

1R - 426-40

REPORTS

DATE:

3/19/2004

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 1343

180426-40

March 19, 2004

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: 2003 MONITOR WELL REPORT/SAMPLING SUMMARY
JCT. J-26, BD SWD SYSTEM
UNIT 'J', SEC. 26, T21S, R37E
LEA COUNTY, NEW MEXICO

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2003 Monitor Well Report for the BD junction J-26 located in the Blinbry Drinkard (BD) Salt Water Disposal System. ROC installed one monitor well during the original junction box upgrade process and vadose zone delineation. Two more monitor wells were installed in August of 2003. The locations of these wells are defined on the enclosed survey map. The wells are sampled quarterly pursuant to NMOCD guidelines.

In 2003, ROC and Trident Environmental of Midland, Texas conducted the quarterly sampling of the monitor wells. In 2004, Trident will continue to sample the wells at this site, as well as a windmill approximately 2,000 feet east of this site. Environmental Lab of Texas of Odessa, Texas will conduct analytical tests of the water samples.

Trident Environmental has been contracted by ROC to address the groundwater concerns at this site according to the NMOCD-approved work plan (6/27/2003). Trident will continue to investigate and characterize groundwater issues at this site and NMOCD will be notified of any significant events.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

Kristin Forrie

enclosures: **Summary table & graph**
 Analytical results
 Survey map

cc: LBG, CDH, file, Rob Roy Industries, Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240

BD J-26

J. 26, 21S, 37E Pump Station

Rice Operating Co. Monitor Well Data Sheet

All parameter concentrations are in mg/L.

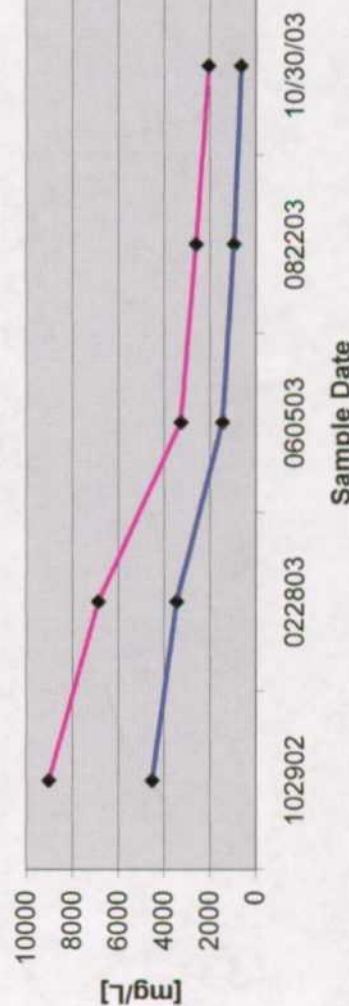
(gal)

(ft)

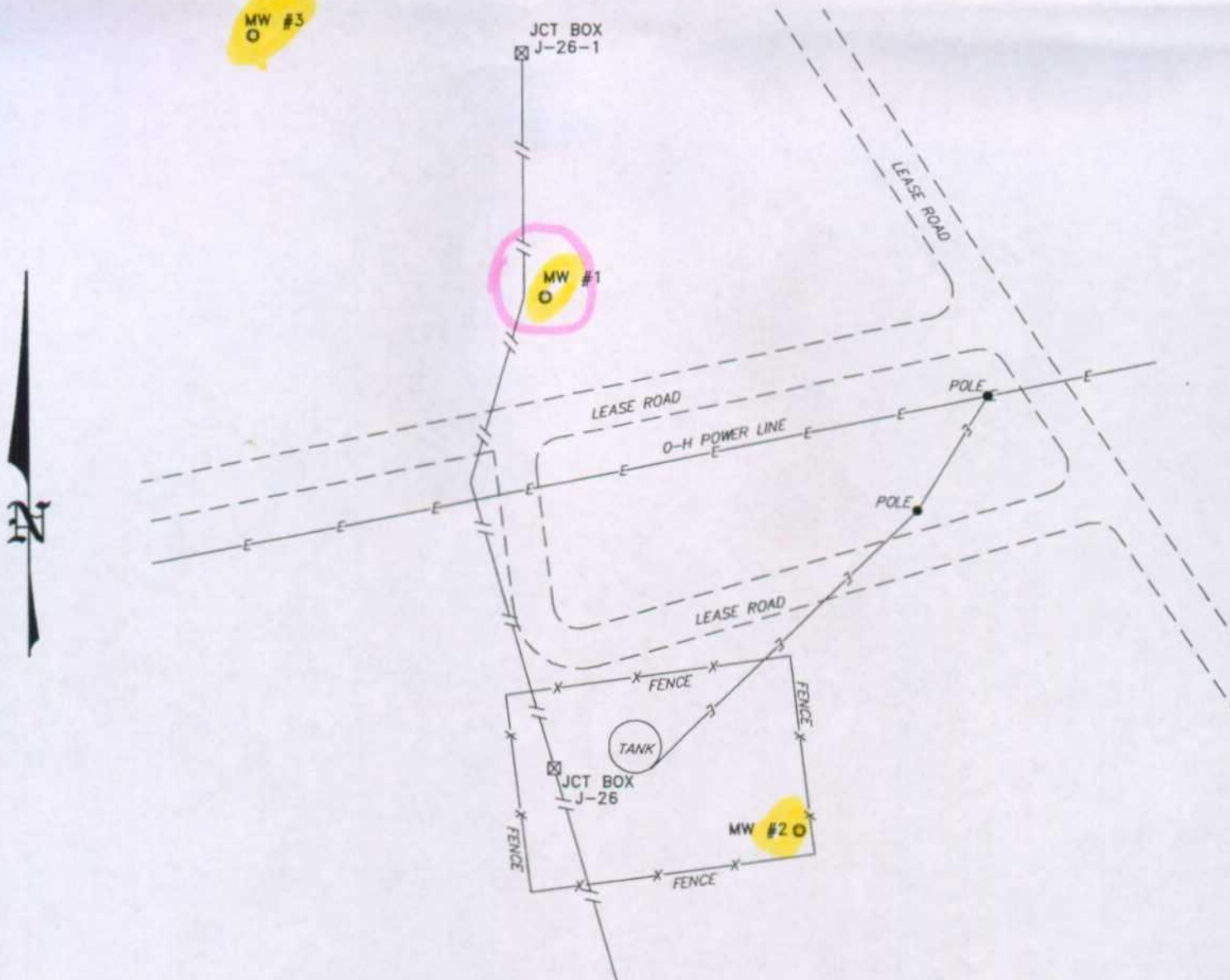
MW #	WATER LEVEL	TOTAL DEPTH	WELL VOLUME	VOLUME BAILED	SAMPLE DATE	TIME	CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	
1	43.02	53.93	1.746	5.50	102902	1235	4520	9020	<0.001	<0.001	<0.001	<0.001	Silty
1	42.33	52.51	1.620	4.80	022803	1530	3470	6870	<0.001	<0.001	<0.001	<0.001	
1	42.52	52.60	1.610	4.80	060503	1600	1460	3280	<0.001	<0.001	<0.001	<0.001	
1	43.72	53.50	1.170	12.00	082203	1345	957	2620	<0.001	<0.001	<0.001	<0.001	
1	43.91	53.50			10/30/03	1143	620	2040	<0.001	<0.001	<0.001	<0.001	
2	43.99	59.20	2.467	12.00	082203	1300	239	1180	<0.001	<0.001	<0.001	<0.001	
2	44.17	59.20			10/30/03	1127	239	1240	<0.001	<0.001	<0.001	<0.001	
3	43.06	60.25	2.800	12.00	082203	1205	160	904	<0.001	<0.001	<0.001	<0.001	
3	43.28	60.25			10/30/03	1112	168	1070	<0.001	<0.001	<0.001	<0.001	

BD J-26 Monitor Well

Series1 Series2



SECTION 26, TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



NEW MEXICO STATE PLANE COORDINATES (NAD 83)

WELL#	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV(TOC)	ELEV(CONC)	ELEV(GRND)
MW #1	528942.736	912672.885	N32°26'54.1"	W103°07'46.4"	3375.84'	3373.56'	3373.46'
MW #2	528743.178	912768.881	N32°26'52.1"	W103°07'45.4"	3375.32'	3372.64'	3372.41'
MW #3	529039.760	912563.860	N32°26'55.1"	W103°07'47.7"	3375.85'	3373.34'	3373.18'

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

[Signature]
GARY L. JONES N.M. P.S.
TEXAS P.L.S.
No. 7977
No. 5074

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

W.O. Number: 3583 Drawn By: K. GOAD

Date: 08-27-2003 Disk: KJG CD#4 - RC3583A.DWG

60 0 60 120 FEET

RICE OPERATING COMPANY

REF: BLINEBRY-DRINKARD

MONITOR WELLS LOCATED IN
SECTION 26, TOWNSHIP 21 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 08-26-2003 Sheet 1 of 1 Sheets

ANALYTICAL REPORT

Prepared for:

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

Project: J-26

PO#:

Order#: G0305850

Report Date: 03/05/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0305850
Project:
Project Name: J-26
Location: BD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0305850-01	MW 1	WATER	2/28/03	2/28/03 19:40	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp:	3.5 C		
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305850
Project:
Project Name: J-26
Location: BD

Lab ID: 0305850-01
Sample ID: MW 1

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0004817-02		3/3/03 19:49	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	105%	80	120
Bromofluorobenzene	99%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

3-05-03

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305850
Project:
Project Name: J-26
Location: BD

Lab ID: 0305850-01
Sample ID: MW 1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	440	mg/L	1	2.00	310.1	3/3/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/3/03	SB
Chloride	3470	mg/L	1	5.00	9253	3/3/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/3/03	SB
SULFATE, 375.4	501	mg/L	10	5.0	375.4	3/4/03	SB

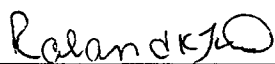
Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	139	mg/L	100	1.0	6010B	3/3/03	SM
Magnesium	46.2	mg/L	10	0.010	6010B	3/3/03	SM
Potassium	74.1	mg/L	10	0.50	6010B	3/3/03	SM
Sodium	1710	mg/L	1000	10.0	6010B	3/3/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	6870	mg/L	1	5.0	160.1	3/3/03	TAL

Approval:


Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

3-05-03

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305850

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0004817-02			<0.001		
Toluene-mg/L		0004817-02			<0.001		
Ethylbenzene-mg/L		0004817-02			<0.001		
p/m-Xylene-mg/L		0004817-02			<0.001		
o-Xylene-mg/L		0004817-02			<0.001		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0004817-03		0.1	0.100	100.%	
Toluene-mg/L		0004817-03		0.1	0.101	101.%	
Ethylbenzene-mg/L		0004817-03		0.1	0.100	100.%	
p/m-Xylene-mg/L		0004817-03		0.2	0.206	103.%	
o-Xylene-mg/L		0004817-03		0.1	0.099	99.%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0004817-04		0.1	0.095	95.%	5.1%
Toluene-mg/L		0004817-04		0.1	0.095	95.%	6.1%
Ethylbenzene-mg/L		0004817-04		0.1	0.094	94.%	6.2%
p/m-Xylene-mg/L		0004817-04		0.2	0.193	96.5%	6.5%
o-Xylene-mg/L		0004817-04		0.1	0.094	94.%	5.2%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0004817-05		0.1	0.093	93.%	
Toluene-mg/L		0004817-05		0.1	0.095	95.%	
Ethylbenzene-mg/L		0004817-05		0.1	0.094	94.%	
p/m-Xylene-mg/L		0004817-05		0.2	0.194	97.%	
o-Xylene-mg/L		0004817-05		0.1	0.094	94.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0305850

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0004837-01			<2.00		
Carbonate Alkalinity-mg/L		0004833-01			<0.10		
Chloride-mg/L		0004836-01			<5.00		
Hydroxide Alkalinity-mg/L		0004834-01			<0.10		
SULFATE, 375.4-mg/L		0004835-01			<0.50		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0305850-01	440		441		0.2%
Carbonate Alkalinity-mg/L		0305850-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L		0305850-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L		0305850-01	501		493		1.6%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0305850-01	3470	1000	4450	98.0%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0305850-01	3470	1000	4470	100.0%	0.4%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0004837-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0004833-04		0.05	0.0496	99.2%	
Chloride-mg/L		0004836-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L		0004834-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L		0004835-04		50	48.9	97.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0305850

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0004810-01			<0.010		
Magnesium-mg/L		0004810-01			<0.001		
Potassium-mg/L		0004810-01			<0.050		
Sodium-mg/L		0004810-01			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0305851-01	95.8		98.8		3.1%
Magnesium-mg/L		0305851-01	54.3		53.5		1.5%
Potassium-mg/L		0305851-01	9.4		9.42		0.2%
Sodium-mg/L		0305851-01	265		261		1.5%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0004810-04		2	2.08	104.%	
Magnesium-mg/L		0004810-04		2	2.22	111.%	
Potassium-mg/L		0004810-04		2	1.72	86.%	
Sodium-mg/L		0004810-04		2	1.79	89.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305850

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0004824-01			<5.0		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0305850-01	6870		6880		0.1%

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: T-26

Project #: _____

Project Loc: BD

PO #: _____

Project Manager: Kristin Farris
Company Name: Rice Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs NM 88240
Telephone No: (505) 393-9174
Fax No:
Sampler Signature: Joe Farris

Special Instructions:		Relinquished by:				Received by:			
Anions & Cations TDS		Date		Time		Date		Time	
LAB # (lab use only)		2-28-03		4:30		2-28-03		19:40	
0305850		J. D. Dett				P. L. D. R. S.			
Relinquished by:		2-28-03		19:40		2-28-03		19:40	
Relinquished by:		P. L. D. R. S.				P. L. D. R. S.			

FIELD CODE		Date Sampled	Time Sampled	No. of Containers	Preservative					Matrix					Analyze For:									
					Ice	HNO ₃	HCl (2) 40 ml glass	H ₂ SO ₄	None (1) L HDPE	Other (Specify)	Water	Sediment	Soil	Other (Specify)	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	Standard TAT	RUSH TAT (Pre-Schedule)	
01 MW1		2-25-03		1	X						X				X									
MW1		2-28-03		2	X						X				X									

Sample Containers Impacted? Y N
 Temperature Upon Receipt 3,5°C
 Laboratory Comments:

ANALYTICAL REPORT

Prepared for:

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

Project: J-26
PO#: 505
Order#: G0306666
Report Date: 06/10/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0306666
Project:
Project Name: J-26
Location: B.D.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0306666-01	MW1	WATER	6/5/03 16:00	6/5/03 19:50	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306666
Project:
Project Name: J-26
Location: B.D.

Lab ID: 0306666-01
Sample ID: MW1

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0005784-02		6/10/03 1:08	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	89%	80	120
Bromofluorobenzene	84%	80	120

Approval: Jeanne McMurrey 06-11-03
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306666
Project:
Project Name: J-26
Location: B.D.

Lab ID: 0306666-01

Sample ID: MW1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	360	mg/L	2	4.0	310.1	6/6/03	SB
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	6/6/03	SB
Chloride	1460	mg/L	1	5.00	9253	6/6/03	SB
Hydroxide Alkalinity	< 0.20	mg/L	2	0.20	310.1	6/6/03	SB
SULFATE, 375.4	330	mg/L	5	2.5	375.4	6/6/03	SB

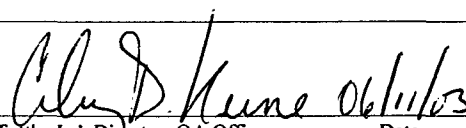
Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	54.5	mg/L	10	0.10	6010B	6/6/03	SM
Magnesium	16.5	mg/L	10	0.010	6010B	6/6/03	SM
Potassium	37.6	mg/L	10	0.50	6010B	6/6/03	SM
Sodium	1080	mg/L	100	1.0	6010B	6/6/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	3,280	mg/L	1	5.0	160.1	6/6/03	SB

Approval:


Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0306666

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0005759-01			<2.00	
Carbonate Alkalinity-mg/L		0005760-01			<0.10	
Chloride-mg/L		0005758-01			<5.00	
Hydroxide Alkalinity-mg/L		0005761-01			<0.10	
SULFATE, 375.4-mg/L		0005762-01			<0.5	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0306663-01	494		492	0.4%
Carbonate Alkalinity-mg/L		0306663-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0306663-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0306663-01	20.5		19.5	5.0%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0306663-01	2300	2500	4786	99.4%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0306663-01	2300	2500	4830	101.2%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0005759-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0005760-04		0.05	0.0496	99.2%
Chloride-mg/L		0005758-04		5000	4960	99.2%
Hydroxide Alkalinity-mg/L		0005761-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0005762-04		50	51.8	103.6%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306666

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0005784-02			<0.001	
Toluene-mg/L		0005784-02			<0.001	
Ethylbenzene-mg/L		0005784-02			<0.001	
p/m-Xylene-mg/L		0005784-02			<0.001	
o-Xylene-mg/L		0005784-02			<0.001	
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0306653-15	0	0.1	0.105	105.0%
Toluene-mg/L		0306653-15	0	0.1	0.095	95.0%
Ethylbenzene-mg/L		0306653-15	0	0.1	0.086	86.0%
p/m-Xylene-mg/L		0306653-15	0	0.2	0.171	85.5%
o-Xylene-mg/L		0306653-15	0	0.1	0.082	82.0%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0306653-15	0	0.1	0.097	97.0%
Toluene-mg/L		0306653-15	0	0.1	0.090	90.0%
Ethylbenzene-mg/L		0306653-15	0	0.1	0.086	86.0%
p/m-Xylene-mg/L		0306653-15	0	0.2	0.170	85.0%
o-Xylene-mg/L		0306653-15	0	0.1	0.083	83.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0005784-05		0.1	0.104	104.0%
Toluene-mg/L		0005784-05		0.1	0.099	99.0%
Ethylbenzene-mg/L		0005784-05		0.1	0.094	94.0%
p/m-Xylene-mg/L		0005784-05		0.2	0.194	97.0%
o-Xylene-mg/L		0005784-05		0.1	0.093	93.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0306666

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0005755-02			<0.010		
Magnesium-mg/L		0005755-02			<0.001		
Potassium-mg/L		0005755-02			<0.050		
Sodium-mg/L		0005755-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0306666-01	54.5		53.7		1.5%
Magnesium-mg/L		0306666-01	16.5		16.1		2.5%
Potassium-mg/L		0306666-01	37.6		37.6		0.0%
Sodium-mg/L		0306666-01	1080		1090		0.9%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0005755-05		2	2.00	100.0%	
Magnesium-mg/L		0005755-05		2	2.12	106.0%	
Potassium-mg/L		0005755-05		2	1.80	90.0%	
Sodium-mg/L		0005755-05		2	1.92	96.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306666

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Total Dissolved Solids (TDS)-mg/L		0005772-01			<5.0		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Total Dissolved Solids (TDS)-mg/L		0306663-01	4184		4312		3.0%

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Kristin Farris

J-26

Company Name RICE Operating

Project #:

122 W. Taylor

Project Loc:

City/State/Zip: Fla 32605, NM 88240

PO #: 505

Telephone No (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature:

Israel Jones

[illegible]

BD J-26

ANALYTICAL REPORT

Prepared for:

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Project: Rice Operating Company

PO#:

Order#: G0307313

Report Date: 08/27/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708
682-0727

Order#: G0307313
Project:
Project Name: Rice Operating Company
Location: BD J-26

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0307313-01	MW-1	WATER	8/22/03 13:45	8/25/03 9:03	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 4.5 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307313-02	MW-2	WATER	8/22/03 13:00	8/25/03 9:03	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 4.5 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307313-03	MW-3	WATER	8/22/03 12:05	8/25/03 9:03	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 4.5 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307313
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307313-01

Sample ID: MW-1

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006639-02		8/26/03	1	1	JMM	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	118%	80	120
Bromofluorobenzene	98%	80	120

Lab ID: 0307313-02

Sample ID: MW-2

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006639-02		8/26/03	1	1	JMM	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	118%	80	120
Bromofluorobenzene	100%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307313
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307313-03
Sample ID: MW-3

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006639-02		8/26/03	1	1	JMM	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	120%	80	120
Bromofluorobenzene	100%	80	120

Approval:

Celey D. Keene
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biczugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

08/28/03

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307313
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307313-01
Sample ID: MW-1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	304	mg/L	2	4.0	310.1	8/25/03	SB
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	8/25/03	SB
Chloride	957	mg/L	1	5.00	9253	8/27/03	SB
Hydroxide Alkalinity	<0.20	mg/L	2	0.20	310.1	8/25/03	SB
SULFATE, 375.4	431	mg/L	10	5.0	375.4	8/26/03	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Calcium	42.2	mg/L	10	0.10	6010B	8/26/03	SM
Magnesium	9.67	mg/L	1	0.001	6010B	8/26/03	SM
Potassium	54.2	mg/L	10	0.50	6010B	8/26/03	SM
Sodium	2520	mg/L	1000	10.0	6010B	8/26/03	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	2620	mg/L	1	5.0	160.1	8/25/03	TAL

Lab ID: 0307313-02
Sample ID: MW-2

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	208	mg/L	2	4.0	310.1	8/25/03	SB
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	8/25/03	SB
Chloride	239	mg/L	1	5.00	9253	8/27/03	SB
Hydroxide Alkalinity	< 0.20	mg/L	2	0.20	310.1	8/25/03	SB
SULFATE, 375.4	384	mg/L	10	5.0	375.4	8/26/03	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Calcium	74.5	mg/L	10	0.10	6010B	8/26/03	SM
Magnesium	25.2	mg/L	10	0.010	6010B	8/26/03	SM
Potassium	42.4	mg/L	10	0.50	6010B	8/26/03	SM
Sodium	555	mg/L	100	1.0	6010B	8/26/03	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	1180	mg/L	1	5.0	160.1	8/25/03	TAL

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307313
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307313-03
Sample ID: MW-3

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	210	mg/L	2	4.0	310.1	8/25/03	SB
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	8/25/03	SB
Chloride	160	mg/L	1	5.00	9253	8/27/03	SB
Hydroxide Alkalinity	< 0.20	mg/L	2	0.20	310.1	8/25/03	SB
SULFATE, 375.4	183	mg/L	2.5	1.25	375.4	8/26/03	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Calcium	65.2	mg/L	10	0.10	6010B	8/26/03	SM
Magnesium	25.6	mg/L	10	0.010	6010B	8/26/03	SM
Potassium	38.3	mg/L	10	0.50	6010B	8/26/03	SM
Sodium	426	mg/L	100	1.0	6010B	8/26/03	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	904	mg/L	1	5.0	160.1	8/25/03	TAL

Approval:

Coley D. Keene 08/28/03
Raland K. Tuttle, Lab Director, QA Officer
Coley D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezughe, Lab Tech.
Sara Molina, Lab Tech.

Date

RL = Reporting Limit N/A = Not Applicable

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307313

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0006639-02			<0.001		
Toluene-mg/L		0006639-02			<0.001		
Ethylbenzene-mg/L		0006639-02			<0.001		
p/m-Xylene-mg/L		0006639-02			<0.001		
o-Xylene-mg/L		0006639-02			<0.001		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0006639-03		0.1	0.108	108.%	
Toluene-mg/L		0006639-03		0.1	0.111	111.%	
Ethylbenzene-mg/L		0006639-03		0.1	0.101	101.%	
p/m-Xylene-mg/L		0006639-03		0.2	0.210	105.%	
o-Xylene-mg/L		0006639-03		0.1	0.102	102.%	
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0307313-01	0		<0.001		0.%
Toluene-mg/L		0307313-01	0		<0.001		0.%
Ethylbenzene-mg/L		0307313-01	0		<0.001		0.%
p/m-Xylene-mg/L		0307313-01	0		<0.001		0.%
o-Xylene-mg/L		0307313-01	0		<0.001		0.%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0006639-05		0.1	0.107	107.%	
Toluene-mg/L		0006639-05		0.1	0.110	110.%	
Ethylbenzene-mg/L		0006639-05		0.1	0.101	101.%	
p/m-Xylene-mg/L		0006639-05		0.2	0.214	107.%	
o-Xylene-mg/L		0006639-05		0.1	0.102	102.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0307313

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0006617-01			<2.00		
Carbonate Alkalinity-mg/L		0006618-01			<0.10		
Chloride-mg/L		0006640-01			<5.00		
Hydroxide Alkalinity-mg/L		0006619-01			<0.10		
SULFATE, 375.4-mg/L		0006634-01			<0.50		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0307300-01	500		502		0.4%
Carbonate Alkalinity-mg/L		0307300-01	0		< 0.20		0.9%
Hydroxide Alkalinity-mg/L		0307300-01	0		< 0.20		0.9%
SULFATE, 375.4-mg/L		0307300-01	4.9		5.00		2.9%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0307300-01	2060	1000	3050	99.9%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0307300-01	2060	1000	3070	101.9%	0.7%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0006617-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0006618-04		0.05	0.0496	99.2%	
Chloride-mg/L		0006640-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L		0006619-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L		0006634-04		50	50.7	101.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0307313

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0006632-01			<0.010		
Magnesium-mg/L		0006632-01			<0.001		
Potassium-mg/L		0006632-01			<0.050		
Sodium-mg/L		0006632-01			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0307300-01	78.1		77.3		1.9%
Magnesium-mg/L		0307300-01	30.4		29.8		2.9%
Potassium-mg/L		0307300-01	5.82		4.95		16.2%
Sodium-mg/L		0307300-01	1150		1160		0.9%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0006632-04		2	2.05	102.5%	
Magnesium-mg/L		0006632-04		2	2.04	102.2%	
Potassium-mg/L		0006632-04		2	1.73	86.5%	
Sodium-mg/L		0006632-04		2	1.73	86.5%	

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****Test Parameters**

Order#: G0307313

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0006633-01			<5.0		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0307303-01	2550		2830		10.4%

TRIDENT

ENVIRONMENTAL

Trident Environmental
P.O. Box 7624
Midland, Texas 79708
(915) 682-0808
(915) ~~682-4578~~ (Fax) 682-0722
(505) 397-1471

V118-0803-1

Chain of Custody

Date 8/22/03 Page 1 of 1

Lab Name: Environmental Lab of Texas, Inc.

Address: 12600 West I-20 East

Odessa, TX 79763

Telephone: (915) 563-1800 Fax: (915) 563-1713

Samples (SIGNATURES)

Sample Identification

Matrix

Date

Time

Sample Type:

G - Grab, C - Composite

BTEX (EPA 8021B)

MTBE (EPA 8021B)

SVOC (EPA 8270)

PAH (EPA 8270)

VOC (EPA 8260)

TPH (EPA 418.1)

TPH (TX-1005)

TPH (TX-1006)

GRO (EPA 8015G)

DRO (EPA 8015D)

TDS (EPA 160.1)

Anions/Cations *

Total Metals

TCLP Metals

Number of Containers

Analysis Request

Project Name:	Rice Operating Company	Total Containers:	Relinquished By:	Relinquished By:	Relinquished By:
Project Location:	BD J-26	COC Seals:	Trident Environmental		
Project Manager:	Gil Van Deventer	Recd Good Cond/Cold:			
Cost Center No.:	V-118	Conforms to Records:			
Shipping ID No.:		Lab No.:			
Bill to (see below):	Rice Operating Company				
Special Instructions:	Attn: Carolyn Haynes 122 W. Taylor Hobbs, NM 88240				

Sample Identification	Matrix	Date	Time	Sample Type	BTEX (EPA 8021B)	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	TPH (TX-1005)	TPH (TX-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations *	Total Metals	TCLP Metals	Number of Containers
MW-1	Water	8/22/03	1345	✓															3
MW-2	Water	8/24/03	1200	✓															3
MW-3	Water	8/22/03	1205	✓															3

Relinquished By:	Relinquished By:	Relinquished By:
(1) (Company)	(2) (Company)	(3) (Company)
Trident Environmental		
(Signature) Gil Van Deventer	(Signature)	(Signature)
(Date) 8/25/03 (Time) 0900	(Date)	(Date)
Received By:	Received By:	Received By:
(1) (Company)	(2) (Company)	(3) (Company)
ELDT		
(Signature) K. Anderson	(Signature)	(Signature)
(Date) 8/25/03 (Time) 0903	(Date)	(Date)

* Anions/Cations: Cl, SO₄, HCO₃, CO₃, Ca, Mg, K, Na

4.500 144DPE

Copy signed original form for Trident Environmental records

ANALYTICAL REPORT

Prepared for:

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Project: Rice Operating Company

PO#:

Order#: G0307833

Report Date: 11/07/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708
682-0727

Order#: G0307833
Project:
Project Name: Rice Operating Company
Location: BD J-26

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time	Date / Time	Container	Preservative
			Collected	Received		
0307833-01	MW-1	WATER	10/30/03 11:43	10/31/03 16:55	See COC	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307833-02	MW-2	WATER	10/30/03 11:27	10/31/03 16:55	See COC	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					
0307833-03	MW-3	WATER	10/30/03 11:12	10/31/03 16:55	See COC	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8021B/5030 BTEX					
	Anions					
	Cations					
	Total Dissolved Solids (TDS)					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307833
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307833-01
Sample ID: MW-1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007355-02		11/6/03	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	104%	80	120

Lab ID: 0307833-02
Sample ID: MW-2

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0007355-02		11/6/03	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	102%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307833
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307833-03
Sample ID: MW-3

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0007355-02		11/6/03	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	99%	80	120
Bromofluorobenzene	101%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Date

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307833
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307833-01
Sample ID: MW-1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	294	mg/L	2	4.0	310.1	11/3/03	CK
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	11/3/03	CK
Chloride	620	mg/L	1	5.00	325	11/3/03	CK
Hydroxide Alkalinity	< 0.20	mg/L	2	0.20	310.1	11/3/03	CK
SULFATE, 375.4	394	mg/L	10	5.0	375.4	11/4/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	30.3	mg/L	10	0.10	6010B	11/5/03	SM
Magnesium	6.43	mg/L	1	0.001	6010B	11/5/03	SM
Potassium	18.9	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	659	mg/L	100	1.0	6010B	11/5/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	2040	mg/L	1	5.0	160.1	11/3/03	KKA

Lab ID: 0307833-02
Sample ID: MW-2

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	252	mg/L	2	4.0	310.1	11/3/03	CK
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	11/3/03	CK
Chloride	239	mg/L	1	5.00	325	11/3/03	CK
Hydroxide Alkalinity	< 0.20	mg/L	2	0.20	310.1	11/3/03	CK
SULFATE, 375.4	363	mg/L	10	5.0	375.4	11/4/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	76.5	mg/L	10	0.10	6010B	11/5/03	SM
Magnesium	27.7	mg/L	10	0.010	6010B	11/5/03	SM
Potassium	13.3	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	239	mg/L	100	1.0	6010B	11/5/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1240	mg/L	1	5.0	160.1	11/3/03	KKA

RL = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

GILBERT VAN DEVENTER
TRIDENT ENVIRONMENTAL
P.O. BOX 7624
MIDLAND, TX 79708

Order#: G0307833
Project:
Project Name: Rice Operating Company
Location: BD J-26

Lab ID: 0307833-03
Sample ID: MW-3

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	268	mg/L	2	4.0	310.1	11/3/03	CK
Carbonate Alkalinity	< 0.20	mg/L	2	0.20	310.1	11/3/03	CK
Chloride	168	mg/L	1	5.00	325	11/3/03	CK
Hydroxide Alkalinity	< 0.20	mg/L	2	0.20	310.1	11/3/03	CK
SULFATE, 375.4	421	mg/L	10	5.0	375.4	11/4/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	84.0	mg/L	10	0.10	6010B	11/5/03	SM
Magnesium	33.8	mg/L	10	0.010	6010B	11/5/03	SM
Potassium	9.48	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	105	mg/L	100	1.0	6010B	11/5/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1070	mg/L	1	5.0	160.1	11/3/03	KKA

Approval:

Cele D. Keene 11/7/03
Raland K. Tuttle, Lab Director, QA Officer
Cele D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

RL = Reporting Limit N/A = Not Applicable

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307833

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0007355-02			<0.001		
Toluene-mg/L		0007355-02			<0.001		
Ethylbenzene-mg/L		0007355-02			<0.001		
p/m-Xylene-mg/L		0007355-02			<0.001		
o-Xylene-mg/L		0007355-02			<0.001		
CONTROL		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0007355-03		0.1	0.085	85.%	
Toluene-mg/L		0007355-03		0.1	0.085	85.%	
Ethylbenzene-mg/L		0007355-03		0.1	0.082	82.%	
p/m-Xylene-mg/L		0007355-03		0.2	0.164	82.%	
o-Xylene-mg/L		0007355-03		0.1	0.085	85.%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0007355-04		0.1	0.088	88.%	3.5%
Toluene-mg/L		0007355-04		0.1	0.087	87.%	2.3%
Ethylbenzene-mg/L		0007355-04		0.1	0.084	84.%	2.4%
p/m-Xylene-mg/L		0007355-04		0.2	0.169	84.5%	3.%
o-Xylene-mg/L		0007355-04		0.1	0.089	89.%	4.6%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0007355-05		0.1	0.088	88.%	
Toluene-mg/L		0007355-05		0.1	0.088	88.%	
Ethylbenzene-mg/L		0007355-05		0.1	0.085	85.%	
p/m-Xylene-mg/L		0007355-05		0.2	0.173	86.5%	
o-Xylene-mg/L		0007355-05		0.1	0.091	91.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0307833

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0007330-02			<0.010		
Magnesium-mg/L		0007330-02			<0.001		
Potassium-mg/L		0007330-02			<0.050		
Sodium-mg/L		0007330-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0307832-02	92		91.2		0.9%
Magnesium-mg/L		0307832-02	51.6		51.4		0.4%
Potassium-mg/L		0307832-02	11		11.0		0.0%
Sodium-mg/L		0307832-02	359		363		1.1%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0007330-05		2	1.79	89.5%	
Magnesium-mg/L		0007330-05		2	2.14	107.0%	
Potassium-mg/L		0007330-05		2	1.94	97.0%	
Sodium-mg/L		0007330-05		2	1.76	88.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0307833

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0007312-01			<2.00		
Carbonate Alkalinity-mg/L		0007312-01			<0.10		
Chloride-mg/L		0007311-01			<5.00		
Hydroxide Alkalinity-mg/L		0007312-01			<0.10		
SULFATE, 375.4-mg/L		0007346-01			<0.50		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0307832-04	296		300		1.3%
Carbonate Alkalinity-mg/L		0307832-04	0		< 0.20		0.0%
Hydroxide Alkalinity-mg/L		0307832-04	0		<0.20		0.0%
SULFATE, 375.4-mg/L		0307832-01	519		521		0.4%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0307833-02	239	500	718	95.8%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0307833-02	239	500	718	95.8%	0.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0007312-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0007312-04		0.05	0.0496	99.2%	
Chloride-mg/L		0007311-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L		0007312-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L		0007346-04		50	51.0	102.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0307833

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0007325-01			<5.00		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0307832-04	1150		1200		4.3%



V-118-1003-1

Chain of Custody

Date 10-30-03 Page 1 of 1

[illegible]

Copy signed original form for Trident Environmental records

250 mL HDPE
1 L HDPE 40 mL VOA

0.50

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 0995

April 1, 2003

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

RE: 2002 MONITOR WELL REPORT/SAMPLING SUMMARY
BD SWD SYSTEM
LEA COUNTY, NEW MEXICO

Mr. Olson:

Rice Operating Company (ROC) takes this opportunity to submit the 2002 Monitor Well Report for the Blinebry-Drinkard (BD) Salt Water Disposal System. There are 4 sites in this system that have monitor wells that are sampled quarterly pursuant to NMOCD guidelines. Groundwater impact became apparent at these sites during the remediation process of the Junction Box Upgrade Plan.

Site Name	Unit Letter	Section	Township/Range
J-26 jct.	J	26	T21S, R37E
Zachary Hinton jct.	O	12	T22S, R37E
F-17 jct.	F	17	T21S, R37E
I-27 jct.	I	27	T22S, R37E

In 2002, the Zachary Hinton monitor well was sampled by Environmental Plus, Inc. of Eunice, and also by ROC. The 2002 sampling events for J-26, F-17, and I-27 were conducted by ROC. In 2003, ROC will continue to conduct the sampling of the monitor wells at these sites. As in 2002, either Environmental Lab of Texas of Odessa, Texas, or Cardinal Laboratories of Hobbs will conduct analytical tests of the water samples of 2003.

Trident Environmental of Midland, Texas and R. T. Hicks Consultants, Ltd. of Albuquerque have been contracted by ROC to prioritize the junction box disclosure sites and to generate work plans for remediation of the vadose zone. NMOCD can anticipate the submittal of work plans for several such sites in 2003. After NMOCD approval, AFE's will be submitted to System Partners for approval. Sites with confirmed groundwater impact will also be evaluated for the extent of groundwater impact.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has not 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

Kristin Farris
Project Scientist

Enclosures: Summary table & graph for each site
 Analytical results

Cc: LBG, CDH, file, Chris Williams
 NMOCD, District I Office
 1625 N. French Drive
 Hobbs, NM 88240

DRILLING LOG		Site Name/Location		TEST			MW	
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471		Jct J-26 26-T21S-R37E BD SWD System Lea County, NM		Well No: MW1	Date Drilled: 10/10/02	Driller: Eades	Logged by: A Eades	
				Well Depth: 53'	Boring Depth: 53'	Well Material: PVC	Construction	
				Casing Length: 53'	Boring Diameter: 4.75"	Casing Size: 2"	Sand and bentonite above screen	
				Screen Length: 15'	Drilling Method: Air Rotary	Slot Size: N/A		
DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	(ppm)	REMARKS	Boring			
0	Ground surface		Cl					
1	Topsoil							
2								
3								
4				grout				
5	Caliche							
6								
7								
8								
9								
10		Grab	371		2" PVC			
11								
12								
13								
14								
15	Sandy clay	Grab	572					
16				bentonite				
17								
18								
19								
20		Grab	421					
21	Sand & sandstone stringers							
22								
23								
24								
25		Grab	225					
30		Grab	190					
31								
32								
33								
34								
35		Grab	224					
36								
37								
38	Sandy clay							
39								
40		Grab	218					
41								
42								
43								
44				water				
45		Grab	137					
46								
47								
48								
49				screen				
50								
51								
52								
53								

ANALYTICAL REPORT

Prepared for:

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

Project: J-26 PS
PO#: 750
Order#: G0204877
Report Date: 11/06/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0204877
Project: None Given
Project Name: J-26 PS
Location: BD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204877-01	MW 1	WATER	10/29/02 12:35	10/29/02 19:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 7.5 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204877
Project: None Given
Project Name: J-26 PS
Location: BD

Lab ID: 0204877-01
Sample ID: MW 1

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0003648-02		11/1/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	98%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Date

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204877
Project: None Given
Project Name: J-26 PS
Location: BD

Lab ID: 0204877-01
Sample ID: MW 1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	366	mg/L	1	2.00	310.1	10/31/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	10/31/02	SB
Chloride	4520	mg/L	1	5.00	9253	10/31/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	10/31/02	SB
SULFATE, 375.4	391	mg/L	10	5.0	375.4	10/31/02	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	221	mg/L	100	1.0	6010B	11/6/02	SM
Magnesium	70.0	mg/L	10	0.010	6010B	11/6/02	SM
Potassium	71.6	mg/L	10	0.50	6010B	11/6/02	SM
Sodium	2270	mg/L	1000	10.0	6010B	11/6/02	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	9020	mg/L	1	5.0	160.1	10/30/02	TAL

Approval:

Raland K. Tuttle
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

11-07-02
Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204877

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-02			<0.001	
Ethylbenzene-mg/L		0003648-02			<0.001	
Toluene-mg/L		0003648-02			<0.001	
p/m-Xylene-mg/L		0003648-02			<0.001	
o-Xylene-mg/L		0003648-02			<0.001	
CONTROL						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-03		0.1	0.096	96.%
Ethylbenzene-mg/L		0003648-03		0.1	0.099	99.%
Toluene-mg/L		0003648-03		0.1	0.098	98.%
p/m-Xylene-mg/L		0003648-03		0.2	0.208	104.%
o-Xylene-mg/L		0003648-03		0.1	0.101	101.%
CONTROL DUP						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-04		0.1	0.100	100.%
Ethylbenzene-mg/L		0003648-04		0.1	0.103	103.%
Toluene-mg/L		0003648-04		0.1	0.102	102.%
p/m-Xylene-mg/L		0003648-04		0.2	0.218	109.%
o-Xylene-mg/L		0003648-04		0.1	0.106	106.%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-05		0.1	0.104	104.%
Ethylbenzene-mg/L		0003648-05		0.1	0.109	109.%
Toluene-mg/L		0003648-05		0.1	0.107	107.%
p/m-Xylene-mg/L		0003648-05		0.2	0.230	115.%
o-Xylene-mg/L		0003648-05		0.1	0.110	110.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0204877

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0003573-01			<2.00	
Carbonate Alkalinity-mg/L		0003574-01			<0.10	
Chloride-mg/L		0003572-01			<5.00	
Hydroxide Alkalinity-mg/L		0003575-01			<0.10	
SULFATE, 375.4-mg/L		0003614-01			<0.50	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0204875-01	298		299	0.3%
Carbonate Alkalinity-mg/L		0204875-01	0		<0.10	0.0%
Hydroxide Alkalinity-mg/L		0204875-01	0		<0.10	0.0%
SULFATE, 375.4-mg/L		0204875-01	354		350	1.1%
MS						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0204875-01	372	500	868	99.2%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0204875-01	372	500	860	97.6%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Bicarbonate Alkalinity-mg/L		0003573-04		0.05	0.0496	99.2%
Carbonate Alkalinity-mg/L		0003574-04		0.05	0.0496	99.2%
Chloride-mg/L		0003572-04		5000	4960	99.2%
Hydroxide Alkalinity-mg/L		0003575-04		0.05	0.0496	99.2%
SULFATE, 375.4-mg/L		0003614-04		50	49.0	98.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204877

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003651-02			<0.010		
Magnesium-mg/L		0003651-02			<0.001		
Potassium-mg/L		0003651-02			<0.050		
Sodium-mg/L		0003651-02			<0.010		
CONTROL							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003651-03		2	1.99	99.5%	
Magnesium-mg/L		0003651-03		2	2.17	108.5%	
Potassium-mg/L		0003651-03		2	1.97	98.5%	
Sodium-mg/L		0003651-03		2	1.92	96.%	
CONTROL DUP							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003651-04		2	2.04	102.%	2.5%
Magnesium-mg/L		0003651-04		2	2.24	112.%	3.2%
Potassium-mg/L		0003651-04		2	1.93	96.5%	2.1%
Sodium-mg/L		0003651-04		2	1.88	94.%	2.1%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L		0003651-05		2	2.04	102.%	
Magnesium-mg/L		0003651-05		2	2.24	112.%	
Potassium-mg/L		0003651-05		2	1.93	96.5%	
Sodium-mg/L		0003651-05		2	1.88	94.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204877

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0003594-01			<5.0		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204875-01	1470		1480		0.7%

12600 West I-20 East
Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Project #:

Project Loc:

井口

Fax No: (505) 397-1471

[illegible]

RICE Operating Company

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

CERTIFIED MAIL

RETURN RECEIPT NO. 7000 1530 0005 9895 4992

RECEIVED

April 1, 2003

APR 07 2003

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

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: 2002 MONITOR WELL REPORT/SAMPLING SUMMARY
BD SWD SYSTEM
LEA COUNTY, NEW MEXICO

Mr. Olson:

Rice Operating Company (ROC) takes this opportunity to submit the 2002 Monitor Well Report for the Blinebry-Drinkard (BD) Salt Water Disposal System. There are 4 sites in this system that have monitor wells that are sampled quarterly pursuant to NMOCD guidelines. Groundwater impact became apparent at these sites during the remediation process of the Junction Box Upgrade Plan.

Site Name	Unit Letter	Section	Township/Range
J-26 jct.	J	26	T21S, R37E
Zachary Hinton jct.	O	12	T22S, R37E
F-17 jct.	F	17	T21S, R37E
I-27 jct.	I	27	T22S, R37E

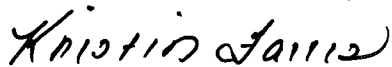
In 2002, the Zachary Hinton monitor well was sampled by Environmental Plus, Inc. of Eunice, and also by ROC. The 2002 sampling events for J-26, F-17, and I-27 were conducted by ROC. In 2003, ROC will continue to conduct the sampling of the monitor wells at these sites. As in 2002, either Environmental Lab of Texas of Odessa, Texas, or Cardinal Laboratories of Hobbs will conduct analytical tests of the water samples of 2003.

Trident Environmental of Midland, Texas and R. T. Hicks Consultants, Ltd. of Albuquerque have been contracted by ROC to prioritize the junction box disclosure sites and to generate work plans for remediation of the vadose zone. NMOCD can anticipate the submittal of work plans for several such sites in 2003. After NMOCD approval, AFE's will be submitted to System Partners for approval. Sites with confirmed groundwater impact will also be evaluated for the extent of groundwater impact.

ROC is the service provider (operator) for the BD Salt Water Disposal System and has not 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
Project Scientist

Enclosures: Summary table & graph for each site
 Analytical results

Cc: LBG, CDH, file, Chris Williams
 NMOCD, District I Office
 1625 N. French Drive
 Hobbs, NM 88240

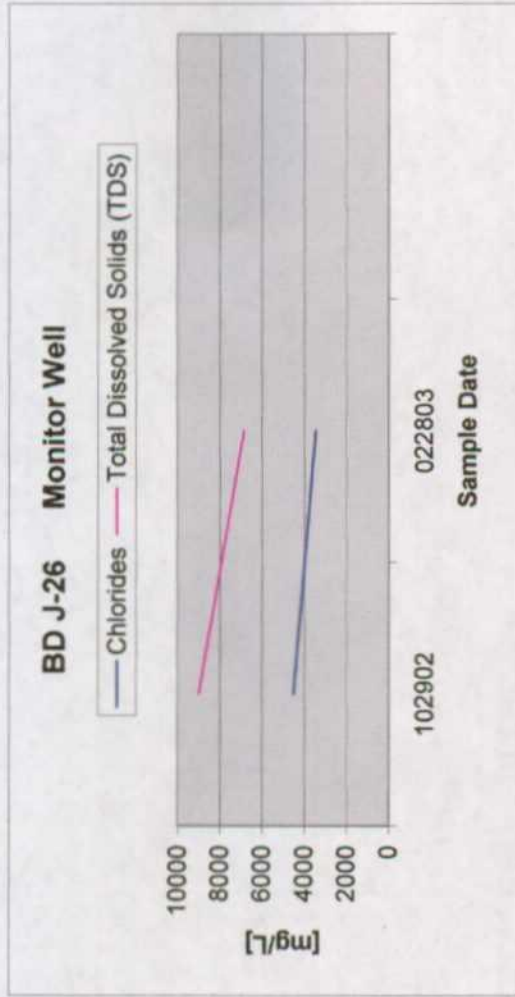
DRILLING LOG		Site Name/Location		Lugger by: A Eades	
RICE Operating Company 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471		Jct J-26 26-T21S-R37E BD SWD System Lea County, NM		Well No: MW1	Date Drilled: 10/10/02
		Well Depth: 53'	Boring Depth: 53'	Driller: Eades	Construction
		Casing Length: 53'	Boring Diameter: 4.75"	Well Material: PVC	Sand and bentonite above screen
		Screen Length: 15'	Drilling Method: Air Rotary	Casing Size: 2"	
		TEST		MW	
DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	(ppm)	REMARKS	Boring
0	Ground surface		Cl		
1	Topsoil				
2					
3				grout	
4					
5	Caliche				
6					
7					
8					
9					
10		Grab	371		
11					
12					
13					
14					
15	Sandy clay	Grab	572		
16				bentonite	
17					
18					
19					
20		Grab	421		
21	Sand & sandstone stringers				
22					
23					
24					
25		Grab	225		
30		Grab	190		
31					
32					
33					
34					
35		Grab	224		
36					
37					
38	Sandy clay				
39					
40		Grab	218		
41					
42					
43					
44				water	
45		Grab	137		
46					
47					
48					
49				screen	
50					
51					
52					
53					

BD J-26
J, 26, 21S, 37E Pump Station

Rice Operating Co. Monitor Well Data Sheet

All parameter concentrations are in mg/L

MW #	WATER LEVEL (ft)	TOTAL DEPTH	(gal)		SAMPLE DATE	TIME	CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
			WELL VOLUME	VOLUME BAILED								
1	43.02	53.93	1,746	5.50	102902	1235	4520	9020	<0.001	<0.001	<0.001	<0.001
1	42.33	52.51	1,620	4.80	022803	1530	3470	6870	<0.001	<0.001	<0.001	Silty



ANALYTICAL REPORT

Prepared for:

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

Project: J-26

PO#:

Order#: G0305850

Report Date: 03/05/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0305850
Project:
Project Name: J-26
Location: BD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0305850-01	MW 1	WATER	2/28/03	2/28/03 19:40	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp:	3.5 C		
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305850
Project:
Project Name: J-26
Location: BD

Lab ID: 0305850-01
Sample ID: MW 1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004817-02		3/3/03 19:49	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Toluene	<0.001	0.001
Ethylbenzene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	105%	80	120
Bromofluorobenzene	99%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

3-05-03

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305850
Project:
Project Name: J-26
Location: BD

Lab ID: 0305850-01
Sample ID: MW 1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	440	mg/L	1	2.00	310.1	3/3/03	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	3/3/03	SB
Chloride	3470	mg/L	1	5.00	9253	3/3/03	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	3/3/03	SB
SULFATE, 375.4	501	mg/L	10	5.0	375.4	3/4/03	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	139	mg/L	100	1.0	6010B	3/3/03	SM
Magnesium	46.2	mg/L	10	0.010	6010B	3/3/03	SM
Potassium	74.1	mg/L	10	0.50	6010B	3/3/03	SM
Sodium	1710	mg/L	1000	10.0	6010B	3/3/03	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	6870	mg/L	1	5.0	160.1	3/3/03	TAL

Approval: Roland K. Tuttle 3-05-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305850

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0004817-02			<0.001	
Toluene-mg/L		0004817-02			<0.001	
Ethylbenzene-mg/L		0004817-02			<0.001	
p/m-Xylene-mg/L		0004817-02			<0.001	
o-Xylene-mg/L		0004817-02			<0.001	
CONTROL						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0004817-03		0.1	0.100	100.0%
Toluene-mg/L		0004817-03		0.1	0.101	101.0%
Ethylbenzene-mg/L		0004817-03		0.1	0.100	100.0%
p/m-Xylene-mg/L		0004817-03		0.2	0.206	103.0%
o-Xylene-mg/L		0004817-03		0.1	0.099	99.0%
CONTROL DUP						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0004817-04		0.1	0.095	95.0%
Toluene-mg/L		0004817-04		0.1	0.095	95.0%
Ethylbenzene-mg/L		0004817-04		0.1	0.094	94.0%
p/m-Xylene-mg/L		0004817-04		0.2	0.193	96.5%
o-Xylene-mg/L		0004817-04		0.1	0.094	94.0%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0004817-05		0.1	0.093	93.0%
Toluene-mg/L		0004817-05		0.1	0.095	95.0%
Ethylbenzene-mg/L		0004817-05		0.1	0.094	94.0%
p/m-Xylene-mg/L		0004817-05		0.2	0.194	97.0%
o-Xylene-mg/L		0004817-05		0.1	0.094	94.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0305850

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0004837-01			<2.00		
Carbonate Alkalinity-mg/L	0004833-01			<0.10		
Chloride-mg/L	0004836-01			<5.00		
Hydroxide Alkalinity-mg/L	0004834-01			<0.10		
SULFATE, 375.4-mg/L	0004835-01			<0.50		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0305850-01	440		441		0.2%
Carbonate Alkalinity-mg/L	0305850-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L	0305850-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L	0305850-01	501		493		1.6%
MS						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0305850-01	3470	1000	4450	98.0%	
MSD						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0305850-01	3470	1000	4470	100.0%	0.4%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0004837-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L	0004833-04		0.05	0.0496	99.2%	
Chloride-mg/L	0004836-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L	0004834-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L	0004835-04		50	48.9	97.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0305850

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0004810-01			<0.010	
Magnesium-mg/L		0004810-01			<0.001	
Potassium-mg/L		0004810-01			<0.050	
Sodium-mg/L		0004810-01			<0.010	
DUPLICATE						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0305851-01	95.8		98.8	3.1%
Magnesium-mg/L		0305851-01	54.3		53.5	1.5%
Potassium-mg/L		0305851-01	9.4		9.42	0.2%
Sodium-mg/L		0305851-01	265		261	1.5%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0004810-04		2	2.08	104.%
Magnesium-mg/L		0004810-04		2	2.22	111.%
Potassium-mg/L		0004810-04		2	1.72	86.%
Sodium-mg/L		0004810-04		2	1.79	89.5%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305850

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0004824-01			<5.0		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L	0305850-01	6870		6880		0.1%

12600 West I-20 East
Odessa, Texas 79763

Project Manager: Kristin Farris

Company Name Rice Operating

Company Address: 127 W. Taylor

City/State/Zip: Hobbs NM 88240

Telephone No: (505) 393-9174

Sampler Signature: Joe Frost

Project Name: J-26

Project #:

Project Loc: BD

PO #:

Fax No:

Sampler Signature:

[illegible]

ANALYTICAL REPORT

Prepared for:

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

**Project: J-26 PS
PO#: 750
Order#: G0204877
Report Date: 11/06/2002**

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0204877
Project: None Given
Project Name: J-26 PS
Location: BD

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204877-01	MW 1	WATER	10/29/02 12:35	10/29/02 19:00	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 7.5 C			
8021B/5030 BTEX						
Anions						
Cations						
Total Dissolved Solids (TDS)						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204877
Project: None Given
Project Name: J-26 PS
Location: BD

Lab ID: 0204877-01
Sample ID: MW 1

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0003648-02		11/1/02	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	98%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204877
Project: None Given
Project Name: J-26 PS
Location: BD

Lab ID: 0204877-01
Sample ID: MW 1

Anions

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Bicarbonate Alkalinity	366	mg/L	1	2.00	310.1	10/31/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	10/31/02	SB
Chloride	4520	mg/L	1	5.00	9253	10/31/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	10/31/02	SB
SULFATE, 375.4	391	mg/L	10	5.0	375.4	10/31/02	SB

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Calcium	221	mg/L	100	1.0	6010B	11/6/02	SM
Magnesium	70.0	mg/L	10	0.010	6010B	11/6/02	SM
Potassium	71.6	mg/L	10	0.50	6010B	11/6/02	SM
Sodium	2270	mg/L	1000	10.0	6010B	11/6/02	SM

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Total Dissolved Solids (TDS)	9020	mg/L	1	5.0	160.1	10/30/02	TAL

Approval:

Raland K. Tuttle 11-07-02
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204877

BLANK						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-02			<0.001	
Ethylbenzene-mg/L		0003648-02			<0.001	
Toluene-mg/L		0003648-02			<0.001	
p/m-Xylene-mg/L		0003648-02			<0.001	
o-Xylene-mg/L		0003648-02			<0.001	
CONTROL						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-03		0.1	0.096	96.%
Ethylbenzene-mg/L		0003648-03		0.1	0.099	99.%
Toluene-mg/L		0003648-03		0.1	0.098	98.%
p/m-Xylene-mg/L		0003648-03		0.2	0.208	104.%
o-Xylene-mg/L		0003648-03		0.1	0.101	101.%
CONTROL DUP						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-04		0.1	0.100	100.%
Ethylbenzene-mg/L		0003648-04		0.1	0.103	103.%
Toluene-mg/L		0003648-04		0.1	0.102	102.%
p/m-Xylene-mg/L		0003648-04		0.2	0.218	109.%
o-Xylene-mg/L		0003648-04		0.1	0.106	106.%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Benzene-mg/L		0003648-05		0.1	0.104	104.%
Ethylbenzene-mg/L		0003648-05		0.1	0.109	109.%
Toluene-mg/L		0003648-05		0.1	0.107	107.%
p/m-Xylene-mg/L		0003648-05		0.2	0.230	115.%
o-Xylene-mg/L		0003648-05		0.1	0.110	110.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0204877

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0003573-01			<2.00		
Carbonate Alkalinity-mg/L	0003574-01			<0.10		
Chloride-mg/L	0003572-01			<5.00		
Hydroxide Alkalinity-mg/L	0003575-01			<0.10		
SULFATE, 375.4-mg/L	0003614-01			<0.50		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0204875-01	298		299		0.3%
Carbonate Alkalinity-mg/L	0204875-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L	0204875-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L	0204875-01	354		350		1.1%
MS						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0204875-01	372	500	868	99.2%	
MSD						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0204875-01	372	500	860	97.6%	0.9%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L	0003573-04		0.05	0.0496	99.2%	
Carbonate Alkalinity-mg/L	0003574-04		0.05	0.0496	99.2%	
Chloride-mg/L	0003572-04		5000	4960	99.2%	
Hydroxide Alkalinity-mg/L	0003575-04		0.05	0.0496	99.2%	
SULFATE, 375.4-mg/L	0003614-04		50	49.0	98.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0204877

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L	0003651-02			<0.010		
Magnesium-mg/L	0003651-02			<0.001		
Potassium-mg/L	0003651-02			<0.050		
Sodium-mg/L	0003651-02			<0.010		
CONTROL						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L	0003651-03		2	1.99	99.5%	
Magnesium-mg/L	0003651-03		2	2.17	108.5%	
Potassium-mg/L	0003651-03		2	1.97	98.5%	
Sodium-mg/L	0003651-03		2	1.92	96.6%	
CONTROL DUP						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L	0003651-04		2	2.04	102.0%	2.5%
Magnesium-mg/L	0003651-04		2	2.24	112.0%	3.2%
Potassium-mg/L	0003651-04		2	1.93	96.5%	2.1%
Sodium-mg/L	0003651-04		2	1.88	94.0%	2.1%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Calcium-mg/L	0003651-05		2	2.04	102.0%	
Magnesium-mg/L	0003651-05		2	2.24	112.0%	
Potassium-mg/L	0003651-05		2	1.93	96.5%	
Sodium-mg/L	0003651-05		2	1.88	94.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204877

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Total Dissolved Solids (TDS)-mg/L		0003594-01			<5.0		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Total Dissolved Solids (TDS)-mg/L		0204875-01	1470		1480		0.7%

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Kristin Farris

Company Name

Rice Operating

Company Address:

122 W. Taylor

City/State/Zip:

Hobbs, NM 88240

Telephone No: (

(505) 393-9174

Fax No: (505) 397-1471

Sampler Signature:

Christie Jarvis

[illegible]

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**



BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	J-26	J	26	21S	37E	LEA	Length	Width	Depth

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER DELROSE SCOTT OTHER _____

Depth to Groundwater 41' feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 04/23/2002 Date Completed 10/01/2002 OCD Witness YES

Soil Excavated 10000 cubic yards Excavation Length 115 Width 75 Depth 40 feet

Soil Disposed 480 cubic yards Offsite Facility Sundance Location Eunice, New Mexico

FINAL ANALYTICAL RESULTS: Sample Date 09/18/2002 Sample Depth 40'

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

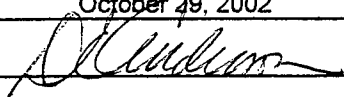
Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SIDEWALLS	<0.005	<0.005	<0.005	<0.015	<10	<10	336
BOTTOM	<0.005	<0.005	<0.005	<0.015	<10	<10	304
Remediated Soil	<0.005	<0.005	<0.005	<0.015	<10	<10	480

General Description of Remedial Action: Vertical and lateral delineation found a large area impacted with TPH and chlorides. TPH impacted soil was excavated to 42' bgs and land farmed on-site. Chlorides were removed to 42' bgs and tested at 304 ppm. Clean backfill was placed in the deep excavation from 42' bgs to 27' bgs. A 12" compacted clay liner was installed at 27' bgs. The remediated soil was replaced in 3' lifts and packed. A second 12" compacted clay liner was installed at 5' bgs. The results of the compaction tests are included. The remaining remediated soil was placed above the clay liner and contoured to drain rain water away from the area above the liner. These clay liners will ensure no detrimental affect to the groundwater. A monitor well was installed to monitor groundwater constituents. An annual report with the sampling results will be sent to the NMOCD. The site will be seeded in the fall of 2002. A new replacement junction box has been installed north of this site.

TPH/CHLORIDE FIELD TESTS

LOCATION	Depth	TPH	mg/kg
SIDEWALLS	20-25'	86	342
BOTTOM	40'	11	275
Remediated Soil	comp	222	500

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE October 29, 2002 PRINTED NAME D. E. Anderson
SIGNATURE  TITLE Project Leader - Environmental