

AP - 47

**ANNUAL
MONITORING REPORT**

YEAR(S):

2004

RICE *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7002 2410 0000 4940 1794

January 21, 2005

Mr. Wayne Price
New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

**RE: 2004 MONITOR WELL REPORT/SAMPLING SUMMARY
JCT. F-17, BD SWD SYSTEM
UNIT 'F', SEC. 17, T21S, R37E
NMOCD CASE #1R0426-14**

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2004 Monitor Well Report for the BD jct. F-17 site located in the Blinbry Drinkard (BD) Salt Water Disposal (SWD) System. One monitoring well was installed in 2003 during delineation as part of the Junction Box Upgrade Program. This well is sampled quarterly pursuant to NMOCD guidelines. In 2004, ROC and Arcadis G&M, Inc. of Midland, Texas sampled the well. In 2005, Highlander Environmental Corp. (Highlander) of Midland will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

Highlander has been contracted by ROC to address groundwater concerns at this. NMOCD may expect the submission of an Investigation & Characterization Plan (ICP) this year.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The BD 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.

RICE OPERATING COMAPANY

Kristin Farris Pope

Kristin Farris Pope
Project Scientist

enclosures: Summary table & graph
 Analytical results
 Map

cc: LBG, CDH, Highlander, file, Rob Roy Industries,

Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240

BD jct. F-17

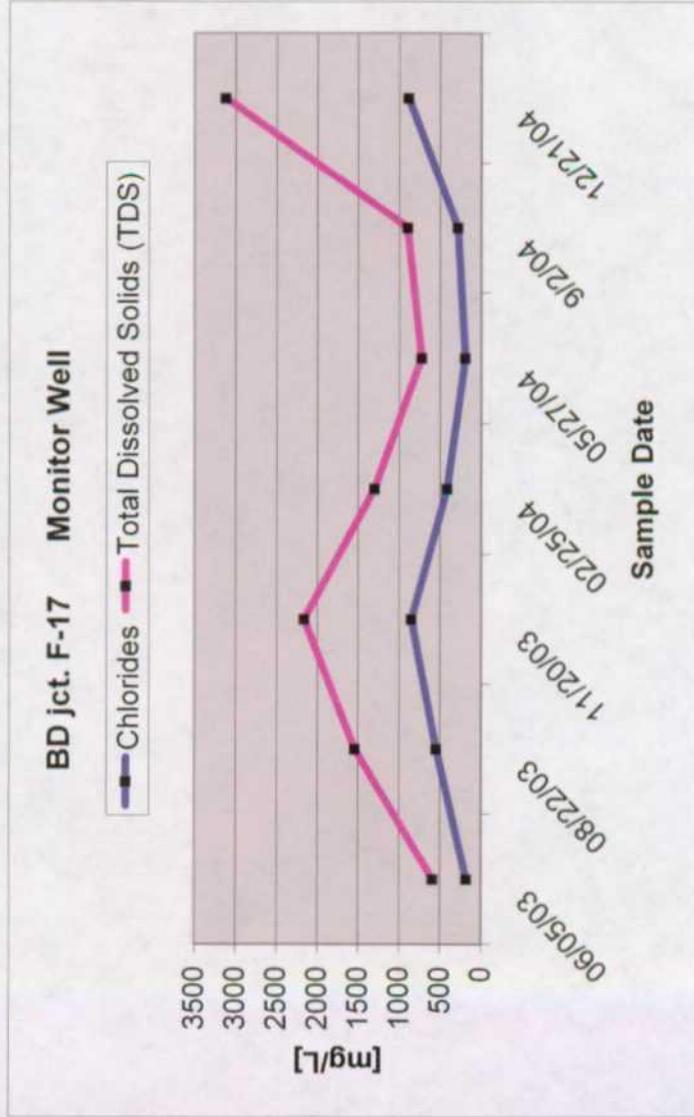
unit F, Sec. 17, T21S, R37E

NMOCD Case #IR0426-14

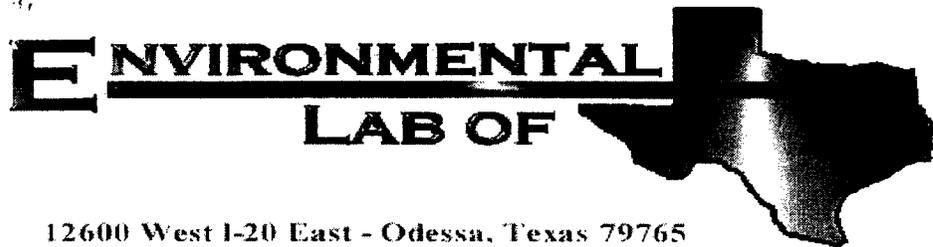
RICE Operating Company
Monitor Well Data Sheet

