AP - 65

ANNUAL MONITORING REPORT

YEAR(S):

2006

CERTIFIED MAIL
RETURN RECIEPT NO. 7099 3400 0017 1737 2268

TRIDENT ENVIRONMENTAL

RECEIVED
FEB - 9 2007
Environmental Bureau
Oil Conservation Division

February 6, 2007

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

RE: **2006 ANNUAL GROUNDWATER MONITORING REPORT**
EME M-9 SWD SITE
T20S, R37E, SECTION 9, UNIT LETTER M
STAGE 1 ABATEMENT PLAN NO.: AP-65

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2006 Annual Monitoring Well Report for the EME M-9 SWD Site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

The Redwood Tank Closure Report for the EME M-9 SWD Facility was submitted to the NMOCD on November 4, 2002. So far work has included replacement of the redwood tanks and five associated junction boxes, backfilling of the excavated area with remediated soil and a clay liner, extensive site assessment sampling, installation of five groundwater monitoring wells, and quarterly sampling of five monitoring wells and one abandoned water well. Groundwater monitoring activities have been conducted quarterly since April 8, 2002. The Stage 1 Abatement Plan (AP-65) for this site was verbally approved by the NMOCD on March 30, 2006. One cross-gradient (MW-5) monitoring well was installed at the site on April 12, 2006. Analysis for BTEX concentrations has been suspended as approved by Wayne Price on May 19, 2006 (approval communication attached) since each component of BTEX has been below the laboratory method detection limit of 0.001 mg/L at this site since it began in 2002. A Stage 1 Final Investigation Report will be forthcoming to incorporate the findings described above.

ROC is the service provider (agent) 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 (432) 638-8740 or Kristin Farris Pope at (505) 393-9174.

Sincerely,

Gilbert J. Van Deventer, PG, REM

cc: CDH, KFP, file

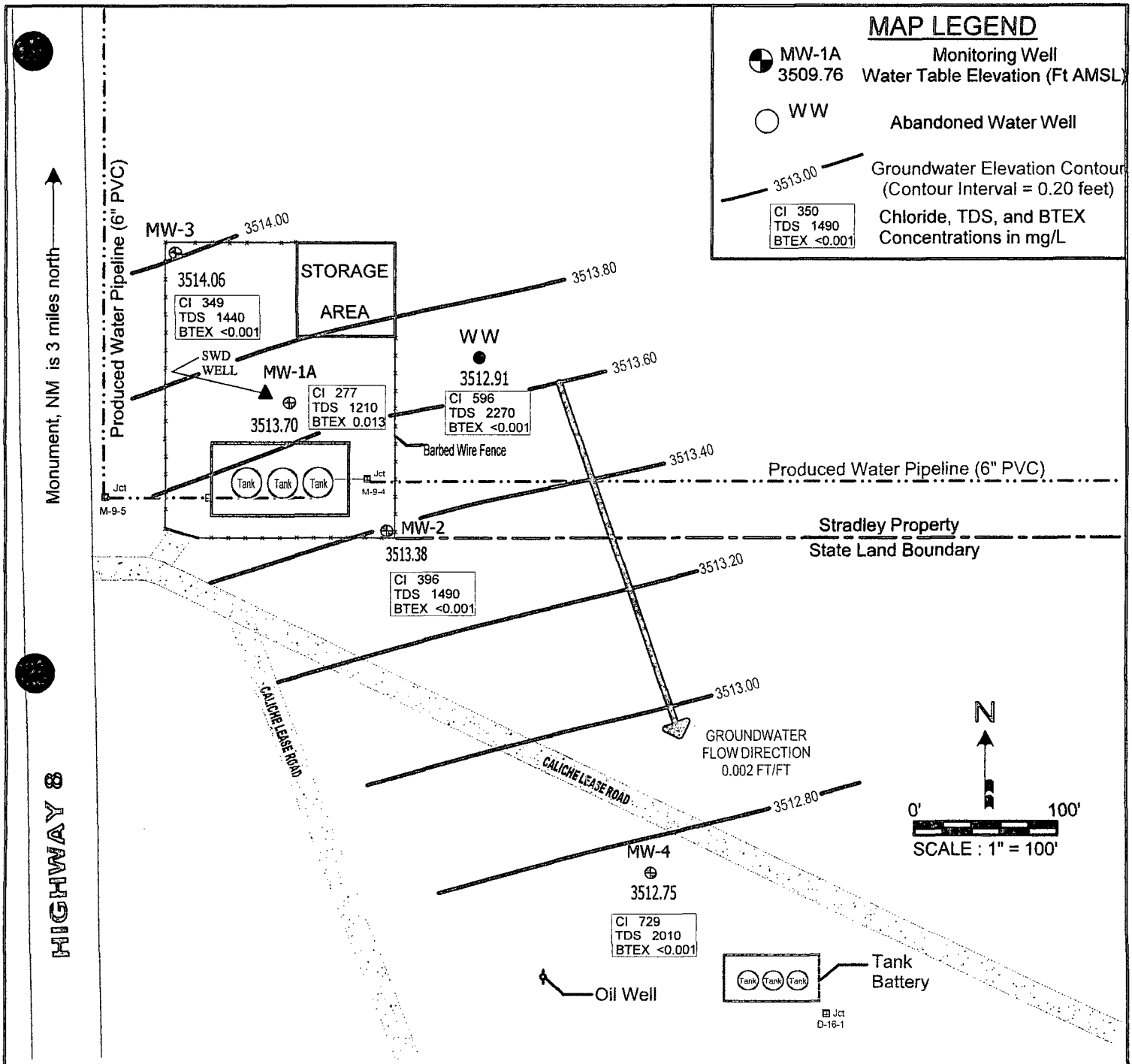
enclosures: maps, table, graphs, laboratory analytical reports, and correspondence

ATTACHMENT A

Site Maps

Table

Graphs



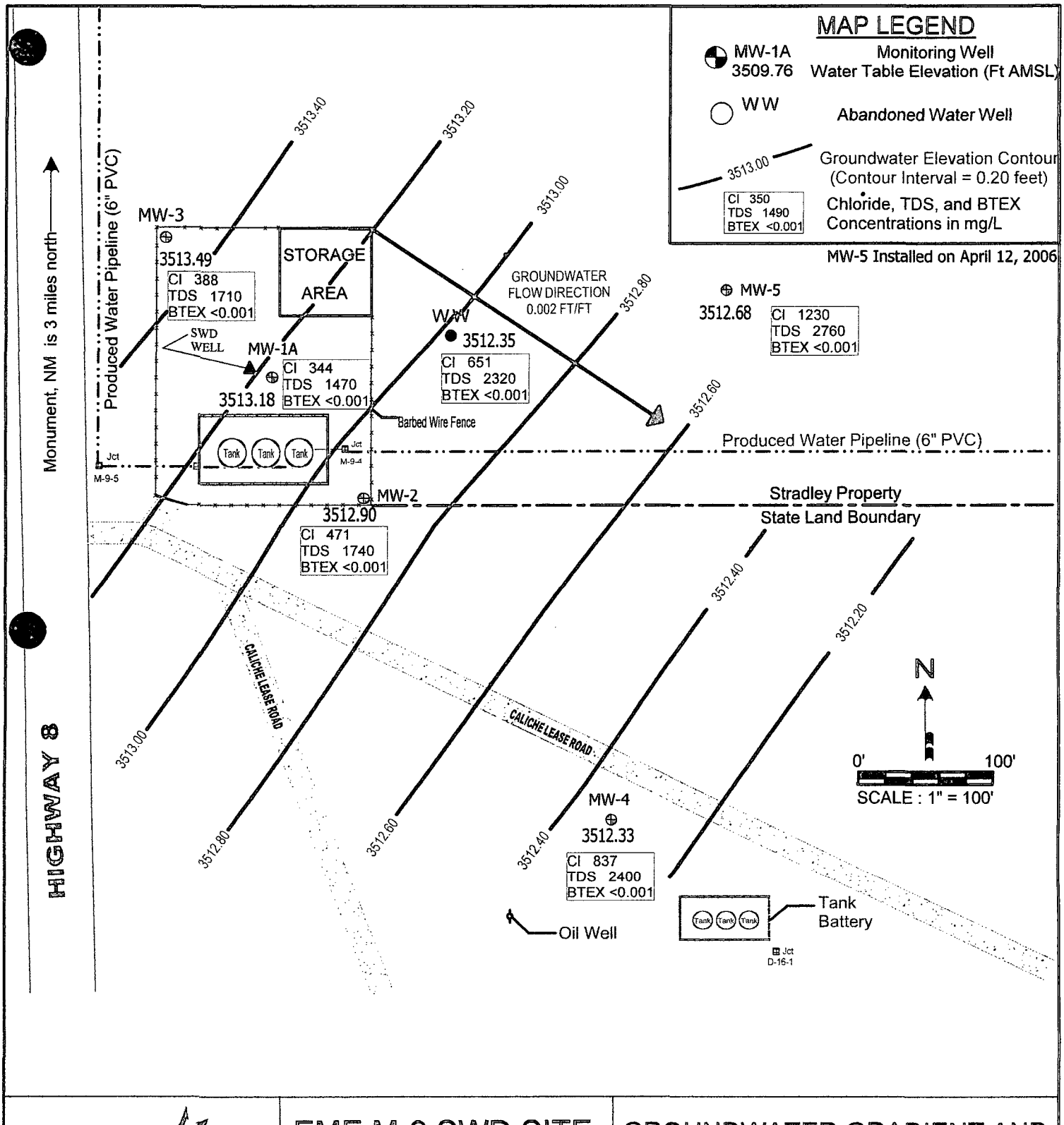
TRIDENT ENVIRONMENTAL

EME M-9 SWD SITE

T20S-R37E-Section 9 - Unit M

RICE Operating Company

GROUNDWATER GRADIENT AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP FEBRUARY 14, 2006



