1R – 415

ANNUAL GW MONITOR REPORT

DATE:

2007

1R 415
Annual GW Mon Report

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R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266.0745

2007

January 24, 2008

Wayne Price
Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: 2007 Annual Ground Water Monitoring Report
G-1 Site (Abo Apache LA), Sec 01, T17S, R36E, Unit "G"
NMOCD Case #: 1R0415

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2007 Annual Ground Water Monitoring Report for the G-1 Site (Abo Apache LA) site located in the Abo Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration over time for chloride, TDS, and sulfate.
3. Laboratory data sheets associated with the routine sampling for 2007.

A Final Closure Report was submitted to NMOCD on April 28, 2006. NMOCD granted conditional approval on May 25, 2006. Revegetation and soil moisture monitoring is ongoing. We plan to submit a Final Closure Report in the spring of 2008.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of this report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,
R.T. Hicks Consultants, Ltd.

Randall T. Hicks
Principal

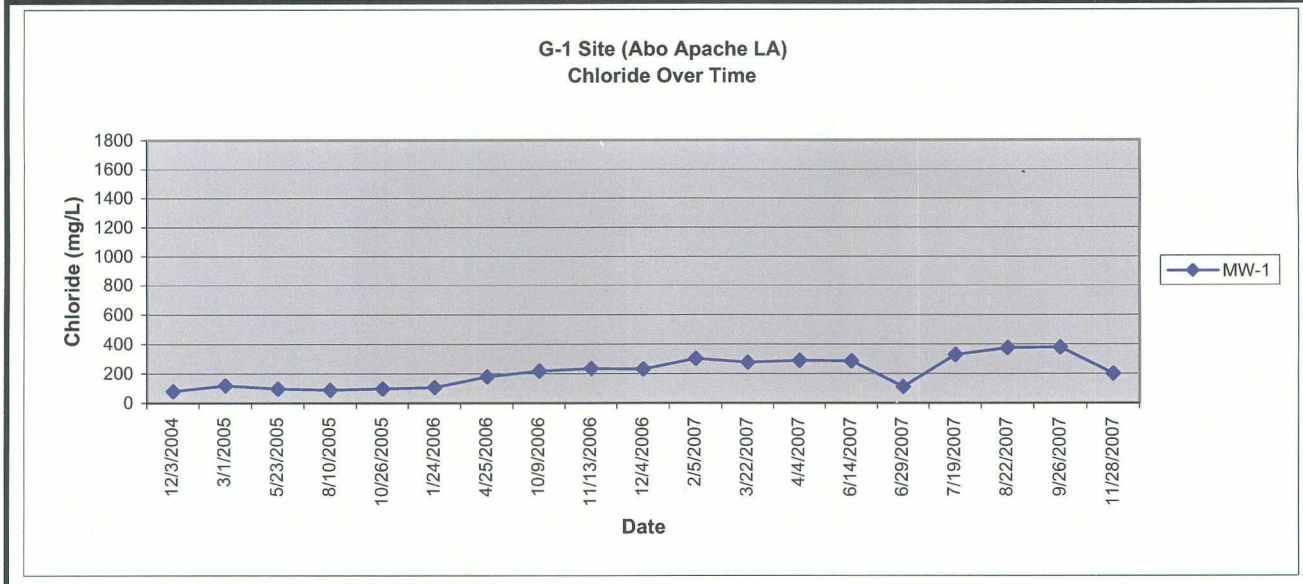
Copy: Hobbs NMOCD office; Rice Operating Company

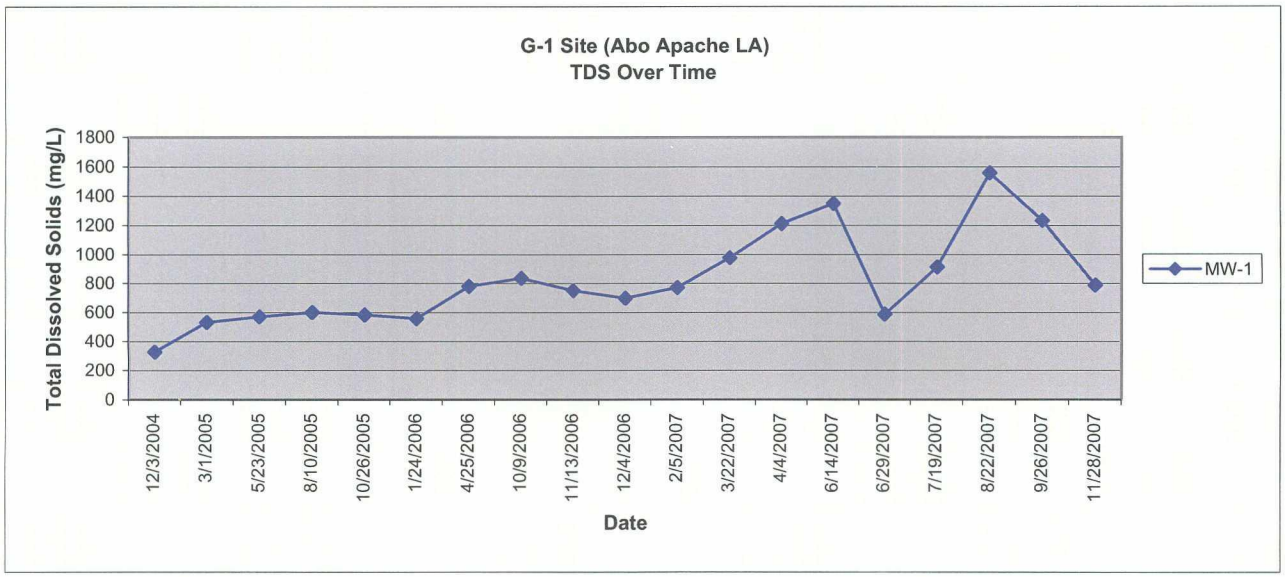
G-1 Site (Abo Apache LA)