All concentrations are in mg/L

MW #	DEPTH TO WATER *	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	COMMENTS
1	75.67	85.20	1.524	4.50	06/05/03	177	589	0.004	<0.001	<0.001	<0.001	
1	75.73	85.12	1.500	4.50	08/22/03	549	1540	<0.001	<0.001	<0.001	<0.001	
1	75.75	84.85	1.456	4.30	11/20/03	851	2160	<0.001	<0.001	<0.001	<0.001	
1	75.73	84.48	1.400	4.20	02/25/04	415	1300	<0.001	<0.001	<0.001	<0.001	
1	71.75	85.12	2.130	6.40	05/27/04	195	726	<0.001	<0.001	<0.001	<0.001	
1	75.48	84.60	XXX	4.40	9/2/04	284	896	<0.001	<0.001	<0.001	<0.001	lt. brown; cloudy
1	75.10	84.00	XXX	4.50	12/21/04	886	3120	<0.001	<0.001	<0.001	<0.001	



* Depth to water is measured from top of casing
Casing is 3.104 ft



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Jct. F-17/ 505

Project Number: Jct. F-17/505

Location: Rice Operating/ BD

Lab Order Number: 4L22010

Report Date: 12/30/04

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4L22010-01	Water	12/21/04 14:00	12/21/04 18:00

ARCADIS
 1004 N. Big Spring Street
 Midland TX, 79701

Project: Jct. F-17/ 505
 Project Number: Jct. F-17/505
 Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
 12/30/04 15:43

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22010-01) Water									
Benzene	ND	0.00100	mg/L	1	EL43007	12/29/04	12/30/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		91.3 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		80.1 %	80-120	"	"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:43

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22010-01) Water									
Total Alkalinity	170	2.00	mg/L	1	EL42907	12/29/04	12/29/04	EPA 310.2M	
Chloride	886	5.00	"	"	EL42908	12/29/04	12/29/04	EPA 325.3M	
Total Dissolved Solids	3120	5.00	"	"	EL42301	12/22/04	12/23/04	EPA 160.1	
Sulfate	96.2	1.00	"	2	EL42909	12/29/04	12/29/04	EPA 375.4	

-ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
01/03/05 15:13

**Total Metals by EPA / Standard Methods
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4L22010-01) Water									
Calcium	248	1.00	mg/L	100	EL42302	12/23/04	12/23/04	EPA 6010B	
Magnesium	129	0.100	"	"	"	"	"	"	
Potassium	10.9	0.500	"	10	"	"	"	"	
Sodium	233	1.00	"	100	"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:43

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 EL43007 - EPA 5030C (GC)

Blank (EL43007-BLK1)

Prepared: 12/29/04 Analyzed: 12/30/04

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	90.9		ug/l	100		90.9	80-120			
Surrogate: 4-Bromofluorobenzene	80.2		"	100		80.2	80-120			

LCS (EL43007-BS1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	88.5		"	100		88.5	80-120			
Ethylbenzene	97.5		"	100		97.5	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

Calibration Check (EL43007-CCV1)

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	87.8		ug/l	100		87.8	80-120			
Toluene	89.0		"	100		89.0	80-120			
Ethylbenzene	95.3		"	100		95.3	80-120			
Xylene (p/m)	213		"	200		106	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	113		"	100		113	80-120			
Surrogate: 4-Bromofluorobenzene	116		"	100		116	80-120			

Matrix Spike (EL43007-MS1)

Source: 4L22009-05

Prepared: 12/29/04 Analyzed: 12/30/04

Benzene	88.6		ug/l	100	ND	88.6	80-120			
Toluene	85.4		"	100	ND	85.4	80-120			
Ethylbenzene	87.9		"	100	ND	87.9	80-120			
Xylene (p/m)	186		"	200	ND	93.0	80-120			
Xylene (o)	94.2		"	100	ND	94.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	107		"	100		107	80-120			
Surrogate: 4-Bromofluorobenzene	119		"	100		119	80-120			

ARCADIS
 1004 N. Big Spring Street
 Midland TX, 79701

Project: Jct. F-17/ 505
 Project Number: Jct. F-17/505
 Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
 12/30/04 15:43

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 EL43007 - EPA 5030C (GC)										
Matrix Spike Dup (EL43007-MSD1)		Source: 4L22009-05			Prepared: 12/29/04	Analyzed: 12/30/04				
Benzene	92.9		ug/l	100	ND	92.9	80-120	4.74	20	
Toluene	86.0		"	100	ND	86.0	80-120	0.700	20	
Ethylbenzene	87.2		"	100	ND	87.2	80-120	0.800	20	
Xylene (p/m)	164		"	200	ND	82.0	80-120	12.6	20	
Xylene (o)	86.7		"	100	ND	86.7	80-120	8.29	20	
Surrogate: a,a,a-Trifluorotoluene	112		"	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

-ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:43

**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 EL42301 - 413.1										
Blank (EL42301-BLK1)					Prepared: 12/22/04 Analyzed: 12/23/04					
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EL42301-DUP1)					Source: 4L21010-01 Prepared: 12/22/04 Analyzed: 12/23/04					
Total Dissolved Solids	590	5.00	mg/L		567			3.98	20	
Batch EL42907 - General Preparation (WetChem)										
Blank (EL42907-BLK1)					Prepared & Analyzed: 12/29/04					
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EL42907-DUP1)					Source: 4L22002-01 Prepared & Analyzed: 12/29/04					
Total Alkalinity	181	2.00	mg/L		182			0.551	20	
Reference (EL42907-SRM1)					Prepared & Analyzed: 12/29/04					
Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
Batch EL42908 - General Preparation (WetChem)										
Blank (EL42908-BLK1)					Prepared & Analyzed: 12/29/04					
Chloride	ND	5.00	mg/L							
Matrix Spike (EL42908-MS1)					Source: 4L21010-01 Prepared & Analyzed: 12/29/04					
Chloride	390	5.00	mg/L	250	155	94.0	80-120			
Matrix Spike Dup (EL42908-MSD1)					Source: 4L21010-01 Prepared & Analyzed: 12/29/04					
Chloride	394	5.00	mg/L	250	155	95.6	80-120	1.02	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:43

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 EL42908 - General Preparation (WetChem)

Reference (EL42908-SRM1)

Prepared & Analyzed: 12/29/04

Chloride	4960		mg/L	5000		99.2	80-120			
----------	------	--	------	------	--	------	--------	--	--	--

Batch EL42909 - General Preparation (WetChem)

Blank (EL42909-BLK1)

Prepared & Analyzed: 12/29/04

Sulfate	ND	0.500	mg/L							
---------	----	-------	------	--	--	--	--	--	--	--

Calibration Check (EL42909-CCV1)

Prepared & Analyzed: 12/29/04

Sulfate	48.9		mg/L	50.0		97.8	80-120			
---------	------	--	------	------	--	------	--------	--	--	--

Duplicate (EL42909-DUP1)

Source: 4L21010-01

Prepared & Analyzed: 12/29/04

Sulfate	96.6	1.00	mg/L		99.8			3.26	20	
---------	------	------	------	--	------	--	--	------	----	--

ARCADIS
 1004 N. Big Spring Street
 Midland TX, 79701

Project: Jct. F-17/ 505
 Project Number: Jct. F-17/505
 Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
 01/03/05 15:13

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 EL42302 - 6010B/No Digestion

Blank (EL42302-BLK1)

Prepared & Analyzed: 12/23/04

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

Calibration Check (EL42302-CCV1)

Prepared & Analyzed: 12/23/04

Calcium	2.00		mg/L	2.00		100	85-115			
Magnesium	2.28		"	2.00		114	85-115			
Potassium	1.78		"	2.00		89.0	85-115			
Sodium	1.92		"	2.00		96.0	85-115			

Duplicate (EL42302-DUP1)

Source: 4L21010-01RE1 Prepared & Analyzed: 12/23/04

Calcium	55.1	0.100	mg/L		57.3			3.91	20	
Magnesium	13.2	0.0100	"		13.0			1.53	20	
Potassium	12.5	0.500	"		13.2			5.45	20	
Sodium	105	1.00	"		112			6.45	20	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/ 505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
12/30/04 15:43

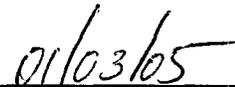
Notes and Definitions

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:



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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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

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

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

Client: Arcadis

Date/Time: 12-21-04 @ 1800

Order #: 4L 22010

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	No	I.C	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	No		
Container labels legible and intact?	<input checked="" type="radio"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	No		
Samples properly preserved?	<input checked="" type="radio"/> Yes	No		
Sample bottles intact?	<input checked="" type="radio"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	No	Not Applicable	

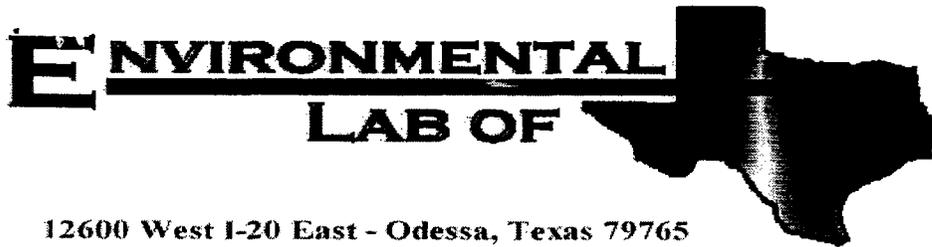
Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Sharon Hall

ARCADIS

1004 N. Big Spring Street

Midland, TX 79701

Project: Jct. F-17/505

Project Number: Jct. F-17/505

Location: Rice Operating/BD

Lab Order Number: 4I03012

Report Date: 09/19/04

ARCADIS 1004 N. Big Spring Street Midland TX, 79701	Project: Jct. F-17/505 Project Number: Jct. F-17/505 Project Manager: Sharon Hall	Fax: (432) 687-5401 Reported: 09/19/04 11:51
---	---	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4I03012-01	Water	09/02/04 15:35	09/03/04 14:40

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I03012-01) Water									
Benzene	ND	0.00100	mg/L	1	EI41004	09/08/04	09/08/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	80-120	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	80-120	"	"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I03012-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EI41608	09/03/04	09/03/04	EPA 310.2M	
Bicarbonate Alkalinity	186	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	284	5.00	"	"	EI40805	09/07/04	09/07/04	EPA 325.3M	
Total Dissolved Solids	896	5.00	"	"	EI41607	09/09/04	09/09/04	EPA 160.1	
Sulfate	90.6	1.00	"	2	EI41312	09/10/04	09/10/04	EPA 375.4	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4103012-01) Water									
Calcium	90.6	1.00	mg/L	100	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	43.4	0.0100	"	10	"	"	"	"	
Potassium	6.35	0.500	"	"	"	"	"	"	
Sodium	117	1.00	"	100	"	"	"	"	

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

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 EI41004 - EPA 5030C (GC)

Blank (EI41004-BLK1)

Prepared & Analyzed: 09/08/04

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	23.4		ug/l	20.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	18.3		"	20.0		91.5	80-120			

LCS (EI41004-BS1)

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	93.0		ug/l	100		93.0	80-120			
Toluene	95.0		"	100		95.0	80-120			
Ethylbenzene	95.1		"	100		95.1	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	16.7		"	20.0		83.5	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

LCS Dup (EI41004-BSD1)

Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	96.3		ug/l	100		96.3	80-120	3.49	20	
Toluene	99.4		"	100		99.4	80-120	4.53	20	
Ethylbenzene	99.5		"	100		99.5	80-120	4.52	20	
Xylene (p/m)	206		"	200		103	80-120	4.98	20	
Xylene (o)	105		"	100		105	80-120	0.957	20	
Surrogate: a,a,a-Trifluorotoluene	18.0		"	20.0		90.0	80-120			
Surrogate: 4-Bromofluorobenzene	21.9		"	20.0		110	80-120			

Calibration Check (EI41004-CCV1)

Prepared & Analyzed: 09/08/04

Benzene	94.3		ug/l	100		94.3	80-120			
Toluene	95.8		"	100		95.8	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	207		"	200		104	80-120			
Xylene (o)	105		"	100		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.0		"	20.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	18.6		"	20.0		93.0	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

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 EI41004 - EPA 5030C (GC)

Matrix Spike (EI41004-MS1) **Source: 4I07001-01** Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	97.5		ug/l	100	ND	97.5	80-120			
Toluene	101		"	100	ND	101	80-120			
Ethylbenzene	97.8		"	100	ND	97.8	80-120			
Xylene (p/m)	203		"	200	ND	102	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.2		"	20.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.9		"	20.0		104	80-120			

Matrix Spike Dup (EI41004-MSD1) **Source: 4I07001-01** Prepared: 09/08/04 Analyzed: 09/10/04

Benzene	99.0		ug/l	100	ND	99.0	80-120	1.53	20	
Toluene	101		"	100	ND	101	80-120	0.00	20	
Ethylbenzene	99.6		"	100	ND	99.6	80-120	1.82	20	
Xylene (p/m)	201		"	200	ND	100	80-120	1.98	20	
Xylene (o)	100		"	100	ND	100	80-120	1.98	20	
Surrogate: a,a,a-Trifluorotoluene	16.5		"	20.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.3		"	20.0		96.5	80-120			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

**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 EI40805 - General Preparation (WetChem)										
Blank (EI40805-BLK1) Prepared & Analyzed: 09/07/04										
Chloride	ND	5.00	mg/L							
Matrix Spike (EI40805-MS1) Source: 4I07001-06 Prepared & Analyzed: 09/07/04										
Chloride	1670	5.00	mg/L	500	1170	100	90-110			
Matrix Spike Dup (EI40805-MSD1) Source: 4I07001-06 Prepared & Analyzed: 09/07/04										
Chloride	1660	5.00	mg/L	500	1170	98.0	90-110	0.601	20	
Reference (EI40805-SRM1) Prepared & Analyzed: 09/07/04										
Chloride	4960		mg/L	5000		99.2	80-120			
Batch EI41312 - General Preparation (WetChem)										
Blank (EI41312-BLK1) Prepared & Analyzed: 09/10/04										
Sulfate	ND	0.500	mg/L							
Calibration Check (EI41312-CCV1) Prepared & Analyzed: 09/10/04										
Sulfate	48.9		mg/L	50.0		97.8	80-120			
Duplicate (EI41312-DUP1) Source: 4I03010-01 Prepared & Analyzed: 09/10/04										
Sulfate	76.4	0.500	mg/L		74.6			2.38	20	
Batch EI41607 - Filtration Preparation										
Blank (EI41607-BLK1) Prepared & Analyzed: 09/09/04										
Total Dissolved Solids	ND	5.00	mg/L							

ARCADIS
 1004 N. Big Spring Street
 Midland TX, 79701

Project: Jct. F-17/505
 Project Number: Jct. F-17/505
 Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
 09/19/04 11:51

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 EI41607 - Filtration Preparation

Duplicate (EI41607-DUP1)		Source: 4I03010-01			Prepared & Analyzed: 09/09/04					
Total Dissolved Solids	1610	5.00	mg/L		1640			1.85	20	

Batch EI41608 - General Preparation (WetChem)

Blank (EI41608-BLK1)				Prepared & Analyzed: 09/03/04						
-----------------------------	--	--	--	--	--	--	--	--	--	--

Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							

Duplicate (EI41608-DUP1)		Source: 4I03010-01			Prepared & Analyzed: 09/03/04					
---------------------------------	--	---------------------------	--	--	--	--	--	--	--	--

Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	444	2.00	"		446		0.449		20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EI41608-SRM1)				Prepared & Analyzed: 09/03/04						
---------------------------------	--	--	--	--	--	--	--	--	--	--

Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			
----------------------	--------	--	------	--------	--	-----	--------	--	--	--

ARCADIS
 1004 N. Big Spring Street
 Midland TX, 79701

Project: Jct. F-17/505
 Project Number: Jct. F-17/505
 Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
 09/19/04 11:51

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 EI41506 - General Preparation (Metals)

Blank (EI41506-BLK1)

Prepared & Analyzed: 09/15/04

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

Blank (EI41506-BLK2)

Prepared & Analyzed: 09/15/04

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

Calibration Check (EI41506-CCV1)

Prepared & Analyzed: 09/15/04

Calcium	2.03		mg/L	2.00		102	85-115			
Magnesium	2.04		"	2.00		102	85-115			
Potassium	1.75		"	2.00		87.5	85-115			
Sodium	1.79		"	2.00		89.5	85-115			

Calibration Check (EI41506-CCV2)

Prepared & Analyzed: 09/15/04

Calcium	1.93		mg/L	2.00		96.5	85-115			
Magnesium	2.02		"	2.00		101	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	1.77		"	2.00		88.5	85-115			

Duplicate (EI41506-DUP1)

Source: 4I03009-01

Prepared & Analyzed: 09/15/04

Calcium	281	1.00	mg/L	280		0.357	20			
Magnesium	110	0.100	"	111		0.905	20			
Potassium	8.18	0.500	"	8.31		1.58	20			
Sodium	359	1.00	"	365		1.66	20			

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

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 EI41506 - General Preparation (Metals)

Duplicate (EI41506-DUP2)	Source: 4I10015-01	Prepared & Analyzed: 09/15/04			
Calcium	20.2	0.100 mg/L	20.2	0.00	20
Magnesium	28.4	0.0100 "	28.6	0.702	20
Potassium	16.4	0.500 "	16.6	1.21	20
Sodium	103	0.100 "	103	0.00	20

ARCADIS
1004 N. Big Spring Street
Midland TX, 79701

Project: Jct. F-17/505
Project Number: Jct. F-17/505
Project Manager: Sharon Hall

Fax: (432) 687-5401

Reported:
09/19/04 11:51

Notes and Definitions

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

Report Approved By: Raland K Tuttle Date: 9-18-04

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

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Biezugbe, Lab Tech.

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

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

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

Client: Archadis
 Date/Time: 9-3-04
 Order #: 4I03012-01
 Initials: W

Sample Receipt Checklist

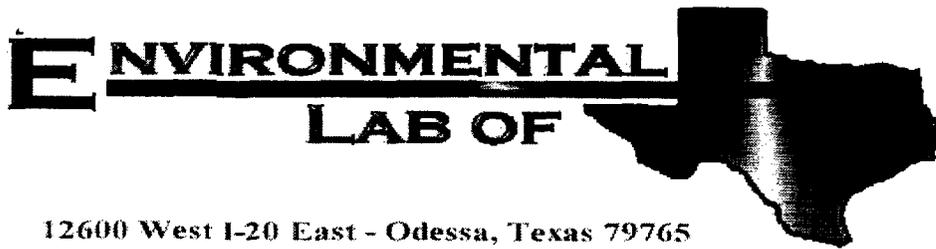
Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	3.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Custody Seals intact on shipping container/cooler?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present
Custody Seals intact on sample bottles?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: F-17
Project Number: None Given
Location: B-D

Lab Order Number: 4E29006

Report Date: 06/04/04

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
06/04/04 17:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	4E29006-01	Water	05/27/04 13:30	05/28/04 16:30

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

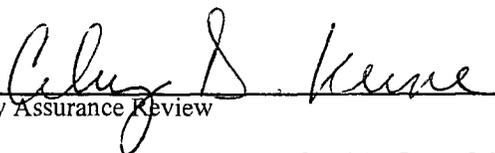
Reported:
06/04/04 17:03

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (4E29006-01) Water									
Benzene	ND	0.00100	mg/L	1	EF40313	06/02/04	06/02/04	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		82.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

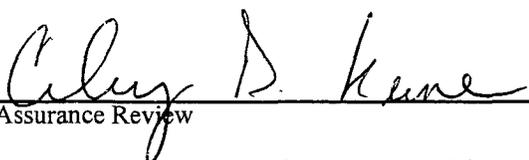
Reported:
06/04/04 17:03

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 (4E29006-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EF40408	05/29/04	05/29/04	EPA 310.2M	
Bicarbonate Alkalinity	198	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	195	5.00	"	"	EF40407	06/03/04	06/03/04	EPA 325.3M	
Total Dissolved Solids	726	5.00	"	"	EF40310	06/01/04	06/02/04	EPA 160.1	
Sulfate	97.8	1.00	"	2	EF40418	06/04/04	06/04/04	EPA 375.4	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

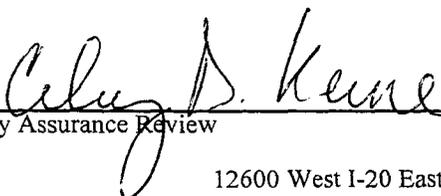
Reported:
06/04/04 17:03

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (4E29006-01) Water									
Calcium	58.9	0.100	mg/L	10	EF40420	06/02/04	06/04/04	EPA 6010B	
Magnesium	43.0	0.0100	"	"	"	"	"	"	
Potassium	7.95	0.500	"	"	"	"	"	"	
Sodium	145	1.00	"	100	"	"	06/04/04	"	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:03

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 EF40313 - EPA 5030C (GC)

Blank (EF40313-BLK1)

Prepared & Analyzed: 06/02/04

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	22.6		ug/l	20.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	18.7		"	20.0		93.5	80-120			

LCS (EF40313-BS1)

Prepared & Analyzed: 06/02/04

Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	94.6		"	100		94.6	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	94.9		"	100		94.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.2		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	22.0		"	20.0		110	80-120			

Calibration Check (EF40313-CCV1)

Prepared & Analyzed: 06/02/04

Benzene	83.3		ug/l	100		83.3	80-120			
Toluene	92.4		"	100		92.4	80-120			
Ethylbenzene	92.3		"	100		92.3	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	92.0		"	100		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.6		"	20.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		104	80-120			

Matrix Spike (EF40313-MS1)

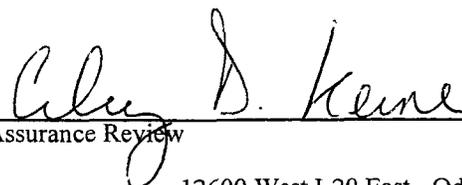
Source: 4E29001-01

Prepared & Analyzed: 06/02/04

Benzene	92.3		ug/l	100	ND	92.3	80-120			
Toluene	103		"	100	ND	103	80-120			
Ethylbenzene	99.5		"	100	ND	99.5	80-120			
Xylene (p/m)	214		"	200	ND	107	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		"	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	23.0		"	20.0		115	80-120			

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:03

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 EF40313 - EPA 5030C (GC)

Matrix Spike Dup (EF40313-MSD1)

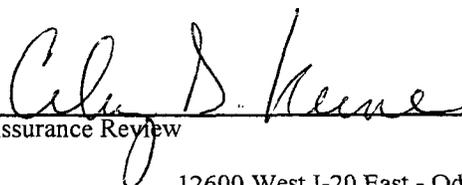
Source: 4E29001-01

Prepared & Analyzed: 06/02/04

Benzene	83.2		ug/l	100	ND	83.2	80-120	10.4	20	
Toluene	92.2		"	100	ND	92.2	80-120	11.1	20	
Ethylbenzene	89.4		"	100	ND	89.4	80-120	10.7	20	
Xylene (p/m)	192		"	200	ND	96.0	80-120	10.8	20	
Xylene (o)	92.6		"	100	ND	92.6	80-120	9.66	20	
Surrogate: a,a,a-Trifluorotoluene	20.5		"	20.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	22.8		"	20.0		114	80-120			

Environmental Lab of Texas

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


Quality Assurance Review

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 EF40310 - Filtration Preparation

Blank (EF40310-BLK1)				Prepared: 06/01/04 Analyzed: 06/02/04						
Total Dissolved Solids	ND	5.00	mg/L							

Duplicate (EF40310-DUP1)				Source: 4E29001-01 Prepared: 06/01/04 Analyzed: 06/02/04						
Total Dissolved Solids	831	5.00	mg/L		830			0.120	20	

Batch EF40407 - General Preparation (WetChem)

Blank (EF40407-BLK1)				Prepared & Analyzed: 06/03/04						
Chloride	ND	5.00	mg/L							

Matrix Spike (EF40407-MS1)				Source: 4E29001-01 Prepared & Analyzed: 06/03/04						
Chloride	709	5.00	mg/L	500	213	99.2	80-120			

Matrix Spike Dup (EF40407-MSD1)				Source: 4E29001-01 Prepared & Analyzed: 06/03/04						
Chloride	700	5.00	mg/L	500	213	97.4	80-120	1.28	20	

Reference (EF40407-SRM1)				Prepared & Analyzed: 06/03/04						
Chloride	4960		mg/L	5000		99.2	80-120			

Batch EF40408 - General Preparation (WetChem)

Blank (EF40408-BLK1)				Prepared & Analyzed: 05/29/04						
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							



Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:03

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 EF40408 - General Preparation (WetChem)

Duplicate (EF40408-DUP1)		Source: 4E29001-01		Prepared & Analyzed: 05/29/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	214	2.00	"		214			0.00	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EF40408-SRM1)		Prepared & Analyzed: 05/29/04								
Carbonate Alkalinity	0.0496		mg/L	0.0500		99.2	80-120			

Batch EF40418 - General Preparation (WetChem)

Blank (EF40418-BLK1)		Prepared & Analyzed: 06/04/04								
Sulfate	ND	0.500	mg/L							

