52.2		"	50.0		104	80-120			

Calibration Check (ED71904-CCV1)

Prepared: 04/19/07 Analyzed: 04/20/07

Benzene	59.7		ug/l	50.0		119	80-120			
Toluene	58.1		"	50.0		116	80-120			
Ethylbenzene	59.8		"	50.0		120	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	58.6		"	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	56.8		"	50.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	54.3		"	50.0		109	80-120			

Matrix Spike (ED71904-MS1)

Source: 7D17009-07

Prepared: 04/19/07 Analyzed: 04/23/07

Benzene	0.0540	0.00100	mg/L	0.0500	ND	108	80-120			
Toluene	0.0546	0.00100	"	0.0500	ND	109	80-120			
Ethylbenzene	0.0597	0.00100	"	0.0500	ND	119	80-120			
Xylene (p/m)	0.108	0.00100	"	0.100	ND	108	80-120			
Xylene (o)	0.0594	0.00100	"	0.0500	ND	119	80-120			
Surrogate: a,a,a-Trifluorotoluene	53.4		ug/l	50.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	54.4		"	50.0		109	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 Sarah Phillips
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 ED71904 - EPA 5030C (GC)

Matrix Spike Dup (ED71904-MSD1)

Source: 7D17009-07

Prepared: 04/19/07 Analyzed: 04/23/07

Benzene	0.0531	0.00100	mg/L	0.0500	ND	106	80-120	1.87	20	
Toluene	0.0540	0.00100	"	0.0500	ND	108	80-120	0.922	20	
Ethylbenzene	0.0576	0.00100	"	0.0500	ND	115	80-120	3.42	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	0.930	20	
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120	1.69	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	52.9		ug/l	50.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	53.8		"	50.0		108	80-120			

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 6 of 10

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

Project: EME Sarah Phillips
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 ED71911 - Filtration Preparation

Blank (ED71911-BLK1)

Prepared: 04/19/07 Analyzed: 04/20/07

Total Dissolved Solids ND 10.0 mg/L

Duplicate (ED71911-DUP1)

Source: 7D18006-01

Prepared: 04/19/07 Analyzed: 04/20/07

Total Dissolved Solids 614 10.0 mg/L 674 9.32 20

Duplicate (ED71911-DUP2)

Source: 7D18015-03

Prepared: 04/19/07 Analyzed: 04/20/07

Total Dissolved Solids 1660 10.0 mg/L 1820 9.20 20

Batch ED71912 - General Preparation (WetChem)

Blank (ED71912-BLK1)

Prepared & Analyzed: 04/19/07

Total Alkalinity ND 2.00 mg/L

LCS (ED71912-BS1)

Prepared & Analyzed: 04/19/07

Bicarbonate Alkalinity 172 2.00 mg/L 200 86.0 85-115

Duplicate (ED71912-DUP1)

Source: 7D16033-01

Prepared & Analyzed: 04/19/07

Total Alkalinity 950 2.00 mg/L 1050 10.0 20

Reference (ED71912-SRM1)

Prepared & Analyzed: 04/19/07

Total Alkalinity 246 mg/L 250 98.4 90-110

Batch ED72411 - General Preparation (WetChem)

Blank (ED72411-BLK1)

Prepared: 04/24/07 Analyzed: 04/27/07

Sulfate ND 0.500 mg/L

Chloride ND 0.500 "

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project: EME Sarah Phillips
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 ED72411 - General Preparation (WetChem)

Blank (ED72411-BLK2)

Prepared: 04/24/07 Analyzed: 04/27/07

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

LCS (ED72411-BS1)

Prepared & Analyzed: 04/24/07

Chloride	9.02	0.500	mg/L	10.0		90.2	80-120			
Sulfate	9.66	0.500	"	10.0		96.6	80-120			

Calibration Check (ED72411-CCV1)

Prepared & Analyzed: 04/24/07

Chloride	8.05		mg/L	10.0		80.5	80-120			
Sulfate	11.0		"	10.0		110	80-120			

Duplicate (ED72411-DUP1)

Source: 7D23008-01

Prepared & Analyzed: 04/24/07

Chloride	187	5.00	mg/L		187			0.00	20	
Sulfate	74.3	5.00	"		74.0			0.405	20	

Duplicate (ED72411-DUP2)

Source: 7D18018-06

Prepared: 04/24/07 Analyzed: 04/27/07

Sulfate	492	12.5	mg/L		490			0.407	20	
Chloride	361	12.5	"		367			1.65	20	

Matrix Spike (ED72411-MS1)

Source: 7D23008-01

Prepared & Analyzed: 04/24/07

Chloride	291	5.00	mg/L	100	187	104	80-120			
Sulfate	166	5.00	"	100	74.0	92.0	80-120			

Matrix Spike (ED72411-MS2)

Source: 7D18018-06

Prepared: 04/24/07 Analyzed: 04/27/07

Chloride	631	12.5	mg/L	250	367	106	80-120			
Sulfate	774	12.5	"	250	490	114	80-120			

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

Project: EME Sarah Phillips
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

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

Batch ED72703 - 6010B/No Digestion

Blank (ED72703-BLK1)

Prepared & Analyzed: 04/27/07

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

Calibration Check (ED72703-CCV1)

Prepared & Analyzed: 04/27/07

Calcium	1.90		mg/L	2.00		95.0	85-115			
Magnesium	2.07		"	2.00		104	85-115			
Potassium	1.98		"	2.00		99.0	85-115			
Sodium	2.29		"	2.00		114	85-115			

Duplicate (ED72703-DUP1)

Source: 7D18014-01

Prepared & Analyzed: 04/27/07

Calcium	140	4.05	mg/L		133			5.13	20	
Magnesium	76.4	1.80	"		76.8			0.522	20	
Potassium	15.7	0.600	"		15.6			0.639	20	
Sodium	350	4.30	"		358			2.26	20	

Environmental Lab of Texas

A Xenco Laboratories Company

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

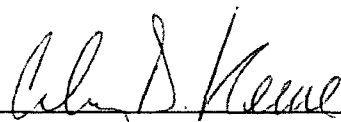
Project: EME Sarah Phillips
Project Number: None Given
Project Manager: Kristin Farris-Pope

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:



Date:

04/30/07

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

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

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

Environmental Lab of Texas
A Xenco Laboratories Company

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Page 10 of 10

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 4-18-07 2:55

Lab ID #: 7D18016

Initials: AL

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 ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Sarah Phillips

WELL ID: Monitor Well #1
DATE: April 13, 2007
SAMPLER: Rozanne Johnson

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

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

TOTAL DEPTH OF WELL: 45.28 Feet
DEPTH TO WATER: 30.10 Feet
HEIGHT OF WATER COLUMN: 15.18 Feet
WELL VOLUME: 2.4 Gal. 2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:15	19.8	3.39	6.71	Pumping Silt to Clear with a Strong Septic Odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

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

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

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Sarah Phillips

WELL ID: Monitor Well #1
DATE: July 17, 2007
SAMPLER: Rozanne Johnson

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

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

TOTAL DEPTH OF WELL: 45.28 Feet
DEPTH TO WATER: 30.10 Feet
HEIGHT OF WATER COLUMN: 15.18 Feet
WELL VOLUME: 2.4 Gal.

2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:15	19.8	3.39	6.71	Pumping Silt to Clear with a Strong Septic Odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

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

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

Analytical Report 286344

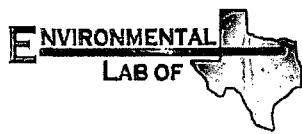
for

Rice Operating Co.

Project Manager: Kristin Pope

EME Sarah Phillips

01-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



01-AUG-07

Project Manager: **Kristin Pope**
Rice Operating Co.
122 West Taylor
Hobbs, NM 88240

Reference: XENCO Report No: **286344**
EME Sarah Phillips
Project Address: T19S R37E Sec 33 K ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 286344. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 286344 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



Certificate of Analysis Summary 286344

Rice Operating Co., Hobbs, NM
Project Name: EME Sarah Phillips

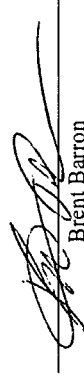


Project Id: Kristin Pope
Contact: T19S R37E Sec 33 K ~ Lea County New N
Date Received in Lab: Fri Jul-20-07 01:45 pm
Report Date: 01-AUG-07
Project Manager: Brent Barron, II

Analysis Requested		Lab Id:	286344-001				
		Field Id:	Monitor Well # 1				
		Depth:					
		Matrix:	WATER				
		Sampled:	Jul-17-07 11:05				
Alkalinity by EPA 310.1		Extracted:					
		Analyzed:	Jul-26-07 11:50				
		Units/RL:	mg/L RL				
Alkalinity, Total (as CaCO ₃)			1820 4.00				
BTEX by EPA 8021B		Extracted:	Jul-24-07 10:00				
		Analyzed:	Jul-24-07 23:22				
		Units/RL:	mg/L RL				
Benzene			ND 0.0050				
Toluene			ND 0.0050				
Ethylbenzene			0.0051 0.0050				
m,p-Xylene			ND 0.0100				
o-Xylene			ND 0.0050				
Total Xylenes			ND				
Total BTEX			0.0051				
Inorganic Anions by EPA 300		Extracted:					
		Analyzed:	Jul-21-07 23:31				
		Units/RL:	mg/L RL				
Chloride			725 12.5				
Sulfate			74.3 12.5				
Metals per ICP by SW846 6010B		Extracted:	Jul-31-07 07:57				
		Analyzed:	Jul-31-07 14:17				
		Units/RL:	mg/L RL				
Calcium			249 1.00				
Magnesium			103 0.100				
Potassium			7.92 2.00				
Sodium			250 5.00				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Certificate of Analysis Summary 286344
Rice Operating Co., Hobbs, NM
Project Name: EME Sarah Phillips



Project Id: **Contact:** Kristin Pope
Project Location: T19S R37E Sec 33 K ~ Lea County New M
Date Received in Lab: Fri Jul-20-07 01:45 pm
Report Date: 01-AUG-07
Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	286344-001				
	Field Id:	Monitor Well # 1				
	Depth:					
	Matrix:	WATER				
Residue, Filterable (TDS) by EPA 160.1	Sampled:	Jul-17-07 11:05				
	Extracted:					
	Analyzed:	Jul-25-07 16:30				
	Units/RL:	mg/L RL				
Total dissolved solids		2260	5.00			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

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5332 Blackberry Drive, Suite 104, San Antonio, TX 78238
2505 N. Falkenburg Rd., Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014

Phone	Fax
(281) 589-0692	(281) 589-0695
(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: EME Sarah Phillips

Work Order #: 286344

Project ID:

Lab Batch #: 701046

Sample: 286343-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0476	0.0500	95	80-120	

Lab Batch #: 701046

Sample: 286343-001 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0472	0.0500	94	80-120	

Lab Batch #: 701046

Sample: 286344-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0464	0.0500	93	80-120	

Lab Batch #: 701046

Sample: 497453-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0413	0.0500	83	80-120	

Lab Batch #: 701046

Sample: 497453-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0411	0.0500	82	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: EME Sarah Phillips

Work Order #: 286344

Project ID:

Lab Batch #: 701209

Sample: 701209-1-BKS

Matrix: Water

Date Analyzed: 07/26/2007

Date Prepared: 07/26/2007

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Alkalinity by EPA 310.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Alkalinity, Total (as CaCO ₃)	ND	400	352	88	80-120	

Lab Batch #: 701046

Sample: 497453-1-BKS

Matrix: Water

Date Analyzed: 07/24/2007

Date Prepared: 07/24/2007

Analyst: CELKEE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Benzene	ND	0.0500	0.0426	85	70-125	
Toluene	ND	0.0500	0.0431	86	70-125	
Ethylbenzene	ND	0.0500	0.0458	92	71-129	
m,p-Xylene	ND	0.1000	0.0818	82	70-131	
o-Xylene	ND	0.0500	0.0431	86	71-133	

Lab Batch #: 700978

Sample: 700978-1-BKS

Matrix: Water

Date Analyzed: 07/21/2007

Date Prepared: 07/21/2007

Analyst: IRO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Chloride	ND	10.0	10.3	103	90-110	
Sulfate	ND	10.0	9.36	94	90-110	

Blank Spike Recovery [D] = $100 \times [C]/[B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: EME Sarah Phillips