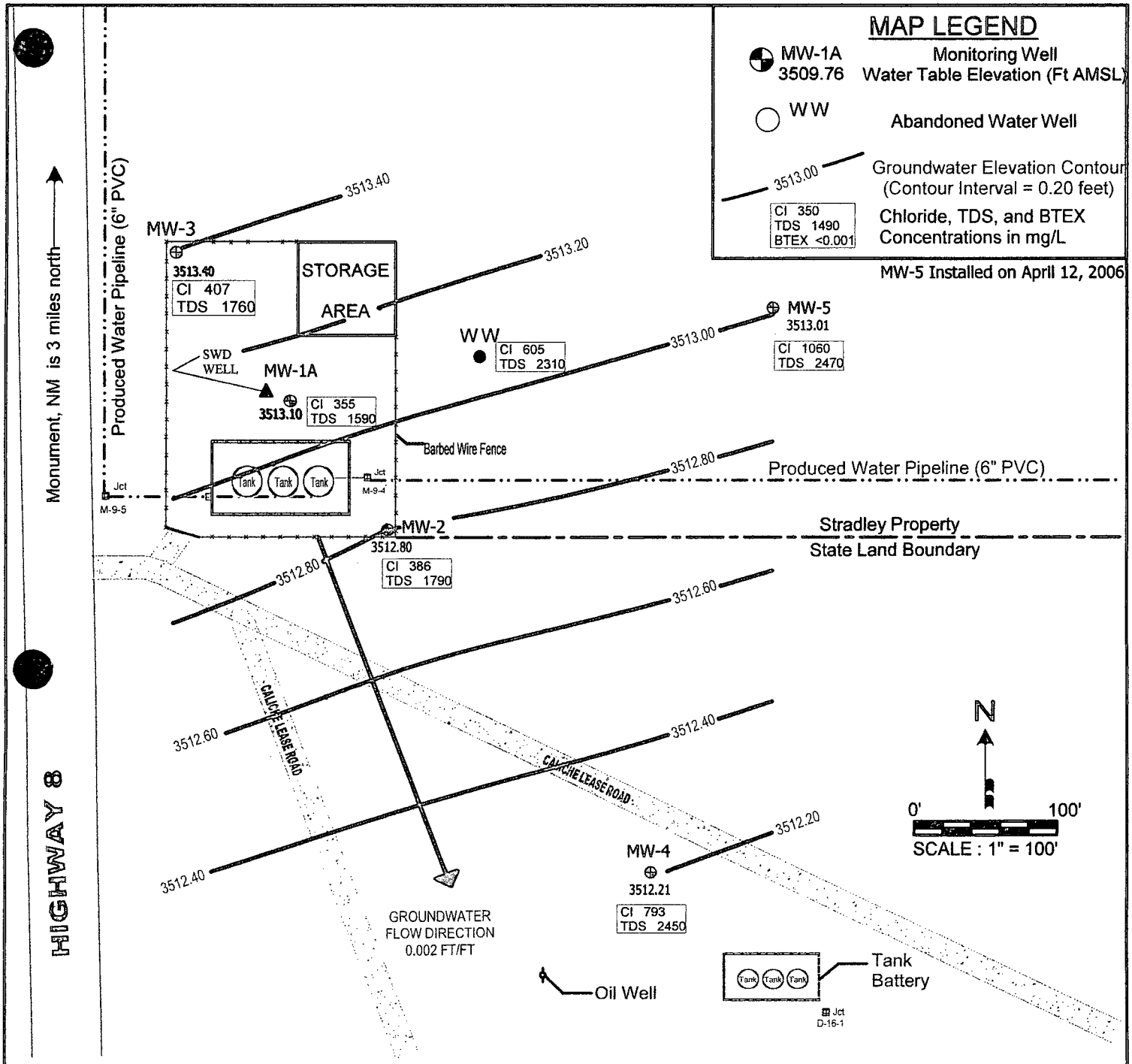
TRIDENT ENVIRONMENTAL

EME M-9 SWD SITE

T20S-R37E-Section 9 - Unit M

RICE Operating Company

GROUNDWATER GRADIENT AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP MAY 15, 2006



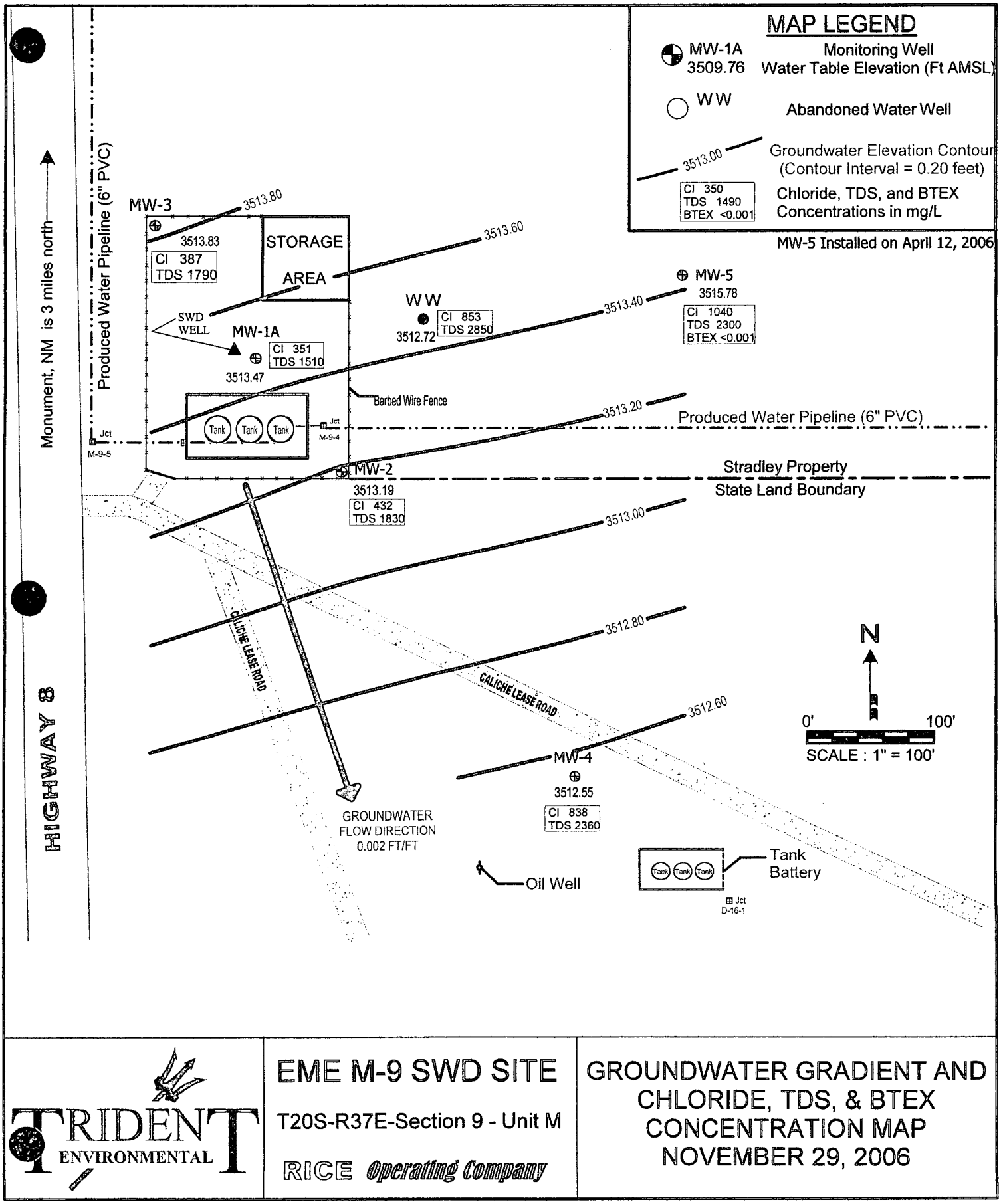
TRIDENT ENVIRONMENTAL

EME M-9 SWD SITE

T20S-R37E-Section 9 - Unit M

RICE Operating Company

GROUNDWATER GRADIENT AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP AUGUST 30, 2006



TRIDENT ENVIRONMENTAL

EME M-9 SWD SITE

T20S-R37E-Section 9 - Unit M

RICE Operating Company

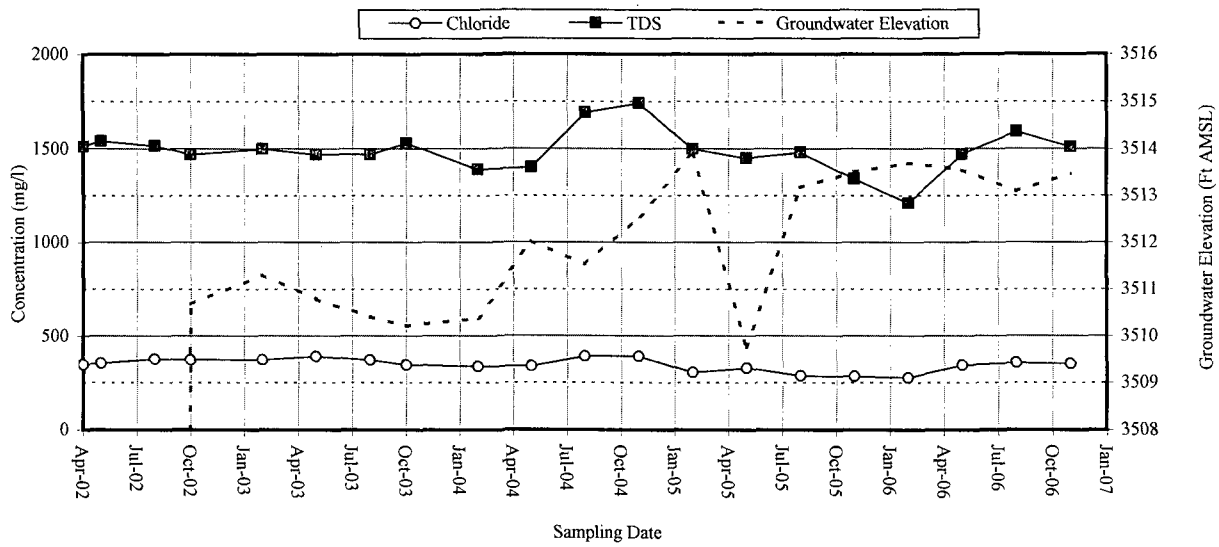
GROUNDWATER GRADIENT AND CHLORIDE, TDS, & BTEX CONCENTRATION MAP NOVEMBER 29, 2006

Table 1
Summary of Groundwater Sampling Results

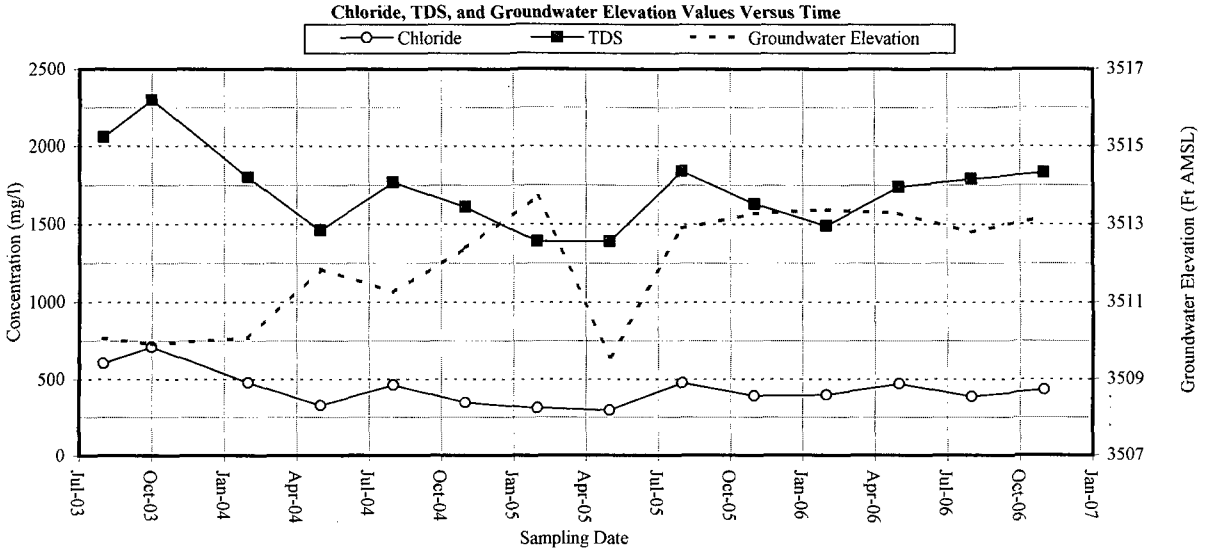
Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	04/08/02	---	---	**348**	**1512**	< 0.002	< 0.002	< 0.002	< 0.006
	05/13/02	21.02	---	**354**	**1540**	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/02	22.45	---	**376**	**1517**	< 0.002	< 0.002	< 0.002	< 0.006
MW-1A	10/28/02	19.10	3510.69	**372**	**1470**	< 0.001	< 0.001	< 0.001	< 0.001
	02/28/03	18.48	3511.31	**372**	**1500**	0.002	0.002	0.002	0.003
	05/16/03	19.00	3510.79	**390**	**1470**	0.001	< 0.001	< 0.001	0.001
	08/22/03	19.38	3510.41	**372**	**1470**	0.002	< 0.001	< 0.001	< 0.001
	10/30/03	19.57	3510.22	**346**	**1530**	< 0.001	< 0.001	< 0.001	< 0.001
	02/20/04	19.41	3510.38	**337**	**1390**	0.001	< 0.001	< 0.001	< 0.001
	05/05/04	17.76	3512.03	**337**	**1400**	0.001	< 0.001	< 0.001	< 0.001
	08/11/04	18.27	3511.52	**390**	**1690**	0.003	< 0.001	< 0.001	< 0.001
	11/10/04	17.23	3512.56	**390**	**1740**	0.003	< 0.001	< 0.001	< 0.001
	02/08/05	15.90	3513.89	**304**	**1500**	0.003	< 0.001	< 0.001	0.001
	05/02/05	20.03	3509.76	**329**	**1450**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/05	16.61	3513.18	**286**	**1480**	< 0.001	< 0.001	< 0.001	< 0.001
	11/29/05	16.28	3513.51	**283**	**1340**	< 0.001	< 0.001	< 0.001	< 0.001
	02/14/06	16.09	3513.70	**277**	**1210**	0.002	0.002	0.003	0.006
	05/15/06	16.23	3513.56	**344**	**1470**	< 0.001	< 0.001	< 0.001	< 0.001
	08/30/06	16.69	3513.10	**355**	**1590**	---	---	---	---
	11/29/06	16.32	3513.47	**351**	**1510**	---	---	---	---
MW-2	08/22/03	21.45	3510.07	**603**	**2060**	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	21.61	3509.91	**709**	**2300**	< 0.001	< 0.001	< 0.001	< 0.001
	02/20/04	21.44	3510.08	**478**	**1800**	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	19.67	3511.85	**328**	**1460**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/04	20.26	3511.26	**461**	**1770**	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/04	19.13	3512.39	**346**	**1610**	< 0.001	< 0.001	< 0.001	< 0.001
	02/08/05	17.80	3513.72	**311**	**1390**	< 0.001	< 0.001	< 0.001	< 0.001
	05/02/05	21.94	3509.58	**295**	**1390**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/05	18.62	3512.90	**476**	**1840**	< 0.001	< 0.001	< 0.001	< 0.001
	11/29/05	18.24	3513.28	**391**	**1630**	< 0.001	< 0.001	< 0.001	< 0.001
	02/14/06	18.14	3513.38	**396**	**1490**	< 0.001	< 0.001	< 0.001	< 0.001
	05/15/06	18.23	3513.29	**471**	**1740**	< 0.001	< 0.001	< 0.001	< 0.001
	08/30/06	18.72	3512.80	**386**	**1790**	---	---	---	---
	11/29/06	18.33	3513.19	**432**	**1830**	---	---	---	---
MW-3	08/22/03	21.68	3510.76	**319**	**1590**	< 0.001	< 0.001	< 0.001	< 0.001
	10/30/03	21.86	3510.58	**328**	**1740**	< 0.001	< 0.001	< 0.001	< 0.001
	02/20/04	21.70	3510.74	**337**	**1550**	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	20.10	3512.34	**328**	**1530**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/04	20.62	3511.82	**337**	**1560**	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/04	19.61	3512.83	**337**	**1600**	< 0.001	< 0.001	< 0.001	< 0.001
	02/08/05	18.26	3514.18	**312**	**1450**	< 0.001	< 0.001	< 0.001	< 0.001
	05/02/05	22.38	3510.06	**329**	**1510**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/05	18.95	3513.49	**300**	**1480**	< 0.001	< 0.001	< 0.001	< 0.001
	11/29/05	18.43	3514.01	**296**	**1510**	< 0.001	< 0.001	< 0.001	< 0.001
	02/14/06	18.38	3514.06	**349**	**1440**	< 0.001	< 0.001	< 0.001	< 0.001
	05/15/06	18.50	3513.94	**388**	**1710**	< 0.001	< 0.001	< 0.001	< 0.001
	08/30/06	19.04	3513.40	**407**	**1760**	---	---	---	---
	11/29/06	18.61	3513.83	**387**	**1790**	---	---	---	---
MW-4	02/20/04	22.61	3509.47	**585**	**1820**	< 0.001	< 0.001	< 0.001	< 0.001
	05/05/04	20.77	3511.31	**549**	**1760**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/04	21.28	3510.80	**567**	**1770**	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/04	20.21	3511.87	**514**	**1790**	< 0.001	< 0.001	< 0.001	< 0.001
	02/08/05	18.90	3513.18	**520**	**1670**	< 0.001	< 0.001	< 0.001	< 0.001
	05/02/05	22.99	3509.09	**591**	**1790**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/05	19.75	3512.33	**571**	**1830**	< 0.001	< 0.001	< 0.001	< 0.001
	11/29/05	19.40	3512.68	**614**	**1850**	< 0.001	< 0.001	< 0.001	< 0.001
	02/14/06	19.33	3512.75	**729**	**2010**	< 0.001	< 0.001	< 0.001	< 0.001
	05/15/06	19.40	3512.68	**837**	**2400**	< 0.001	< 0.001	< 0.001	< 0.001
	08/30/06	19.87	3512.21	**793**	**2450**	---	---	---	---
	11/29/06	19.53	3512.55	**838**	**2360**	---	---	---	---
MW-5	05/15/06	21.10	3513.55	**1230**	**2760**	< 0.001	< 0.001	< 0.001	< 0.001
	08/30/06	21.64	3513.01	**1060**	**2470**	< 0.001	< 0.001	< 0.001	< 0.001
	11/29/06	21.22	3513.43	**1040**	**2300**	< 0.001	< 0.001	< 0.001	< 0.001
WW	08/22/03	21.09	3509.37	---	---	---	---	---	---
	10/30/03	20.25	3510.21	**284**	**1150**	< 0.001	< 0.001	< 0.001	0.002
	02/20/04	20.07	3510.39	**292**	**1100**	< 0.001	< 0.001	< 0.001	0.002
	05/14/04	18.29	3512.17	**266**	**1040**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/04	18.92	3511.54	**266**	**1810**	< 0.001	< 0.001	< 0.001	< 0.001
	11/10/04	17.82	3512.64	**284**	**959**	< 0.001	< 0.001	< 0.001	< 0.001
	02/08/05	16.41	3514.05	**395**	**1180**	< 0.001	< 0.001	< 0.001	< 0.001
	05/02/05	20.54	3509.92	**866**	**2470**	< 0.001	< 0.001	< 0.001	< 0.001
	08/11/05	18.11	3512.35	**751**	**2900**	< 0.001	< 0.001	< 0.001	< 0.001
	11/29/05	17.60	3512.86	**558**	**2490**	< 0.001	< 0.001	< 0.001	< 0.001
	02/14/06	17.55	3512.91	**594**	**2270**	< 0.001	< 0.001	< 0.001	< 0.001
	05/15/06	17.58	3512.88	**651**	**2320**	< 0.001	< 0.001	< 0.001	< 0.001
	08/30/06	18.10	3512.36	**605**	**2310**	---	---	---	---
	11/29/06	17.74	3512.72	**853**	**2850**	---	---	---	---
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Soilds (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).
BTEX analyses for monitoring wells MW-1A, MW-2, MW-3, and MW-4, and water well WW were suspended since approved by NMOCD on May 19, 2006.
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

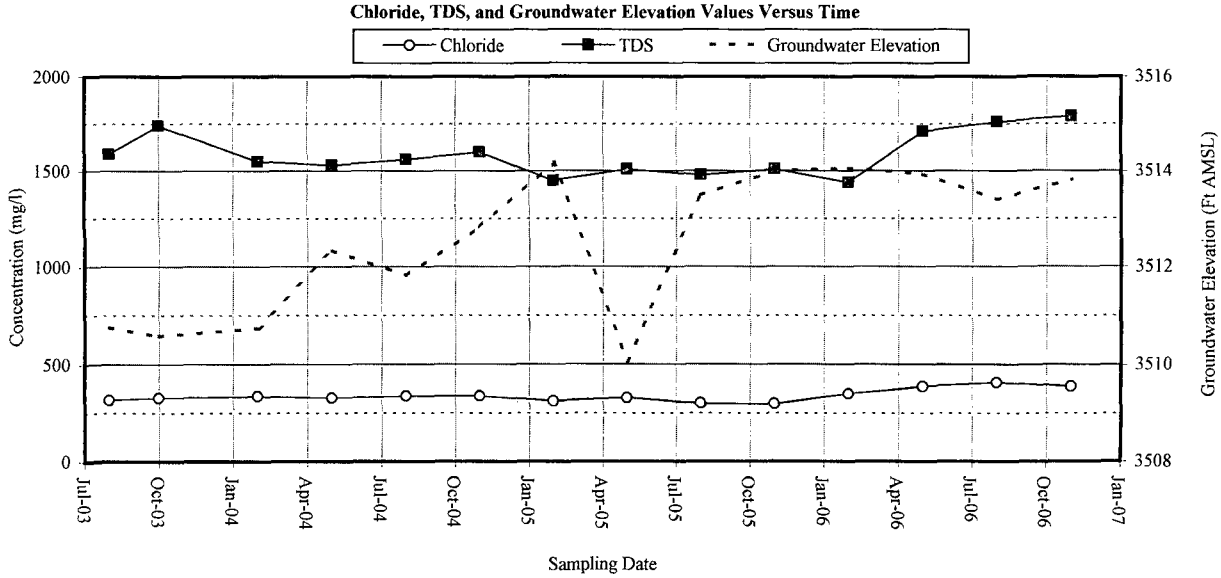
MW-1A
Chloride, TDS, and Groundwater Elevation Values Versus Time



