

AP - 65

ANNUAL MONITORING REPORT

YEAR(S):
2003

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 1329

March 16, 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

RECEIVED

MAR 18 2004

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

RE: 2003 MONITOR WELL REPORT/SAMPLING SUMMARY
M-9 SWD SITE, EME SWD SYSTEM
UNIT 'M', SEC. 9, T20S, R37E
LEA COUNTY, NEW MEXICO

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2003 Monitor Well Report for the EME M-9 site located in the Eunice Monument Eumont (EME) Salt Water Disposal System. The site originally had one monitor well installed during the redwood tank replacement process and vadose zone delineation. Two more monitor wells were installed in August of 2003. A fourth monitor well was recently completed on February 17, 2004. The locations of these wells are included on the enclosed survey map. Each of 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. 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 (7/28/2003). A groundwater remedy proposal is expected to be submitted to NMOCD by Trident sometime this year.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

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

EME M-9 Tank Replacement
M, 9, 20S, 37E SWD facility

Rice Operating Co. Monitor Well Data Sheet

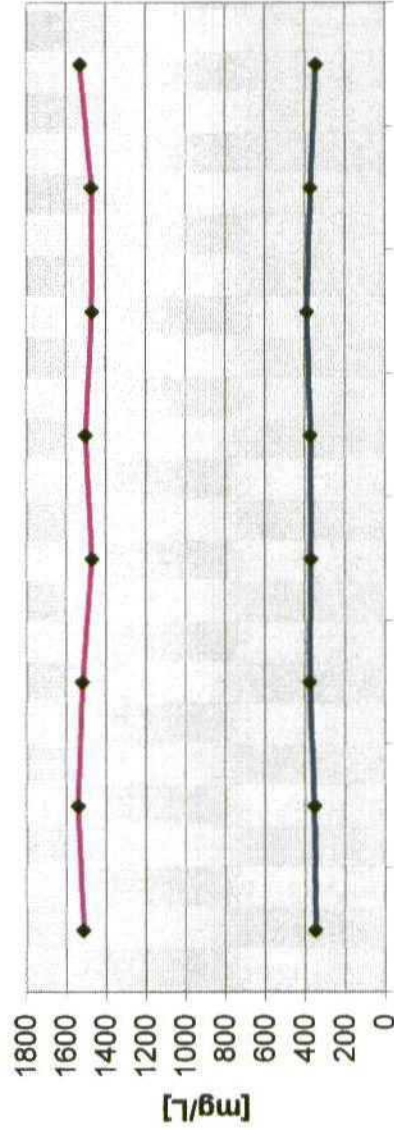
All parameter concentrations are in mg/L

MW #	WATER LEVEL (ft)	TOTAL DEPTH (ft)	WELL VOLUME (gal)	VOLUME BAILED	SAMPLE DATE	TIME	CL-	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
1	XXX	XXX	XXX	XXX	040802	0930	348	1512	<0.002	<0.002	<0.002	<0.006
1	21.02	38.40	2.780	8.50	051302	1630	354	1540	<0.001	<0.001	<0.001	<0.001
1	22.45	38.41	2.554	7.75	082002	1015	376	1517	<0.002	<0.002	<0.002	<0.006
1A	19.10	28.45	1.496	4.50	102802	1540	372	1470	<0.001	<0.001	<0.001	<0.001
1A	18.48	28.32	1.650	4.90	022803	1430	372	1500	0.002	0.002	0.002	0.003
1A	18.90	29.00	1.616	5.00	051603	1440	390	1470	0.001	<0.001	<0.001	0.001
1A	19.38	28.45	1.467	6.00	082203	1030	372	1470	0.002	<0.001	<0.001	<0.001
1A	19.57	28.45			103003	1110	346	1530	<0.001	<0.001	<0.001	<0.001
2	21.45	31.00	1.567	6.00	082203	935	603	2060	<0.001	<0.001	<0.001	<0.001
2	21.61	31.00			103003	1140	709	2300	<0.001	<0.001	<0.001	<0.001
3	21.68	31.72	1.633	6.00	082203	850	319	1590	<0.001	<0.001	<0.001	<0.001
3	21.86	31.72			103003	1140	328	1740	<0.001	<0.001	<0.001	<0.001
WW	20.25				103003	1400	284	1150	<0.001	<0.001	<0.001	0.002

new well

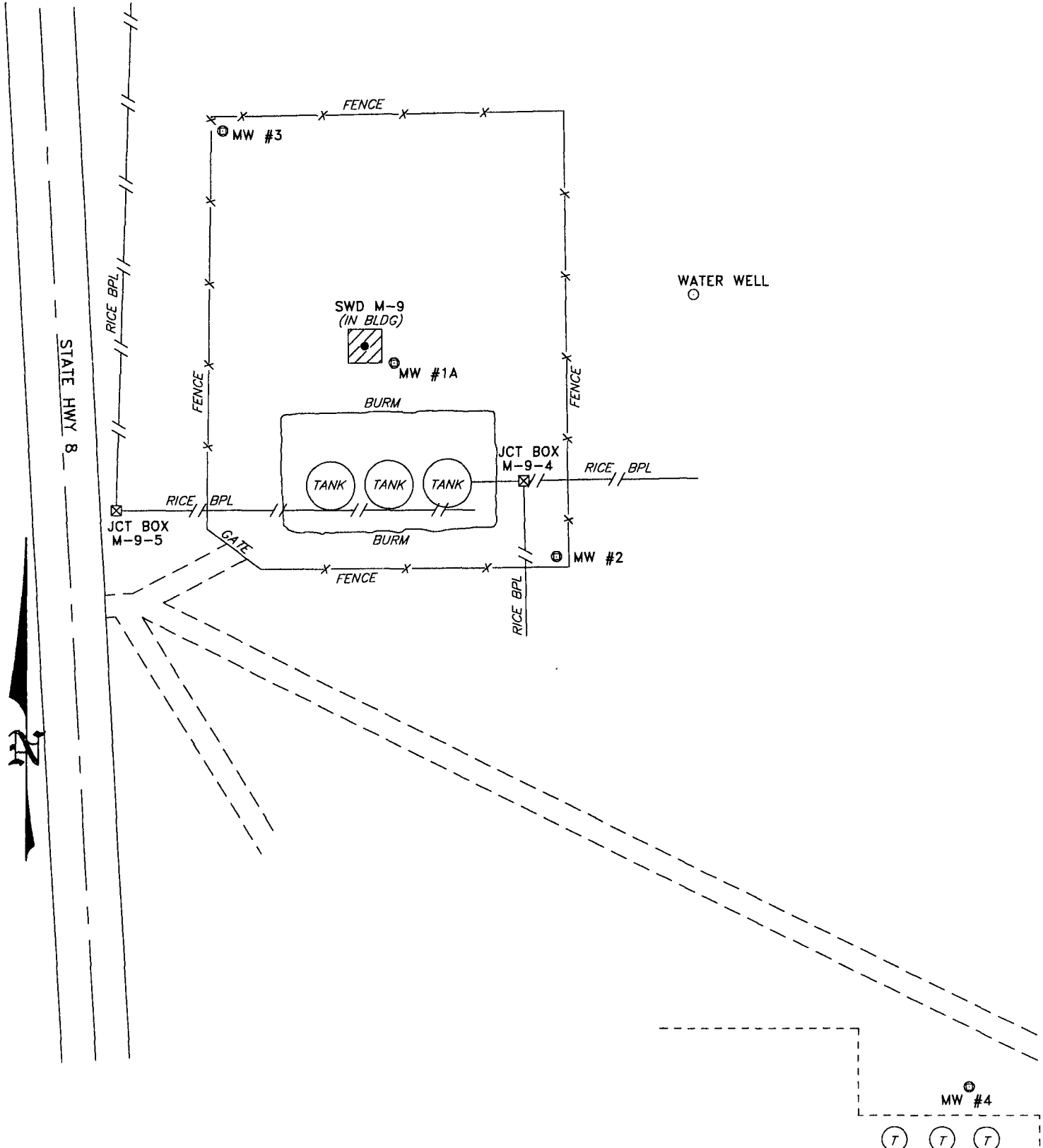
EME M-9 Tank Replacement Monitor Well

—●— Chloride —●— Total Dissolved Solids (TDS)



Sample Date

SECTION 9, TOWNSHIP 20 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 #1A	576627.335	870663.180	N32°34'50.3"	W103°15'51.0"	3529.79'	3530.16'	3530.07'
MW #2	576541.118	870735.713	N32°34'49.5"	W103°15'50.2"	3531.52'	3528.94'	3528.63'
MW #3	576729.595	870586.709	N32°34'51.3"	W103°15'51.9"	3532.44'	3529.85'	3529.63'
MW #4	576304.518	870918.446	N32°34'47.1"	W103°15'48.1"	3532.08'	3529.20'	3529.20'
SWD M-9	576634.789	870650.116	N32°34'50.4"	W103°15'51.2"		3523.33'	3530.0'
WATER WELL	576657.311	870796.677	N32°34'50.6"	W103°15'49.5"	3530.46'	3528.28'	3527.98'

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.

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

NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR

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

W.O. Number: 4017 Drawn By: K. GOAD

Date: 02-23-2004 Disk: KJG CD#4 - RC4017A.DWG

60 0 60 120 FEET

RICE OPERATING COMPANY

REF: E.M.E. SWD STATION

MONITOR WELLS LOCATED IN
SECTION 9, TOWNSHIP 20 SOUTH, RANGE 37 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 02-20-2004 Sheet 1 of 1 Sheets

M-9

Post-it Fax Note	7671	Date	1-26-04	# of pages	3
To	Kristen Farris	From	Gil Van Deventer		
Co./Dept.	Rice Operating	Co	Trident Env.		
Phone #	505-393-9174	Phone #	432-682-0808		
Fax #	505-397-1471	Fax #	432-682-0727		

ANALYTICAL REPORT

Prepared for:

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

Project: Rice Operating Company

PO#:

Order#: G0307832

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#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

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>
0307832-01	MW-3	WATER	10/30/03 10:35	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)					
0307832-02	MW-1	WATER	10/30/03 11:10	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)					
0307832-03	MW-2	WATER	10/30/03 11:40	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)					
0307832-04	Water Well	WATER	10/30/03 14:00	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#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307832-01
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
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	105%	80	120
Bromofluorobenzene	95%	80	120

Lab ID: 0307832-02
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
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	105%	80	120
Bromofluorobenzene	92%	80	120

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

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307832-03
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
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	114%	80	120
Bromofluorobenzene	81%	80	120

Lab ID: 0307832-04
Sample ID: Water Well

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
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	0.002	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	109%	80	120
Bromofluorobenzene	96%	80	120

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

Page 2 of 3



ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

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

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

Order#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307832-01
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	254	mg/L	1	2.00	310.1	11/3/03	CK
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	11/3/03	CK
Chloride	328	mg/L	1	5.00	325	11/3/03	CK
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	11/3/03	CK
SULFATE, 375.4	519	mg/L	10	5.0	375.4	11/4/03	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	137	mg/L	100	1.0	6010B	11/5/03	SM
Magnesium	53.3	mg/L	10	0.010	6010B	11/5/03	SM
Potassium	7.70	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	362	mg/L	100	1.0	6010B	11/5/03	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)	1740	mg/L	1	5.0	160.1	11/3/03	KKA

Lab ID: 0307832-02
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	274	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	346	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	409	mg/L	10	5.0	375.4	11/4/03	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	92.0	mg/L	10	0.10	6010B	11/5/03	SM
Magnesium	51.6	mg/L	10	0.010	6010B	11/5/03	SM
Potassium	11.0	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	359	mg/L	100	1.0	6010B	11/5/03	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)	1530	mg/L	1	5.0	160.1	11/3/03	KKA

RL = Reporting Limit N/A = Not Applicable

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307832-03
Sample ID: MW-2

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	338	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	709	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	477	mg/L	10	5.0	375.4	11/4/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	116	mg/L	100	1.0	6010B	11/5/03	SM
Magnesium	68.6	mg/L	10	0.010	6010B	11/5/03	SM
Potassium	18.4	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	603	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)	2300	mg/L	1	5.0	160.1	11/3/03	KKA

Lab ID: 0307832-04
Sample ID: Water Well

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	296	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	284	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	289	mg/L	10	5.0	375.4	11/4/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	85.0	mg/L	10	0.10	6010B	11/5/03	SM
Magnesium	45.0	mg/L	10	0.010	6010B	11/5/03	SM
Potassium	8.28	mg/L	10	0.50	6010B	11/5/03	SM
Sodium	185	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)	1150	mg/L	1	5.0	160.1	11/3/03	KKA

RL = Reporting Limit N/A = Not Applicable

Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307832
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

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**QUALITY CONTROL REPORT****8021B/5030 BTEX****Order#: G0307832**

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	85.0%	
Toluene-mg/L		0007355-03		0.1	0.085	85.0%	
Ethylbenzene-mg/L		0007355-03		0.1	0.082	82.0%	
p/m-Xylene-mg/L		0007355-03		0.2	0.164	82.0%	
o-Xylene-mg/L		0007355-03		0.1	0.085	85.0%	
CONTROL DUP		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0007355-04		0.1	0.088	88.0%	3.5%
Toluene-mg/L		0007355-04		0.1	0.087	87.0%	2.3%
Ethylbenzene-mg/L		0007355-04		0.1	0.084	84.0%	2.4%
p/m-Xylene-mg/L		0007355-04		0.2	0.169	84.5%	3.0%
o-Xylene-mg/L		0007355-04		0.1	0.089	89.0%	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	88.0%	
Toluene-mg/L		0007355-05		0.1	0.088	88.0%	
Ethylbenzene-mg/L		0007355-05		0.1	0.085	85.0%	
p/m-Xylene-mg/L		0007355-05		0.2	0.173	86.5%	
o-Xylene-mg/L		0007355-05		0.1	0.091	91.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0307832

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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

Test Parameters

Order#: G0307832

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%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0307832

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%	



TRIDENT
ENVIRONMENTAL

Chain of Custody

Date 10/30/03 Page 1 of 1

Lab Name: Environmental Lab of Texas				Address: 12600 W 1-20 East Odessa, Texas 79765				Telephone: (915) 563-1800																																																							
Samplers (SIGNATURES) 0307832 <i>Dale T Littlejohn</i>																																																															
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: SO ₄ , Cl & HCO ₃	Cations: Ca, Mg, K & Na	TDS	Number of Containers																																											
01	MW-3	Water	10/30/03	1035	G	✓											✓	✓	✓	3																																											
02	MW-1	Water	10/30/03	1110	G	✓											✓	✓	✓	3																																											
03	MW-2	Water	10/30/03	1140	G	✓											✓	✓	✓	3																																											
04	Water Well	Water	10/30/03	1400	G	✓											✓	✓	✓	3																																											
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Copy signed original form for Trident Environmental records

250 mL + DPE 4/23/11
251 11 + DPE 4/23/11

EME M-9 SWD

ANALYTICAL REPORT

Prepared for:

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

Project: Rice Operating Company

PO#:

Order#: G0307312

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#: G0307312
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

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>
0307312-01	MW-1	WATER	8/22/03 10:30	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)					
0307312-02	MW-2	WATER	8/22/03 9:35	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)					
0307312-03	MW-3	WATER	8/22/03 8:50	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#: G0307312
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307312-01
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
0006638-02		8/25/03	1	1	JMM	8021B

Parameter	Result mg/L	RL
Benzene	0.002	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	114%	80	120
Bromofluorobenzene	108%	80	120

Lab ID: 0307312-02
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	119%	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#: G0307312
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307312-03
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	117%	80	120
Bromofluorobenzene	101%	80	120

Approval: *Celey D. Keene* 08/28/03

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.

Date

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#: G0307312
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307312-01
Sample ID: MW-1

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	280	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	372	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	419	mg/L	10	5.0	375.4	8/26/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	89.3	mg/L	10	0.10	6010B	8/26/03	SM
Magnesium	42.7	mg/L	10	0.010	6010B	8/26/03	SM
Potassium	29.4	mg/L	10	0.50	6010B	8/26/03	SM
Sodium	458	mg/L	100	1.0	6010B	8/26/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1470	mg/L	1	5.0	160.1	8/25/03	TAL

Lab ID: 0307312-02
Sample ID: MW-2

Anions

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Bicarbonate Alkalinity	290	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	603	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	501	mg/L	10	5.0	375.4	8/26/03	SB

Cations

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Calcium	139	mg/L	100	1.0	6010B	8/26/03	SM
Magnesium	61.0	mg/L	10	0.010	6010B	8/26/03	SM
Potassium	40.3	mg/L	10	0.50	6010B	8/26/03	SM
Sodium	718	mg/L	100	1.0	6010B	8/26/03	SM

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	2060	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#: G0307312
Project:
Project Name: Rice Operating Company
Location: EME M-9 SWD

Lab ID: 0307312-03
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	222	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	319	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	506	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	116	mg/L	100	1.0	6010B	8/26/03	SM
Magnesium	42.5	mg/L	10	0.010	6010B	8/26/03	SM
Potassium	27.5	mg/L	10	0.50	6010B	8/26/03	SM
Sodium	525	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)	1590	mg/L	1	5.0	160.1	8/25/03	TAL

Approval:

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

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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#: G0307312

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006638-02			<0.001		
Benzene-mg/L		0006639-02			<0.001		
Toluene-mg/L		0006638-02			<0.001		
Toluene-mg/L		0006639-02			<0.001		
Ethylbenzene-mg/L		0006638-02			<0.001		
Ethylbenzene-mg/L		0006639-02			<0.001		
p,m-Xylene-mg/L		0006638-02			<0.001		
p,m-Xylene-mg/L		0006639-02			<0.001		
o-Xylene-mg/L		0006638-02			<0.001		
o-Xylene-mg/L		0006639-02			<0.001		
CONTROL							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006638-03		0.1	0.111	111.0%	
Benzene-mg/L		0006639-03		0.1	0.108	108.0%	
Toluene-mg/L		0006638-03		0.1	0.114	114.0%	
Toluene-mg/L		0006639-03		0.1	0.111	111.0%	
Ethylbenzene-mg/L		0006638-03		0.1	0.105	105.0%	
Ethylbenzene-mg/L		0006639-03		0.1	0.101	101.0%	
p,m-Xylene-mg/L		0006638-03		0.2	0.222	111.0%	
p,m-Xylene-mg/L		0006639-03		0.2	0.210	105.0%	
o-Xylene-mg/L		0006638-03		0.1	0.100	100.0%	
o-Xylene-mg/L		0006639-03		0.1	0.102	102.0%	
DUPLICATE							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0307295-06	0		<0.001		0.0%
Benzene-mg/L		0307313-01	0		<0.001		0.0%
Toluene-mg/L		0307295-06	0		<0.001		0.0%
Toluene-mg/L		0307313-01	0		<0.001		0.0%
Ethylbenzene-mg/L		0307295-06	0		<0.001		0.0%
Ethylbenzene-mg/L		0307313-01	0		<0.001		0.0%
p,m-Xylene-mg/L		0307295-06	0		<0.001		0.0%
p,m-Xylene-mg/L		0307313-01	0		<0.001		0.0%
o-Xylene-mg/L		0307295-06	0		<0.001		0.0%
o-Xylene-mg/L		0307313-01	0		<0.001		0.0%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0006638-05		0.1	0.109	109.0%	
Benzene-mg/L		0006639-05		0.1	0.107	107.0%	
Toluene-mg/L		0006638-05		0.1	0.114	114.0%	
Toluene-mg/L		0006639-05		0.1	0.110	110.0%	
Ethylbenzene-mg/L		0006638-05		0.1	0.104	104.0%	

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8021B/5030 BTEX****Order#: G0307312**

SRM	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Ethylbenzene-mg/L		0006639-05		0.1	0.101	101.0%	
p/m-Xylene-mg/L		0006638-05		0.2	0.227	113.5%	
p/m-Xylene-mg/L		0006639-05		0.2	0.214	107.0%	
o-Xylene-mg/L		0006638-05		0.1	0.104	104.0%	
o-Xylene-mg/L		0006639-05		0.1	0.102	102.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0307312

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		0.0%
Hydroxide Alkalinity-mg/L		0307300-01	0		< 0.20		0.0%
SULFATE, 375.4-mg/L		0307300-01	4.9		5.00		2.0%
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	101.1%	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#: G0307312

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		1.0%
Magnesium-mg/L		0307300-01	30.4		29.8		2.0%
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	102.0%	
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#: G0307312

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
P.O. Box 7624
Midland, Texas 79708

(915) 682-0808
(915) 682-0727 (Fax)

(505) 397-1771

V117-0803-2

Chain of Custody

Date 8/22/03 Page 1 of 1

Lab Name: Environmental Lab of Texas, Inc.

Address: 12600 West 120 East

Odessa, TX 79763

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

Samplers (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

Project Information

Sample Receipt

Relinquished By:

Relinquished By:

Relinquished By:

Project Name: Rice Operating Company

Total Containers:

Trident Environmental

(Printed Name)

(Printed Name)

Project Location: EME M-9 SWD

COC Seals:

(Signature) Gil Van Deventer

(Signature)

(Signature)

Project Manager: Gil Van Deventer

Recd Good Cond/Cold:

(Signature) ELDT

(Date)

(Date)

Cost Center No.: V-117

Conforms to Records:

(Date) 8/22/03 (Time) 0900

(Date)

(Date)

Shipping ID No.:

Lab No.:

Received By:

Received By:

Received By:

Bill to (see below): Rice Operating Company

(1) (Company)

(Signature) ELDT

(Date)

(Date)

Special Instructions: Attn: Carolyn Haynes

(2) (Company)

(Signature) ELDT

(Date)

(Date)

122 W. Taylor

(3) (Company)

(Signature) ELDT

(Date)

(Date)

Hobbs, NM 88240

(Signature)

(Date) 8-25-03 (Time) 0903

(Date)

(Date)

* Major Ions: Cl, SO₄, HCO₃, CO₃, Ca, Mg, K, Na

4.50C

1 L H₂OPE

signed original form for Trident Environmental records

ANALYTICAL REPORT

Prepared for:

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

Project: M-9
PO#: 510
Order#: G0306525
Report Date: 05/22/2003

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#: G0306525
Project:
Project Name: M-9
Location: EME

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>
0306525-01	MW 1A	WATER	5/16/03 14:40	5/16/03 19:50	See COC	See COC
<u>Lab Testing:</u>		Rejected: No	Temp: 4 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#: G0306525
Project:
Project Name: M-9
Location: EME

Lab ID: 0306525-01
Sample ID: MW 1A

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005578-02		5/20/03 17:21	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	108%	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

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

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306525
Project:
Project Name: M-9
Location: EME

Lab ID: 0306525-01

Sample ID: MW 1A

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	341	mg/L	1	2.00	310.1	5/19/03	CK
Carbonate Alkalinity	<0.10	mg/L	1	0.10	310.1	5/19/03	CK
Chloride	390	mg/L	1	5.00	9253	5/19/03	CK
Hydroxide Alkalinity	<0.10	mg/L	1	0.10	310.1	5/19/03	CK
SULFATE, 375.4	498	mg/L	12.5	6.25	375.4	5/21/03	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)	1470	mg/L	1	5.0	160.1	5/20/03	SB

Approval:

Cele D. Keene
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

05/23/03

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

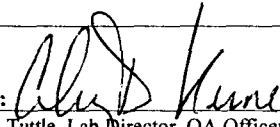
Order#: G0306525
Project:
Project Name: M-9
Location: EME

Lab ID: 0306525-01
Sample ID: MW 1A

Cations

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Calcium	97.0	mg/L	10	0.10	6010B	05/22/2003	5/22/03	SM
Magnesium	50.6	mg/L	10	0.010	6010B	05/22/2003	5/22/03	SM
Potassium	9.43	mg/L	10	0.50	6010B	05/22/2003	5/22/03	SM
Sodium	251	mg/L	100	1.0	6010B	05/22/2003	5/22/03	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.

05/23/13
Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306525

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005578-02			<0.001		
Toluene-mg/L		0005578-02			<0.001		
Ethylbenzene-mg/L		0005578-02			<0.001		
p/m-Xylene-mg/L		0005578-02			<0.001		
o-Xylene-mg/L		0005578-02			<0.001		
CONTROL							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005578-03		0.1	0.112	112.%	
Toluene-mg/L		0005578-03		0.1	0.107	107.%	
Ethylbenzene-mg/L		0005578-03		0.1	0.098	98.%	
p/m-Xylene-mg/L		0005578-03		0.2	0.200	100.%	
o-Xylene-mg/L		0005578-03		0.1	0.090	90.%	
CONTROL DUP							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005578-04		0.1	0.108	108.%	3.6%
Toluene-mg/L		0005578-04		0.1	0.104	104.%	2.8%
Ethylbenzene-mg/L		0005578-04		0.1	0.095	95.%	3.1%
p/m-Xylene-mg/L		0005578-04		0.2	0.196	98.%	2.%
o-Xylene-mg/L		0005578-04		0.1	0.093	93.%	3.3%
SRM							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/L		0005578-05		0.1	0.104	104.%	
Toluene-mg/L		0005578-05		0.1	0.103	103.%	
Ethylbenzene-mg/L		0005578-05		0.1	0.093	93.%	
p/m-Xylene-mg/L		0005578-05		0.2	0.188	94.%	
o-Xylene-mg/L		0005578-05		0.1	0.085	85.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Anions

Order#: G0306525

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0005573-01			<2.00		
Carbonate Alkalinity-mg/L		0005573-01			<0.10		
Chloride-mg/L		0005570-01			<5.00		
Hydroxide Alkalinity-mg/L		0005573-01			<0.10		
SULFATE, 375.4-mg/L		0005591-01			<0.50		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0306525-01	341		339		0.6%
Carbonate Alkalinity-mg/L		0306525-01	0		<0.10		0.0%
Hydroxide Alkalinity-mg/L		0306525-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L		0306525-01	498		474		4.9%
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0306484-01	1330	5000	6290	99.2%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Chloride-mg/L		0306484-01	1330	5000	6380	101.1%	1.4%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Bicarbonate Alkalinity-mg/L		0005573-04		0.05	0.0518	103.6%	
Carbonate Alkalinity-mg/L		0005573-04		0.05	0.0518	103.6%	
Chloride-mg/L		0005570-04		5000	5140	102.8%	
Hydroxide Alkalinity-mg/L		0005573-04		0.05	0.0518	103.6%	
SULFATE, 375.4-mg/L		0005591-04		50	52	104.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0306525

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0005610-02			<0.010		
Magnesium-mg/L		0005610-02			<0.001		
Potassium-mg/L		0005610-02			<0.050		
Sodium-mg/L		0005610-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0306525-01	97		97.5		0.5%
Magnesium-mg/L		0306525-01	50.6		50.7		0.2%
Potassium-mg/L		0306525-01	9.43		9.47		0.4%
Sodium-mg/L		0306525-01	251		251		0.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0005610-05		2	1.96	98.0%	
Magnesium-mg/L		0005610-05		2	2.08	104.0%	
Potassium-mg/L		0005610-05		2	1.76	88.0%	
Sodium-mg/L		0005610-05		2	1.78	89.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306525

BLANK	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0005593-01			<5.00		
DUPLICATE	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0306525-01	1470		1470		0.0%

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:

SS: 122 W. Taylor

City/State/Zip:

Zip: H0665, NM 88240

Telephone No. _____

(505) 393-9174

Sampler Signature:

Israel J. W. W.

Fax No: (505) 397-1471

Project Name:

M-9

Project #:

Project Loc:

E.M.F.

PO #:

510

Sampler Signature: David J. Hargrave

Special Instructions: Major anions + cations; TDS Fax to RICE

Relinquished by: David J. Hargrave Date: 05/16/03 Time: 1530

Relinquished by: David J. Hargrave Date: 05/16/03 Time: 19:50

Received by: Rice, J. H. Date: 05/16/03 Time: 5:16:07

Date: 05/16/03 Time: 1440

Date: 05/16/03 Time: 1950

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative				Matrix				TDS / Chloride (mg/L)	TPH a18.1	TPH TX 1005/1006	TPH 8015M GROUND	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semi-volatiles	BTEX 8021B/6030	Analyze For:	
				HCl	HNO ₃	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil										Other (Specify)
MW 1A	05/16/03	1440	1	X			X														
MW 1A	05/16/03	1440	2	X			X														

Standard TAT
 RUSH TAT (Pre-Schedule)

Sample Container's intact?
 Temperature Upon Receipt
 Laboratory Comments: Rice 4°C

ANALYTICAL REPORT

Prepared for:

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

Project: M-9

PO#:

Order#: G0305851

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#: G0305851
Project:
Project Name: M-9
Location: EME

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>
0305851-01	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#: G0305851
Project:
Project Name: M-9
Location: EME

Lab ID: 0305851-01

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	310	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	372	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	414	mg/L	10	5.0	375.4	3/4/03	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	95.8	mg/L	100	1.0	6010B	3/3/03	SM
Magnesium	54.3	mg/L	10	0.010	6010B	3/3/03	SM
Potassium	9.40	mg/L	10	0.50	6010B	3/3/03	SM
Sodium	265	mg/L	100	1.0	6010B	3/3/03	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)	1500	mg/L	1	5.0	160.1	3/3/03	TAL

Approval:

Raland K Tuttle 3-05-03
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.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305851
Project:
Project Name: M-9
Location: EME

Lab ID: 0305851-01
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
0004817-02		3/3/03 20:09	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	0.002	0.001
Toluene	0.002	0.001
Ethylbenzene	0.002	0.001
p/m-Xylene	0.002	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	101%	80	120

Approval: *Raland 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.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305851

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#: G0305851

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#: G0305851

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#: G0305851

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%

Price, Wayne

From: Price, Wayne
Sent: Monday, July 28, 2003 4:09 PM
To: Carolyn Doran Haynes (E-mail)
Cc: Gil Van Deventer (E-mail)
Subject: Work Plan for EME M-9 SWD station dated June 20, 2003

The OCD is in receipt of the subject work plan and hereby approves of the plan with the following condition:

The existing water well may be reconstructed as a monitor well for water depth purposes.

Please be advised that NMOCD approval of this plan does not relieve Rice Operating Company(ROC) of liability should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve ROC of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

Sincerely:



Wayne Price
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
505-476-3487
fax: 505-476-3462
E-mail: WPRICE@state.nm.us