Work Order #: 286344

Analyst: DAT

Lab Batch ID: 701348

Sample: 497757-1-BKS

Date Prepared: 07/31/2007

Batch #: 1

Project ID:

Date Analyzed: 07/31/2007

Matrix: Water

Units: mg/L

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Metals per ICP by SW846 6010B											
Analytes											
Calcium	ND	1.00	1.06	106	1.0	1.03	103	3	75-125	25	
Magnesium	ND	1.00	1.08	108	1.0	1.09	109	1	75-125	25	
Potassium	ND	10.0	10.3	103	10.0	10.3	103	0	75-125	25	
Sodium	ND	11.0	10.8	98	11.0	11.0	100	2	75-125	25	

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: EME Sarah Phillips



Work Order #: 286344

Lab Batch #: 700978

Date Analyzed: 07/21/2007

Date Prepared: 07/21/2007

Project ID:

Analyst: IRO

QC- Sample ID: 286343-001 S

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	661	250	907	98	90-110	
Sulfate	238	250	464	90	90-110	

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$
Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$
All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: EME Sarah Phillips

Work Order #: 286344

Lab Batch ID: 701046

Date Analyzed: 07/25/2007

Reporting Units: mg/L

Project ID:

QC- Sample ID: 286343-001 S Batch #: 1 Matrix: Water

Date Prepared: 07/24/2007 Analyst: CELKEE

Reporting Units: mg/L												
MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY												
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag	
	Benzene	ND	0.0500	0.0494	99	0.0500	0.0496	99	0	70-125	25	
	Toluene	ND	0.0500	0.0493	99	0.0500	0.0492	98	1	70-125	25	
	Ethylbenzene	ND	0.0500	0.0519	104	0.0500	0.0523	105	1	71-129	25	
	m,p-Xylene	ND	0.1000	0.0915	92	0.1000	0.0927	93	1	70-131	25	
	o-Xylene	ND	0.0500	0.0497	99	0.0500	0.0501	100	1	71-133	25	

Lab Batch ID: 701348

Date Analyzed: 07/31/2007

Reporting Units: mg/L

QC- Sample ID: 286713-001 S Batch #: 1 Matrix: Water

Date Prepared: 07/31/2007 Analyst: DAT

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
Reporting Units: mg/L											
Metals per ICP by SW846 6010B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Calcium	86.7	1.00	89.9	320	1.00	89.8	310	3	75-125	20	X
Magnesium	9.03	1.00	10.1	107	1.00	9.84	81	28	75-125	20	F
Potassium	34.0	10.0	45.8	118	10.0	45.7	117	1	75-125	20	
Sodium	150	11.0	166	145	11.0	165	136	6	75-125	20	X

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$

Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery $[G] = 100 \cdot (F-A)/E$



Sample Duplicate Recovery



Project Name: EME Sarah Phillips

Work Order #: 286344

Lab Batch #: 701209

Date Analyzed: 07/26/2007

QC- Sample ID: 286342-001 D

Reporting Units: mg/L

Project ID:

Analyst: WRU

Date Prepared: 07/26/2007

Batch #: 1

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Alkalinity by EPA 310.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Alkalinity, Total (as CaCO ₃)	8900	8900	0	20	

Lab Batch #: 700978

Date Analyzed: 07/21/2007

QC- Sample ID: 286343-001 D

Reporting Units: mg/L

Date Prepared: 07/21/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Inorganic Anions by EPA 300	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	661	663	0	20	
Sulfate	238	240	1	20	

Lab Batch #: 701044

Date Analyzed: 07/25/2007

QC- Sample ID: 286343-001 D

Reporting Units: mg/L

Date Prepared: 07/25/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Residue, Filterable (TDS) by EPA 160.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2090	2160	3	30	

Lab Batch #: 701044

Date Analyzed: 07/25/2007

QC- Sample ID: 286396-001 D

Reporting Units: mg/L

Date Prepared: 07/25/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Residue, Filterable (TDS) by EPA 160.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	2560	2580	1	30	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
12600 West I-20 East
Odessa, Texas 79766
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) 931-9310
e-mail: rozanne@valornet.com
Project Name: EWE Sarah Phillips
Project #: _____
Project Loc: T195 R37E Sec33 N - Lea County New Mexico
PO #: _____
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

ORDER #: 286344

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field #/Filter	Preservation & # of Containers	MATRIX	ANALYZE FOR:
01	Monitor Well #1		7/17/2007	11:05	3	1	Name (1) 1 Liter HOPE Na ₂ SO ₄ NaOH H ₂ SO ₄ HCl (2) 40 ml glass vials HNO ₃ Ice Total # of Containers	Other (Specify) On-Drying Water SL Sample GW (Groundwater) Spill-Solid Non-Hazardous Spill-Solid TPH: TX 1005 TX 1005 TPH: 418 1 5015M 5015S Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles (BTEX-N 8260) Semivolatiles BTEX 8021/85030 RCI N.O.R.M. Total Dissolved Solids RUSH TAT (Pre-shipment) 24, 48, 72 hrs Standard TAT	

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

Requested by	Date	Time	Received by	Date	Time
<u>Rozanne Johnson</u>	<u>7-26-07</u>	<u>9:00</u>	<u>James Johnson</u>	<u>7-26-07</u>	<u>9:00</u>
<u>Rozanne Johnson</u>	<u>7-26-07</u>	<u>1:45</u>	<u>James Johnson</u>	<u>7-26-07</u>	<u>1:45</u>
<u>Rozanne Johnson</u>	<u>7-26-07</u>	<u>1:45</u>	<u>James Johnson</u>	<u>7-26-07</u>	<u>1:45</u>

Received by ELOT: Andrew Lane 7-26-07 1:15

Temperature Upon Receipt: -2.0 °C

Not Frozen

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

Client: Rice
Date/ Time: 7-20-07 1:45
Lab ID #: 286341
Initials: AL

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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



ARDINAL LABORATORIES

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

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

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

Receiving Date: 10/03/07

Reporting Date: 10/05/07

Project Number: NOT GIVEN

Project Name: EME SARAH PHILLIPS

Project Location: T19S R37E SEC33 K - LEA COUNTY, NM

Sampling Date: 10/02/07

Sample Type: WATER

Sample Condition: COOL & INTACT

Sample Received By: SB

Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		10/04/07	10/04/07	10/04/07	10/04/07
H13434-1	MONITOR WELL #1	<0.001	<0.001	0.004	<0.003
Quality Control		0.105	0.102	0.101	0.103
True Value QC		0.100	0.100	0.100	0.300
% Recovery		105	102	101	103
Relative Percent Difference		1.7	<0.1	0.9	<0.1

METHOD: EPA SW-846 8021B

Chemist

Date

H13434b Rice

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



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

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

Receiving Date: 10/03/07
Reporting Date: 10/09/07
Project Owner: NOT GIVEN
Project Name: EME SARAH PHILLIPS
Project Location: T19S R37E SEC33 K~LEA COUNTY, NM

Sampling Date: 10/02/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		10/09/07	10/06/07	10/06/07	10/08/07	10/04/07	10/04/07
H13434-1	MONITOR WELL #1	308	210	86.7	9.95	3,140	424
Quality Control		NR	50.6	50.8	1.98	9,770	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	101	102	99.1	97.7	NR
Relative Percent Difference		NR	2.5	3.2	3.6	< 0.1	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	10/04/07	10/09/07	10/04/07	10/04/07	10/04/07	10/06/07
H13434-1	760	67.2	0	517	6.94	1,881
Quality Control	500	45.6	NR	988	7.01	NR
True Value QC	500	50.0	NR	1000	7.00	NR
% Recovery	100	91.3	NR	98.8	100	NR
Relative Percent Difference	< 0.1	9.2	NR	1.2	< 0.1	NR

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

10/09/07
Date

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

[illegible]

WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company
SYSTEM: EME
SITE LOCATION: Sarah Phillips

WELL ID: Monitor Well #1
DATE: October 2, 2007
SAMPLER: Rozanne Johnson

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

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

TOTAL DEPTH OF WELL: 45.28 Feet
DEPTH TO WATER: 30.73 Feet
HEIGHT OF WATER COLUMN: 14.55 Feet
WELL VOLUME: 2.3 Gal.

2 In. Well Diameter
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:40	20.3	3.13	6.75	Pumping Silt to Clear with a Strong Septic Odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

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

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