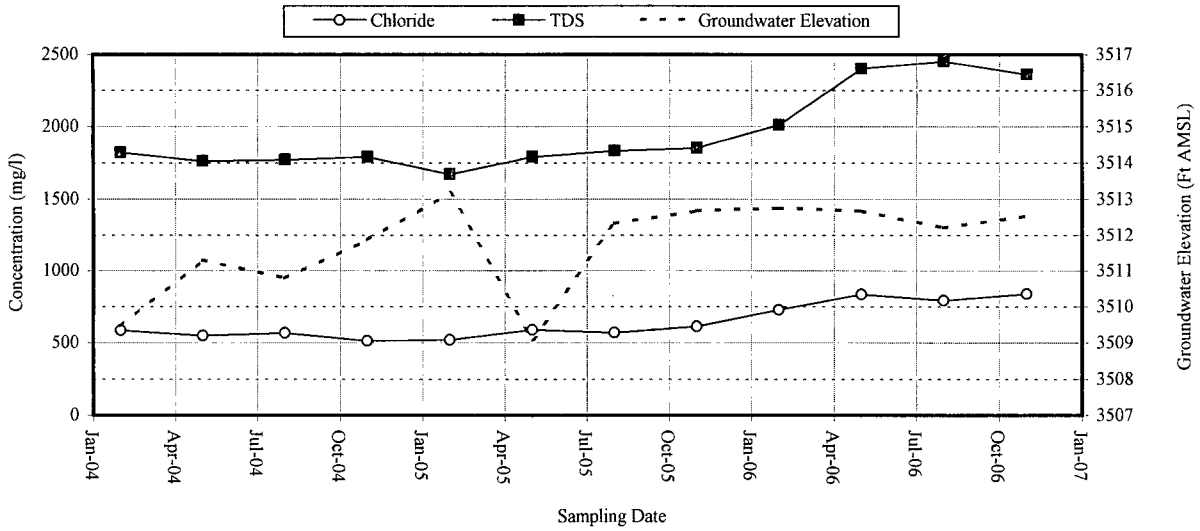
MW-2
Chloride, TDS, and Groundwater Elevation Values Versus Time



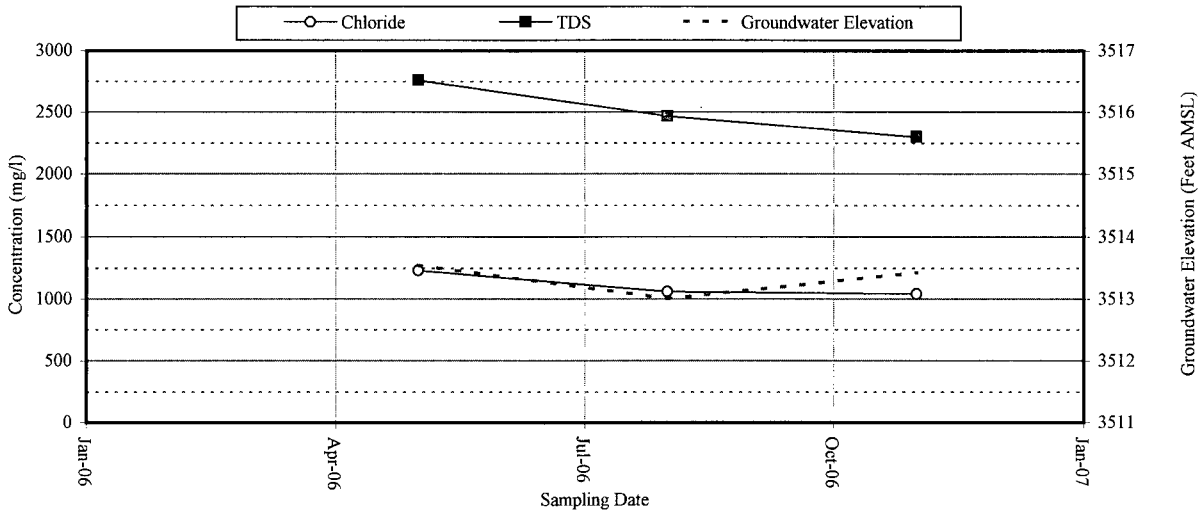
MW-3
Chloride, TDS, and Groundwater Elevation Values Versus Time



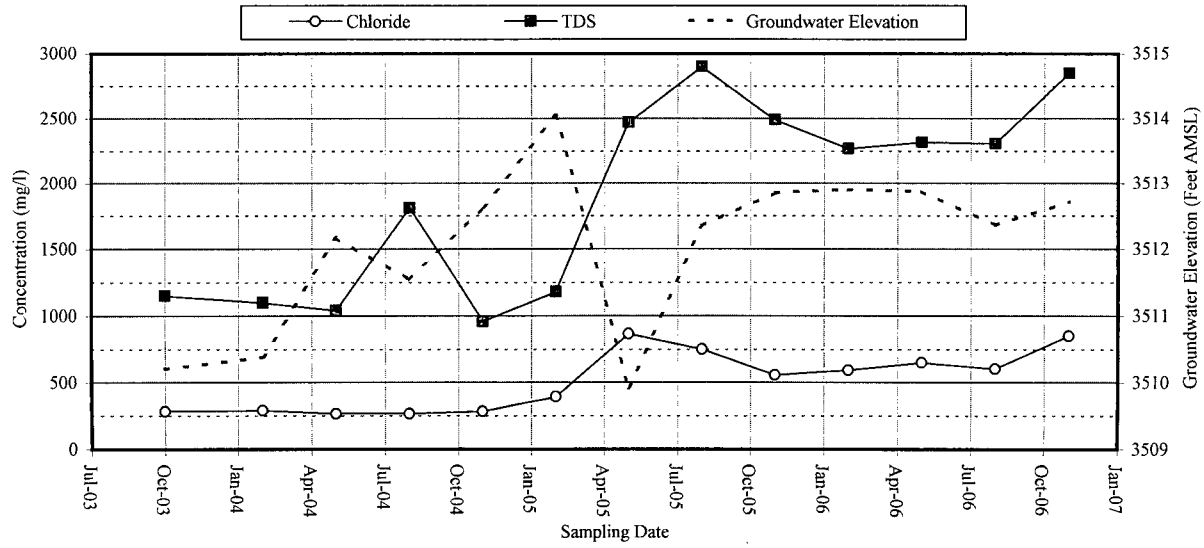
MW-4
Chloride, TDS, and Groundwater Elevation Values Versus Time



MW-5
Chloride, TDS, and Groundwater Elevation Values Versus Time



Water Well
Chloride, TDS, and Groundwater Elevation Values Versus Time



ATTACHMENT B

Laboratory Analytical Reports

And

Chain of Custody Documentation

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-9 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6B16006

Report Date: 02/28/06

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/28/06 09:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1 A	6B16006-01	Water	02/14/06 11:35	02/16/06 08:05
Monitor Well #2	6B16006-02	Water	02/14/06 09:00	02/16/06 08:05
Monitor Well #3	6B16006-03	Water	02/14/06 10:30	02/16/06 08:05
Monitor Well #4	6B16006-04	Water	02/14/06 13:45	02/16/06 08:05
Water Well	6B16006-05	Water	02/14/06 12:30	02/16/06 08:05

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

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 A (6B16006-01) Water									
Benzene	**0.00174**	0.00100	mg/L	1	EB62210	02/22/06	02/22/06	EPA 8021B	
Toluene	**0.00238**	0.00100	"	"	"	"	"	"	
Ethylbenzene	**0.00330**	0.00100	"	"	"	"	"	"	
Xylene (p/m)	**0.00592**	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.5 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6B16006-02) Water									
Benzene	ND	0.00100	mg/L	1	EB62210	02/22/06	02/22/06	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		*86.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6B16006-03) Water									
Benzene	ND	0.00100	mg/L	1	EB62210	02/22/06	02/22/06	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		*89.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.0 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6B16006-04) Water									
Benzene	ND	0.00100	mg/L	1	EB62210	02/22/06	02/23/06	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		*88.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		"	"	"	"	

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/28/06 09:46

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water Well (6B16006-05) Water									
Benzene	ND	0.00100	mg/L	1	EB62210	02/22/06	02/23/06	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		*88.0 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.2 %*		*80-120*	"	"	"	"	

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

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/28/06 09:46

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 A (6B16006-01) Water									
Total Alkalinity	**304**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**277**	10.0	"	20	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	**1210**	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	**284**	10.0	"	20	EB61712	02/17/06	02/20/06	EPA 300.0	
Monitor Well #2 (6B16006-02) Water									
Total Alkalinity	**305**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**396**	10.0	"	20	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	**1490**	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	**333**	10.0	"	20	EB61712	02/17/06	02/20/06	EPA 300.0	
Monitor Well #3 (6B16006-03) Water									
Total Alkalinity	**232**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**349**	10.0	"	20	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	**1440**	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	**341**	10.0	"	20	EB61712	02/17/06	02/20/06	EPA 300.0	
Monitor Well #4 (6B16006-04) Water									
Total Alkalinity	**242**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**729**	12.5	"	25	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	**2010**	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	**378**	12.5	"	25	EB61712	02/17/06	02/20/06	EPA 300.0	
Water Well (6B16006-05) Water									
Total Alkalinity	**235**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**594**	12.5	"	25	EB61712	02/17/06	02/20/06	EPA 300.0	
Total Dissolved Solids	**2270**	5.00	"	1	EB61713	02/16/06	02/17/06	EPA 160.1	
Sulfate	**668**	12.5	"	25	EB61712	02/17/06	02/20/06	EPA 300.0	

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Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	02/28/06 09:46

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 A (6B16006-01) Water									
Calcium	**109**	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	**54.3**	0.0100	"	10	"	"	"	"	
Potassium	**8.74**	0.500	"	"	"	"	"	"	
Sodium	**251**	0.500	"	50	"	"	"	"	
Monitor Well #2 (6B16006-02) Water									
Calcium	**133**	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	**53.7**	0.0100	"	10	"	"	"	"	
Potassium	**9.36**	0.500	"	"	"	"	"	"	
Sodium	**269**	0.500	"	50	"	"	"	"	
Monitor Well #3 (6B16006-03) Water									
Calcium	**130**	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	**52.7**	0.0100	"	10	"	"	"	"	
Potassium	**6.01**	0.500	"	"	"	"	"	"	
Sodium	**249**	0.500	"	50	"	"	"	"	
Monitor Well #4 (6B16006-04) Water									
Calcium	**160**	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	**91.0**	0.0500	"	"	"	"	"	"	
Potassium	**9.71**	0.500	"	10	"	"	"	"	
Sodium	**559**	2.00	"	200	"	"	"	"	
Water Well (6B16006-05) Water									
Calcium	**131**	0.500	mg/L	50	EB61708	02/16/06	02/17/06	EPA 6010B	
Magnesium	**83.0**	0.0500	"	"	"	"	"	"	
Potassium	**11.1**	0.500	"	10	"	"	"	"	
Sodium	**545**	2.00	"	200	"	"	"	"	

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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 EB62210 - EPA 5030C (GC)										
Blank (EB62210-BLK1)				Prepared & Analyzed: 02/22/06						
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	*33.2*		*ug/l*	*40.0*		*83.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.2*		*"*	*40.0*		*80.5*	*80-120*			
LCS (EB62210-BS1)				Prepared: 02/22/06 Analyzed: 02/23/06						
Benzene	0.0461	0.00100	mg/L	0.0500		92.2	80-120			
Toluene	0.0509	0.00100	"	0.0500		102	80-120			
Ethylbenzene	0.0576	0.00100	"	0.0500		115	80-120			
Xylene (p/m)	0.120	0.00100	"	0.100		120	80-120			
Xylene (o)	0.0597	0.00100	"	0.0500		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.0*		*ug/l*	*40.0*		*95.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.7*		*"*	*40.0*		*107*	*80-120*			
Calibration Check (EB62210-CCV1)				Prepared: 02/22/06 Analyzed: 02/23/06						
Benzene	45.5		ug/l	50.0		91.0	80-120			
Toluene	50.4		"	50.0		101	80-120			
Ethylbenzene	56.9		"	50.0		114	80-120			
Xylene (p/m)	118		"	100		118	80-120			
Xylene (o)	58.5		"	50.0		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.1*		*"*	*40.0*		*97.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.7*		*"*	*40.0*		*107*	*80-120*			
Matrix Spike (EB62210-MS1)	**Source: 6B16005-01**			Prepared: 02/22/06 Analyzed: 02/23/06						
Benzene	0.0463	0.00100	mg/L	0.0500	ND	92.6	80-120			
Toluene	0.0511	0.00100	"	0.0500	ND	102	80-120			
Ethylbenzene	0.0576	0.00100	"	0.0500	ND	115	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (o)	0.0596	0.00100	"	0.0500	ND	119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.1*		*ug/l*	*40.0*		*95.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.4*		*"*	*40.0*		*104*	*80-120*			

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 EB62210 - EPA 5030C (GC)										
Matrix Spike Dup (EB62210-MSD1)	**Source: 6B16005-01**			Prepared: 02/22/06 Analyzed: 02/23/06						
Benzene	0.0467	0.00100	mg/L	0.0500	ND	93.4	80-120	0.860	20	
Toluene	0.0508	0.00100	"	0.0500	ND	102	80-120	0.00	20	
Ethylbenzene	0.0561	0.00100	"	0.0500	ND	112	80-120	2.64	20	
Xylene (p/m)	0.116	0.00100	"	0.100	ND	116	80-120	2.55	20	
Xylene (o)	0.0580	0.00100	"	0.0500	ND	116	80-120	2.55	20	
Surrogate: a,a,a-Trifluorotoluene	*36.8*		*ug/l*	*40.0*		*92.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.6*		*"*	*40.0*		*96.5*	*80-120*			

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 EB61712 - General Preparation (WetChem)										
Blank (EB61712-BLK1)				Prepared: 02/17/06 Analyzed: 02/20/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EB61712-BS1)				Prepared: 02/17/06 Analyzed: 02/20/06						
Sulfate	8.36		mg/L	10.0		83.6	80-120			
Chloride	8.58		"	10.0		85.8	80-120			
Calibration Check (EB61712-CCV1)				Prepared: 02/17/06 Analyzed: 02/20/06						
Sulfate	8.95		mg/L	10.0		89.5	80-120			
Chloride	8.88		"	10.0		88.8	80-120			
Duplicate (EB61712-DUP1)		**Source: 6B16004-01**		Prepared: 02/17/06 Analyzed: 02/20/06						
Sulfate	149	5.00	mg/L		149			0.00	20	
Chloride	189	5.00	"		189			0.00	20	
Batch EB61713 - General Preparation (WetChem)										
Blank (EB61713-BLK1)				Prepared: 02/16/06 Analyzed: 02/17/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EB61713-DUP1)		**Source: 6B16004-01**		Prepared: 02/16/06 Analyzed: 02/17/06						
Total Dissolved Solids	918	5.00	mg/L		958			4.26	5	
Duplicate (EB61713-DUP2)		**Source: 6B16005-02**		Prepared: 02/16/06 Analyzed: 02/17/06						
Total Dissolved Solids	1100	5.00	mg/L		1130			2.69	5	

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 EB62205 - General Preparation (WetChem)										
Blank (EB62205-BLK1)				Prepared & Analyzed: 02/23/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EB62205-BS1)				Prepared & Analyzed: 02/23/06						
Bicarbonate Alkalinity	207	2.00	mg/L	200		104	85-115			
Duplicate (EB62205-DUP1)	**Source: 6B16004-01**			Prepared & Analyzed: 02/23/06						
Total Alkalinity	273	2.00	mg/L		278			1.81	20	
Reference (EB62205-SRM1)				Prepared & Analyzed: 02/23/06						
Total Alkalinity	97.0		mg/L	100		97.0	90-110			

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 EB61708 - 6010B/No Digestion										
Blank (EB61708-BLK1)				Prepared: 02/16/06 Analyzed: 02/17/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EB61708-CCV1)				Prepared: 02/16/06 Analyzed: 02/17/06						
Calcium	2.28		mg/L	2.00		114	85-115			
Magnesium	2.04		"	2.00		102	85-115			
Potassium	1.92		"	2.00		96.0	85-115			
Sodium	2.06		"	2.00		103	85-115			
Duplicate (EB61708-DUP1)	**Source: 6B16007-03**			Prepared: 02/16/06 Analyzed: 02/17/06						
Calcium	428	0.500	mg/L		429			0.233	20	
Magnesium	168	0.0500	"		176			4.65	20	
Potassium	17.9	0.500	"		18.8			4.90	20	
Sodium	1440	2.00	"		1450			0.692	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 2/28/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpriceswd@valornet.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

Project Name: EME M-9 SWD
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids				RUSH TAT (Pre-Schedule)	Standard TAT
603140004																TCLP:															
																TOTAL:							X								
-01	Monitor Well #1A	2/14/2006	11:35	3	X		2			1		X					X	X					X			X					X
-02	Monitor Well #2	2/14/2006	9:00	3	X		2			1		X					X	X					X			X					X
-03	Monitor Well #3	2/14/2006	10:30	3	X		2			1		X					X	X					X			X					X
-04	Monitor Well #4	2/14/2006	13:45	3	X		2			1		X					X	X					X			X					X
-05	Water Well	2/14/2006	12:30	3	X		2			1		X					X	X					X			X					X

Special Instructions:
PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 0.5 C

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	2/16/06	6:00	James Johnson	2/16/06	6:01
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	2/16/06	8:05		2/16/06	8:15

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

Client: Rice Op.

Date/Time: 2/16/06 8:05

Order #: 602160046

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	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-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-9 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6E18012

Report Date: 05/26/06

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/26/06 13:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1A	6E18012-01	Water	05/15/06 11:00	05/18/06 12:00
Monitor Well #2	6E18012-02	Water	05/15/06 10:05	05/18/06 12:00
Monitor Well #3	6E18012-03	Water	05/15/06 09:00	05/18/06 12:00
Monitor Well #4	6E18012-04	Water	05/15/06 12:05	05/18/06 12:00
Monitor Well #5	6E18012-05	Water	05/15/06 13:20	05/18/06 12:00
Water Well	6E18012-06	Water	05/15/06 15:00	05/18/06 12:00

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Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/26/06 13:35

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6E18012-01) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	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		*80.8 %*	*80-120*		"	"	"	"	
Monitor Well #2 (6E18012-02) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	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		*105 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.2 %*	*80-120*		"	"	"	"	
Monitor Well #3 (6E18012-03) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	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		*86.8 %*	*80-120*		"	"	"	"	
Monitor Well #4 (6E18012-04) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	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		*84.0 %*	*80-120*		"	"	"	"	

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6E18012-05) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	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		*98.5 %*		*80-120*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.0 %*		*80-120*	"	"	"	"	
Water Well (6E18012-06) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	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		*82.2 %*		*80-120*	"	"	"	"	

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/26/06 13:35

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6E18012-01) Water									
Total Alkalinity	**280**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**344**	10.0	"	20	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**1470**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**304**	10.0	"	20	EE62205	05/22/06	05/22/06	EPA 300.0	
Monitor Well #2 (6E18012-02) Water									
Total Alkalinity	**316**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**471**	12.5	"	25	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**1740**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**379**	12.5	"	25	EE62205	05/22/06	05/22/06	EPA 300.0	
Monitor Well #3 (6E18012-03) Water									
Total Alkalinity	**200**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**388**	10.0	"	20	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**1710**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**371**	10.0	"	20	EE62205	05/22/06	05/22/06	EPA 300.0	
Monitor Well #4 (6E18012-04) Water									
Total Alkalinity	**246**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**837**	12.5	"	25	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**2400**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**439**	12.5	"	25	EE62205	05/22/06	05/22/06	EPA 300.0	
Monitor Well #5 (6E18012-05) Water									
Total Alkalinity	**246**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**1230**	25.0	"	50	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**2760**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**314**	25.0	"	50	EE62205	05/22/06	05/22/06	EPA 300.0	
Water Well (6E18012-06) Water									
Total Alkalinity	**278**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**651**	12.5	"	25	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**2320**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**617**	12.5	"	25	EE62205	05/22/06	05/22/06	EPA 300.0	

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Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/26/06 13:35

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6E18012-01) Water									
Calcium	**111**	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**56.5**	0.0100	"	10	"	"	"	"	
Potassium	**12.9**	0.500	"	"	"	"	"	"	
Sodium	**271**	0.500	"	50	"	"	"	"	
Monitor Well #2 (6E18012-02) Water									
Calcium	**158**	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**59.5**	0.0100	"	10	"	"	"	"	
Potassium	**11.2**	0.500	"	"	"	"	"	"	
Sodium	**329**	0.500	"	50	"	"	"	"	
Monitor Well #3 (6E18012-03) Water									
Calcium	**149**	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**55.6**	0.0100	"	10	"	"	"	"	
Potassium	**6.62**	0.500	"	"	"	"	"	"	
Sodium	**297**	0.500	"	50	"	"	"	"	
Monitor Well #4 (6E18012-04) Water									
Calcium	**188**	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**104**	0.0500	"	"	"	"	"	"	
Potassium	**11.0**	0.500	"	10	"	"	"	"	
Sodium	**444**	0.500	"	50	"	"	"	"	
Monitor Well #5 (6E18012-05) Water									
Calcium	**202**	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**99.6**	0.0500	"	"	"	"	"	"	
Potassium	**13.1**	0.500	"	10	"	"	"	"	
Sodium	**542**	1.00	"	100	"	"	"	"	
Water Well (6E18012-06) Water									
Calcium	**158**	0.500	mg/L	50	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**93.0**	0.0500	"	"	"	"	"	"	
Potassium	**10.8**	0.500	"	10	"	"	"	"	
Sodium	**503**	0.500	"	50	"	"	"	"	

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 EE62101 - EPA 5030C (GC)										
Blank (EE62101-BLK1)				Prepared & Analyzed: 05/21/06						
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	*42.9*		*ug/l*	*40.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.2*		"	*40.0*		*80.5*	*80-120*			
LCS (EE62101-BS1)				Prepared & Analyzed: 05/21/06						
Benzene	0.0415	0.00100	mg/L	0.0500		83.0	80-120			
Toluene	0.0421	0.00100	"	0.0500		84.2	80-120			
Ethylbenzene	0.0463	0.00100	"	0.0500		92.6	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0504	0.00100	"	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	*42.7*		*ug/l*	*40.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.2*		"	*40.0*		*90.5*	*80-120*			
Calibration Check (EE62101-CCV1)				Prepared & Analyzed: 05/21/06						
Benzene	44.3		ug/l	50.0		88.6	80-120			
Toluene	44.3		"	50.0		88.6	80-120			
Ethylbenzene	55.3		"	50.0		111	80-120			
Xylene (p/m)	99.1		"	100		99.1	80-120			
Xylene (o)	49.1		"	50.0		98.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.6*		"	*40.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.8*		"	*40.0*		*87.0*	*80-120*			
Matrix Spike (EE62101-MS1)	**Source: 6E17005-01**			Prepared: 05/21/06 Analyzed: 05/22/06						
Benzene	0.0444	0.00100	mg/L	0.0500	ND	88.8	80-120			
Toluene	0.0454	0.00100	"	0.0500	ND	90.8	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	0.108	0.00100	"	0.100	ND	108	80-120			
Xylene (o)	0.0531	0.00100	"	0.0500	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.5*		*ug/l*	*40.0*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		"	*40.0*		*92.2*	*80-120*			

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 EE62101 - EPA 5030C (GC)										
Matrix Spike Dup (EE62101-MSD1)	**Source: 6E17005-01**			Prepared: 05/21/06 Analyzed: 05/22/06						
Benzene	0.0439	0.00100	mg/L	0.0500	ND	87.8	80-120	1.13	20	
Toluene	0.0447	0.00100	"	0.0500	ND	89.4	80-120	1.55	20	
Ethylbenzene	0.0481	0.00100	"	0.0500	ND	96.2	80-120	1.44	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	0.930	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	1.90	20	
Surrogate: a,a,a-Trifluorotoluene	*46.4*		*ug/l*	*40.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.4*		*"*	*40.0*		*83.5*	*80-120*			

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 EE61919 - Filtration Preparation										
Blank (EE61919-BLK1)				Prepared & Analyzed: 05/18/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EE61919-DUP1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/18/06						
Total Dissolved Solids	1420	5.00	mg/L		1470			3.46	5	
Batch EE62205 - General Preparation (WetChem)										
Blank (EE62205-BLK1)				Prepared & Analyzed: 05/22/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EE62205-BS1)				Prepared & Analyzed: 05/22/06						
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	8.20		"	10.0		82.0	80-120			
Calibration Check (EE62205-CCV1)				Prepared & Analyzed: 05/22/06						
Sulfate	9.63		mg/L	10.0		96.3	80-120			
Chloride	10.1		"	10.0		101	80-120			
Duplicate (EE62205-DUP1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/22/06						
Chloride	343	10.0	mg/L		344			0.291	20	
Sulfate	307	10.0	"		304			0.982	20	
Duplicate (EE62205-DUP2)	**Source: 6E18015-01**			Prepared & Analyzed: 05/22/06						
Sulfate	50.3	10.0	mg/L		50.6			0.595	20	
Chloride	415	10.0	"		412			0.726	20	

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 EE62205 - General Preparation (WetChem)										
Matrix Spike (EE62205-MS1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/22/06						
Chloride	565	10.0	mg/L	200	344	110	80-120			
Sulfate	465	10.0	"	200	304	80.5	80-120			
Matrix Spike (EE62205-MS2)	**Source: 6E18015-01**			Prepared & Analyzed: 05/22/06						
Sulfate	200	10.0	mg/L	200	50.6	74.7	80-120			S-07
Chloride	654	10.0	"	200	412	121	80-120			S-07
Batch EE62220 - General Preparation (WetChem)										
Blank (EE62220-BLK1)				Prepared & Analyzed: 05/22/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EE62220-BS1)				Prepared & Analyzed: 05/22/06						
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115			
Duplicate (EE62220-DUP1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/22/06						
Total Alkalinity	279	2.00	mg/L		280			0.358	20	
Reference (EE62220-SRM1)				Prepared & Analyzed: 05/22/06						
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

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 EE61926 - 6010B/No Digestion										
Blank (EE61926-BLK1)				Prepared & Analyzed: 05/19/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EE61926-CCV1)				Prepared & Analyzed: 05/19/06						
Calcium	2.30		mg/L	2.00		115	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.81		"	2.00		90.5	85-115			
Duplicate (EE61926-DUP1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/19/06						
Calcium	111	0.500	mg/L		111			0.00	20	
Magnesium	58.3	0.0100	"		56.5			3.14	20	
Potassium	12.2	0.500	"		12.9			5.58	20	
Sodium	266	0.500	"		271			1.86	20	

Notes and Definitions

S-07	Recovery outside Laboratory historical or method prescribed limits.
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: 5/26/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

Project Name: EME M-9 SWD
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule)	Standard TAT
6E18012																TCLP:							TOTAL:					
-01	Monitor Well #1A	5/15/2006	11:00	3	X		2			1		X					X	X					X			X		X
-02	Monitor Well #2	5/15/2006	10:05	3	X		2			1		X					X	X					X			X		X
-03	Monitor Well #3	5/15/2006	9:00	3	X		2			1		X					X	X					X			X		X
-04	Monitor Well #4	5/15/2006	12:05	3	X		2			1		X					X	X					X			X		X
-05	Monitor Well #5	5/15/2006	13:20	3	X		2			1		X					X	X					X			X		X
-06	Water Well	5/15/2006	15:00	3	X		2			1		X					X	X					X			X		X

Special Instructions:

PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.0°C not frozen

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	5/18/06	6:00	James Johnson	5/18/06	6:01
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	5/18/06	12:00	Rolan Ict	5/18/06	1200

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

ient: Rice Operating Co.

ate/Time: 05-18-06 @1200

rder #: 6E18012

itials: JMM

Sample Receipt Checklist

mperature of container/cooler?	(Yes)	No	1.0 C
ipping container/cooler in good condition?	(Yes)	No	
stody Seals intact on shipping container/cooler?	(Yes)	No	Not present
stody Seals intact on sample bottles?	(Yes)	No	Not present
ain of custody present?	(Yes)	No	
mple Instructions complete on Chain of Custody?	(Yes)	No	
ain of Custody signed when relinquished and received?	(Yes)	No	
ain of custody agrees with sample label(s)	(Yes)	No	
ntainer labels legible and intact?	(Yes)	No	
mple Matrix and properties same as on chain of custody?	(Yes)	No	
mples in proper container/bottle?	(Yes)	No	
mples properly preserved?	(Yes)	No	
mple bottles intact?	(Yes)	No	
servations documented on Chain of Custody?	(Yes)	No	
ntainers documented on Chain of Custody?	(Yes)	No	
fficient sample amount for indicated test?	(Yes)	No	
l samples received within sufficient hold time?	(Yes)	No	
OC samples have zero headspace?	(Yes)	No	Not Applicable

ther observations:

Variance Documentation:

ontact Person: - Date/Time: Contacted by:

egarding:

orrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-9 SWD

Project Number: None Given

Location: T22S-R37E-Sec15E, Lea County, NM

Lab Order Number: 6H31006

Report Date: 09/06/06

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1A	6H31006-01	Water	08/30/06 09:15	08-31-2006 10:15
Monitor Well #2	6H31006-02	Water	08/30/06 10:20	08-31-2006 10:15
Monitor Well #3	6H31006-03	Water	08/30/06 11:15	08-31-2006 10:15
Monitor Well #4	6H31006-04	Water	08/30/06 12:05	08-31-2006 10:15
Monitor Well #5	6H31006-05	Water	08/30/06 13:35	08-31-2006 10:15
Water Well	6H31006-06	Water	08/30/06 15:25	08-31-2006 10:15

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Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6H31006-05) Water									
Benzene	ND	0.00100	mg/L	1	EH63104	08/31/06	08/31/06	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		*86.0 %*		*80-120*	"	"	"	"	

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

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6H31006-01) Water									
Total Alkalinity	**316**	2.00	mg/L	1	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	**355**	12.5	"	25	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	**1590**	10.0	"	1	EI60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	**372**	12.5	"	25	EH63108	08/31/06	08/31/06	EPA 300.0	
Monitor Well #2 (6H31006-02) Water									
Total Alkalinity	**340**	8.00	mg/L	4	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	**386**	12.5	"	25	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	**1790**	10.0	"	1	EI60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	**515**	12.5	"	25	EH63108	08/31/06	08/31/06	EPA 300.0	
Monitor Well #3 (6H31006-03) Water									
Total Alkalinity	**244**	2.00	mg/L	1	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	**407**	12.5	"	25	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	**1760**	10.0	"	1	EI60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	**533**	12.5	"	25	EH63108	08/31/06	08/31/06	EPA 300.0	
Monitor Well #4 (6H31006-04) Water									
Total Alkalinity	**246**	2.00	mg/L	1	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	**793**	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	**2450**	10.0	"	1	EI60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	**570**	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Monitor Well #5 (6H31006-05) Water									
Total Alkalinity	**274**	2.00	mg/L	1	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	**1060**	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	**2470**	10.0	"	1	EI60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	**298**	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Water Well (6H31006-06) Water									
Total Alkalinity	**240**	2.00	mg/L	1	EH63107	08/31/06	08/31/06	EPA 310.1M	
Chloride	**605**	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	
Total Dissolved Solids	**2310**	10.0	"	1	EI60503	08/31/06	09/05/06	EPA 160.1	
Sulfate	**739**	25.0	"	50	EH63108	08/31/06	08/31/06	EPA 300.0	

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

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

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6H31006-01) Water									
Calcium	**122**	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	**64.6**	0.360	"	10	"	"	"	"	
Potassium	**10.6**	0.600	"	"	"	"	"	"	
Sodium	**260**	2.15	"	50	"	"	"	"	
Monitor Well #2 (6H31006-02) Water									
Calcium	**142**	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	**54.3**	0.360	"	10	"	"	"	"	
Potassium	**11.0**	0.600	"	"	"	"	"	"	
Sodium	**341**	2.15	"	50	"	"	"	"	
Monitor Well #3 (6H31006-03) Water									
Calcium	**162**	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	**61.7**	0.360	"	10	"	"	"	"	
Potassium	**6.22**	0.600	"	"	"	"	"	"	
Sodium	**289**	2.15	"	50	"	"	"	"	
Monitor Well #4 (6H31006-04) Water									
Calcium	**209**	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	**120**	1.80	"	"	"	"	"	"	
Potassium	**10.6**	0.600	"	10	"	"	"	"	
Sodium	**427**	2.15	"	50	"	"	"	"	
Monitor Well #5 (6H31006-05) Water									
Calcium	**197**	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	**102**	1.80	"	"	"	"	"	"	
Potassium	**11.6**	0.600	"	10	"	"	"	"	
Sodium	**532**	2.15	"	50	"	"	"	"	
Water Well (6H31006-06) Water									
Calcium	**132**	4.05	mg/L	50	EH63111	08/31/06	08/31/06	EPA 6010B	
Magnesium	**93.1**	1.80	"	"	"	"	"	"	
Potassium	**9.80**	0.600	"	10	"	"	"	"	
Sodium	**492**	2.15	"	50	"	"	"	"	

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH63104 - EPA 5030C (GC)										
Blank (EH63104-BLK1)				Prepared & Analyzed: 08/31/06						
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	*39.0*		*ug/l*	*40.0*		*97.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		*"*	*40.0*		*92.2*	*80-120*			
LCS (EH63104-BS1)				Prepared & Analyzed: 08/31/06						
Benzene	0.0489	0.00100	mg/L	0.0500		97.8	80-120			
Toluene	0.0518	0.00100	"	0.0500		104	80-120			
Ethylbenzene	0.0507	0.00100	"	0.0500		101	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0574	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.5*		*ug/l*	*40.0*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.5*		*"*	*40.0*		*119*	*80-120*			
Calibration Check (EH63104-CCV1)				Prepared & Analyzed: 08/31/06						
Benzene	51.7		ug/l	50.0		103	80-120			
Toluene	54.4		"	50.0		109	80-120			
Ethylbenzene	52.4		"	50.0		105	80-120			
Xylene (p/m)	109		"	100		109	80-120			
Xylene (o)	52.8		"	50.0		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.9*		*"*	*40.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.8*		*"*	*40.0*		*99.5*	*80-120*			
Matrix Spike (EH63104-MS1)	**Source: 6H31005-03**			Prepared & Analyzed: 08/31/06						
Benzene	0.0511	0.00100	mg/L	0.0500	ND	102	80-120			
Toluene	0.0537	0.00100	"	0.0500	ND	107	80-120			
Ethylbenzene	0.0500	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100	ND	118	80-120			
Xylene (o)	0.0564	0.00100	"	0.0500	ND	113	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.9*		*ug/l*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.1*		*"*	*40.0*		*115*	*80-120*			

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 EH63104 - EPA 5030C (GC)										
Matrix Spike Dup (EH63104-MSD1)	**Source: 6H31005-03**			Prepared & Analyzed: 08/31/06						
Benzene	0.0513	0.00100	mg/L	0.0500	ND	103	80-120	0.976	20	
Toluene	0.0536	0.00100	"	0.0500	ND	107	80-120	0.00	20	
Ethylbenzene	0.0511	0.00100	"	0.0500	ND	102	80-120	1.98	20	
Xylene (p/m)	0.112	0.00100	"	0.100	ND	112	80-120	5.22	20	
Xylene (o)	0.0531	0.00100	"	0.0500	ND	106	80-120	6.39	20	
Surrogate: a,a,a-Trifluorotoluene	*43.9*		*ug/l*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.1*		*"*	*40.0*		*115*	*80-120*			

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

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

Fax: (505) 397-1471

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 EH63107 - General Preparation (WetChem)										
Blank (EH63107-BLK1)				Prepared & Analyzed: 08/31/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EH63107-BS1)				Prepared & Analyzed: 08/31/06						
Bicarbonate Alkalinity	186	2.00	mg/L	200		93.0	85-115			
Duplicate (EH63107-DUP1)	**Source: 6H29001-02**			Prepared & Analyzed: 08/31/06						
Total Alkalinity	136	2.00	mg/L		140			2.90	20	
Reference (EH63107-SRM1)				Prepared & Analyzed: 08/31/06						
Total Alkalinity	252		mg/L	250		101	90-110			
Batch EH63108 - General Preparation (WetChem)										
Blank (EH63108-BLK1)				Prepared & Analyzed: 08/31/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EH63108-BS1)				Prepared & Analyzed: 08/31/06						
Sulfate	10.6	0.500	mg/L	10.0		106	80-120			
Chloride	10.7	0.500	"	10.0		107	80-120			
Calibration Check (EH63108-CCV1)				Prepared & Analyzed: 08/31/06						
Sulfate	11.0		mg/L	10.0		110	80-120			
Chloride	10.8		"	10.0		108	80-120			
Duplicate (EH63108-DUP1)	**Source: 6H31002-01**			Prepared & Analyzed: 08/31/06						
Chloride	4150	100	mg/L		4180			0.720	20	
Sulfate	ND	100	"		ND				20	

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH63108 - General Preparation (WetChem)										
Duplicate (EH63108-DUP2)	**Source: 6H31006-02**			Prepared & Analyzed: 08/31/06						
Chloride	386	12.5	mg/L		386			0.00	20	
Sulfate	516	12.5	"		515			0.194	20	
Matrix Spike (EH63108-MS1)	**Source: 6H31002-01**			Prepared & Analyzed: 08/31/06						
Sulfate	2000	100	mg/L	2000	ND	100	80-120			
Chloride	6290	100	"	2000	4180	106	80-120			
Matrix Spike (EH63108-MS2)	**Source: 6H31006-02**			Prepared & Analyzed: 08/31/06						
Sulfate	777	12.5	mg/L	250	515	105	80-120			
Chloride	654	12.5	"	250	386	107	80-120			
Batch EI60503 - Filtration Preparation										
Blank (EI60503-BLK1)				Prepared: 08/30/06 Analyzed: 09/05/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EI60503-DUP1)	**Source: 6H30007-01**			Prepared: 08/30/06 Analyzed: 09/05/06						
Total Dissolved Solids	2770	10.0	mg/L		2820			1.79	5	
Duplicate (EI60503-DUP2)	**Source: 6H31005-04**			Prepared: 08/31/06 Analyzed: 09/05/06						
Total Dissolved Solids	3360	10.0	mg/L		3400			1.18	5	

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 EH63111 - 6010B/No Digestion										
Blank (EH63111-BLK1)				Prepared & Analyzed: 08/31/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EH63111-CCV1)				Prepared & Analyzed: 08/31/06						
Calcium	2.23		mg/L	2.00		112	85-115			
Magnesium	2.25		"	2.00		112	85-115			
Potassium	1.72		"	2.00		86.0	85-115			
Sodium	1.83		"	2.00		91.5	85-115			
Duplicate (EH63111-DUP1)	**Source: 6H30007-01**			Prepared & Analyzed: 08/31/06						
Calcium	11.8	0.810	mg/L		12.5			5.76	20	
Magnesium	5.41	0.360	"		4.96			8.68	20	
Potassium	6.31	0.600	"		6.38			1.10	20	
Sodium	908	10.8	"		857			5.78	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 9/6/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

1260[illegible]est I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

Project Name: EME M-9 SWD
Project #:
Project Loc: T22S-R37E-Sec15E, Lea County NM
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	TOTAL: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids				RUSH TAT (Pre-Schedule)	Standard TAT
01	Monitor Well #1A	8/30/2006	9:15	1	X					1		X						X	X								X					X
02	Monitor Well #2	8/30/2006	10:20	1	X					1		X						X	X								X					X
03	Monitor Well #3	8/30/2006	11:15	1	X					1		X						X	X								X					X
04	Monitor Well #4	8/30/2006	12:05	1	X					1		X						X	X								X					X
05	Monitor Well #5	8/30/2006	13:35	3	X		2			1		X						X	X					X			X					X
06	Water Well	8/30/2006	15:25	1	X					1		X						X	X								X					X

Special Instructions:

PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com
rozanne@valornet.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: ~~Containers~~ Cooler
Temperature Upon Receipt: 10

Laboratory Comments: w/labels

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	8/31/06	6:30	James Johnson	8/31/06	5:31
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	8/31/06	10:15		8/31/06	10:15

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op.

Date/ Time: 8/31/06 10:15

Lab ID #: 60831006

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	1.0 °C	
#2	Shipping container in good condition?	Yes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	Yes	No		
#7	Chain of Custody signed when relinquished/ received?	Yes	No		
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No		
#11	Containers supplied by ELOT?	Yes	No		
#12	Samples in proper container/ bottle?	Yes	No	See Below	
#13	Samples properly preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	Yes	No		
#16	Containers documented on Chain of Custody?	Yes	No		
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below	
#18	All samples received within sufficient hold time?	Yes	No	See Below	
#19	VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-9 SWD

Project Number: None Given

Location: T20S-R37E-Sec.9M, Lea County, NM

Lab Order Number: 6L01009

Report Date: 12/08/06

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1A	6L01009-01	Water	11/29/06 11:40	12-01-2006 12:50
Monitor Well #2	6L01009-02	Water	11/29/06 11:00	12-01-2006 12:50
Monitor Well #3	6L01009-03	Water	11/29/06 10:10	12-01-2006 12:50
Monitor Well #4	6L01009-04	Water	11/29/06 08:45	12-01-2006 12:50
Monitor Well #5	6L01009-05	Water	11/29/06 09:25	12-01-2006 12:50
Water Well	6L01009-06	Water	11/29/06 13:30	12-01-2006 12:50

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Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #5 (6L01009-05) Water									
Benzene	ND	0.00100	mg/L	1	EL60103	12/01/06	12/04/06	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		*88.2 %*		*80-120*	"	"	"	"	

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Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6L01009-01) Water									
Total Alkalinity	**362**	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	**351**	12.5	"	25	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	**1510**	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	**391**	12.5	"	25	EL60409	12/04/06	12/04/06	EPA 300.0	
Monitor Well #2 (6L01009-02) Water									
Total Alkalinity	**336**	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	**432**	12.5	"	25	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	**1830**	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	**506**	12.5	"	25	EL60409	12/04/06	12/04/06	EPA 300.0	
Monitor Well #3 (6L01009-03) Water									
Total Alkalinity	**282**	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	**387**	12.5	"	25	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	**1790**	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	**558**	12.5	"	25	EL60409	12/04/06	12/04/06	EPA 300.0	
Monitor Well #4 (6L01009-04) Water									
Total Alkalinity	**264**	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	**838**	25.0	"	50	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	**2360**	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	**695**	25.0	"	50	EL60409	12/04/06	12/04/06	EPA 300.0	
Monitor Well #5 (6L01009-05) Water									
Total Alkalinity	**290**	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	**1040**	25.0	"	50	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	**2300**	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	**301**	25.0	"	50	EL60409	12/04/06	12/04/06	EPA 300.0	
Water Well (6L01009-06) Water									
Total Alkalinity	**304**	2.00	mg/L	1	EL60408	12/05/06	12/05/06	EPA 310.1M	
Chloride	**853**	25.0	"	50	EL60409	12/04/06	12/04/06	EPA 300.0	
Total Dissolved Solids	**2850**	10.0	"	1	EL60406	12/04/06	12/05/06	EPA 160.1	
Sulfate	**879**	25.0	"	50	EL60409	12/04/06	12/04/06	EPA 300.0	

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

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

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

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1A (6L01009-01) Water									
Calcium	**130**	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	**78.8**	1.80	"	"	"	"	"	"	
Potassium	**11.4**	0.600	"	10	"	"	"	"	
Sodium	**332**	2.15	"	50	"	"	"	"	
Monitor Well #2 (6L01009-02) Water									
Calcium	**161**	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	**56.9**	1.80	"	"	"	"	"	"	
Potassium	**15.0**	0.600	"	10	"	"	"	"	
Sodium	**380**	4.30	"	100	"	"	"	"	
Monitor Well #3 (6L01009-03) Water									
Calcium	**173**	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	**58.0**	1.80	"	"	"	"	"	"	
Potassium	**7.00**	0.600	"	10	"	"	"	"	
Sodium	**341**	4.30	"	100	"	"	"	"	
Monitor Well #4 (6L01009-04) Water									
Calcium	**232**	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	**132**	1.80	"	"	"	"	"	"	
Potassium	**13.2**	0.600	"	10	"	"	"	"	
Sodium	**545**	4.30	"	100	"	"	"	"	
Monitor Well #5 (6L01009-05) Water									
Calcium	**194**	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	**105**	1.80	"	"	"	"	"	"	
Potassium	**13.0**	0.600	"	10	"	"	"	"	
Sodium	**555**	4.30	"	100	"	"	"	"	
Water Well (6L01009-06) Water									
Calcium	**212**	4.05	mg/L	50	EL60403	12/04/06	12/04/06	EPA 6010B	
Magnesium	**135**	1.80	"	"	"	"	"	"	
Potassium	**14.4**	0.600	"	10	"	"	"	"	
Sodium	**614**	4.30	"	100	"	"	"	"	