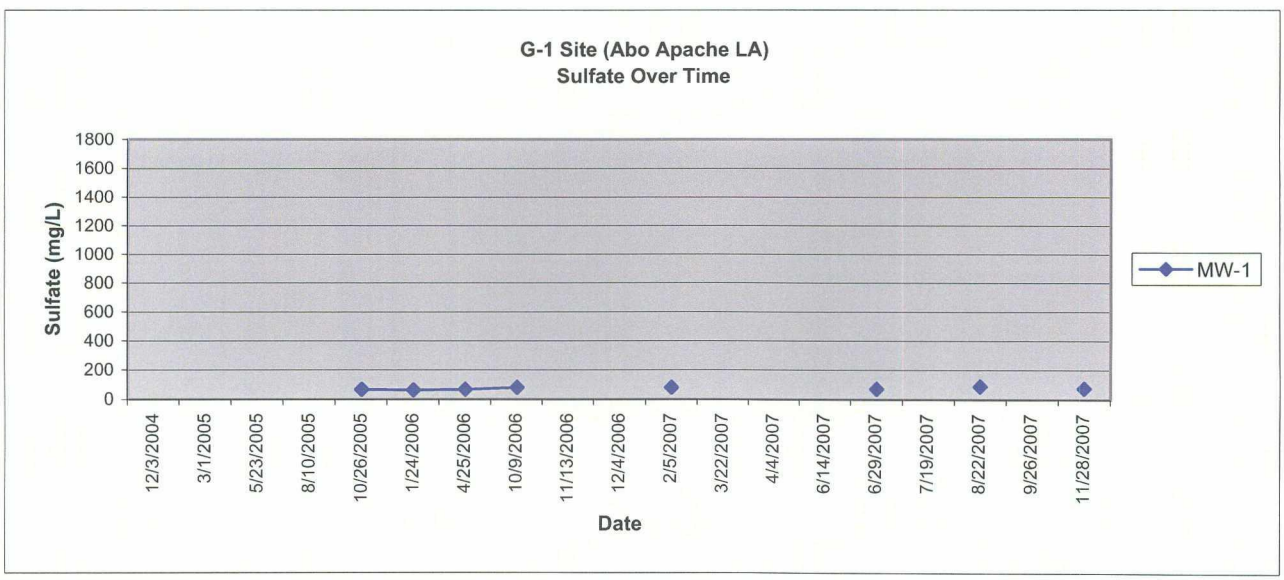
Table 1: chemistry over time

Well Name	*Date*	*DTW (ft)*	*Chloride (mg/L)*	*Sulfate (mg/L)*	*TDS (mg/L)*	*Benzene (mg/L)*	*Toluene (mg/L)*	*EthylBenzene (mg/L)*	*Total Xylenes (mg/L)*	*Comments*
MW-1	12/3/2004	92.10	80.5		329	<0.001	<0.001	<0.001	<0.001	
MW-1	3/1/2005	92.10	120		532	<0.001	<0.001	<0.001	<0.001	
MW-1	5/23/2005	92.30	98.4		573	<0.001	<0.001	<0.001	<0.001	
MW-1	8/10/2005	92.60	91.5		603	<0.001	<0.001	<0.001	<0.001	
MW-1	10/26/2005	92.88	96.9	69.7	584	<0.001	<0.001	<0.001	<0.001	Clear
MW-1	1/24/2006	93.38	107	65	560	<0.001	<0.001	<0.001	<0.001	
MW-1	4/25/2006	93.55	181	66.8	780	<0.001	<0.001	<0.001	<0.001	
MW-1	10/9/2006	94.61	219	80.9	836	<0.001	<0.001	<0.001	<0.001	Clear
MW-1	11/13/2006	94.83	234	XXX	752	XXX	XXX	XXX	XXX	Clear with no odor
MW-1	12/4/2006	95.08	229	XXX	698	XXX	XXX	XXX	XXX	Clear / No Odor
MW-1	2/5/2007	95.12	301	83.1	772	<0.001	<0.001	<0.001	<0.001	Clear/
MW-1	3/22/2007		278		976					
MW-1	4/4/2007	95.10	290	XXX	1210	XXX	XXX	XXX	XXX	clear with no odor
MW-1	6/14/2007	95.12	285	XXX	1350	XXX	XXX	XXX	XXX	clear
MW-1	6/29/2007	95.12	112	74.4	588	<0.001	<0.001	<0.001	<0.001	Clear No Odor
MW-1	7/19/2007	95.40	328	XXX	912	XXX	XXX	XXX	XXX	Clear Slight Odor
MW-1	8/22/2007	95.46	376	91.1	1556	0.006	<0.002	<0.002	<0.006	Clear No Odor
MW-1	9/26/2007	95.61	380	XXX	1232	XXX	XXX	XXX	XXX	Clear with Slight Odor
MW-1	11/28/2007	95.88	200	76.6	791	<0.001	<0.001	<0.001	<0.003	Clear Slight odor

