

# **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 COMPANY

*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

# ANALYTICAL REPORT

**Prepared for:**

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

BD  
Zach  
Hinton

**Project:** MW 1  
**PO#:** 505  
**Order#:** G0204251  
**Report Date:** 08/22/2002

Ions

**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#: G0204251  
Project:  
Project Name: MW 1  
Location: BD Zachary Hinton

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>
0204251-01	MW 1	WATER	8/13/02 10:50	8/16/02 19:36	L HDPE	Ice
<u>Lab Testing:</u>		Rejected: No	Temp:	0 C		
Anions						
Cations						
Total Dissolved Solids (TDS)						

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

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

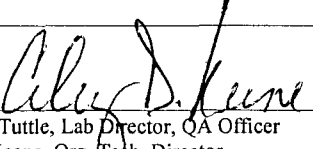
Order#: G0204251  
Project:  
Project Name: MW 1  
Location: BD Zachary Hinton

Lab ID: 0204251-01  
Sample ID: MW 1

### 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>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	130	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM
Magnesium	54.4	mg/L	10	0.010	6010B	08/21/2002	8/22/02	SM
Potassium	23.4	mg/L	10	0.50	6010B	08/21/2002	8/22/02	SM
Sodium	457	mg/L	100	1.0	6010B	08/21/2002	8/22/02	SM

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#: G0204251  
Project:  
Project Name: MW 1  
Location: BD Zachary Hinton

Lab ID: 0204251-01

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	188	mg/L	1	2.00	310.1	8/17/02	SB
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	8/17/02	SB
Chloride	514	mg/L	1	5.00	9253	8/17/02	SB
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	8/17/02	SB
SULFATE, 375.4	256	mg/L	1	0.5	375.4	8/21/02	SB

### 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)	1450	mg/L	1	5.0	160.1	8/19/02	SB

Approval:

*Raland K. Tuttle* 8-23-02  
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

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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

### Anions

Order#: G0204251

<b>BLANK</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L		0002886-01			<2.0		
Carbonate Alkalinity-mg/L		0002888-01			<0.10		
Chloride-mg/L		0002896-01			<5.0		
Hydroxide Alkalinity-mg/L		0002890-01			<0.10		
SULFATE, 375.4-mg/L		0002932-01			<0.5.0		
<b>DUPLICATE</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L		0204251-01	188		189		0.5%
Carbonate Alkalinity-mg/L		0204251-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L		0204251-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L		0204251-01	256		255		0.4%
<b>MS</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0204220-01	70.9	250	319	99.2%	
<b>MSD</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L		0204220-01	70.9	250	319	99.2%	0.0%
<b>SRM</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Bicarbonate Alkalinity-mg/L		0002886-04		0.050	0.0496	99.2%	
Carbonate Alkalinity-mg/L		0002888-04		0.050	0.0496	99.2%	
Chloride-mg/L		0002896-04		5,000	4,960	99.2%	
Hydroxide Alkalinity-mg/L		0002890-04		0.050	0.0496	99.2%	
SULFATE, 375.4-mg/L		0002932-04		50.0	49.5	99.0%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Cations

Order#: G0204251

<b>BLANK</b>						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0002943-02			<0.01	
Magnesium-mg/L		0002943-02			<0.001	
Potassium-mg/L		0002943-02			<0.05	
Sodium-mg/L		0002943-02			<0.01	
<b>DUPLICATE</b>						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0204220-04	100		99.5	0.5%
Magnesium-mg/L		0204220-04	13.7		13.5	1.5%
Potassium-mg/L		0204220-04	5.48		5.4	1.5%
Sodium-mg/L		0204220-04	78.8		78.7	0.1%
<b>SRM</b>						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Calcium-mg/L		0002943-05		2	2.02	101.%
Magnesium-mg/L		0002943-05		2	1.91	95.5%
Potassium-mg/L		0002943-05		2	1.94	97.%
Sodium-mg/L		0002943-05		2	2	100.%



# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0204251

<b>BLANK</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0002885-01			<5.00		
<b>DUPLICATE</b>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204251-01	1450		1510		4.1%

12600 West I-20 East  
Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

11

Project Loc: RD Zachary H-1000

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Fax No.:

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