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 EL60103 - EPA 5030C (GC)										
Blank (EL60103-BLK1)				Prepared: 12/01/06 Analyzed: 12/04/06						
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	*47.9*		*ug/l*	*40.0*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.8*		*"*	*40.0*		*112*	*80-120*			
LCS (EL60103-BS1)				Prepared: 12/01/06 Analyzed: 12/05/06						
Benzene	0.0458	0.00100	mg/L	0.0500		91.6	80-120			
Toluene	0.0442	0.00100	"	0.0500		88.4	80-120			
Ethylbenzene	0.0497	0.00100	"	0.0500		99.4	80-120			
Xylene (p/m)	0.0860	0.00100	"	0.100		86.0	80-120			
Xylene (o)	0.0419	0.00100	"	0.0500		83.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.8*		*ug/l*	*40.0*		*99.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*39.2*		*"*	*40.0*		*98.0*	*80-120*			
Calibration Check (EL60103-CCV1)				Prepared: 12/01/06 Analyzed: 12/05/06						
Benzene	44.9		ug/l	50.0		89.8	80-120			
Toluene	43.7		"	50.0		87.4	80-120			
Ethylbenzene	44.2		"	50.0		88.4	80-120			
Xylene (p/m)	85.4		"	100		85.4	80-120			
Xylene (o)	43.4		"	50.0		86.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.7*		*"*	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.0*		*"*	*40.0*		*85.0*	*80-120*			
Matrix Spike (EL60103-MS1)	**Source: 6L01009-05**			Prepared: 12/01/06 Analyzed: 12/05/06						
Benzene	0.0440	0.00100	mg/L	0.0500	ND	88.0	80-120			
Toluene	0.0425	0.00100	"	0.0500	ND	85.0	80-120			
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.0849	0.00100	"	0.100	ND	84.9	80-120			
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*39.4*		*ug/l*	*40.0*		*98.5*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.9*		*"*	*40.0*		*89.8*	*80-120*			

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 EL60103 - EPA 5030C (GC)										
Matrix Spike Dup (EL60103-MSD1)		**Source: 6L01009-05**		Prepared: 12/01/06 Analyzed: 12/04/06						
Benzene	0.0502	0.00100	mg/L	0.0500	ND	100	80-120	12.8	20	
Toluene	0.0509	0.00100	"	0.0500	ND	102	80-120	18.2	20	
Ethylbenzene	0.0569	0.00100	"	0.0500	ND	114	80-120	13.1	20	
Xylene (p/m)	0.0980	0.00100	"	0.100	ND	98.0	80-120	14.3	20	
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	*47.1*		*ug/l*	*40.0*		*118*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.2*		*"*	*40.0*		*108*	*80-120*			

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 EL60406 - Filtration Preparation										
Blank (EL60406-BLK1)				Prepared: 12/04/06 Analyzed: 12/05/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EL60406-DUP1)	**Source: 6K30013-01**			Prepared: 12/04/06 Analyzed: 12/05/06						
Total Dissolved Solids	2260	10.0	mg/L		2280			0.881	20	
Duplicate (EL60406-DUP2)	**Source: 6L01009-03**			Prepared: 12/04/06 Analyzed: 12/05/06						
Total Dissolved Solids	1640	10.0	mg/L		1790			8.75	20	
Batch EL60408 - General Preparation (WetChem)										
Blank (EL60408-BLK1)				Prepared & Analyzed: 12/05/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EL60408-BS1)				Prepared & Analyzed: 12/05/06						
Bicarbonate Alkalinity	192	2.00	mg/L	200		96.0	85-115			
Duplicate (EL60408-DUP1)	**Source: 6L01007-01**			Prepared & Analyzed: 12/05/06						
Total Alkalinity	378	2.00	mg/L		376			0.531	20	
Reference (EL60408-SRM1)				Prepared & Analyzed: 12/05/06						
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch EL60409 - General Preparation (WetChem)										
Blank (EL60409-BLK1)				Prepared & Analyzed: 12/04/06						
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

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 EL60409 - General Preparation (WetChem)										
LCS (EL60409-BS1)				Prepared & Analyzed: 12/04/06						
Sulfate	10.5	0.500	mg/L	10.0		105	80-120			
Chloride	10.1	0.500	"	10.0		101	80-120			
Calibration Check (EL60409-CCV1)				Prepared & Analyzed: 12/04/06						
Sulfate	9.69		mg/L	10.0		96.9	80-120			
Chloride	10.8		"	10.0		108	80-120			
Duplicate (EL60409-DUP1)		**Source: 6L01007-01**		Prepared & Analyzed: 12/04/06						
Sulfate	85.1	50.0	mg/L		86.2			1.28	20	
Chloride	2480	50.0	"		2440			1.63	20	
Duplicate (EL60409-DUP2)		**Source: 6L01009-04**		Prepared & Analyzed: 12/04/06						
Sulfate	680	25.0	mg/L		695			2.18	20	
Chloride	825	25.0	"		838			1.56	20	
Matrix Spike (EL60409-MS1)		**Source: 6L01007-01**		Prepared & Analyzed: 12/04/06						
Sulfate	1030	50.0	mg/L	1000	86.2	94.4	80-120			
Chloride	3640	50.0	"	1000	2440	120	80-120			
Matrix Spike (EL60409-MS2)		**Source: 6L01009-04**		Prepared & Analyzed: 12/04/06						
Sulfate	1170	25.0	mg/L	500	695	95.0	80-120			
Chloride	1400	25.0	"	500	838	112	80-120			

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 EL60403 - 6010B/No Digestion										
Blank (EL60403-BLK1)				Prepared & Analyzed: 12/04/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EL60403-CCV1)				Prepared & Analyzed: 12/04/06						
Calcium	2.10		mg/L	2.00		105	85-115			
Magnesium	2.13		"	2.00		106	85-115			
Potassium	1.76		"	2.00		88.0	85-115			
Sodium	2.03		"	2.00		102	85-115			
Duplicate (EL60403-DUP1)	**Source: 6L01007-01**			Prepared & Analyzed: 12/04/06						
Calcium	446	4.05	mg/L		460			3.09	20	
Magnesium	213	1.80	"		227			6.36	20	
Potassium	20.7	0.600	"		18.6			10.7	20	
Sodium	1020	10.8	"		922			10.1	20	

Rice Operating Co.	Project: EME M-9 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 12/8/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Manager: Kristin Farris Pope kpope@riceswd.com
Project Name: EME M-9 SWD
Company Name: RICE Operating Company
Project #:
Company Address: 122 W. Taylor Street
Project Loc: T20S-R37E-Sec9M ~ Lea County New Mexico
City/State/Zip: Hobbs, New Mexico 88240
PO #:
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Report Format: [X] Standard [ ] TRRP [ ] NPDES
Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

(lab use only)
ORDER #: 612009

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl (2) 40 ml glass vials	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1A			11/29/2006	11:40		1	X						1		GW			X	X								X		X
02	Monitor Well #2			11/29/2006	11:00		1	X						1		GW			X	X								X		X
03	Monitor Well #3			11/29/2006	10:10		1	X						1		GW			X	X								X		X
04	Monitor Well #4			11/29/2006	8:45		1	X						1		GW			X	X								X		X
05	Monitor Well #5			11/29/2006	9:25		3	X		2				1		GW			X	X					X			X		X
06	Water Well			11/29/2006	13:30		1	X						1		GW			X	X								X		X

Special Instructions:
Please email to : kpope@riceswd.com mfranks@riceswd.com rozanne@valornet.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	12/1/06	12:50			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				12/1/06	12:50

Laboratory Comments:

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

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 2.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: RIO Op.

Date/ Time: 12/1/06 12:50

Lab ID #: 61-01007

Initials: CK

Sample Receipt Checklist

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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

ATTACHMENT C

NMOCD Correspondence

From: "Price, Wayne, EMNRD" <wayne.price@state.nm.us>
To: "Gilbert Van Deventer" <gilbertvandeventer@cox.net>
Cc: "Carolyn Haynes" <cdhriceswd@valornet.com>; "Kristin Farris Pope" <kpope@riceswd.com>
Subject: RE: Suspension of BTEX at certain sites
Date: Friday, May 19, 2006 4:47 PM

OCD hereby approves of the request with the following condition:

1. If oil is present, or conditions change that BTEX may be found then the approval is rescinded.
2. This approval is included in all reports.

Please be advised that NMOCD approval of this plan does not relieve the owner/operator of Responsibility 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 the owner/operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Gilbert Van Deventer [mailto:gilbertvandeventer@cox.net]
Sent: Friday, May 19, 2006 3:33 PM
To: Price, Wayne, EMNRD
Cc: Carolyn Haynes; Kristin Farris Pope
Subject: Re: Suspension of BTEX at certain sites

The constituents of concern are chlorides and TDS.

Gilbert J. Van Deventer, PG, REM, NMCS
Trident Environmental
Work/Mobile: 432-638-8740
Fax: 413-403-9968
Home: 432-682-0727

> ----- Original Message -----
> From: Price, Wayne, EMNRD <mailto:wayne.price@state.nm.us>
> To: gil@rthicksconsult.com
> Cc: Carolyn Haynes <mailto:cdhriceswd@valornet.com> ; Kristin Farris Pope <mailto:kpope@riceswd.com>
> Sent: Friday, May 19, 2006 1:22 PM
> Subject: RE: Suspension of BTEX at certain sites
>
> What are the constituents of concern?

From: Gil Van Deventer [mailto:gil@rthicksconsult.com]
Sent: Friday, April 21, 2006 9:16 AM
To: Price, Wayne, EMNRD
Cc: Carolyn Haynes; Kristin Farris Pope
Subject: Suspension of BTEX at certain sites

Wayne, I just wanted to clarify an issue on some of these Stage 1 and 2 Abatement Plans where we propose suspension of sampling and analyzing for BTEX.

In the NMOCD-approved Stage 1 and 2 Abatement Plan for the EME M-9 SWD site we proposed that "Analysis for BTEX concentrations will be suspended, as each component of BTEX has been below the laboratory method detection limit of 0.001 mg/L since August 22, 2003 (10 consecutive quarters)."

The same goes for the EME P-6 Release site and its two montoring wells. In the approved Stage 1-2 plan we state: "Analysis for BTEX concentrations should be suspended, as there has been no indication of dissolved hydrocarbons since the groundwater monitoring program began in January 2002 (13 consecutive quarters)." My understanding that the local Hobbs Office is also reviewing this abatement plan.

The same situation would apply to the BD J-26 Junction Box site but we are still within the 30-day public comment period and plan approval by OCD will take a little time after that. In the Stage 1-2 abatement plan for J-26 we state that we will do the following:

* *Collect depth to water measurements and ground water samples for chloride and TDS analysis from the on site monitoring wells (MW-1, MW-2, MW-3) and area water wells (WW-1, WW-5, WW-8, WW-12, WW-19, WM #138, WM #220, and Wallach #914) on a quarterly frequency.*

With the J-26 site we don't specifically state that we will "suspend BTEX analysis" but that is the intention. Each component of BTEX has been below the laboratory method detection limit of 0.001 mg/L at this site since it began in 2002 (15 quarters).

Please confirm if you are in agreement with the suspension of BTEX sampling on any of these sites as we are about to initiate the second quarter sampling.

Thanks,
Gil

Gilbert J. Van Deventer

R. T. Hicks Consultants, Ltd.

1909 Brunson Ave, Midland TX 79701-6924

432-638-8740 (Office/Mobile) - 413-403-9968 (Fax) - 432-682-0727 (Home)