R:\Annual Reports\2007\g-1 site chart.xls







R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW, Suite F-142 Albuquerque, NM 87104 505-266-5004	Ground Water Chemistry	G-1 Site
	Rice Operating Company 2007 Annual Report	1/24/2008

ENVIRONMENTAL LAB OF

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: ABO Apache Leak

Project Number: None Given

Location: T19S R37E Sec1 G ~ Lea County New Mexico

Lab Order Number: 7D05010

Report Date: 04/11/07

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7D05010-01	Water	04/04/07 19:20	04-05-2007 13:20

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

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D05010-01) Water									
Chloride	**290**	5.00	mg/L	10	ED71003	04/10/07	04/10/07	EPA 300.0	
Total Dissolved Solids	**1210**	10.0	"	1	ED71008	04/05/07	04/06/07	EPA 160.1	

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

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

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED71003 - General Preparation (WetChem)										
Blank (ED71003-BLK1)				Prepared & Analyzed: 04/10/07						
Chloride	ND	0.500	mg/L							
LCS (ED71003-BS1)				Prepared & Analyzed: 04/10/07						
Chloride	12.0	0.500	mg/L	10.0		120	80-120			
Calibration Check (ED71003-CCV1)				Prepared & Analyzed: 04/10/07						
Chloride	9.00		mg/L	10.0		90.0	80-120			
Duplicate (ED71003-DUP1)	**Source: 7D05009-01**			Prepared & Analyzed: 04/10/07						
Chloride	1590	25.0	mg/L		1940			19.8	20	
Duplicate (ED71003-DUP2)	**Source: 7D05014-05**			Prepared & Analyzed: 04/10/07						
Chloride	1390	50.0	mg/L		1410			1.43	20	
Matrix Spike (ED71003-MS1)	**Source: 7D05009-01**			Prepared & Analyzed: 04/10/07						
Chloride	2080	25.0	mg/L	500	1940	28.0	80-120			
Matrix Spike (ED71003-MS2)	**Source: 7D05014-05**			Prepared & Analyzed: 04/10/07						
Chloride	2480	50.0	mg/L	1000	1410	107	80-120			
Batch ED71008 - General Preparation (WetChem)										
Blank (ED71008-BLK1)				Prepared: 04/05/07 Analyzed: 04/06/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (ED71008-DUP1)	**Source: 7D05009-01**			Prepared: 04/05/07 Analyzed: 04/06/07						
Total Dissolved Solids	3700	10.0	mg/L		3070			18.6	20	

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

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

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: Brent Barron Date: 4/11/2007

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

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

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

Project Name: ABO Apache Leak

Project #:

Project Loc: T19S R37E Sec1 G ~ Lea County New Mexico

PO #:

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

(lab use only)

ORDER #: 7D05010

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: GW=Drinking Water SL=Sludge; GW=Groundwater S=Soil/Solid; NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	TOTAL: Total Dissolved Solids	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			4/4/2007	19:20		1	X						1		GW												X	X		X

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	4-5-07	6:00	James Johnson	4-5-07	6:01
James Johnson	4-5-07	1:20	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Penn	4-5-07	1:20

Laboratory Comments:

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

Temperature Upon Receipt: -2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 4-5-07 1:20

Lab ID #: 705010

Initials: GL

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ENVIRONMENTAL LAB OF

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: ABO Apache Leak

Project Number: None Given

Location: T19S R36E Sec1 G ~ Lea County New Mexico

Lab Order Number: 7F06016

Report Date: 06/26/07

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7F06016-01	Water	05/31/07 07:30	06-06-2007 12:51

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

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

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7F06016-01) Water									
Benzene	**0.00237**	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*113 %*		*80-120*		"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.6 %*		*80-120*		"	"	"	

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7F06016-01) Water									
Total Alkalinity	**224**	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	**334**	5.00	"	10	EF71204	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	**1210**	10.0	"	1	EF71110	06/06/07	06/11/07	EPA 160.1	
Sulfate	**83.8**	5.00	"	10	EF71204	06/12/07	06/12/07	EPA 300.0	

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

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7F06016-01) Water									
Calcium	**179**	4.05	mg/L	50	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	**24.6**	0.360	"	10	"	"	"	"	
Potassium	**2.97**	0.600	"	"	"	"	"	"	
Sodium	**60.8**	2.15	"	50	"	"	"	"	

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

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70802 - EPA 5030C (GC)										
Blank (EF70802-BLK1)			Prepared & Analyzed: 06/08/07							
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	*54.1*		*ug/l*	*50.0*		*108*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.4*		"	*50.0*		*90.8*	*80-120*			
LCS (EF70802-BS1)			Prepared & Analyzed: 06/08/07							
Benzene	0.0548	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0556	0.00100	"	0.0500		111	80-120			
Ethylbenzene	0.0543	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120			
Xylene (o)	0.0569	0.00100	"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*54.6*		*ug/l*	*50.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*51.7*		"	*50.0*		*103*	*80-120*			
Calibration Check (EF70802-CCV1)			Prepared: 06/08/07 Analyzed: 06/09/07							
Benzene	0.0576		mg/L	0.0500		115	80-120			
Toluene	0.0567		"	0.0500		113	80-120			
Ethylbenzene	0.0537		"	0.0500		107	80-120			
Xylene (p/m)	0.0999		"	0.100		99.9	80-120			
Xylene (o)	0.0573		"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*57.9*		*ug/l*	*50.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.0*		"	*50.0*		*106*	*80-120*			
Matrix Spike (EF70802-MS1)	**Source: 7F06019-03**		Prepared: 06/08/07 Analyzed: 06/09/07							
Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120			
Toluene	0.0593	0.00100	"	0.0500	ND	119	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120			
Xylene (o)	0.0614	0.00100	"	0.0500	ND	123	80-120			M1
Surrogate: a,a,a-Trifluorotoluene	*58.4*		*ug/l*	*50.0*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*56.2*		"	*50.0*		*112*	*80-120*			

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

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70802 - EPA 5030C (GC)										
Matrix Spike Dup (EF70802-MSD1)	**Source: 7F06019-03**			Prepared: 06/08/07 Analyzed: 06/09/07						
Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120	6.01	20	
Toluene	0.0566	0.00100	"	0.0500	ND	113	80-120	5.17	20	
Ethylbenzene	0.0556	0.00100	"	0.0500	ND	111	80-120	5.26	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	4.78	20	
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120	5.00	20	
Surrogate: a,a,a-Trifluorotoluene	*58.3*		*ug/l*	*50.0*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*54.2*		*"*	*50.0*		*108*	*80-120*			

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

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71110 - General Preparation (WetChem)										
Blank (EF71110-BLK1)				Prepared: 06/07/07 Analyzed: 06/11/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EF71110-DUP1)	**Source: 7F06016-01**			Prepared: 06/07/07 Analyzed: 06/11/07						
Total Dissolved Solids	1270	10.0	mg/L		1210			4.84	20	
Duplicate (EF71110-DUP2)	**Source: 7F06019-03**			Prepared: 06/07/07 Analyzed: 06/11/07						
Total Dissolved Solids	7020	10.0	mg/L		6900			1.72	20	
Batch EF71204 - General Preparation (WetChem)										
Blank (EF71204-BLK1)				Prepared & Analyzed: 06/12/07						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EF71204-BS1)				Prepared & Analyzed: 06/12/07						
Sulfate	10.0	0.500	mg/L	10.0		100	80-120			
Chloride	10.8	0.500	"	10.0		108	80-120			
Calibration Check (EF71204-CCV1)				Prepared & Analyzed: 06/12/07						
Sulfate	10.0		mg/L	10.0		100	80-120			
Chloride	10.8		"	10.0		108	80-120			
Duplicate (EF71204-DUP1)	**Source: 7F06020-03**			Prepared & Analyzed: 06/12/07						
Sulfate	4550	250	mg/L		4670			2.60	20	
Chloride	17500	250	"		18100			3.37	20	
Matrix Spike (EF71204-MS1)	**Source: 7F06020-03**			Prepared & Analyzed: 06/12/07						
Chloride	21100	250	mg/L	5000	18100	60.0	80-120			QM-10
Sulfate	7770	250	"	5000	4670	62.0	80-120			QM-10

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

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71309 - General Preparation (WetChem)										
Blank (EF71309-BLK1)				Prepared & Analyzed: 06/13/07						
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
LCS (EF71309-BS1)				Prepared & Analyzed: 06/13/07						
Bicarbonate Alkalinity	174	2.00	mg/L	200		87.0	85-115			
Duplicate (EF71309-DUP1)	**Source: 7F06017-02**			Prepared & Analyzed: 06/13/07						
Total Alkalinity	348	2.00	mg/L		348			0.00	20	
Reference (EF71309-SRM1)				Prepared & Analyzed: 06/13/07						
Total Alkalinity	250		mg/L	250		100	90-110			

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

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF70807 - 6010B/No Digestion										
Blank (EF70807-BLK1)				Prepared & Analyzed: 06/08/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EF70807-CCV1)				Prepared & Analyzed: 06/08/07						
Calcium	1.78		mg/L	2.00		89.0	85-115			
Magnesium	1.83		"	2.00		91.5	85-115			
Potassium	2.28		"	2.00		114	85-115			
Sodium	1.82		"	2.00		91.0	85-115			
Duplicate (EF70807-DUP1)	**Source: 7F05011-03**			Prepared & Analyzed: 06/08/07						
Calcium	139	4.05	mg/L		139			0.00	20	
Magnesium	29.5	0.360	"		29.8			1.01	20	
Potassium	6.37	0.600	"		6.57			3.09	20	
Sodium	121	2.15	"		124			2.45	20	

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

Notes and Definitions

QM-10	LCS/LCSD were analyzed in place of MS/MSD.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 6/26/2007

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

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

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

Project Name: ABO Apache Leak

Project #:

Project Loc: T19S R36E Sec1 G ~ Lea County New Mexico

PO #:

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

(lab use only)

ORDER #: 7F060016

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl (2) 40 ml glass vials	H2SO4	NaOH	Na2S2O3	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se (TCLP / TOTAL)	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			5/31/2007	7:30		3	X		2				1		GW			X	X					X			X		X

Special Instructions:

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

	Date	Time		Date	Time
Relinquished by: Rozanne Johnson	6/6/07	8:45	Received by: Mary Morton	6/6/07	8:46
Relinquished by: Mary Morton	6/6/07		Received by:		
Relinquished by:			Received by ELOT: Andrea Kam	6-6-07	12:51

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? Y N

Labels on container(s) Y N

Custody seals on container(s) Y N

Custody seals on cooler(s) Y N

Sample Hand Delivered by Sample/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 6-6-07 12:51

Lab ID # : 7F06016

Initials: AL

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ENVIRONMENTAL LAB OF

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: ABO Apache Leak

Project Number: None Given

Location: T19S R37E Sec1 G ~ Lea County New Mexico

Lab Order Number: 7F14021

Report Date: 06/20/07

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

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7F14021-01	Water	06/14/07 07:10	06-14-2007 13:45

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

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

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7F14021-01) Water									
Chloride	**285**	5.00	mg/L	10	EF71803	06/18/07	06/20/07	EPA 300.0	
Total Dissolved Solids	**1350**	10.0	"	1	EF72004	06/18/07	06/20/07	EPA 160.1	

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

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF71803 - General Preparation (WetChem)										
Blank (EF71803-BLK1)				Prepared: 06/18/07 Analyzed: 06/20/07						
Chloride	ND	0.500	mg/L							
LCS (EF71803-BS1)				Prepared: 06/18/07 Analyzed: 06/20/07						
Chloride	9.87	0.500	mg/L	10.0		98.7	80-120			
Calibration Check (EF71803-CCV1)				Prepared: 06/18/07 Analyzed: 06/20/07						
Chloride	8.94		mg/L	10.0		89.4	80-120			
Duplicate (EF71803-DUP1)	**Source: 7F14003-06**			Prepared: 06/18/07 Analyzed: 06/20/07						
Chloride	8400	100	mg/L		6670			23.0	20	R2
Matrix Spike (EF71803-MS1)	**Source: 7F14003-06**			Prepared: 06/18/07 Analyzed: 06/20/07						
Chloride	9860	100	mg/L	2000	6670	160	80-120			QM-10
Batch EF72004 - General Preparation (WetChem)										
Blank (EF72004-BLK1)				Prepared: 06/18/07 Analyzed: 06/20/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EF72004-DUP1)	**Source: 7F14003-01**			Prepared: 06/18/07 Analyzed: 06/20/07						
Total Dissolved Solids	3220	10.0	mg/L		3180			1.25	20	
Duplicate (EF72004-DUP2)	**Source: 7F14020-03**			Prepared: 06/18/07 Analyzed: 06/20/07						
Total Dissolved Solids	526	10.0	mg/L		534			1.51	20	

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

Notes and Definitions

R2	The RPD exceeded the acceptance limit.
QM-10	LCS/LCSD were analyzed in place of MS/MSD.
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: Brent Barron Date: 6/20/2007

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

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

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

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

Project Name: ABO Apache Leak

Project #:

Project Loc: T19S R37E Sec1 G ~ Lea County New Mexico

PO #:

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

(lab use only)

ORDER #: TF14021

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater SS=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Total Dissolved Solids	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			6/14/2007	7:10		1	X						1		GW												X	X			X

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	6-14-07	10:00	Raelyn Gardner	6-14-07	10:01
Relinquished by: Raelyn Gardner	6-14-07	1:46	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT: Andrea Law	6-14-07	1:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N N/a
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N

by Sampler/Client Rep. ? by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 6/14/07 1:45

Lab ID #: MF 14021

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.5 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	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

Analytical Report 285440

for

Rice Operating Co.

Project Manager: Kristin Pope

ABP Apache Leak

12-JUL-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

12-JUL-07

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

Reference: XENCO Report No: **285440**
ABP Apache Leak
Project Address: T 19 S R37E Sec 1G ~ Lea County, NM

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 285440. 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. 285440 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

Sample Cross Reference 285440

Rice Operating Co., Hobbs, NM

ABP Apache Leak

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Monitor Well # 1	W	Jun-29-07 07:05		285440-001

Certificate of Analysis Summary 285440

Rice Operating Co., Hobbs, NM

Project Name: ABP Apache Leak

Project Id:
Contact: Kristin Pope
Project Location: T 19 S R37E Sec 1G ~ Lea County, NM

Date Received in Lab: Jul-03-07 05:05 pm
Report Date: 12-JUL-07
Project Manager: Brent Barron, II

Analysis Requested						
	Lab Id:	285440-001				
	Field Id:	Monitor Well # 1				
	Depth:					
	Matrix:	WATER				
	Sampled:	Jun-29-07 07:05				
BTEX by EPA 8021B	*Extracted:*	Jul-10-07 11:54				
	Analyzed:	Jul-10-07 17:12				
	Units/RL:	mg/L	RL			
Benzene		ND	0.0010			
Toluene		ND	0.0010			
Ethylbenzene		ND	0.0010			
m,p-Xylene		ND	0.0020			
o-Xylene		ND	0.0010			
Total Xylenes		ND				
Total BTEX		ND				
Bicarbonate, Alkalinity by EPA 310.1	*Extracted:*					
	Analyzed:	Jul-06-07 15:00				
	Units/RL:	mg/L	RL			
Alkalinity, Bicarbonate		240	4.00			
Inorganic Anions by EPA 300	*Extracted:*					
	Analyzed:	Jul-09-07 18:09				
	Units/RL:	mg/L	RL			
Chloride		112	5.00			
Sulfate		74.4	5.00			
Metals per ICP by SW846 6010B	*Extracted:*					
	Analyzed:	Jul-11-07 14:37				
	Units/RL:	mg/L	RL			
Calcium		114	0.100			
Magnesium		13.1	0.010			
Potassium		2.65	0.500			
Sodium		47.2	0.500			
Residue, Filterable (TDS) by EPA 160.1	*Extracted:*					
	Analyzed:	Jul-06-07 15:15				
	Units/RL:	mg/L	RL			
Total dissolve solids		588	5.00			

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.

Form 2 - Surrogate Recoveries

Project Name: ABP Apache Leak

Work Order #: 285440 **Project ID:**

Lab Batch #: 700105 **Sample:** 285371-018 S / MS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0483	0.0500	97	80-120	

Lab Batch #: 700105 **Sample:** 285371-018 SD / MSD **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0504	0.0500	101	80-120	

Lab Batch #: 700105 **Sample:** 285440-001 / SMP **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
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 #: 700105 **Sample:** 496996-1-BKS / BKS **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0531	0.0500	106	80-120	

Lab Batch #: 700105 **Sample:** 496996-1-BLK / BLK **Batch:** 1 **Matrix:** Water

Units: mg/L

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0484	0.0500	97	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.

XENCO Laboratories

Blank Spike Recovery

Project Name: ABP Apache Leak

Work Order #: 285440 **Project ID:**

Lab Batch #: 700105 **Sample:** 496996-1-BKS **Matrix:** Water
Date Analyzed: 07/10/2007 **Date Prepared:** 07/10/2007 **Analyst:** CELKEE
Reporting Units: mg/L **Batch #:** 1

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Benzene	ND	0.0500	0.0482	96	70-125	
Toluene	ND	0.0500	0.0508	102	70-125	
Ethylbenzene	ND	0.0500	0.0562	112	71-129	
m,p-Xylene	ND	0.1000	0.1006	101	70-131	
o-Xylene	ND	0.0500	0.0549	110	71-133	

Lab Batch #: 700048 **Sample:** 700048-1-BKS **Matrix:** Water
Date Analyzed: 07/06/2007 **Date Prepared:** 07/06/2007 **Analyst:** WRU
Reporting Units: mg/L **Batch #:** 1

Bicarbonate, Alkalinity by EPA 310.1 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Alkalinity, Bicarbonate	ND	200	174	87	80-120	

Lab Batch #: 699973 **Sample:** 699973-1-BKS **Matrix:** Water
Date Analyzed: 07/09/2007 **Date Prepared:** 07/09/2007 **Analyst:** LATCOR
Reporting Units: mg/L **Batch #:** 1

Inorganic Anions by EPA 300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
	BLANK /BLANK SPIKE RECOVERY STUDY					
Chloride	ND	10.0	9.80	98	90-110	
Sulfate	ND	10.0	9.58	96	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS Recoveries

Project Name: ABP Apache Leak

Work Order #: 285440
Lab Batch #: 699973
Date Analyzed: 07/09/2007
QC- Sample ID: 285440-001 S
Reporting Units: mg/L

Project ID:
Date Prepared: 07/09/2007
Analyst: LATCOR
Batch #: 1
Matrix: Water

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	112	100	206	94	90-110	
Sulfate	74.4	100	169	95	90-110	

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

Form 3 - MS / MSD Recoveries

Project Name: ABP Apache Leak

Work Order # : 285440 **Project ID:**

Lab Batch ID: 700105 **QC- Sample ID:** 285371-018 S **Batch #:** 1 **Matrix:** Water

Date Analyzed: 07/11/2007 **Date Prepared:** 07/10/2007 **Analyst:** CELKEE

Reporting Units: mg/L

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	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	0.0509	102	0.0500	0.0494	99	3	70-125	25	
Toluene	ND	0.0500	0.0516	103	0.0500	0.0500	100	3	70-125	25	
Ethylbenzene	ND	0.0500	0.0553	111	0.0500	0.0537	107	4	71-129	25	
m,p-Xylene	ND	0.1000	0.0972	97	0.1000	0.0946	95	2	70-131	25	
o-Xylene	ND	0.0500	0.0536	107	0.0500	0.0524	105	2	71-133	25	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*(D-G)/(D+G)

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

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

Sample Duplicate Recovery

Project Name: ABP Apache Leak

Work Order #: 285440

Lab Batch #: 700048 **Project ID:**
Date Analyzed: 07/06/2007 **Date Prepared:** 07/06/2007 **Analyst:** WRU
QC- Sample ID: 285425-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Bicarbonate, Alkalinity by EPA 310.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Alkalinity, Bicarbonate	210	210	0	20	
Alkalinity, Carbonate	ND	ND	NC	20	

Lab Batch #: 699973
Date Analyzed: 07/09/2007 **Date Prepared:** 07/09/2007 **Analyst:** LATCOR
QC- Sample ID: 285440-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Inorganic Anions by EPA 300	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	112	111	1	20	
Sulfate	74.4	74.1	0	20	

Lab Batch #: 700076
Date Analyzed: 07/11/2007 **Date Prepared:** 07/11/2007 **Analyst:** LATCOR
QC- Sample ID: 284692-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Metals per ICP by SW846 6010B	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Calcium	659	653	1	25	
Magnesium	85.0	88.8	4	25	
Potassium	21.2	20.4	4	25	
Sodium	4180	4190	0	25	

Lab Batch #: 699879
Date Analyzed: 07/06/2007 **Date Prepared:** 07/06/2007 **Analyst:** IRO
QC- Sample ID: 285440-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Residue, Filterable (TDS) by EPA 160.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolve solids	588	602	2	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |
All Results are based on MDL and validated for QC purposes.

Analytical Report 286347

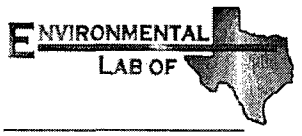
for

Rice Operating Co.

Project Manager: Kristin Pope

ABO Apache Leak

27-JUL-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

27-JUL-07

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

Reference: XENCO Report No: **286347**
ABO Apache Leak
Project Address: T19S R37E Sec 1 G ~ 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 286347. 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. 286347 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

Sample Cross Reference 286347

Rice Operating Co., Hobbs, NM

ABO Apache Leak

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Monitor Well # 1	W	Jul-19-07 09:35		286347-001

Certificate of Analysis Summary 286347

Rice Operating Co., Hobbs, NM

Project Name: ABO Apache Leak

Project Id:

Contact: Kristin Pope

Project Location: T19S R37E Sec 1 G ~ Lea County New M

Date Received in Lab: Fri Jul-20-07 01:45 pm

Report Date: 27-JUL-07

Project Manager: Brent Barron, II

Analysis Requested							
	Lab Id:	286347-001					
	Field Id:	Monitor Well # 1					
	Depth:						
	Matrix:	WATER					
	Sampled:	Jul-19-07 09:35					
Inorganic Anions by EPA 300	*Extracted:*						
	Analyzed:	Jul-22-07 01:11					
	Units/RL:	mg/L	RL				
Chloride		328	5.00				
Residue, Filterable (TDS) by EPA 160.1	*Extracted:*						
	Analyzed:	Jul-25-07 16:30					
	Units/RL:	mg/L	RL				
Total dissolved solids		912	5.00				

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.

Blank Spike Recovery

Project Name: ABO Apache Leak

Work Order #: 286347 **Project ID:**

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 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	10.3	103	90-110	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.

Form 3 - MS Recoveries

Project Name: ABO Apache Leak

Work Order #: 286347
Lab Batch #: 700978
Date Analyzed: 07/21/2007
QC- Sample ID: 286343-001 S
Reporting Units: mg/L

Date Prepared: 07/21/2007
Batch #: 1

Project ID:
Analyst: IRO
Matrix: Water

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	661	250	907	98	90-110	

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

Sample Duplicate Recovery

Project Name: ABO Apache Leak

Work Order #: 286347

Lab Batch #: 700978 **Project ID:**
Date Analyzed: 07/21/2007 **Date Prepared:** 07/21/2007 **Analyst:** IRO
QC- Sample ID: 286343-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

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

Lab Batch #: 701044
Date Analyzed: 07/25/2007 **Date Prepared:** 07/25/2007 **Analyst:** IRO
QC- Sample ID: 286343-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

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

Lab Batch #: 701044
Date Analyzed: 07/25/2007 **Date Prepared:** 07/25/2007 **Analyst:** IRO
QC- Sample ID: 286396-001 D **Batch #:** 1 **Matrix:** Water
Reporting Units: mg/L

Residue, Filterable (TDS) by EPA 160.1	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
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 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

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

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

Project Name: ABO Apache Leak

Project #:

Project Loc: T19S R37E Sec1 G ~ Lea County New Mexico

PO #:

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

(lab use only)
ORDER #: 280347

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TCLP: TPH: TX 1005 TX 1006	TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Total Dissolved Solids	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			7/19/2007	9:35		1	X						1		GW												X	X			X

Special Instructions:

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

	Relinquished by:	Date	Time	Received by:	Date	Time
1	Rozanne Johnson	7-20-07	9:00	James Johnson	7-20-07	9:01
2	James Johnson	7-20-07	1:45	Received by:	Date	Time
3	Relinquished by:	Date	Time	Received by ELOT:	7-20-07	1:45

Laboratory Comments:

Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	N
Custody seals on container(s)	N
Custody seals on cooler(s)	N
Sample Hand Delivered	N
by Sampler/Client Rep. ?	N
by Courier? UPS DHL FedEx Lone Star	
Temperature Upon Receipt: -2.0 °C	

Net Frozen

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice

Date/ Time: 7·20·07 1:45

Lab ID #: 286347

Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	-2.0 °C	Not Frozen
#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

CARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 11/30/07
Reporting Date: 12/07/07
Project Number: NOT GIVEN
Project Name: ABO APACHE LEAK
Project Location: T19S-RE-SEC1 G~LEA COUNTY, NM

Sampling Date: 11/28/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: NF
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:	12/04/07	12/04/07	12/04/07	12/04/07	12/04/07	12/04/07
H13806-1 MONITOR WELL #1	87	125	21.8	4.41	1,207	236
Quality Control	NR	49.2	50.8	2.88	1,423	NR
True Value QC	NR	50.0	50.0	3.00	1,413	NR
% Recovery	NR	98.5	102	96.0	101	NR
Relative Percent Difference	NR	< 0.1	1.6	12.4	1.1	NR
METHODS:	SM3500-Ca-D		3500-Mg E	8049	120.1	310.1

LAB NUMBER SAMPLE ID	Cl^- (mg/L)	SO_4 (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	12/06/07	12/04/07	12/04/07	12/04/07	12/04/07	12/03/07
H13806-1 MONITOR WELL #1	200	76.6	0	288	7.36	791
Quality Control	500	28.0	NR	988	7.05	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	112	NR	98.8	101	NR
Relative Percent Difference	< 0.1	5.8	NR	1.2	0.1	NR
METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Kristin Suprotto
Chemist

12/07/07
Date

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 11/30/07
Reporting Date: 12/03/07
Project Number: NOT GIVEN
Project Name: ABO APACHE LEAK
Project Location: T19S-RE-SEC1 G ~ LEA COUNTY, NM

Sampling Date: 11/28/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: AB

LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	11/30/07	11/30/07	11/30/07	11/30/07
H13806-1 MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
Quality Control	0.107	0.096	0.095	0.300
True Value QC	0.100	0.100	0.100	0.300
% Recovery	107	96	95	100
Relative Percent Difference	1.7	3.4	3.3	4.1

METHOD: EPA SW-846 8021B

Burgess J. A. Cook
Chemist

12/03/07
Date

H13806 RICE

101 East Marland - Hobbs, New Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: RICE Operating Company	BILL TO Company: RICE Operating Company — PO#
Project Manager: Kristin Farris-Pope, Project Scientist	Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#: (505) 393-9174 — Fax#: (505)397-1471
Phone #: (505) 393-9174	Fax #: (505)397-1471
Project #:	Project Name: Abo Apache Leak
Project Location: T19S-RE-Sec1 G ~ Lea County - New Mexico	Sampler Signature: Rozanne Johnson (505)631-9310 rozanne@valornet.com

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE (1-1Liter HDPE)	NONE		SAMPLING: DATE (2007)	TIME
H13806-1	Monitor Well #1	G	3	X					2				1			11-28	8:15

ANALYSIS REQUEST
(Circle or Specify Method No.)

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content		Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
	X																X	X	X		

Relinquished by: Rozanne Johnson	Date: 11-30-2007	Time: 10:00	Received by:	Date: 11-30-07	Time: 10:00 AM
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff)	Date:	Time:

Phone Results		Yes		No
Fax Results		Yes		No Additional Fax Number:

REMARKS:

Email Results to: kpope@riceswd.com
lweinheimer@riceswd.com
rozanne@valornet.com

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool: Yes [X] No [ ] — Intact: Yes [X] No [ ]	(Initials) MA