Calibration Check (EF40418-CCV1)		Prepared & Analyzed: 06/04/04								
Sulfate	49.2		mg/L	50.0		98.4	80-120			

Duplicate (EF40418-DUP1)		Source: 4E29001-01		Prepared & Analyzed: 06/04/04						
Sulfate	140	1.00	mg/L		138			1.44	20	

Environmental Lab of Texas

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



Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
06/04/04 17:03

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 EF40420 - General Preparation (Metals)

Blank (EF40420-BLK1)

Prepared: 06/02/04 Analyzed: 06/04/04

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

Calibration Check (EF40420-CCV1)

Prepared: 06/02/04 Analyzed: 06/04/04

Calcium	2.00		mg/L	2.00		100	85-115			
Magnesium	2.27		"	2.00		114	85-115			
Potassium	1.82		"	2.00		91.0	85-115			
Sodium	1.86		"	2.00		93.0	85-115			

Duplicate (EF40420-DUP1)

Source: 4E29006-01

Prepared: 06/02/04 Analyzed: 06/04/04

Calcium	69.2	0.0100	mg/L		58.9			16.1	20	
Magnesium	47.0	0.00100	"		43.0			8.89	20	
Potassium	7.56	0.0500	"		7.95			5.03	20	
Sodium	126	0.0100	"		145			14.0	20	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 17:03

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

Environmental Lab of Texas

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


Quality Assurance Review

Page 10 of 10

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

Client: Rice Operating Co.

Date/Time: 05-29-04 @ 1030

Order #: 4E29006

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	6.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="checkbox"/> Not present
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="checkbox"/> Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	missing 1 st rec. signature
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	Yes	No	should be 4°C ± 2°C
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

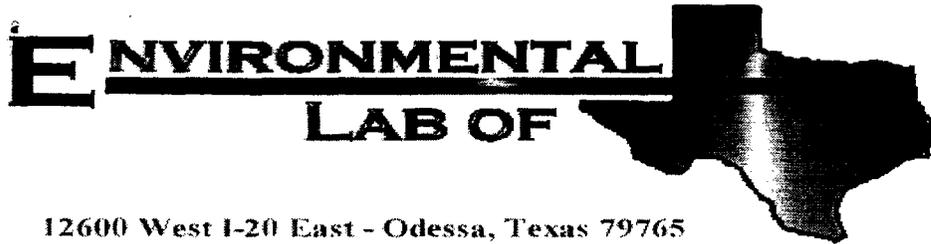
Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: F-17

Project Number: None Given

Location: BD

Lab Order Number: 4B26006

Report Date: 03/08/04

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: F-17 Project Number: None Given Project Manager: Kristin Farris	Fax: (505) 397-1471 Reported: 03/08/04 15:52
--	--	---

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW 1	4B26006-01	Water	02/25/04 13:30	02/26/04 10:25

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
03/08/04 15:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 1 (4B26006-01)									
Benzene	ND	0.00100	mg/L	1	EC40110	02/27/04	02/27/04	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		106 %	80-120	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-120	"	"	"	"	"	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

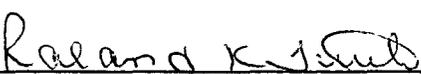
Reported:
03/08/04 15:52

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 1 (4B26006-01)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EB42802	02/27/04	02/27/04	EPA 310.2M	
Bicarbonate Alkalinity	189	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	415	5.00	"	"	EB42611	02/26/04	02/26/04	EPA 325.3	
Total Dissolved Solids	1300	5.00	"	"	EB42704	02/27/04	02/27/04	EPA 160.1	
Sulfate	96.8	0.500	"	"	EB42806	02/28/04	02/28/04	EPA 375.4	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

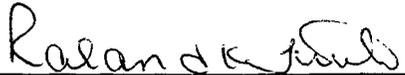
Reported:
03/08/04 15:52

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW 1 (4B26006-01)									
Calcium	80.3	0.100	mg/L	10	EC40805	03/04/04	03/08/04	EPA 6010B	
Magnesium	44.9	0.0100	"	"	"	"	"	"	
Potassium	9.26	0.0500	"	1	"	"	03/08/04	"	
Sodium	150	1.00	"	100	"	"	03/08/04	"	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
03/08/04 15:52

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EC40110 - EPA 5030C (GC)

Blank (EC40110-BLK1)

Prepared & Analyzed: 02/27/04

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	23.9		ug/l	20.0		120	80-120			
Surrogate: 4-Bromofluorobenzene	21.8		"	20.0		109	80-120			

LCS (EC40110-BS1)

Prepared & Analyzed: 02/27/04

Benzene	88.3		ug/l	100		88.3	80-120			
Toluene	90.5		"	100		90.5	80-120			
Ethylbenzene	94.4		"	100		94.4	80-120			
Xylene (p/m)	189		"	200		94.5	80-120			
Xylene (o)	103		"	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		"	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120			

LCS Dup (EC40110-BSD1)

Prepared & Analyzed: 02/27/04

Benzene	87.0		ug/l	100		87.0	80-120	1.48	20	
Toluene	89.6		"	100		89.6	80-120	0.999	20	
Ethylbenzene	85.9		"	100		85.9	80-120	9.43	20	
Xylene (p/m)	176		"	200		88.0	80-120	7.12	20	
Xylene (o)	91.8		"	100		91.8	80-120	11.5	20	
Surrogate: a,a,a-Trifluorotoluene	18.4		"	20.0		92.0	80-120			
Surrogate: 4-Bromofluorobenzene	22.8		"	20.0		114	80-120			

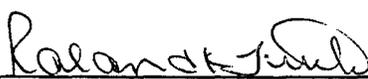
Calibration Check (EC40110-CCV1)

Prepared: 02/27/04 Analyzed: 02/28/04

Benzene	82.0		ug/l	100		82.0	80-120			
Toluene	85.1		"	100		85.1	80-120			
Ethylbenzene	86.7		"	100		86.7	80-120			
Xylene (p/m)	181		"	200		90.5	80-120			
Xylene (o)	95.6		"	100		95.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.2		"	20.0		86.0	80-120			
Surrogate: 4-Bromofluorobenzene	19.6		"	20.0		98.0	80-120			

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

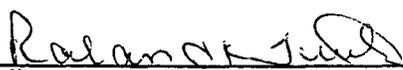
Reported:
03/08/04 15:52

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB42611 - General Preparation (WetChem)										
Blank (EB42611-BLK1) Prepared & Analyzed: 02/26/04										
Chloride	ND	5.00	mg/L							
Matrix Spike (EB42611-MS1) Source: 4B26003-01 Prepared & Analyzed: 02/26/04										
Chloride	596	5.00	mg/L	500	85.0	102	80-120			
Matrix Spike Dup (EB42611-MSD1) Source: 4B26003-01 Prepared & Analyzed: 02/26/04										
Chloride	596	5.00	mg/L	500	85.0	102	80-120	0.00	20	
Batch EB42704 - General Preparation (WetChem)										
Blank (EB42704-BLK1) Prepared & Analyzed: 02/27/04										
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EB42704-DUP1) Source: 4B26006-01 Prepared & Analyzed: 02/27/04										
Total Dissolved Solids	1120	5.00	mg/L		1300			14.9	20	
Batch EB42802 - General Preparation (WetChem)										
Blank (EB42802-BLK1) Prepared & Analyzed: 02/27/04										
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Calibration Check (EB42802-CCV1) Prepared & Analyzed: 02/27/04										
Carbonate Alkalinity	0.0496		mg/L	0.0500		99.2	80-120			

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
03/08/04 15:52

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

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

Batch EB42802 - General Preparation (WetChem)

Duplicate (EB42802-DUP1)		Source: 4B26006-01		Prepared & Analyzed: 02/27/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	190	2.00	"		189			0.528	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Batch EB42806 - General Preparation (WetChem)

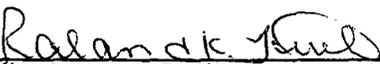
Blank (EB42806-BLK1)		Prepared & Analyzed: 02/28/04								
Sulfate	ND	0.500	mg/L							

Calibration Check (EB42806-CCV1)		Prepared & Analyzed: 02/28/04								
Sulfate	50.6		mg/L	50.0		101	80-120			

Duplicate (EB42806-DUP1)		Source: 4B26003-01		Prepared & Analyzed: 02/28/04						
Sulfate	34.6	0.500	mg/L		35.0			1.15	20	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
03/08/04 15:52

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

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

Batch EC40805 - General Preparation (Metals)

Blank (EC40805-BLK1)

Prepared: 03/04/04 Analyzed: 03/08/04

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

Calibration Check (EC40805-CCV1)

Prepared: 03/04/04 Analyzed: 03/08/04

Calcium	2.27		mg/L	2.00		114	85-115			
Magnesium	2.06		"	2.00		103	85-115			
Potassium	2.02		"	2.00		101	85-115			
Sodium	2.25		"	2.00		112	85-115			

Duplicate (EC40805-DUP1)

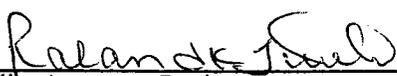
Source: 4B26006-01

Prepared: 03/04/04 Analyzed: 03/08/04

Calcium	83.0	0.100	mg/L		80.3			3.31	20	
Magnesium	46.4	0.0100	"		44.9			3.29	20	
Potassium	9.37	0.0500	"		9.26			1.18	20	
Sodium	148	1.00	"		150			1.34	20	

Environmental Lab of Texas

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


Quality Assurance Review

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

Project: F-17
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

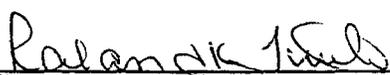
Reported:
03/08/04 15:52

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Environmental Lab of Texas

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


Quality Assurance Review

Page 9 of 9

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

Client: Rice Operating Co.

Date/Time: 02-26-04 @ 1230

Order #: 4826006

Initials: JMA

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	1.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="checkbox"/> Not present	
Custody Seals intact on sample bottles?	Yes	No	<input checked="" type="checkbox"/> Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No		
Chain of custody agrees with sample label(s)	Yes	No	NO LABELS	
Container labels legible and intact?	Yes	No	NO LABELS	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:
