

AP - 65

ANNUAL MONITORING REPORT

YEAR(S):

2004

**2004 Annual Groundwater Monitoring Report
EME M-9 SWD Site
T20S, R37E, Section 9, Unit Letter M
Lea County, New Mexico**

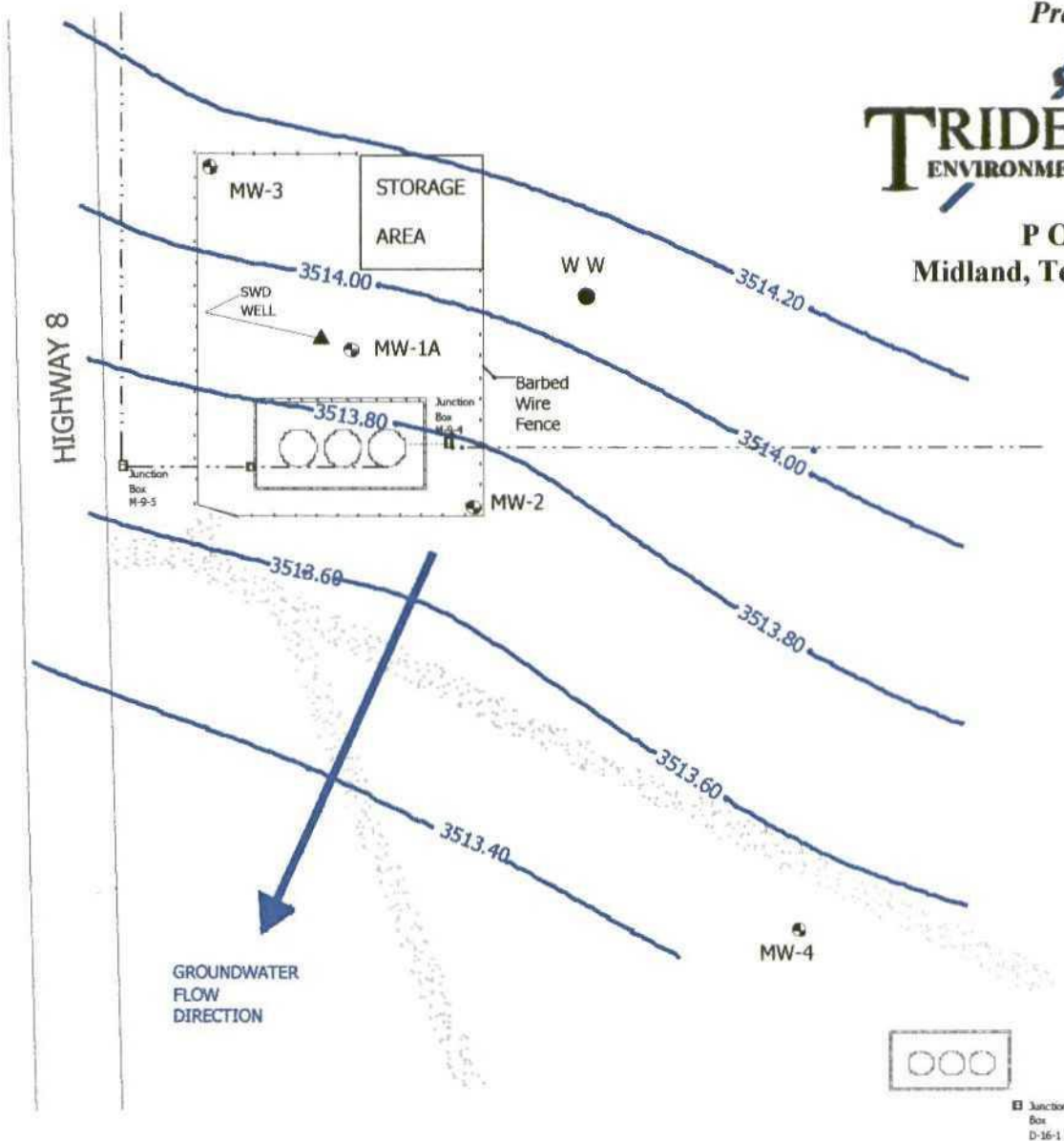
MARCH 23, 2005

Prepared For:
RICE Operating Company
122 West Taylor
Hobbs, New Mexico 88240

Prepared By:



P O Box 7624
Midland, Texas 79708





CERTIFIED MAIL
RETURN RECIEPT NO. 7099 3400 0017 1737 2497

March 23, 2005

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

**RE: 2004 ANNUAL MONITORING WELL REPORT
EME M-9 SWD SITE
T20S-R37E-Section 9, Unit Letter M
NMOCD CASE # 1R0331**

Mr. Price:

Trident Environmental takes this opportunity to submit the 2004 Annual Monitoring Well Report for the EME M-9 SWD site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. The four monitoring wells and one water well are sampled quarterly pursuant to NMOCD guidelines. Trident Environmental will continue the sampling of these wells in 2005 and Environmental Lab of Texas of Odessa will continue to conduct laboratory analysis of the water samples.

Trident Environmental will submit an Investigation and Characterization Plan by March 31, 2005.

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.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me at (423) 638-3106 or Kristin Farris Pope at (505) 393-9174.

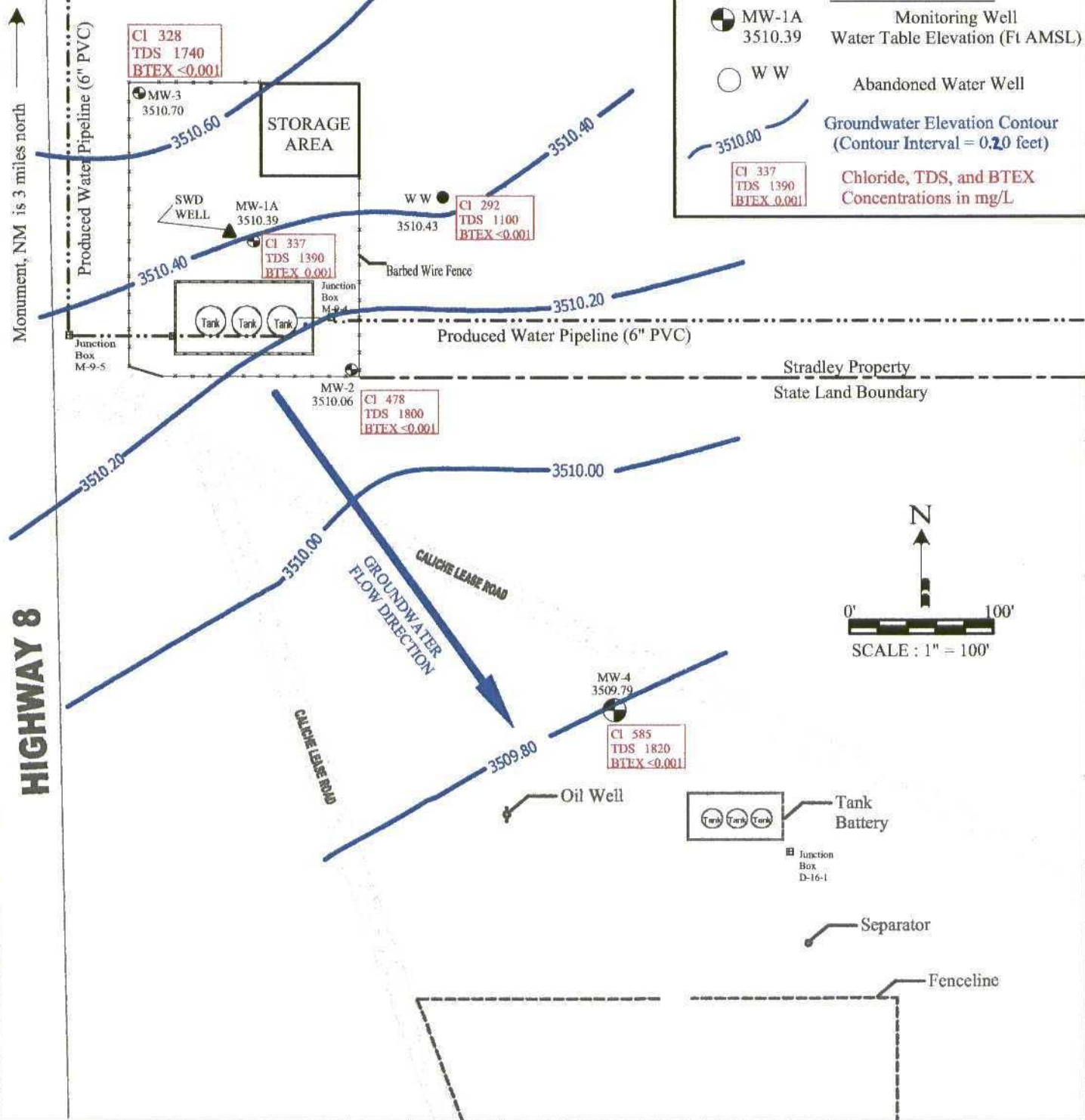
Sincerely,

Gilbert J. Van Deventer, REM, PG, NMCS
Trident Environmental - Project Manager

enclosures: Summary table & graph, analytical results, map

cc: LBG, CDH, KFP, file,
Chris Williams - NMOCD, District I Office (Hobbs)

MAPS



Client: Rice Operating Company

Sampling Date: February 20, 2004

Author: GJV Checked By: DTL

File: Projects/Rice/EME/M-9/Proposed

FIGURE 1A
EME SYSTEM
M-9 SWD STATION

Monument, NM is 3 miles north

HIGHWAY 8

Produced Water Pipeline (6" PVC)

Junction Box M-9-5

CI 328
TDS 1530
BTEX <0.001

MW-3
3512.30

STORAGE AREA

SWD WELL

MW-1A

CI 337
TDS 1400
BTEX <0.001

Tank Tank Tank

Junction Box M-9-4

W W

CI 266
TDS 1040
BTEX <0.001

3512.21

Barbed Wire Fence

Produced Water Pipeline (6" PVC)

MW-2

3511.83

CI 328
TDS 1460
BTEX <0.001

Stradley Property
State Land Boundary

MAP LEGEND

● MW-1A
3512.04 Monitoring Well
Water Table Elevation (Ft AMSL)

○ W W Abandoned Water Well

~ 3510.00 Groundwater Elevation Contour
(Contour Interval = 0.20 feet)

CI 337
TDS 1400
BTEX <0.001 Chloride, TDS, and BTEX
Concentrations in mg/L

GROUNDWATER
FLOW DIRECTION

CALICHE LEASE ROAD

3511.60

MW-4

3511.63

CI 549
TDS 1760
BTEX <0.001

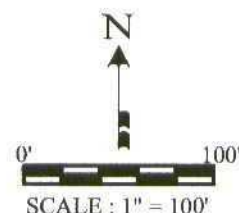
Oil Well

Tank Battery

Junction Box D-16-1

Separator

Fenceline



Client: Rice Operating Company

Sampling Date: May 5, 2004

Author: GJV Checked By: DTL

File: Projects/Rice/EME/M-9/Proposed

FIGURE 1B

EME SYSTEM
M-9 SWD SITE

Monument, NM is 3 miles north

HIGHWAY 8

Produced Water Pipeline (6" PVC)

Junction Box M-9-5

MW-3
CI 337
TDS 1560
BTEX <0.001

STORAGE
AREA

SWD
WELL

MW-1A

CI 390
TDS 1690
BTEX 0.001

3511.53

W W

3511.58

CI 266
TDS 1810
BTEX <0.001

Barbed Wire Fence

Junction Box M-9-4

MW-2

3511.24
CI 461
TDS 1770
BTEX <0.001

GROUNDWATER
FLOW DIRECTION

CALICHE LEASE ROAD

MW-4

3511.12
CI 567
TDS 1770
BTEX <0.001

Oil Well

Tank
Battery

Junction Box D-16-1

Separator

Fenceline

MAP LEGEND

MW-1A
3512.04

Monitoring Well
Water Table Elevation (Ft AMSL)

W W

Abandoned Water Well

3511.60
Groundwater Elevation Contour
(Contour Interval = 0.10 feet)

CI 284
TDS 959
BTEX <0.001

Chloride, TDS, and BTEX
Concentrations in mg/L

Produced Water Pipeline (6" PVC)

Stradley Property
State Land Boundary

N

0' 100'
SCALE: 1" = 100'



Client: Rice Operating Company

Sampling Date: August 11, 2004

Author: GJV

File: Projects/Rice/EME/M-9/020805M9

FIGURE 1C

EME SYSTEM
M-9 SWD STATION

Monument, NM is 3 miles north

HIGHWAY 8

Produced Water Pipeline (6" PVC)

MW-3

3512.79
CI 337
TDS 1600
BTEX <0.001

STORAGE
AREA

W W

CI 284
TDS 959
BTEX <0.001

3512.68

Barbed Wire Fence

MW-1A

CI 390
TDS 1740
BTEX 0.003

3512.57

Tank Tank Tank

Junction
Box
M-9-4

Junction
Box
M-9-5

MW-2

3512.37
CI 346
TDS 1610
BTEX <0.001

GROUNDWATER
FLOW DIRECTION
CALICHE LEASE ROAD

3512.40

Stradley Property
State Land Boundary

MW-4

3512.19
CI 514
TDS 1790
BTEX <0.001

Oil Well

Tank
Battery

Junction
Box
D-16-1

Separator

Fenceline

MAP LEGEND

MW-1A
3512.04

Monitoring Well
Water Table Elevation (Ft AMSL)

W W

Abandoned Water Well

3511.60
Groundwater Elevation Contour
(Contour Interval = 0.20 feet)

CI 284
TDS 959
BTEX <0.001

Chloride, TDS, and BTEX
Concentrations in mg/L

N

0' 100'
SCALE: 1" = 100'



Client: Rice Operating Company

Sampling Date: November 10, 2004

Author: GJV

File: Projects/Rice/EME/M-9/020805M9

FIGURE 1D

EME SYSTEM
M-9 SWD STATION

TABLES AND GRAPHS

Table 1
Summary of Groundwater Sampling Results
EME M-9 SWD Site

Monitoring Well	Sample Date	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)
MW-1	04/08/02	348	1512	< 0.002	< 0.002	< 0.002	< 0.006	---	---
	05/13/02	354	1540	< 0.001	< 0.001	< 0.001	< 0.001	21.02	---
	08/20/02	376	1517	< 0.002	< 0.002	< 0.002	< 0.006	22.45	---
MW-1A	10/28/02	372	1470	< 0.001	< 0.001	< 0.001	< 0.001	19.10	3510.70
	02/28/03	372	1500	0.002	0.002	0.002	0.003	18.48	3511.32
	05/16/03	390	1470	0.001	< 0.001	< 0.001	0.001	19.00	3510.80
	08/22/03	372	1470	0.002	< 0.001	< 0.001	< 0.001	19.38	3510.42
	10/30/03	346	1530	< 0.001	< 0.001	< 0.001	< 0.001	19.57	3510.23
	02/20/04	337	1390	0.001	< 0.001	< 0.001	< 0.001	19.41	3510.39
	05/05/04	337	1400	0.001	< 0.001	< 0.001	< 0.001	17.76	3512.04
	08/11/04	390	1690	0.003	< 0.001	< 0.001	< 0.001	18.27	3511.53
	11/10/04	390	1740	0.003	< 0.001	< 0.001	< 0.001	17.23	3512.57
MW-2	08/22/03	603	2060	< 0.001	< 0.001	< 0.001	< 0.001	21.45	3510.05
	10/30/03	709	2300	< 0.001	< 0.001	< 0.001	< 0.001	21.61	3509.89
	02/20/04	478	1800	< 0.001	< 0.001	< 0.001	< 0.001	21.44	3510.06
	05/05/04	328	1460	< 0.001	< 0.001	< 0.001	< 0.001	19.67	3511.83
	08/11/04	461	1770	< 0.001	< 0.001	< 0.001	< 0.001	20.26	3511.24
	11/10/04	346	1610	< 0.001	< 0.001	< 0.001	< 0.001	19.13	3512.37
MW-3	08/22/03	319	1590	< 0.001	< 0.001	< 0.001	< 0.001	21.68	3510.72
	10/30/03	328	1740	< 0.001	< 0.001	< 0.001	< 0.001	21.86	3510.54
	02/20/04	337	1550	< 0.001	< 0.001	< 0.001	< 0.001	21.70	3510.70
	05/05/04	328	1530	< 0.001	< 0.001	< 0.001	< 0.001	20.10	3512.30
	08/11/04	337	1560	< 0.001	< 0.001	< 0.001	< 0.001	20.62	3511.78
	11/10/04	337	1600	< 0.001	< 0.001	< 0.001	< 0.001	19.61	3512.79
MW-4	02/20/04	585	1820	< 0.001	< 0.001	< 0.001	< 0.001	22.61	3509.79
	05/05/04	549	1760	< 0.001	< 0.001	< 0.001	< 0.001	20.77	3511.63
	08/11/04	567	1770	< 0.001	< 0.001	< 0.001	< 0.001	21.28	3511.12
	11/10/04	514	1790	< 0.001	< 0.001	< 0.001	< 0.001	20.21	3512.19
WW	08/22/03	---	---	---	---	---	---	21.09	3509.41
	10/30/03	284	1150	< 0.001	< 0.001	< 0.001	0.002	20.25	3510.25
	02/20/04	292	1100	< 0.001	< 0.001	< 0.001	0.002	20.07	3510.43
	05/14/04	266	1040	< 0.001	< 0.001	< 0.001	< 0.001	18.29	3512.21
	08/11/04	266	1810	< 0.001	< 0.001	< 0.001	< 0.001	18.92	3511.58
	11/10/04	284	959	< 0.001	< 0.001	< 0.001	< 0.001	17.82	3512.68
WQCC Standards		250	1000	0.01	0.75	0.75	0.62		

Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L).

Analyses performed by Cardinal Labs, Hobbs, NM (1995-1998) and Environmental Lab of Texas, Odessa, TX (1999-2003).

Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.

AMSL - Above Mean Sea Level; BTOC - Below Top of Casing

Groundwater flow direction is to the southeast with a gradient of approx. 0.003 ft/ft.

Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

Figure 2
Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-1A)

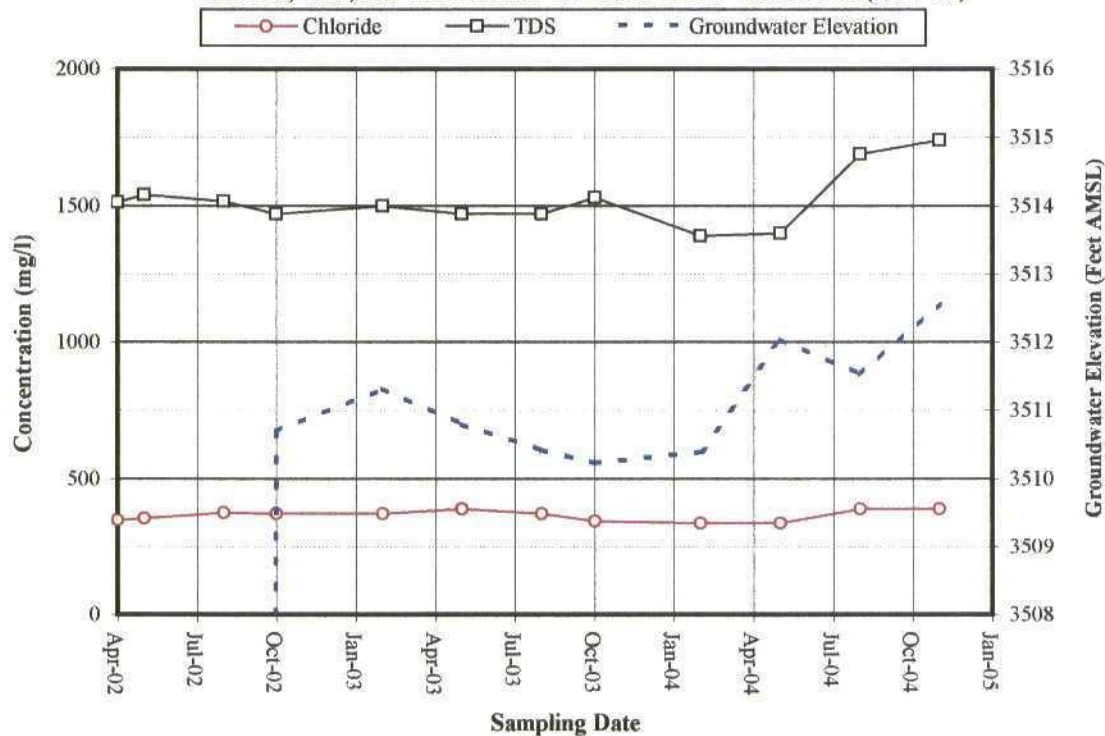


Figure 3
Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-2)

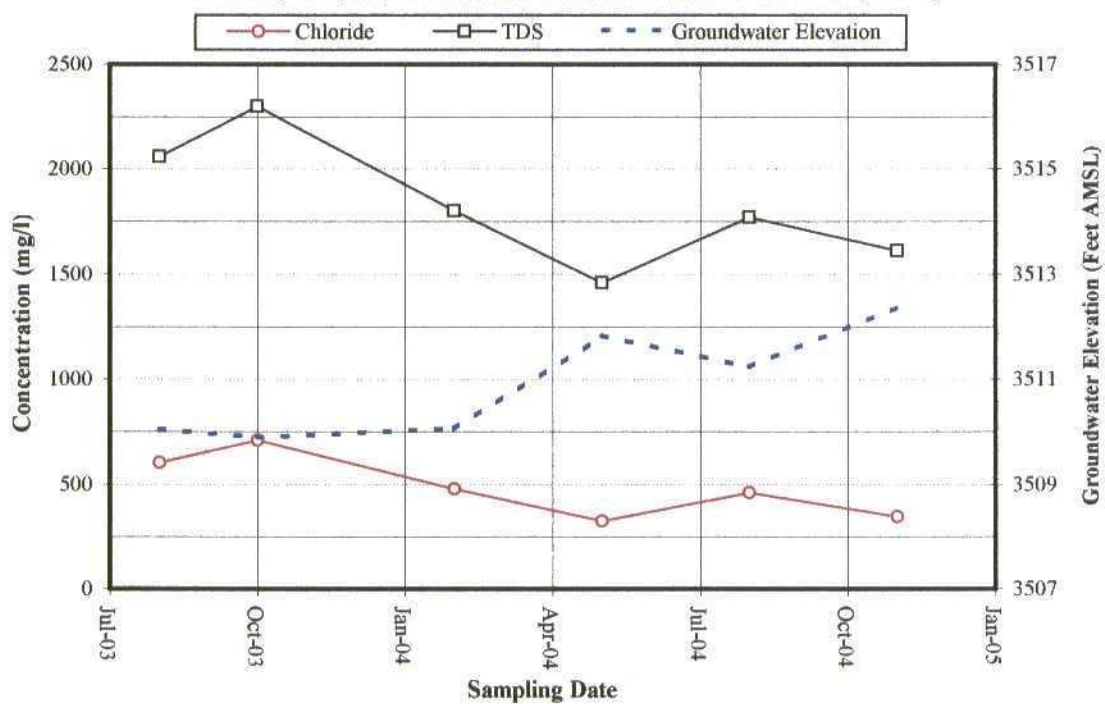


Figure 4
Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-3)

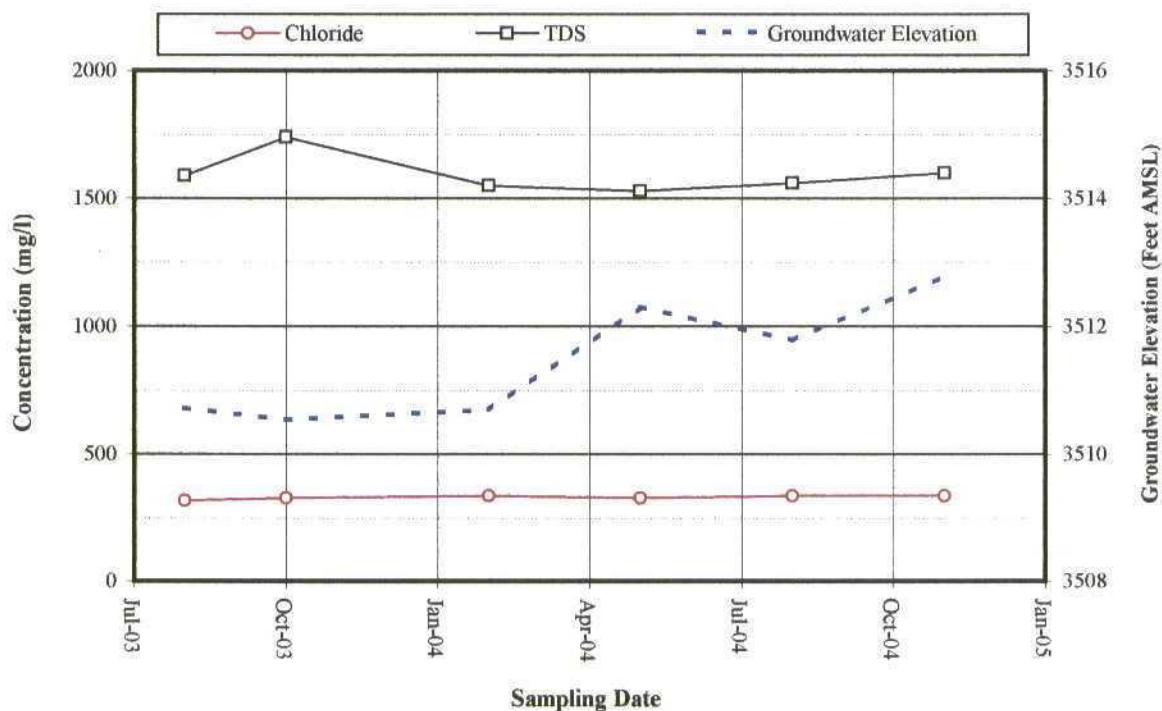


Figure 5
Chloride, TDS, and Groundwater Elevation Values Versus Time (MW-4)

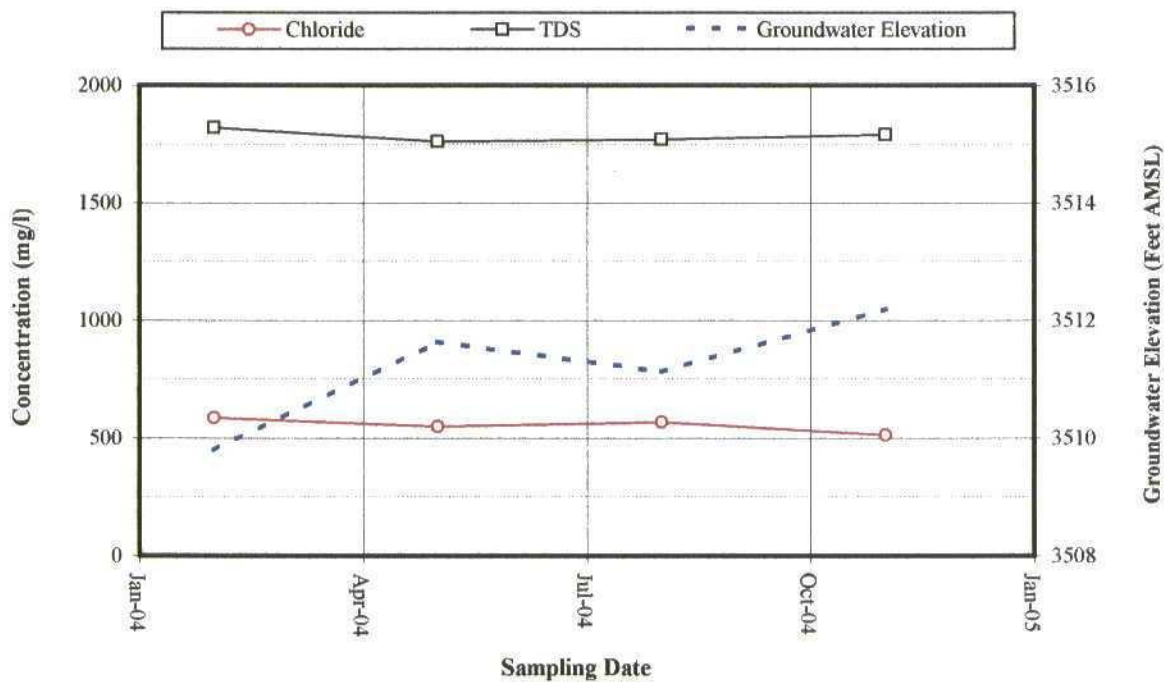
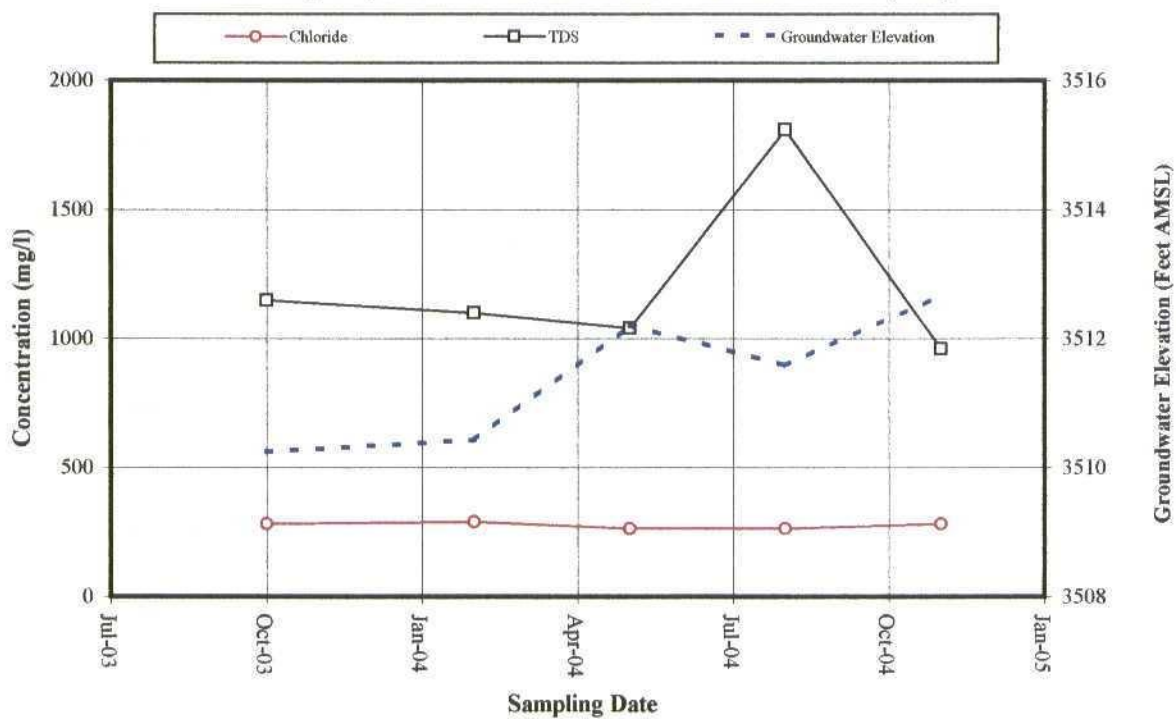
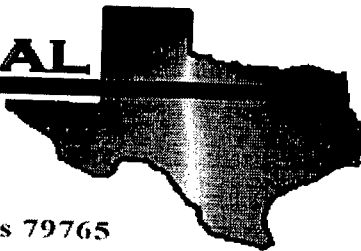


Figure 6
Chloride, TDS, and Groundwater Elevation Values Versus Time (WW)



LABORATORY REPORTS
AND
CHAIN OF CUSTODY DOCUMENTATION

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Gilbert Vandeventer
Trident Environmental
P.O. Box 7624
Midland, TX 79708

Project: Rice Operating Company

Project Number: V-117

Location: EME M-9 SWD

Lab Order Number: 4B20014

Report Date: 02/26/04

Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727
Reported:
02/26/04 11:27

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4B20014-01	Water	02/20/04 13:40	02/20/04 17:55
MW-2	4B20014-02	Water	02/20/04 14:40	02/20/04 17:55
MW-3	4B20014-03	Water	02/20/04 14:10	02/20/04 17:55
MW-4	4B20014-04	Water	02/20/04 13:00	02/20/04 17:55
WW	4B20014-05	Water	02/20/04 12:30	02/20/04 17:55

Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

Reported:
02/26/04 11:27

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4B20014-01)									
Benzene	J [0.000778]	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-120		"	"	"	"	
MW-2 (4B20014-02)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	"	"	"	
MW-3 (4B20014-03)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.0 %	80-120		"	"	"	"	
MW-4 (4B20014-04)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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


Quality Assurance Review

Page 2 of 12

Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727


Reported:
02/26/04 11:27

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW (4B20014-05)									
Benzene	ND	0.00100	mg/L	1	EB42507	02/24/04	02/24/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %		80-120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.5 %		80-120	"	"	"	"	

Environmental Lab of Texas

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


Quality Assurance Review

Page 3 of 12

Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

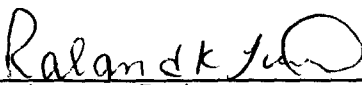
Reported:
02/26/04 13:04

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4B20014-01)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EB42104	02/20/04	02/20/04	EPA 310.2M	
Bicarbonate Alkalinity	277	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	337	5.00	"	"	EB42102	02/21/04	02/21/04	EPA 325.3	
Nitrate as N	ND	0.100	"	"	EB42309	02/21/04	02/23/04	EPA 353.3	
Total Dissolved Solids	1390	5.00	"	"	EB42404	02/24/04	02/24/04	EPA 160.1	
Sulfate	468	6.25	"	12.5	EB42103	02/21/04	02/21/04	EPA 375.4	
MW-2 (4B20014-02)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EB42104	02/20/04	02/20/04	EPA 310.2M	
Bicarbonate Alkalinity	338	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	478	5.00	"	"	EB42102	02/21/04	02/21/04	EPA 325.3	
Nitrate as N	ND	0.100	"	"	EB42309	02/21/04	02/23/04	EPA 353.3	
Total Dissolved Solids	1800	5.00	"	"	EB42404	02/24/04	02/24/04	EPA 160.1	
Sulfate	514	6.25	"	12.5	EB42103	02/21/04	02/21/04	EPA 375.4	
MW-3 (4B20014-03)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EB42104	02/20/04	02/20/04	EPA 310.2M	
Bicarbonate Alkalinity	242	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	337	5.00	"	"	EB42102	02/21/04	02/21/04	EPA 325.3	
Nitrate as N	ND	0.100	"	"	EB42309	02/21/04	02/23/04	EPA 353.3	
Total Dissolved Solids	1550	5.00	"	"	EB42404	02/24/04	02/24/04	EPA 160.1	
Sulfate	591	6.25	"	12.5	EB42103	02/21/04	02/21/04	EPA 375.4	
MW-4 (4B20014-04)									
Carbonate Alkalinity	ND	0.100	mg/L	1	EB42104	02/20/04	02/20/04	EPA 310.2M	
Bicarbonate Alkalinity	256	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	585	5.00	"	"	EB42102	02/21/04	02/21/04	EPA 325.3	
Nitrate as N	ND	0.100	"	"	EB42309	02/21/04	02/23/04	EPA 353.3	
Total Dissolved Solids	1820	5.00	"	"	EB42404	02/24/04	02/24/04	EPA 160.1	
Sulfate	505	6.25	"	12.5	EB42103	02/21/04	02/21/04	EPA 375.4	

Environmental Lab of Texas

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Quality Assurance Review

Page 4 of 12

Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

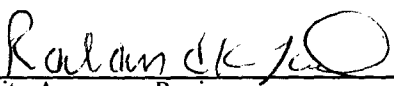
Reported:
02/26/04 11:27

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW (4B20014-05)									
Carbonate Alkalinity	4.00	0.100	mg/L	1	EB42104	02/20/04	02/20/04	EPA 310.2M	
Bicarbonate Alkalinity	264	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	292	5.00	"	"	EB42102	02/21/04	02/21/04	EPA 325.3	
Nitrate as N	ND	0.100	"	"	EB42309	02/21/04	02/23/04	EPA 353.3	
Total Dissolved Solids	1100	5.00	"	"	EB42404	02/24/04	02/24/04	EPA 160.1	
Sulfate	668	6.25	"	12.5	EB42103	02/21/04	02/21/04	EPA 375.4	

Environmental Lab of Texas

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Quality Assurance Review

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Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

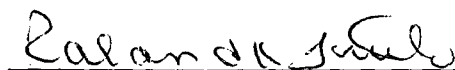
Reported:
02/26/04 11:27

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4B20014-01)									
Calcium	137	1.00	mg/L	100	EB42311	02/23/04	02/23/04	EPA 6010B	
Magnesium	51.7	0.0100	"	10	"	"	02/23/04	"	
Potassium	26.3	0.500	"	"	"	"	"	"	
Sodium	390	1.00	"	100	"	"	02/23/04	"	
MW-2 (4B20014-02)									
Calcium	178	1.00	mg/L	100	EB42311	02/23/04	02/23/04	EPA 6010B	
Magnesium	65.9	0.0100	"	10	"	"	02/23/04	"	
Potassium	39.0	0.500	"	"	"	"	"	"	
Sodium	538	1.00	"	100	"	"	02/23/04	"	
MW-3 (4B20014-03)									
Calcium	169	1.00	mg/L	100	EB42311	02/23/04	02/23/04	EPA 6010B	
Magnesium	57.9	0.0100	"	10	"	"	02/23/04	"	
Potassium	26.6	0.500	"	"	"	"	"	"	
Sodium	451	1.00	"	100	"	"	02/23/04	"	
MW-4 (4B20014-04)									
Calcium	182	1.00	mg/L	100	EB42311	02/23/04	02/23/04	EPA 6010B	
Magnesium	70.2	0.0100	"	10	"	"	02/23/04	"	
Potassium	31.7	0.500	"	"	"	"	"	"	
Sodium	611	1.00	"	100	"	"	02/23/04	"	
WW (4B20014-05)									
Calcium	135	1.00	mg/L	100	EB42311	02/23/04	02/23/04	EPA 6010B	
Magnesium	48.9	0.0100	"	10	"	"	02/23/04	"	
Potassium	27.2	0.500	"	"	"	"	"	"	
Sodium	427	1.00	"	100	"	"	02/23/04	"	

Environmental Lab of Texas

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Quality Assurance Review

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Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727
Reported:
02/26/04 11:27

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EB42507 - EPA 5030C (GC)

Blank (EB42507-BLK1)

Prepared & Analyzed: 02/24/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	23.3		ug/l	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	23.9		"	20.0		120	80-120			

LCS (EB42507-BS1)

Prepared & Analyzed: 02/24/04

Benzene	87.3		ug/l	100		87.3	80-120			
Toluene	90.1		"	100		90.1	80-120			
Ethylbenzene	94.1		"	100		94.1	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	97.8		"	100		97.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.8		"	20.0		99.0	80-120			
Surrogate: 4-Bromofluorobenzene	22.9		"	20.0		114	80-120			

Calibration Check (EB42507-CCV1)

Prepared: 02/24/04 Analyzed: 02/25/04

Benzene	92.7		ug/l	100		92.7	80-120			
Toluene	94.7		"	100		94.7	80-120			
Ethylbenzene	94.2		"	100		94.2	80-120			
Xylene (p/m)	194		"	200		97.0	80-120			
Xylene (o)	98.5		"	100		98.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	19.1		"	20.0		95.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.1		"	20.0		100	80-120			

Duplicate (EB42507-DUP1)

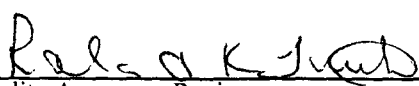
Source: 4B20007-09

Prepared: 02/24/04 Analyzed: 02/25/04

Benzene	ND	0.00100	mg/L		ND				20	
Toluene	ND	0.00100	"		ND				20	
Ethylbenzene	ND	0.00100	"		ND				20	
Xylene (p/m)	ND	0.00100	"		ND				20	
Xylene (o)	ND	0.00100	"		ND				20	
Surrogate: a,a,a-Trifluorotoluene	16.9		ug/l	20.0		84.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			

Environmental Lab of Texas

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Quality Assurance Review

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Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727
Reported:
02/26/04 11:27

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB42102 - General Preparation (WetChem)

Blank (EB42102-BLK1) Prepared & Analyzed: 02/21/04

Chloride ND 5.00 mg/L

Blank (EB42102-BLK2) Prepared & Analyzed: 02/21/04

Chloride ND 5.00 mg/L

Calibration Check (EB42102-CCV1) Prepared & Analyzed: 02/21/04

Chloride 4960 mg/L 5000 99.2 80-120

Calibration Check (EB42102-CCV2) Prepared & Analyzed: 02/21/04

Chloride 4960 mg/L 5000 99.2 80-120

Matrix Spike (EB42102-MS1) Source: 4B18015-01 Prepared & Analyzed: 02/21/04

Chloride 134 5.00 mg/L 100 35.4 98.6 80-120

Matrix Spike (EB42102-MS2) Source: 4B20014-01 Prepared & Analyzed: 02/21/04

Chloride 833 5.00 mg/L 500 337 99.2 80-120

Matrix Spike Dup (EB42102-MSD1) Source: 4B18015-01 Prepared & Analyzed: 02/21/04

Chloride 133 5.00 mg/L 100 35.4 97.6 80-120 0.749 20

Matrix Spike Dup (EB42102-MSD2) Source: 4B20014-01 Prepared & Analyzed: 02/21/04

Chloride 842 5.00 mg/L 500 337 101 80-120 1.07 20


Batch EB42103 - General Preparation (WetChem)

Blank (EB42103-BLK1) Prepared & Analyzed: 02/21/04

Sulfate ND 0.500 mg/L

Environmental Lab of Texas

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Quality Assurance Review

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Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

Reported:
02/26/04 11:27

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB42103 - General Preparation (WetChem)

Blank (EB42103-BLK2) Prepared & Analyzed: 02/21/04

Sulfate	ND	0.500	mg/L							
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Calibration Check (EB42103-CCV1) Prepared & Analyzed: 02/21/04

Sulfate	49.2		mg/L	50.0		98.4	80-120			
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Calibration Check (EB42103-CCV2) Prepared & Analyzed: 02/21/04

Sulfate	48.5		mg/L	50.0		97.0	80-120			
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Duplicate (EB42103-DUP1) Source: **4B18015-01** Prepared & Analyzed: 02/21/04

Sulfate	195	0.500	mg/L		195			0.00	20	
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Duplicate (EB42103-DUP2) Source: **4B20014-01** Prepared & Analyzed: 02/21/04

Sulfate	476	0.500	mg/L		468			1.69	20	
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Batch EB42104 - General Preparation (WetChem)

Blank (EB42104-BLK1) Prepared & Analyzed: 02/20/04

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

Hydroxide Alkalinity	ND	0.100	"							
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Calibration Check (EB42104-CCV1) Prepared & Analyzed: 02/20/04

Carbonate Alkalinity	0.0496		mg/L	0.0500		99.2	80-120			
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Duplicate (EB42104-DUP1) Source: **4B20001-01** Prepared & Analyzed: 02/20/04

Carbonate Alkalinity	6.00	0.100	mg/L		6.00			0.00	20	
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Bicarbonate Alkalinity	284	2.00	"		280			1.42	20	
------------------------	-----	------	---	--	-----	--	--	------	----	--

Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
----------------------	------	-------	---	--	------	--	--	--	----	--

Environmental Lab of Texas

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Quality Assurance Review

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Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727
Reported:
02/26/04 11:27

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

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

Batch EB42309 - General Preparation (WetChem)

Blank (EB42309-BLK1)

Prepared: 02/21/04 Analyzed: 02/23/04

Nitrate as N ND 0.100 mg/L

Calibration Check (EB42309-CCV1)

Prepared: 02/21/04 Analyzed: 02/23/04

Nitrate as N 1.80 mg/L 2.00 90.0 80-120

Duplicate (EB42309-DUP1)

Source: 4B18015-01

Prepared: 02/21/04 Analyzed: 02/23/04

Nitrate as N 1.90 0.100 mg/L 1.80 5.41 20

Batch EB42404 - General Preparation (WetChem)

Blank (EB42404-BLK1)

Prepared & Analyzed: 02/24/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EB42404-DUP1)

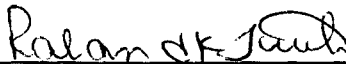
Source: 4B20001-01

Prepared & Analyzed: 02/24/04

Total Dissolved Solids 1680 5.00 mg/L 1630 3.02 20

Environmental Lab of Texas

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Quality Assurance Review

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Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

Reported:
02/26/04 11:27

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EB42311 - General Preparation (Metals)

Blank (EB42311-BLK1)

Prepared & Analyzed: 02/23/04

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

Calibration Check (EB42311-CCV1)

Prepared & Analyzed: 02/23/04

Calcium	2.10		mg/L	2.00		105	85-115			
Magnesium	2.00		"	2.00		100	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.89		"	2.00		94.5	85-115			

Duplicate (EB42311-DUP1)


Source: 4B20001-01

Prepared & Analyzed: 02/23/04

Calcium	23.3	0.100	mg/L		23.5			0.855	20	
Magnesium	4.58	0.00100	"		4.60			0.436	20	
Potassium	16.3	0.500	"		15.8			3.12	20	
Sodium	451	1.00	"		450			0.222	20	

Environmental Lab of Texas

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Quality Assurance Review

Trident Environmental
P.O. Box 7624
Midland TX, 79708

Project: Rice Operating Company
Project Number: V-117
Project Manager: Gilbert Vandeventer

Fax: 682-0727

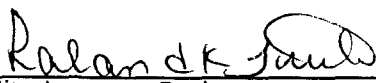
Reported:
02/26/04 11:27

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Environmental Lab of Texas

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Quality Assurance Review

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TRIDENT
ENVIRONMENTAL



TRIDENT
ENVIRONMENTAL

Chain of Custody

Date 02-20-04 Page 1 of 1

4B20014

Lab Name: Environmental Lab of Texas
Address: 12600 W I-20 East
Odessa, Texas 79765
Telephone: (915) 563-1800

Samplers (SIGNATURES)

Samplers (SIGNATURES)		
	Sample Identification	Matrix

Sample Identification	Matrix	Date	Time
MW-1	Water	2-20-04	1340
MW-2	Water	2-20-04	1440
MW-3	Water	2-20-04	1410
MW-4	Water	2-20-04	1300
MW	Water	2-20-04	1230

Analysis Request

[illegible]

Project Information		Sample Receipt		Relinquished By: (1) (Company)		Relinquished By: (2) (Company)		Relinquished By: (3) (Company)	
Project Name:	Rice Operating Company	Total Containers:		Trident Environmental					
Project Location:	EME M-9 SWD	COC Seals:		(Printed Name)	(Printed Name)				
Project Manager:	Gil Van Deventer	Rec'd Good Cond/Cold:	-15°	(Signature)	(Signature)				
Cost Center No.:	V-117	Conforms to Records:		(Date)	(Date)	(Time)	(Time)		
Shipping ID No.:		Lab No.:		02-20-04		(Time)	3:33pm		
Bill to (see below):		Rice Operating Co.		Received By:		Received By:		Received By:	
Special Instructions:		Attn: Carolyn Haynes		(1) (Company)		(2) (Company)		(3) (Company)	
		122 W. Taylor, Hobbs NM 88240		(Printed Name)		(Printed Name)		(Printed Name)	
		(Fax: 505-397-1471)		(Signature)		(Signature)		(Signature)	
				(Date)		(Date)		(Date)	
				(Time)		(Time)		(Time)	

please email pdf report to gil@trident-environmental.com
(1) 2 HDPE
(2) 40 mL w/ HCl glass

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Trident Env.

Date/Time: 02-20-04 @ 1800

Order #: 4 B 20014

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	-11.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

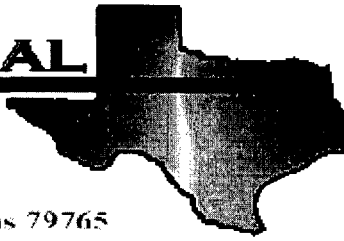
Other observations:

Variance Documentation:

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

Corrective Action Taken:

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: EME System M-9 SWD Site
Project Number: None Given
Location: T20S, R37E, Sec 9, Unit Letter M

Lab Order Number: 4E07002

Report Date: 05/13/04

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
05/13/04 15:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4E07002-01	Water	05/05/04 15:00	05/07/04 08:05
MW-2	4E07002-02	Water	05/05/04 13:07	05/07/04 08:05
MW-3	4E07002-03	Water	05/05/04 12:15	05/07/04 08:05
MW-4	4E07002-04	Water	05/05/04 12:40	05/07/04 08:05
WW	4E07002-05	Water	05/05/04 14:20	05/07/04 08:05

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4E07002-01) Water									
Benzene	I [0.000356]	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	J
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		119 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-120		"	"	"	"	
MW-2 (4E07002-02) Water									
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	80-120		"	"	"	"	
MW-3 (4E07002-03) Water									
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		120 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Roland K. Smith

Quality Assurance Review

Page 2 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (4E07002-04) Water									
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.5 %	80-120		"	"	"	"	
WW (4E07002-05) Water									
Benzene	ND	0.00100	mg/L	1	EE41103	05/07/04	05/07/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Roland K. Smith

Quality Assurance Review

Page 3 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4E07002-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	288	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	337	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	1400	5.00	"	"	EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	440	5.00	"	10	EE41114	05/11/04	05/11/04	EPA 375.4	
MW-2 (4E07002-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	378	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	328	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	1460	5.00	"	"	EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	438	5.00	"	10	EE41114	05/11/04	05/11/04	EPA 375.4	
MW-3 (4E07002-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	254	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	328	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	1530	5.00	"	"	EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	542	5.00	"	10	EE41114	05/11/04	05/11/04	EPA 375.4	
MW-4 (4E07002-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	272	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	549	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	1760	5.00	"	"	EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	470	5.00	"	10	EE41114	05/11/04	05/11/04	EPA 375.4	

Environmental Lab of Texas

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Roland K. Smith

Quality Assurance Review

Page 4 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
05/13/04 15:11

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW (4E07002-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EE40710	05/07/04	05/07/04	EPA 310.2M	
Bicarbonate Alkalinity	291	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	266	5.00	"	"	EE40709	05/07/04	05/07/04	EPA 325.3M	
Total Dissolved Solids	1040	5.00	"	"	EE41102	05/07/04	05/11/04	EPA 160.1	
Sulfate	261	2.50	"	5	EE41114	05/11/04	05/11/04	EPA 375.4	

Environmental Lab of Texas

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Roland K. Smith

Quality Assurance Review

Page 5 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4E07002-01) Water									
Calcium	56.6	0.100	mg/L	10	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	68.6	0.0100	"	"	"	"	"	"	
Potassium	14.8	0.500	"	"	"	"	"	"	
Sodium	397	1.00	"	100	"	"	"	"	
MW-2 (4E07002-02) Water									
Calcium	44.0	0.100	mg/L	10	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	73.3	0.0100	"	"	"	"	"	"	
Potassium	15.2	0.500	"	"	"	"	"	"	
Sodium	354	1.00	"	100	"	"	"	"	
MW-3 (4E07002-03) Water									
Calcium	129	1.00	mg/L	100	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	50.8	0.0100	"	10	"	"	"	"	
Potassium	8.74	0.500	"	"	"	"	"	"	
Sodium	287	1.00	"	100	"	"	"	"	
MW-4 (4E07002-04) Water									
Calcium	126	1.00	mg/L	100	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	64.8	0.0100	"	10	"	"	"	"	
Potassium	11.1	0.500	"	"	"	"	"	"	
Sodium	380	1.00	"	100	"	"	"	"	
WW (4E07002-05) Water									
Calcium	50.5	0.100	mg/L	10	EE41104	05/10/04	05/11/04	EPA 6010B	
Magnesium	48.9	0.0100	"	"	"	"	"	"	
Potassium	12.1	0.500	"	"	"	"	"	"	
Sodium	298	1.00	"	100	"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

Page 6 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE41103 - EPA 5030C (GC)

Blank (EE41103-BLK1)

Prepared & Analyzed: 05/07/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	23.2		ug/l	20.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	19.7		"	20.0		98.5	80-120			

LCS (EE41103-BS1)

Prepared & Analyzed: 05/07/04

Benzene	91.9		ug/l	100		91.9	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	102		"	100		102	80-120			
Xylene (p/m)	210		"	200		105	80-120			
Xylene (o)	106		"	100		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.6		"	20.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	23.5		"	20.0		118	80-120			

Calibration Check (EE41103-CCV1)

Prepared & Analyzed: 05/07/04

Benzene	85.5		ug/l	100		85.5	80-120			
Toluene	95.5		"	100		95.5	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	194		"	200		97.0	80-120			
Xylene (o)	96.5		"	100		96.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.3		"	20.0		86.5	80-120			
Surrogate: 4-Bromofluorobenzene	23.7		"	20.0		118	80-120			

Duplicate (EE41103-DUP1)

Source: 4E07001-01

Prepared & Analyzed: 05/07/04

Benzene	ND	0.00100	mg/L		ND				20	
Toluene	ND	0.00100	"		ND				20	
Ethylbenzene	ND	0.00100	"		ND				20	
Xylene (p/m)	ND	0.00100	"		ND				20	
Xylene (o)	ND	0.00100	"		ND				20	
Surrogate: a,a,a-Trifluorotoluene	23.5		ug/l	20.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	21.4		"	20.0		107	80-120			

Environmental Lab of Texas

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Quality Assurance Review

Page 7 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
05/13/04 15:11

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EE41103 - EPA 5030C (GC)

Matrix Spike (EE41103-MS1)

Source: 4E07001-02

Prepared & Analyzed: 05/07/04

Benzene	86.2		ug/l	100	ND	86.2	80-120			
Toluene	96.9		"	100	ND	96.9	80-120			
Ethylbenzene	92.9		"	100	ND	92.9	80-120			
Xylene (p/m)	196		"	200	ND	98.0	80-120			
Xylene (o)	96.7		"	100	ND	96.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.8		"	20.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	23.3		"	20.0		116	80-120			

Environmental Lab of Texas

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Quality Assurance Review

Page 8 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE40709 - General Preparation (WetChem)										
Blank (EE40709-BLK1)				Prepared & Analyzed: 05/07/04						
Chloride	ND	5.00	mg/L							
Matrix Spike (EE40709-MS1)				Source: 4E06007-02 Prepared & Analyzed: 05/07/04						
Chloride	514	5.00	mg/L	250	270	97.6	80-120			
Matrix Spike Dup (EE40709-MSD1)				Source: 4E06007-02 Prepared & Analyzed: 05/07/04						
Chloride	514	5.00	mg/L	250	270	97.6	80-120	0.00	20	
Reference (EE40709-SRM1)				Prepared & Analyzed: 05/07/04						
Chloride	4780		mg/L	5000		95.6	80-120			
Batch EE40710 - General Preparation (WetChem)										
Blank (EE40710-BLK1)				Prepared & Analyzed: 05/07/04						
Carbonate Alkalinity	ND	0.100	mg/L							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							
Calibration Check (EE40710-CCV1)				Prepared & Analyzed: 05/07/04						
Carbonate Alkalinity	0.0454		mg/L	0.0500		90.8	80-120			
Duplicate (EE40710-DUP1)				Source: 4E06007-02 Prepared & Analyzed: 05/07/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	174	2.00	"		173			0.576	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Environmental Lab of Texas

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Quality Assurance Review

Page 9 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
05/13/04 15:11

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

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

Batch EE41102 - General Preparation (WetChem)

Blank (EE41102-BLK1)

Prepared: 05/07/04 Analyzed: 05/11/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EE41102-DUP1)

Source: 4E07001-01

Prepared: 05/07/04 Analyzed: 05/11/04

Total Dissolved Solids 1450 5.00 mg/L 1440 0.692 20

Batch EE41114 - General Preparation (WetChem)

Blank (EE41114-BLK1)

Prepared & Analyzed: 05/11/04

Sulfate ND 0.500 mg/L

Calibration Check (EE41114-CCV1)

Prepared & Analyzed: 05/11/04

Sulfate 50.9 mg/L 50.0 102 80-120

Duplicate (EE41114-DUP1)

Source: 4E06007-02

Prepared & Analyzed: 05/11/04

Sulfate 270 2.50 mg/L 274 1.47 20

Environmental Lab of Texas

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Roland K. Smith

Quality Assurance Review

Page 10 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
05/13/04 15:11

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

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

Batch EE41104 - General Preparation (Metals)

Blank (EE41104-BLK1)

Prepared: 05/10/04 Analyzed: 05/11/04

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

Calibration Check (EE41104-CCV1)

Prepared: 05/10/04 Analyzed: 05/11/04

Calcium	1.98		mg/L	2.00		99.0	85-115			
Magnesium	2.12		"	2.00		106	85-115			
Potassium	1.83		"	2.00		91.5	85-115			
Sodium	1.72		"	2.00		86.0	85-115			

Duplicate (EE41104-DUP1)

Source: 4E07001-01

Prepared: 05/10/04 Analyzed: 05/11/04

Calcium	24.4	0.100	mg/L		24.5			0.409	20	
Magnesium	4.18	0.00100	"		4.18			0.00	20	
Potassium	18.7	0.500	"		18.4			1.62	20	
Sodium	557	1.00	"		557			0.00	20	

Environmental Lab of Texas

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Roland K. Smith

Quality Assurance Review

Page 11 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
05/13/04 15:11

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

Environmental Lab of Texas

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Quality Assurance Review

Page 12 of 12

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

[illegible]

Special Instructions:
Please email results to both oil@trident-environmental.com and to enviro@leaco.net

Refinanced by:

Doc	Date	Time
	05/06/04	6:00 PM

Received by:

Date _____

Time

Relinquished by:

Received by ELOF:

Date _____

Time

500

James Munney

05-07-04

5030

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

Client: Price Operating

Date/Time: 05-07-04 @ 0900

Order #: 4E07002

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	2.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

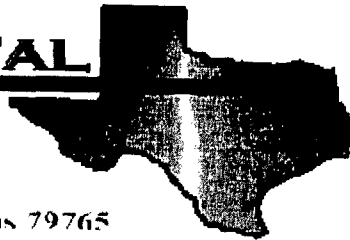
Variance Documentation:

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

Regarding: _____

Corrective Action Taken: _____

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: EME System M-9 SWD Site

Project Number: None Given

Location: T20S, R37E, Sec. 9, Unit Letter M

Lab Order Number: 4H13002

Report Date: 08/19/04

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4H13002-01	Water	08/11/04 13:10	08/12/04 16:45
MW-2	4H13002-02	Water	08/11/04 12:42	08/12/04 16:45
MW-3	4H13002-03	Water	08/11/04 12:25	08/12/04 16:45
MW-4	4H13002-04	Water	08/11/04 13:47	08/12/04 16:45
WW	4H13002-05	Water	08/11/04 11:45	08/12/04 16:45

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
08/19/04 14:49

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4H13002-01) Water									
Benzene	0.00266	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	I [0.000475]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000626]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	I [0.000265]	0.00100	"	"	"	"	"	"	J
Xylene (o)	I [0.000317]	0.00100	"	"	"	"	"	"	J
Surrogate: a,a,a-Trifluorotoluene		93.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.5 %	80-120		"	"	"	"	
MW-2 (4H13002-02) Water									
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-120		"	"	"	"	
MW-3 (4H13002-03) Water									
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.0 %	80-120		"	"	"	"	
MW-4 (4H13002-04) Water									
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.0 %	80-120		"	"	"	"	

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Page 2 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW (4H13002-05) Water									
Benzene	ND	0.00100	mg/L	1	EH41804	08/17/04	08/17/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-120		"	"	"	"	

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Page 3 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4H13002-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	
Bicarbonate Alkalinity	377	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	390	5.00	"	"	EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	1690	5.00	"	"	EH41801	08/17/04	08/18/04	EPA 160.1	
Sulfate	519	0.500	"	"	EH41701	08/16/04	08/16/04	EPA 375.4	
MW-2 (4H13002-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	
Bicarbonate Alkalinity	384	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	461	5.00	"	"	EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	1770	5.00	"	"	EH41801	08/17/04	08/18/04	EPA 160.1	
Sulfate	372	0.500	"	"	EH41701	08/16/04	08/16/04	EPA 375.4	
MW-3 (4H13002-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	
Bicarbonate Alkalinity	260	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	337	5.00	"	"	EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	1560	5.00	"	"	EH41801	08/17/04	08/18/04	EPA 160.1	
Sulfate	557	0.500	"	"	EH41701	08/16/04	08/16/04	EPA 375.4	
MW-4 (4H13002-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	
Bicarbonate Alkalinity	290	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	567	5.00	"	"	EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	1770	5.00	"	"	EH41801	08/17/04	08/18/04	EPA 160.1	
Sulfate	433	0.500	"	"	EH41701	08/16/04	08/16/04	EPA 375.4	

Environmental Lab of Texas

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Page 4 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WW (4H13002-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EH41610	08/13/04	08/13/04	EPA 310.2M	
Bicarbonate Alkalinity	298	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	266	5.00	"	"	EH41702	08/16/04	08/16/04	EPA 325.3M	
Total Dissolved Solids	1810	5.00	"	"	EH41801	08/17/04	08/18/04	EPA 160.1	
Sulfate	313	0.500	"	"	EH41701	08/16/04	08/16/04	EPA 375.4	

Environmental Lab of Texas

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Page 5 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4H13002-01) Water									
Calcium	54.8	0.100	mg/L	10	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	69.8	0.0100	"	"	"	"	"	"	
Potassium	16.1	0.500	"	"	"	"	"	"	
Sodium	448	1.00	"	100	"	"	"	"	
MW-2 (4H13002-02) Water									
Calcium	61.7	0.100	mg/L	10	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	76.6	0.0100	"	"	"	"	"	"	
Potassium	19.2	0.500	"	"	"	"	"	"	
Sodium	546	1.00	"	100	"	"	"	"	
MW-3 (4H13002-03) Water									
Calcium	115	1.00	mg/L	100	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	63.8	0.0100	"	10	"	"	"	"	
Potassium	9.06	0.500	"	"	"	"	"	"	
Sodium	375	1.00	"	100	"	"	"	"	
MW-4 (4H13002-04) Water									
Calcium	93.4	0.100	mg/L	10	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	78.1	0.0100	"	"	"	"	"	"	
Potassium	13.1	0.500	"	"	"	"	"	"	
Sodium	483	1.00	"	100	"	"	"	"	
WW (4H13002-05) Water									
Calcium	57.2	0.100	mg/L	10	EH41719	08/17/04	08/17/04	EPA 6010B	
Magnesium	54.9	0.0100	"	"	"	"	"	"	
Potassium	9.84	0.500	"	"	"	"	"	"	
Sodium	292	1.00	"	100	"	"	"	"	

Environmental Lab of Texas

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Page 6 of 12

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH41804 - EPA 5030C (GC)

Blank (EH41804-BLK1)

Prepared & Analyzed: 08/14/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	22.7		ug/l	20.0		114	80-120			
Surrogate: 4-Bromofluorobenzene	20.2		"	20.0		101	80-120			

LCS (EH41804-BS1)

Prepared & Analyzed: 08/14/04

Benzene	89.5		ug/l	100		89.5	80-120			
Toluene	102		"	100		102	80-120			
Ethylbenzene	98.1		"	100		98.1	80-120			
Xylene (p/m)	205		"	200		102	80-120			
Xylene (o)	101		"	100		101	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	22.5		"	20.0		112	80-120			
Surrogate: 4-Bromofluorobenzene	22.5		"	20.0		112	80-120			

Calibration Check (EH41804-CCV1)

Prepared & Analyzed: 08/14/04

Benzene	83.5		ug/l	100		83.5	80-120			
Toluene	91.4		"	100		91.4	80-120			
Ethylbenzene	90.5		"	100		90.5	80-120			
Xylene (p/m)	195		"	200		97.5	80-120			
Xylene (o)	91.8		"	100		91.8	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	18.5		"	20.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.6		"	20.0		103	80-120			

Matrix Spike (EH41804-MS1)

Source: 4H13013-02

Prepared & Analyzed: 08/14/04

Benzene	82.2		ug/l	100	ND	82.2	80-120			
Toluene	93.1		"	100	ND	93.1	80-120			
Ethylbenzene	89.4		"	100	ND	89.4	80-120			
Xylene (p/m)	188		"	200	ND	94.0	80-120			
Xylene (o)	94.5		"	100	ND	94.5	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	18.5		"	20.0		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	19.9		"	20.0		99.5	80-120			

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH41804 - EPA 5030C (GC)

Matrix Spike Dup (EH41804-MSD1)

Source: 4H13013-02

Prepared & Analyzed: 08/14/04

Benzene	81.3		ug/l	100	ND	81.3	80-120	1.10	20	
Toluene	95.0		"	100	ND	95.0	80-120	2.02	20	
Ethylbenzene	90.3		"	100	ND	90.3	80-120	1.00	20	
Xylene (p/m)	189		"	200	ND	94.5	80-120	0.531	20	
Xylene (o)	89.4		"	100	ND	89.4	80-120	5.55	20	
Surrogate: a,a,a-Trifluorotoluene	19.9		"	20.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.0		"	20.0		100	80-120			

Environmental Lab of Texas

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH41610 - General Preparation (WetChem)

Blank (EH41610-BLK1)

Prepared & Analyzed: 08/13/04

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

Duplicate (EH41610-DUP1)

Source: 4H12015-01

Prepared & Analyzed: 08/13/04

Carbonate Alkalinity	0.00	0.100	mg/L	0.00				20
Bicarbonate Alkalinity	232	2.00	"	232			0.00	20
Hydroxide Alkalinity	0.00	0.100	"	0.00				20

Reference (EH41610-SRM1)

Prepared & Analyzed: 08/13/04

Carbonate Alkalinity	0.0530		mg/L	0.0500		106	80-120
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Batch EH41701 - General Preparation (WetChem)

Blank (EH41701-BLK1)

Prepared & Analyzed: 08/16/04

Sulfate	ND	0.500	mg/L
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Calibration Check (EH41701-CCV1)

Prepared & Analyzed: 08/16/04

Sulfate	51.0		mg/L	50.0		102	80-120
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Duplicate (EH41701-DUP1)

Source: 4H12014-01

Prepared & Analyzed: 08/16/04

Sulfate	358	0.500	mg/L	322		10.6	20
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Batch EH41702 - General Preparation (WetChem)

Blank (EH41702-BLK1)

Prepared & Analyzed: 08/16/04

Chloride	ND	5.00	mg/L
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EH41702 - General Preparation (WetChem)

Matrix Spike (EH41702-MS1)

Source: 4H12012-21

Prepared & Analyzed: 08/16/04

Chloride	160	5.00	mg/L	100	65.6	94.4	80-120			
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Matrix Spike Dup (EH41702-MSD1)

Source: 4H12012-21

Prepared & Analyzed: 08/16/04

Chloride	160	5.00	mg/L	100	65.6	94.4	80-120	0.00	20	
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Reference (EH41702-SRM1)

Prepared & Analyzed: 08/16/04

Chloride	4960		mg/L	5000		99.2	80-120			
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Batch EH41801 - Filtration Preparation

Blank (EH41801-BLK1)

Prepared: 08/17/04 Analyzed: 08/18/04

Total Dissolved Solids	ND	5.00	mg/L							
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Duplicate (EH41801-DUP1)

Source: 4H17009-01

Prepared: 08/17/04 Analyzed: 08/18/04

Total Dissolved Solids	3900	5.00	mg/L		3910			0.256	20	
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Environmental Lab of Texas

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

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

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

Batch EH41719 - 6010B/No Digestion

Blank (EH41719-BLK1)

Prepared & Analyzed: 08/17/04

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

Calibration Check (EH41719-CCV1)

Prepared & Analyzed: 08/17/04

Calcium	2.02		mg/L	2.00		101	85-115			
Magnesium	2.12		"	2.00		106	85-115			
Potassium	1.79		"	2.00		89.5	85-115			
Sodium	1.89		"	2.00		94.5	85-115			

Duplicate (EH41719-DUP1)

Source: 4H13013-04

Prepared & Analyzed: 08/17/04

Calcium	36.1	0.100	mg/L		35.2			2.52	20	
Magnesium	11.3	0.0100	"		10.9			3.60	20	
Potassium	34.3	0.500	"		33.2			3.26	20	
Sodium	405	1.00	"		415			2.44	20	

Environmental Lab of Texas

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

Project: EME System M-9 SWD Site
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
08/19/04 14:49

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

8/19/04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

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Environmental Lab of Texas

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Page 12 of 12

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Sampler Signature:

PO #:

Signature: _____

Sampler Signature:[illegible]

Special Instructions: Please email results to both gil@trident-environmental.com and to enviro@leaco.net

Jane Murray

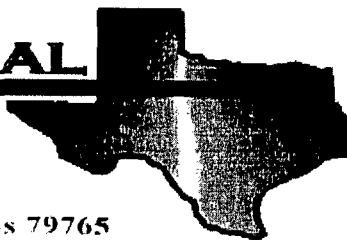
1645

Sample Containers Intact?	
Temperature Upon Receipt:	
Laboratory Comments:	

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-1.0.2

ENVIRONMENTAL LAB OF



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME System M-9 SWD Site

Project Number: V117M9

Location: T20S, R37E, Sec 9, Unit Letter M

Lab Order Number: 4K11007

Report Date: 11/22/04

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

Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
11/22/04 17:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4K11007-01	Water	11/10/04 15:00	11/11/04 11:00
MW-2	4K11007-02	Water	11/10/04 13:57	11/11/04 11:00
MW-3	4K11007-03	Water	11/10/04 13:32	11/11/04 11:00
MW-4	4K11007-04	Water	11/10/04 14:28	11/11/04 11:00
Water Well	4K11007-05	Water	11/10/04 12:45	11/11/04 11:00

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

Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
11/22/04 17:11

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K11007-01) Water									
Benzene	0.00292	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	I [0.000326]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	I [0.000971]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	0.00170	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00191	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		150 %	80-120		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		106 %	80-120		"	"	"	"	
MW-2 (4K11007-02) Water									
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		"	"	"	"	
MW-3 (4K11007-03) Water									
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	80-120		"	"	"	"	
MW-4 (4K11007-04) Water									
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	

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Rice Operating Co.
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Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
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Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water Well (4K11007-05) Water									
Benzene	ND	0.00100	mg/L	1	EK41502	11/12/04	11/12/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		117 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		108 %	80-120		"	"	"	"	

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Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
11/22/04 17:11

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K11007-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	392	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	390	5.00	"	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	1740	5.00	"	"	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	598	6.25	"	12.5	EK41904	11/11/04	11/11/04	EPA 375.4	
MW-2 (4K11007-02) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	370	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	346	5.00	"	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	1610	5.00	"	"	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	590	6.25	"	12.5	EK41904	11/11/04	11/11/04	EPA 375.4	
MW-3 (4K11007-03) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	252	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	337	5.00	"	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	1600	5.00	"	"	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	664	6.25	"	12.5	EK41904	11/11/04	11/11/04	EPA 375.4	
MW-4 (4K11007-04) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	278	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	514	5.00	"	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	1790	5.00	"	"	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	580	6.25	"	12.5	EK41904	11/11/04	11/11/04	EPA 375.4	

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Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water Well (4K11007-05) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EK41814	11/11/04	11/11/04	EPA 310.2M	
Bicarbonate Alkalinity	270	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	284	5.00	"	"	EK41809	11/17/04	11/17/04	EPA 325.3M	
Total Dissolved Solids	959	5.00	"	"	EK41206	11/11/04	11/11/04	EPA 160.1	
Sulfate	418	6.25	"	12.5	EK41904	11/11/04	11/11/04	EPA 375.4	

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Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

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Reported:
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Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K11007-01) Water									
Calcium	80.1	0.100	mg/L	10	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	67.8	0.0100	"	"	"	"	"	"	
Potassium	10.2	0.500	"	"	"	"	"	"	
Sodium	278	1.00	"	100	"	"	"	"	
MW-2 (4K11007-02) Water									
Calcium	88.7	0.100	mg/L	10	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	59.0	0.100	"	100	"	"	"	"	
Potassium	11.0	0.500	"	10	"	"	"	"	
Sodium	244	1.00	"	100	"	"	"	"	
MW-3 (4K11007-03) Water									
Calcium	92.6	0.100	mg/L	10	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	53.6	0.100	"	100	"	"	"	"	
Potassium	6.91	0.500	"	10	"	"	"	"	
Sodium	238	1.00	"	100	"	"	"	"	
MW-4 (4K11007-04) Water									
Calcium	87.9	0.100	mg/L	10	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	65.9	0.100	"	100	"	"	"	"	
Potassium	10.6	0.500	"	10	"	"	"	"	
Sodium	305	1.00	"	100	"	"	"	"	
Water Well (4K11007-05) Water									
Calcium	53.9	0.100	mg/L	10	EK42201	11/15/04	11/19/04	EPA 6010B	
Magnesium	37.1	0.0100	"	"	"	"	"	"	
Potassium	6.18	0.500	"	"	"	"	"	"	
Sodium	214	1.00	"	100	"	"	"	"	

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Project: EME System M-9 SWD Site
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Reported:
11/22/04 17:11

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK41502 - EPA 5030C (GC)

Blank (EK41502-BLK1)

Prepared & Analyzed: 11/12/04

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	17.8		ug/l	20.0		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	19.9		"	20.0		99.5	80-120			

LCS (EK41502-BS1)

Prepared & Analyzed: 11/12/04

Benzene	106		ug/l	100		106	80-120			
Toluene	107		"	100		107	80-120			
Ethylbenzene	113		"	100		113	80-120			
Xylene (p/m)	237		"	200		118	80-120			
Xylene (o)	107		"	100		107	80-120			
Surrogate: a,a,a-Trifluorotoluene	20.3		"	20.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	23.4		"	20.0		117	80-120			

LCS Dup (EK41502-BSD1)

Prepared & Analyzed: 11/12/04

Benzene	105		ug/l	100		105	80-120	0.948	20	
Toluene	106		"	100		106	80-120	0.939	20	
Ethylbenzene	113		"	100		113	80-120	0.00	20	
Xylene (p/m)	223		"	200		112	80-120	5.22	20	
Xylene (o)	106		"	100		106	80-120	0.939	20	
Surrogate: a,a,a-Trifluorotoluene	19.3		"	20.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	22.2		"	20.0		111	80-120			

Calibration Check (EK41502-CCV1)

Prepared & Analyzed: 11/12/04

Benzene	102		ug/l	100		102	80-120			
Toluene	101		"	100		101	80-120			
Ethylbenzene	109		"	100		109	80-120			
Xylene (p/m)	213		"	200		106	80-120			
Xylene (o)	112		"	100		112	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.8		"	20.0		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	21.7		"	20.0		108	80-120			

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Rice Operating Co.
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Hobbs NM, 88240

Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
11/22/04 17:11

Organics by GC - Quality Control
Environmental Lab of Texas

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

Batch EK41502 - EPA 5030C (GC)

Matrix Spike (EK41502-MS1)

Source: 4K11005-01

Prepared & Analyzed: 11/12/04

Benzene	116		ug/l	100	ND	116	80-120			
Toluene	115		"	100	ND	115	80-120			
Ethylbenzene	107		"	100	ND	107	80-120			
Xylene (p/m)	227		"	200	ND	114	80-120			
Xylene (o)	115		"	100	ND	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.2		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	21.9		"	20.0		110	80-120			

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Rice Operating Co.
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Project: EME System M-9 SWD Site
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Reported:
11/22/04 17:11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK41206 - Filtration Preparation

Blank (EK41206-BLK1)

Prepared & Analyzed: 11/11/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EK41206-DUP1)

Source: 4K11004-01

Prepared & Analyzed: 11/11/04

Total Dissolved Solids 2000 5.00 mg/L 1910 4.60 20

Batch EK41809 - General Preparation (WetChem)

Blank (EK41809-BLK1)

Prepared & Analyzed: 11/17/04

Chloride ND 5.00 mg/L

Matrix Spike (EK41809-MS1)

Source: 4K11004-01

Prepared & Analyzed: 11/17/04

Chloride 1220 5.00 mg/L 500 727 98.6 80-120

Matrix Spike Dup (EK41809-MSD1)

Source: 4K11004-01

Prepared & Analyzed: 11/17/04

Chloride 1230 5.00 mg/L 500 727 101 80-120 0.816 20

Reference (EK41809-SRM1)

Prepared & Analyzed: 11/17/04

Chloride 4960 mg/L 5000 99.2 80-120

Batch EK41814 - General Preparation (WetChem)

Blank (EK41814-BLK1)

Prepared & Analyzed: 11/11/04

Carbonate Alkalinity ND 0.100 mg/L

Bicarbonate Alkalinity ND 2.00 "

Hydroxide Alkalinity ND 0.100 "

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11/22/04 17:11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EK41814 - General Preparation (WetChem)

Duplicate (EK41814-DUP1)		Source: 4K11004-01		Prepared & Analyzed: 11/11/04						
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	161	2.00	"		160			0.623	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EK41814-SRM1)		Prepared & Analyzed: 11/11/04								
Carbonate Alkalinity	0.0500		mg/L	0.0500		100	80-120			

Batch EK41904 - General Preparation (WetChem)

Blank (EK41904-BLK1)		Prepared & Analyzed: 11/11/04								
Sulfate	ND	0.500	mg/L							

Calibration Check (EK41904-CCV1)		Prepared & Analyzed: 11/11/04								
Sulfate	49.3		mg/L	50.0		98.6	80-120			

Duplicate (EK41904-DUP1)		Source: 4K11004-01		Prepared & Analyzed: 11/11/04						
Sulfate	241	2.50	mg/L		238			1.25	20	

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Rice Operating Co.
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Project: EME System M-9 SWD Site
Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471
Reported:
11/22/04 17:11

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

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

Batch EK42201 - 6010B/No Digestion

Blank (EK42201-BLK1)

Prepared: 11/15/04 Analyzed: 11/19/04

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

Blank (EK42201-BLK2)

Prepared: 11/15/04 Analyzed: 11/19/04

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

Calibration Check (EK42201-CCV1)

Prepared: 11/15/04 Analyzed: 11/19/04

Calcium	2.15		mg/L	2.00		108	85-115			
Magnesium	2.10		"	2.00		105	85-115			
Potassium	2.08		"	2.00		104	85-115			
Sodium	1.88		"	2.00		94.0	85-115			

Calibration Check (EK42201-CCV2)

Prepared: 11/15/04 Analyzed: 11/22/04

Calcium	1.83		mg/L	2.00		91.5	85-115			
Magnesium	1.96		"	2.00		98.0	85-115			
Potassium	1.78		"	2.00		89.0	85-115			
Sodium	1.72		"	2.00		86.0	85-115			

Duplicate (EK42201-DUP1)

Source: 4K11013-01RE1

Prepared: 11/15/04 Analyzed: 11/19/04

Calcium	34.6	0.100	mg/L		ND				20	
Magnesium	25.6	0.0100	"		ND				20	
Potassium	4.08	0.500	"		ND				20	
Sodium	77.4	1.00	"		ND				20	

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Reported:
11/22/04 17:11

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

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

Batch EK42201 - 6010B/No Digestion

Duplicate (EK42201-DUP2)	Source: 4K11004-01			Prepared: 11/15/04 Analyzed: 11/19/04						
Calcium	180	1.00	mg/L		179			0.557	20	
Magnesium	48.9	0.0100	"		47.2			3.54	20	
Potassium	11.7	0.500	"		9.88			16.9	20	
Sodium	283	1.00	"		268			5.44	20	

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Project Number: V117M9
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
11/22/04 17:11

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: _____

Raland K. Tuttle

Date: 11/22/2004

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

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

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

Environmental Lab of Texas

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

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris

Project #: V17M9

Project Location: T20S, R37E, Sec 9, Unit Letter M

COC #: V117-1104-3

Fax No: 505-397-1471

6/10/11

2011/11/11

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Price Operating Co.

Date/Time: 11-11-04 @ 1200

Order #: 4K11007

Initials: Jmm

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	-2.5	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not present</u>	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<u>Not present</u>	
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:
