AP - 42

ANNUAL MONITORING REPORT

YEAR(S): 2007

ARCADIS
Infrastructure, environment, buildings

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Environmental

Sent Certified Mail
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Mr. Ed Hansen
New Mexico Energy, Minerals, & Natural Resources Dept.
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Subject: **2007 MONITOR WELL REPORT/SAMPLING SUMMARY**
JCT. M-16-1, EME SWD SYSTEM
UNIT 'M', SEC. 16, T20S, R37E
NMOCD CASE #AP-42 (formerly 1R0427-93)

Date:
28 February 2007

Contact:
Sharon E. Hall

Phone:
432 687-5400

Email:
shall@arcadis-us.com

Our ref:
MT000856.0001

Dear Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS G&M, Inc. (ARCADIS) respectfully submits the 2007 Monitor Well Report for the EME Jct. M-16-1 site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System.

One monitoring well was installed on 1/9/2002 during delineation as part of the Junction Box Upgrade Program.

A Stage 1 Abatement Plan Proposal was submitted to NMOCD on June 23, 2005 and approved by NMOCD on February 21, 2006.

Monitor wells MW-2 and MW-3 were installed southeast and southwest of Jct. M-16-1 on February 28, 2006 and March 1, 2006, respectively and soil and groundwater samples were collected. Monitor wells MW-4 and MW-5 were installed June 1, 2006 south and north of Jct. M-16-1, respectively and soil and groundwater samples were collected. A Stage 1 Abatement Plan Report and Stage 2 Abatement Plan Proposal was submitted to NMOCD on January 30, 2007. The report details the investigation and investigation results. NMOCD approval of the Stage 2 Abatement Plan proposal is pending.

All wells are sampled quarterly per NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from the monitor wells at the site. 2007 groundwater laboratory reports are also attached.

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.

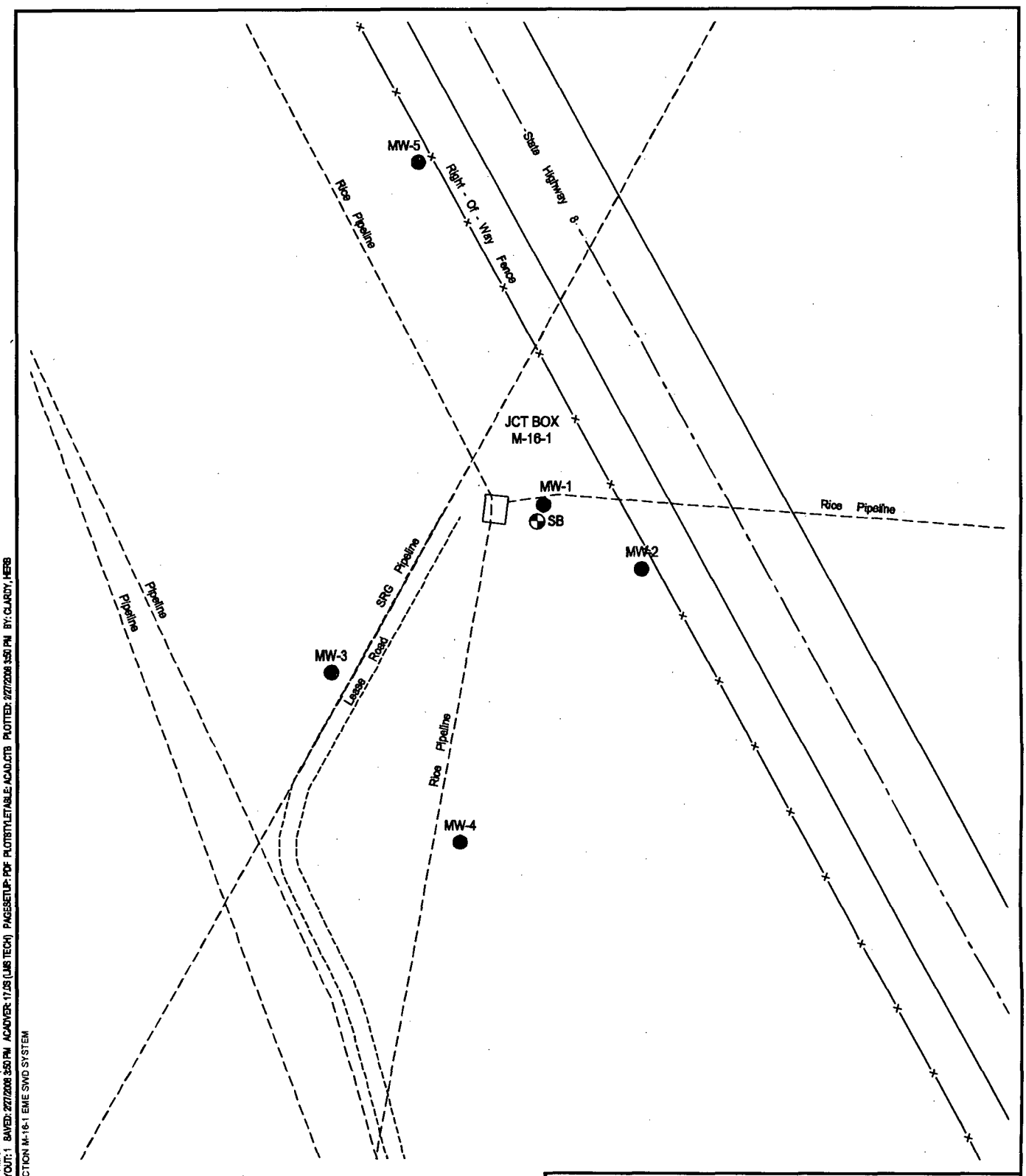
Sincerely,
ARCADIS G&M, Inc.

Sharon E. Hall

Sharon E. Hall
Site Evaluation Department Manager

Copies:
Kristin Farris Pope- ROC (2 copies)

Attachments:
MW Summary Tables
Monitor Well Location Figure
Laboratory Analytical Results



RICE OPERATING COMPANY
LEA COUNTY, NEW MEXICO
JUNCTION M-16-1 EME SWD SYSTEM

MONITOR WELL AND SOIL BORING LOCATIONS

ARCADIS

FIGURE
1

ROC EME Jct. M-16-1
MW-1

ROC EME Jct. M-16-1

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
1	22.6	35.1	2	6.1	1/10/2002	2079	8016	<0.002	<0.002	<0.002	<0.006	3420
1	23.78	25.81	0.325	1	5/13/2002	2070	7620	<0.001	<0.001	<0.001	<0.001	2220
1	23.08	34.8	1.875	5.75	8/23/2002	2040	7740	<0.001	<0.001	<0.001	<0.001	2380
1	23.53	34.69	1.786	5.5	11/12/2002	2130	7230	<0.001	<0.001	<0.001	<0.001	2460
1	23.2	34.49	1.8	5.4	2/27/2003	1960	7520	<0.001	<0.001	<0.001	<0.001	1980
1	23.1	34.5	1.824	5.4	5/22/2003	2060	7350	<0.001	<0.001	<0.001	<0.001	2470
1	23.83	34.25	1.66	5	8/22/2003	2170	7390	<0.001	<0.001	<0.001	<0.001	2170
1	24.07	34.34	1.64	4.9	11/20/2003	1990	7400	<0.001	<0.001	<0.001	<0.001	2300
1	24.9	34.25	1.49	4.47	2/18/2004	2479	7368	<0.002	<0.002	<0.002	<0.006	1106
1	22.75	34.25	1.84	5.5	5/26/2004	1919	6784	<0.002	<0.002	<0.002	<0.006	1889
1	23.18	31.4	1.315	3.95	9/7/2004	2130	7200	<0.001	<0.001	<0.001	<0.001	2180
1	22.45	31.4	1.43	4.3	11/24/2004	2210	8020	<0.001	0.000766	0.00291	0.01019	2460
1	XXX	XXX	XXX	XXX	3/22/2005	2470	7810	<0.001	<0.001	<0.001	<0.001	2600
1	21	32	XXX	5.61	6/28/2005	2310	7230	<0.001	<0.001	<0.001	<0.001	2480
1	21.39	32	XXX	5.09	9/6/2005	2250	6950	<0.001	<0.001	<0.001	<0.001	1990
1	21.35	31.5	1.6	5	11/2/2005	1700	6600	<0.001	<0.001	<0.001	<0.001	1630
1	21.27	31.5	1.6	5	2/1/2006	1960	6340	<0.001	<0.001	<0.001	<0.001	1740
1	21.14	31.5	1.7	10	5/3/2006	1690	6420	<0.001	<0.001	<0.001	<0.001	1510
1	21.95	31.5	1.5	10	7/25/2006	1830	6435	<0.001	<0.001	<0.001	<0.001	2010
1	21.43	31.5	1.6	8	10/20/2006	1800	5990	<0.001	<0.001	<0.001	<0.001	2230
1	21.35	31.5	1.6	8	2/1/2007	2080	5700	<0.001	<0.001	<0.001	<0.001	2190
1	21.23	31.5	1.6	8	4/11/2007	1840	6400	0.001	0.001	0.001	0.001	2110
1	21.41	31.5	1.6	8	7/11/2007	1800		<0.001	<0.001	<0.001	<0.002	2030
1	22.11	31.5	1.5	8	9/5/2007	2239	7926	<0.002	<0.002	<0.002	<0.006	2724
1	21.72	31.5	1.6	8	10/12/2007	1880	6951	<0.001	<0.001	<0.001	<0.003	2055

ROC EME Jct. M-16-1
MW-2

ROC EME Jct. M-16-1

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
2	20.81	32.35	1.8	6	3/8/2006	1570	5780	<0.001	<0.001	<0.001	<0.001	1450
2	20.75	32.35	1.9	10	5/3/2006	1850	7330	<0.001	<0.001	<0.001	<0.001	1620
2	21.58	32.35	1.7	10	7/25/2006	2240	7535	<0.001	<0.001	<0.001	<0.001	2440
2	21.02	32.35	1.8	8	10/20/2006	2090	6740	<0.001	<0.001	<0.001	<0.001	2470
2	20.95	32.5	1.8	8	2/1/2007	2240	6680	<0.001	<0.001	<0.001	<0.001	2400
2	20.83	32.5	1.9	8	4/11/2007	1990	6920	<0.001	<0.001	<0.001	<0.001	2120
2	21.02	32.5	1.8	8	7/11/2007	2230	7050	<0.001	<0.001	<0.001	<0.002	2340
2	21.63	32.5	1.7	8	9/5/2007	2239	7926	<0.002	<0.002	<0.002	<0.006	2724
2	21.32	32.5	1.8	8	10/12/2007	2160	7920	<0.001	<0.001	<0.001	<0.003	2239

ROC EME M-16-1
MW-3

ROC EME Jct. M-16-1

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
3	18.73	27.53	1.4	4.5	3/8/2006	2860	8960	<0.001	<0.001	<0.001	<0.001	2220
3	18.69	27.53	1.4	10	5/3/2006	2540	8350	<0.001	<0.001	<0.001	<0.001	1860
3	19.44	27.53	1.3	10	7/25/2006	2940	7840	<0.001	<0.001	<0.001	<0.001	2620
3	18.96	27.53	1.4	6	10/20/2006	2650	7960	<0.001	<0.001	<0.001	<0.001	2600
3	18.86	27.58	1.4	6	2/1/2007	2950	7420	<0.001	<0.001	<0.001	<0.001	2570
3	18.73	27.58	1.4	8	4/11/2007	2710	7130	<0.001	<0.001	<0.001	<0.001	2340
3	18.93	27.58	1.4	8	7/11/2007	2930	8220	<0.001	<0.001	<0.001	<0.002	
3	19.52	27.58	1.3	6	9/5/2007	2599	8908	<0.002	<0.002	<0.002	<0.006	2562
3	19.23	27.58	1.3	6	10/12/2007	2820	8890	<0.001	<0.001	<0.001	<0.003	2474

ROC EME M-16-1
MW-4

ROC EME Jct. M-16-1

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
4	20.82	31.4	1.7	10	6/13/2006	2680	7820	<0.001	<0.001	<0.001	<0.001	2220
4	21.08	31.4	1.7	10	7/25/2006	2500	7030	<0.001	<0.001	<0.001	<0.001	2530
4	20.59	31.4	1.7	8	10/20/2006	2430	7470	<0.001	<0.001	<0.001	<0.001	2680
4	20.49	30.73	1.6	6	2/1/2007	2620	7580	<0.001	<0.001	<0.001	<0.001	2640
4	20.33	30.73	1.7	8	4/11/2007	2520	7960	<0.001	<0.001	<0.001	<0.001	2470
4	20.51	30.73	1.6	8	7/11/2007	2540	6760	<0.001	<0.001	<0.001	<0.002	2550
4	21.17	30.73	1.5	6	9/5/2007	2599	8508	<0.002	<0.002	<0.002	<0.006	2562
4	20.85	30.73	1.6	6	10/12/2007	2480	8547	<0.001	<0.001	<0.001	<0.003	2518

ROC EME Jct. M-16-1

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
5	20.91	33.5	2	10	6/13/2006	2350	6760	<0.001	<0.001	<0.001	<0.001	1920
5	21.19	33.5	2	10	7/25/2006	2400	6245	<0.001	<0.001	<0.001	<0.001	2310
5	20.7	33.5	2	10	10/20/2006	2060	6910	<0.001	<0.001	<0.001	<0.001	2170
5	20.62	33.45	2.1	8	2/1/2007	2500	6490	<0.001	<0.001	<0.001	<0.001	2300
5	20.49	33.45	2.1	8	4/11/2007	2310	7220	<0.001	<0.001	<0.001	<0.001	2070
5	20.62	33.35	2.1	8	7/11/2007	2400	7780	<0.001	<0.001	<0.001	<0.002	2190
5	21.25	33.45	2	8	9/5/2007	2349	7518	<0.002	<0.002	<0.002	<0.006	2142
5	20.95	33.45	2	8	10/12/2007	2260	7576	<0.001	<0.001	<0.001	<0.003	2178

ENVIRONMENTAL LAB OF

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A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. M-16-1

Project Number: None Given

Location: T20S R37E Sec.16 M- Lea County, NM

Lab Order Number: 7B01020

Report Date: 02/13/07

Rice Operating Co.	Project: EME Jct. M-16-1	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 #1	7B01020-01	Water	02/01/07 11:00	02-01-2007 15:42
Monitor Well #2	7B01020-02	Water	02/01/07 10:00	02-01-2007 15:42
Monitor Well #3	7B01020-03	Water	02/01/07 11:35	02-01-2007 15:42
Monitor Well #4	7B01020-04	Water	02/01/07 12:15	02-01-2007 15:42
Monitor Well #5	7B01020-05	Water	02/01/07 09:20	02-01-2007 15:42

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Rice Operating Co.	Project: EME Jct. M-16-1	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 #1 (7B01020-01) Water									
Benzene	ND	0.00100	mg/L	1	EB70703	02/07/07	02/09/07	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		*93.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		"	"	"	"	
Monitor Well #2 (7B01020-02) Water									
Benzene	ND	0.00100	mg/L	1	EB70703	02/07/07	02/09/07	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		*93.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.6 %*	*80-120*		"	"	"	"	
Monitor Well #3 (7B01020-03) Water									
Benzene	ND	0.00100	mg/L	1	EB70703	02/07/07	02/09/07	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		*91.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		"	"	"	"	
Monitor Well #4 (7B01020-04) Water									
Benzene	ND	0.00100	mg/L	1	EB70703	02/07/07	02/09/07	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		*96.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. M-16-1	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 (7B01020-05) Water									
Benzene	ND	0.00100	mg/L	1	EB70703	02/07/07	02/09/07	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		*88.6 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		"	"	"	"	

Rice Operating Co.	Project: EME Jct. M-16-1	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 #1 (7B01020-01) Water									
Total Alkalinity	**436**	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	**2080**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	**5700**	10.0	"	1	EB70302	02/02/07	02/03/07	EPA 160.1	
Sulfate	**2190**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Monitor Well #2 (7B01020-02) Water									
Total Alkalinity	**374**	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	**2240**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	**6680**	10.0	"	1	EB70302	02/02/07	02/03/07	EPA 160.1	
Sulfate	**2400**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Monitor Well #3 (7B01020-03) Water									
Total Alkalinity	**376**	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	**2950**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	**7420**	10.0	"	1	EB70611	02/05/07	02/06/07	EPA 160.1	
Sulfate	**2570**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Monitor Well #4 (7B01020-04) Water									
Total Alkalinity	**395**	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	**2620**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	**7580**	10.0	"	1	EB70611	02/05/07	02/06/07	EPA 160.1	
Sulfate	**2640**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Monitor Well #5 (7B01020-05) Water									
Total Alkalinity	**380**	2.00	mg/L	1	EB70209	02/02/07	02/02/07	EPA 310.1M	
Chloride	**2500**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	
Total Dissolved Solids	**6490**	10.0	"	1	EB70611	02/05/07	02/06/07	EPA 160.1	
Sulfate	**2300**	50.0	"	100	EB70208	02/02/07	02/03/07	EPA 300.0	

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Rice Operating Co.	Project: EME Jct. M-16-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7B01020-01) Water									
Calcium	**194**	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 200.7	
Magnesium	**180**	1.80	"	"	"	"	"	"	
Potassium	**48.8**	0.600	"	10	"	"	"	"	
Sodium	**1760**	21.5	"	500	"	"	"	"	
Monitor Well #2 (7B01020-02) Water									
Calcium	**264**	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 200.7	
Magnesium	**225**	1.80	"	"	"	"	"	"	
Potassium	**40.4**	3.00	"	"	"	"	"	"	
Sodium	**1840**	21.5	"	500	"	"	"	"	
Monitor Well #3 (7B01020-03) Water									
Calcium	**296**	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 200.7	
Magnesium	**235**	1.80	"	"	"	"	"	"	
Potassium	**56.8**	0.600	"	10	"	"	"	"	
Sodium	**2790**	21.5	"	500	"	"	"	"	
Monitor Well #4 (7B01020-04) Water									
Calcium	**274**	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 200.7	
Magnesium	**267**	1.80	"	"	"	"	"	"	
Potassium	**58.8**	0.600	"	10	"	"	"	"	
Sodium	**2490**	21.5	"	500	"	"	"	"	
Monitor Well #5 (7B01020-05) Water									
Calcium	**240**	4.05	mg/L	50	EB70612	02/06/07	02/06/07	EPA 200.7	
Magnesium	**233**	1.80	"	"	"	"	"	"	
Potassium	**51.4**	0.600	"	10	"	"	"	"	
Sodium	**2360**	21.5	"	500	"	"	"	"	

Rice Operating Co.	Project: EME Jct. M-16-1	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 EB70703 - EPA 5030C (GC)										
Blank (EB70703-BLK1)				Prepared: 02/07/07 Analyzed: 02/10/07						
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	*41.0*		*ug/l*	*50.0*		*82.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*43.5*		"	*50.0*		*87.0*	*80-120*			
LCS (EB70703-BS1)				Prepared: 02/07/07 Analyzed: 02/09/07						
Benzene	0.0524	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0527	0.00100	"	0.0500		105	80-120			
Ethylbenzene	0.0524	0.00100	"	0.0500		105	80-120			
Xylene (p/m)	0.111	0.00100	"	0.100		111	80-120			
Xylene (o)	0.0478	0.00100	"	0.0500		95.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*47.2*		*ug/l*	*50.0*		*94.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*53.0*		"	*50.0*		*106*	*80-120*			
Calibration Check (EB70703-CCV1)				Prepared: 02/07/07 Analyzed: 02/10/07						
Benzene	55.4		ug/l	50.0		111	80-120			
Toluene	53.4		"	50.0		107	80-120			
Ethylbenzene	53.1		"	50.0		106	80-120			
Xylene (p/m)	110		"	100		110	80-120			
Xylene (o)	46.7		"	50.0		93.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*46.8*		"	*50.0*		*93.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*55.8*		"	*50.0*		*112*	*80-120*			
Matrix Spike (EB70703-MS1)	**Source: 7B01020-01**			Prepared: 02/07/07 Analyzed: 02/09/07						
Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120			
Toluene	0.0587	0.00100	"	0.0500	ND	117	80-120			
Ethylbenzene	0.0579	0.00100	"	0.0500	ND	116	80-120			
Xylene (p/m)	0.125	0.00100	"	0.100	ND	125	80-120			M1
Xylene (o)	0.0550	0.00100	"	0.0500	ND	110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*51.3*		*ug/l*	*50.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*58.7*		"	*50.0*		*117*	*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 EB70703 - EPA 5030C (GC)										
Matrix Spike Dup (EB70703-MSD1)	**Source: 7B01020-01**			Prepared: 02/07/07 Analyzed: 02/10/07						
Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120	0.00	20	
Toluene	0.0593	0.00100	"	0.0500	ND	119	80-120	1.69	20	
Ethylbenzene	0.0599	0.00100	"	0.0500	ND	120	80-120	3.39	20	
Xylene (p/m)	0.128	0.00100	"	0.100	ND	128	80-120	2.37	20	M1
Xylene (o)	0.0562	0.00100	"	0.0500	ND	112	80-120	1.80	20	
Surrogate: a,a,a-Trifluorotoluene	*52.6*		*ug/l*	*50.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*60.3*		*"*	*50.0*		*121*	*80-120*			*S-04*

Rice Operating Co.	Project: EME Jct. M-16-1	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 EB70208 - General Preparation (WetChem)										
Blank (EB70208-BLK1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	0.459	0.500	mg/L							B, J
Chloride	ND	0.500	"							
LCS (EB70208-BS1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	11.6	0.500	mg/L	10.0		116	80-120			
Chloride	10.7	0.500	"	10.0		107	80-120			
Calibration Check (EB70208-CCV1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Chloride	10.5		mg/L	10.0		105	80-120			
Sulfate	11.8		"	10.0		118	80-120			
Duplicate (EB70208-DUP1)	**Source: 7B01017-01**			Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	93.0	5.00	mg/L		96.4			3.59	20	
Chloride	127	5.00	"		132			3.86	20	
Duplicate (EB70208-DUP2)	**Source: 7B01020-02**			Prepared: 02/02/07 Analyzed: 02/03/07						
Chloride	2220	50.0	mg/L		2240			0.897	20	
Sulfate	2410	50.0	"		2400			0.416	20	
Matrix Spike (EB70208-MS1)	**Source: 7B01017-01**			Prepared: 02/02/07 Analyzed: 02/03/07						
Sulfate	204	5.00	mg/L	100	96.4	108	80-120			
Chloride	240	5.00	"	100	132	108	80-120			
Matrix Spike (EB70208-MS2)	**Source: 7B01020-02**			Prepared: 02/02/07 Analyzed: 02/03/07						
Chloride	3330	50.0	mg/L	1000	2240	109	80-120			
Sulfate	3500	50.0	"	1000	2400	110	80-120			

Rice Operating Co.	Project: EME Jct. M-16-1	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 EB70209 - General Preparation (WetChem)										
Blank (EB70209-BLK1)				Prepared & Analyzed: 02/02/07						
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EB70209-DUP1)		Source: 7B01016-01		Prepared & Analyzed: 02/02/07						
Total Alkalinity	310	2.00	mg/L		314			1.28	20	
Reference (EB70209-SRM1)				Prepared & Analyzed: 02/02/07						
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch EB70302 - Filtration Preparation										
Blank (EB70302-BLK1)				Prepared: 02/02/07 Analyzed: 02/03/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EB70302-DUP1)		Source: 7B01016-01		Prepared: 02/02/07 Analyzed: 02/03/07						
Total Dissolved Solids	1920	10.0	mg/L		1840			4.26	20	
Duplicate (EB70302-DUP2)		Source: 7B01020-01		Prepared: 02/02/07 Analyzed: 02/03/07						
Total Dissolved Solids	6280	10.0	mg/L		5700			9.68	20	
Batch EB70611 - Filtration Preparation										
Blank (EB70611-BLK1)				Prepared: 02/05/07 Analyzed: 02/06/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EB70611-DUP1)		Source: 7B01016-03		Prepared: 02/05/07 Analyzed: 02/06/07						
Total Dissolved Solids	1920	10.0	mg/L		1870			2.64	20	

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Rice Operating Co.	Project: EME Jct. M-16-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EB70612 - 6010B/No Digestion										
Blank (EB70612-BLK1)				Prepared & Analyzed: 02/06/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EB70612-CCV1)				Prepared & Analyzed: 02/06/07						
Calcium	1.79		mg/L	2.00		89.5	85-115			
Magnesium	1.98		"	2.00		99.0	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.74		"	2.00		87.0	85-115			
Duplicate (EB70612-DUP1)	**Source: 7B01016-01**			Prepared & Analyzed: 02/06/07						
Calcium	172	4.05	mg/L		176			2.30	20	
Magnesium	111	1.80	"		109			1.82	20	
Potassium	17.0	0.600	"		16.8			1.18	20	
Sodium	306	4.30	"		305			0.327	20	

Rice Operating Co.	Project: EME Jct. M-16-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
B	Analyte is found in the associated blank as well as in the sample (CLP B-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: Brent Barron Date: 2/13/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

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 e-mail: rozanne@valornet.com

Project Name: EME Junction M-16-1

Project #:

Project Loc: T20S R37E Sec16 M ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 1B01020

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: TCLP: TPH: 418.1 8015M 8015B	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 (BTEX-N 8260)	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
																	TOTAL:								X							
1	Monitor Well #1			2/1/2007	11:00		3	X		2				1		GW			X	X					X			X				X
2	Monitor Well #2			2/1/2007	10:10		3	X		2				1		GW			X	X					X			X				X
3	Monitor Well #3			2/1/2007	11:35		3	X		2				1		GW			X	X					X			X				X
4	Monitor Well #4			2/1/2007	12:15		3	X		2				1		GW			X	X					X			X				X
5	Monitor Well #5			2/1/2007	9:20		3	X		2				1		GW			X	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	2-1-07	12:30	James Johnson	2-1-07	12:31
Relinquished by: James Johnson	2-1-07	1542	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				02-01-07	1545

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: 4.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: RICE DP.

Date/ Time: 2-1-07 15:42

Lab ID # : 71801026

Initials: CK

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	Yes	No	4.0 °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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME Jct. M-16-1

Project Number: None Given

Location: T20S R37E Sec16M ~ Lea County New Mexico

Lab Order Number: 7D16035

Report Date: 04/26/07

Rice Operating Co.	Project: EME Jct. M-16-1	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 # 1	7D16035-01	Water	04/11/07 12:45	04-16-2007 13:05
Monitor Well # 2	7D16035-02	Water	04/11/07 11:55	04-16-2007 13:05
Monitor Well # 3	7D16035-03	Water	04/11/07 13:40	04-16-2007 13:05
Monitor Well # 4	7D16035-04	Water	04/11/07 10:15	04-16-2007 13:05
Monitor Well # 5	7D16035-05	Water	04/11/07 11:10	04-16-2007 13:05

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Rice Operating Co.	Project: EME Jct. M-16-1	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 # 1 (7D16035-01) Water									
Benzene	ND	0.00100	mg/L	1	ED71705	04/17/07	04/19/07	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		*91.2 %*	*80-120*		"	"	"	"	
Monitor Well # 2 (7D16035-02) Water									
Benzene	ND	0.00100	mg/L	1	ED71705	04/17/07	04/19/07	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		*102 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	
Monitor Well # 3 (7D16035-03) Water									
Benzene	ND	0.00100	mg/L	1	ED71705	04/17/07	04/19/07	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		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.2 %*	*80-120*		"	"	"	"	
Monitor Well # 4 (7D16035-04) Water									
Benzene	ND	0.00100	mg/L	1	ED71705	04/17/07	04/19/07	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		*99.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. M-16-1	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 (7D16035-05) Water									
Benzene	ND	0.00100	mg/L	1	ED71705	04/17/07	04/19/07	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		*99.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.4 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. M-16-1	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 # 1 (7D16035-01) Water									
Total Alkalinity	**410**	2.00	mg/L	1	ED71912	04/19/07	04/19/07	EPA 310.1M	
Chloride	**1840**	25.0	"	50	ED72102	04/21/07	04/23/07	EPA 300.0	
Total Dissolved Solids	**6400**	10.0	"	1	ED71907	04/16/07	04/17/07	EPA 160.1	
Sulfate	**2110**	25.0	"	50	ED72102	04/21/07	04/23/07	EPA 300.0	
Monitor Well # 2 (7D16035-02) Water									
Total Alkalinity	**480**	2.00	mg/L	1	ED71912	04/19/07	04/19/07	EPA 310.1M	
Chloride	**1990**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Total Dissolved Solids	**6920**	10.0	"	1	ED71907	04/16/07	04/17/07	EPA 160.1	
Sulfate	**2120**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Monitor Well # 3 (7D16035-03) Water									
Total Alkalinity	**440**	2.00	mg/L	1	ED71912	04/19/07	04/19/07	EPA 310.1M	
Chloride	**2710**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Total Dissolved Solids	**7130**	10.0	"	1	ED71907	04/16/07	04/17/07	EPA 160.1	
Sulfate	**2340**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Monitor Well # 4 (7D16035-04) Water									
Total Alkalinity	**450**	2.00	mg/L	1	ED71912	04/19/07	04/19/07	EPA 310.1M	
Chloride	**2520**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Total Dissolved Solids	**7960**	10.0	"	1	ED71907	04/16/07	04/17/07	EPA 160.1	
Sulfate	**2470**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Monitor Well # 5 (7D16035-05) Water									
Total Alkalinity	**490**	2.00	mg/L	1	ED71912	04/19/07	04/19/07	EPA 310.1M	
Chloride	**2310**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	
Total Dissolved Solids	**7220**	10.0	"	1	ED71907	04/16/07	04/17/07	EPA 160.1	
Sulfate	**2070**	50.0	"	100	ED72102	04/21/07	04/23/07	EPA 300.0	

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

Rice Operating Co.	Project: EME Jct. M-16-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D16035-01) Water									
Calcium	**253**	20.2	mg/L	250	ED71807	04/18/07	04/18/07	EPA 200.7	
Magnesium	**159**	1.80	"	50	"	"	"	"	
Potassium	**30.6**	0.600	"	10	"	"	"	"	
Sodium	**1520**	10.8	"	250	"	"	"	"	
Monitor Well # 2 (7D16035-02) Water									
Calcium	**325**	20.2	mg/L	250	ED71807	04/18/07	04/18/07	EPA 200.7	
Magnesium	**209**	1.80	"	50	"	"	"	"	
Potassium	**34.9**	0.600	"	10	"	"	"	"	
Sodium	**1560**	10.8	"	250	"	"	"	"	
Monitor Well # 3 (7D16035-03) Water									
Calcium	**345**	20.2	mg/L	250	ED71807	04/18/07	04/18/07	EPA 200.7	
Magnesium	**231**	1.80	"	50	"	"	"	"	
Potassium	**35.0**	0.600	"	10	"	"	"	"	
Sodium	**1860**	10.8	"	250	"	"	"	"	
Monitor Well # 4 (7D16035-04) Water									
Calcium	**319**	20.2	mg/L	250	ED71807	04/18/07	04/18/07	EPA 200.7	
Magnesium	**248**	1.80	"	50	"	"	"	"	
Potassium	**35.3**	0.600	"	10	"	"	"	"	
Sodium	**1840**	10.8	"	250	"	"	"	"	
***Monitor* Well # 5 (7D16035-05) Water**									
Calcium	**314**	20.2	mg/L	250	ED71807	04/18/07	04/18/07	EPA 200.7	
Magnesium	**218**	1.80	"	50	"	"	"	"	
Potassium	**33.1**	0.600	"	10	"	"	"	"	
Sodium	**1590**	10.8	"	250	"	"	"	"	

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

Project: EME Jct. M-16-1
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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 ED71705 - EPA 5030C (GC)										
Blank (ED71705-BLK1)				Prepared: 04/17/07 Analyzed: 04/19/07						
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	*51.9*		*ug/l*	*50.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*45.1*		"	*50.0*		*90.2*	*80-120*			
LCS (ED71705-BS1)				Prepared: 04/17/07 Analyzed: 04/19/07						
Benzene	0.0564	0.00100	mg/L	0.0500		113	80-120			
Toluene	0.0563	0.00100	"	0.0500		113	80-120			
Ethylbenzene	0.0585	0.00100	"	0.0500		117	80-120			
Xylene (p/m)	0.108	0.00100	"	0.100		108	80-120			
Xylene (o)	0.0600	0.00100	"	0.0500		120	80-120			
Surrogate: a,a,a-Trifluorotoluene	*55.5*		*ug/l*	*50.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.2*		"	*50.0*		*104*	*80-120*			
Calibration Check (ED71705-CCV1)				Prepared: 04/17/07 Analyzed: 04/19/07						
Benzene	57.0		ug/l	50.0		114	80-120			
Toluene	55.8		"	50.0		112	80-120			
Ethylbenzene	57.2		"	50.0		114	80-120			
Xylene (p/m)	105		"	100		105	80-120			
Xylene (o)	59.4		"	50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*55.3*		"	*50.0*		*111*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*52.5*		"	*50.0*		*105*	*80-120*			
Matrix Spike (ED71705-MS1)	**Source: 7D13003-23**			Prepared: 04/17/07 Analyzed: 04/19/07						
Benzene	0.0546	0.00100	mg/L	0.0500	ND	109	80-120			
Toluene	0.0541	0.00100	"	0.0500	ND	108	80-120			
Ethylbenzene	0.0541	0.00100	"	0.0500	0.000418	107	80-120			
Xylene (p/m)	0.104	0.00100	"	0.100	0.00206	102	80-120			
Xylene (o)	0.0593	0.00100	"	0.0500	0.00157	115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*53.2*		*ug/l*	*50.0*		*106*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*49.5*		"	*50.0*		*99.0*	*80-120*			

Rice Operating Co.	Project: EME Jct. M-16-1	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 ED71705 - EPA 5030C (GC)										
Matrix Spike Dup (ED71705-MSD1)	**Source: 7D13003-23**			Prepared: 04/17/07 Analyzed: 04/19/07						
Benzene	0.0554	0.00100	mg/L	0.0500	ND	111	80-120	1.82	20	
Toluene	0.0554	0.00100	"	0.0500	ND	111	80-120	2.74	20	
Ethylbenzene	0.0581	0.00100	"	0.0500	0.000418	115	80-120	7.21	20	
Xylene (p/m)	0.106	0.00100	"	0.100	0.00206	104	80-120	1.94	20	
Xylene (o)	0.0609	0.00100	"	0.0500	0.00157	119	80-120	3.42	20	
Surrogate: a,a,a-Trifluorotoluene	*53.5*		*ug/l*	*50.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*50.4*		*"*	*50.0*		*101*	*80-120*			

Rice Operating Co.	Project: EME Jct. M-16-1	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 ED71907 - Filtration Preparation										
Blank (ED71907-BLK1)				Prepared: 04/16/07 Analyzed: 04/17/07						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (ED71907-DUP1)	**Source: 7D16035-01**			Prepared: 04/16/07 Analyzed: 04/17/07						
Total Dissolved Solids	6280	10.0	mg/L		6400			1.89	20	
Batch ED71912 - General Preparation (WetChem)										
Blank (ED71912-BLK1)				Prepared & Analyzed: 04/19/07						
Total Alkalinity	ND	2.00	mg/L							
LCS (ED71912-BS1)				Prepared & Analyzed: 04/19/07						
Bicarbonate Alkalinity	172	2.00	mg/L	200		86.0	85-115			
Duplicate (ED71912-DUP1)	**Source: 7D16033-01**			Prepared & Analyzed: 04/19/07						
Total Alkalinity	950	2.00	mg/L		1050			10.0	20	
Reference (ED71912-SRM1)				Prepared & Analyzed: 04/19/07						
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch ED72102 - General Preparation (WetChem)										
Blank (ED72102-BLK1)				Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (ED72102-BS1)				Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	9.66	0.500	mg/L	10.0		96.6	80-120			
Chloride	9.02	0.500	"	10.0		90.2	80-120			

Rice Operating Co.	Project: EME Jct. M-16-1	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 ED72102 - General Preparation (WetChem)										
Calibration Check (ED72102-CCV1)				Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	11.1		mg/L	10.0		111	80-120			
Chloride	8.06		"	10.0		80.6	80-120			
Duplicate (ED72102-DUP1)	**Source: 7D16034-01**			Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	512	25.0	mg/L		493			3.78	20	
Chloride	2890	25.0	"		2870			0.694	20	
Duplicate (ED72102-DUP2)	**Source: 7D18006-01**			Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	121	5.00	mg/L		121			0.00	20	
Chloride	91.2	5.00	"		89.6			1.77	20	
Matrix Spike (ED72102-MS1)	**Source: 7D16034-01**			Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	983	25.0	mg/L	500	493	98.0	80-120			
Matrix Spike (ED72102-MS2)	**Source: 7D18006-01**			Prepared: 04/21/07 Analyzed: 04/23/07						
Sulfate	220	5.00	mg/L	100	121	99.0	80-120			
Chloride	192	5.00	"	100	89.6	102	80-120			
Matrix Spike (ED72102-MS3)	**Source: 7D16034-01**			Prepared: 04/21/07 Analyzed: 04/25/07						
Chloride	4620	50.0	mg/L	1000	2870	175	80-120			M1

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Rice Operating Co.	Project: EME Jct. M-16-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 ED71807 - 6010B/No Digestion										
Blank (ED71807-BLK1)				Prepared & Analyzed: 04/18/07						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (ED71807-CCV1)				Prepared & Analyzed: 04/18/07						
Calcium	2.12		mg/L	2.00		106	85-115			
Magnesium	2.26		"	2.00		113	85-115			
Potassium	1.85		"	2.00		92.5	85-115			
Sodium	1.74		"	2.00		87.0	85-115			
Duplicate (ED71807-DUP1)	**Source: 7D16034-01**			Prepared & Analyzed: 04/18/07						
Calcium	321	20.2	mg/L		332			3.37	20	
Magnesium	257	1.80	"		257			0.00	20	
Potassium	23.8	0.600	"		24.8			4.12	20	
Sodium	1120	10.8	"		1100			1.80	20	

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Rice Operating Co.	Project: EME Jct. M-16-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
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: Brent Barron Date: 4/26/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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

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 e-mail: rozanne@valornet.com

Project Name: EME Junction M-16-1

Project #:

Project Loc: T20S R37E Sec16 M ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 7016035

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl (2) 40 ml glass vials	H2SO4	NaOH	Na2S2O3	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable SW=Surface Water O=Other	Analyze For: TCLP:	TOTAL: TPH: 418.1 8015M 8015B	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 (BTEX+N 8260)	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1			4/11/2007	12:45		3	X		2				1		GW				X	X					X			X				X
02	Monitor Well #2			4/11/2007	11:55		3	X		2				1		GW				X	X					X			X				X
03	Monitor Well #3			4/11/2007	13:40		3	X		2				1		GW				X	X					X			X				X
04	Monitor Well #4			4/11/2007	10:15		3	X		2				1		GW				X	X					X			X				X
05	Monitor Well #5			4/11/2007	11:10		3	X		2				1		GW				X	X					X			X				X

Special Instructions:

Please email to : kpope@riceswd.com matt@riceswd.com rozanne@valornet.com
jpurvis@riceswd.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	4-16-07	6:40	James Johnson	4-16-07	6:40
Relinquished by: James Johnson	4-16-07	1305	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				04-16-07	1305

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: Rice Operating

Date/ Time: 04-16-07 @ 1305

Lab ID # : 7D16035

Initials: JMM

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

CARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 09/06/07
Reporting Date: 09/18/07
Project Owner: NOT GIVEN
Project Name: EME JUNCTION M-16-1
Project Location: T20S-R37E-SEC16 M~LEA COUNTY, NM

Sampling Date: 09/05/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: KS
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO3/L)
ANALYSIS DATE:		09/15/07	09/15/07	09/15/07	09/15/07	09/07/07	09/12/07
H13248-1	MONITOR WELL #1	1996	210	190	21.4	9,750	292
H13248-2	MONITOR WELL #2	2063	333	210	25.2	10,690	224
H13248-3	MONITOR WELL #3	2420	296	246	27.6	12,320	264
H13248-4	MONITOR WELL #4	2301	240	244	23.9	11,980	308
H13248-5	MONITOR WELL #5	1951	249	218	21.6	10,640	248
Quality Control		NR	50.6	50.0	1.91	1425	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	101	100	95.7	101	NR
Relative Percent Difference		NR	< 0.1	6.2	1.6	1.1	NR
METHODS:			SM3500-Ca-D	3500-Mg E	8049	120.1	310.1

LAB NUMBER	SAMPLE ID	Cl- (mg/L)	SO4 (mg/L)	CO3 (mg/L)	HCO3 (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		09/12/07	09/12/07	09/12/07	09/12/07	09/07/07	09/11/07
H13248-1	MONITOR WELL #1	1,939	2,544	0	356	7.18	7,026
H13248-2	MONITOR WELL #2	2,239	2,724	0	273	7.24	7,926
H13248-3	MONITOR WELL #3	2,849	2,661	0	322	7.43	8,908
H13248-4	MONITOR WELL #4	2,599	2,562	0	376	7.51	8,508
H13248-5	MONITOR WELL #5	2,349	2,142	0	303	7.31	7,518
Quality Control		500	25.5	NR	964	6.99	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	102	NR	96.4	99.9	NR
Relative Percent Difference		< 0.1	6.0	NR	6.0	0.4	NR
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Kristin Dyprod
Chemist

9/18/07
Date

H13248 RICE

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 09/06/07
Reporting Date: 09/11/07
Project Number: NOT GIVEN
Project Name: EME JUNCTION M-16-1
Project Location: T20S-R37E-SEC16 M, LEA COUNTY, NM

Sampling Date: 09/05/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: KS
Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		09/07/07	09/07/07	09/07/07	09/07/07
H13248-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H13248-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13248-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
H13248-4	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
H13248-5	MONITOR WELL #5	<0.002	<0.002	<0.002	<0.006
Quality Control		0.107	0.104	0.104	0.317
True Value QC		0.100	0.100	0.100	0.300
% Recovery		107	104	104	106
Relative Percent Difference		1.4	2.1	2.0	1.8

METHOD: EPA SW-846 8021B

Chemist

09/19/07
Date

H13248 RICE

101 East Marland - Hobbs, New Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: RICE Operating Company	BILL TO Company: RICE Operating Company — PO#
Project Manager: Kristin Farris-Pope, Project Scientist	Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#: (505) 393-9174 — Fax#: (505)397-1471
Phone #: (505) 393-9174	Fax #: (505) 397-1471
Project #:	Project Name: EME Junction M-16-1
Project Location: T20S-R37E-Sec16 M ~ Lea County - New Mexico	Sampler Signature: Rozanne Johnson (505)631-9310 rozanne@valornet.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	NaHSO4	H_2SO_4	ICE (1-1Liter HDPE)	NONE	SAMPLING: DATE (2007)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content		Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
H13248-1	Monitor Well #1	G	3	X				2				1		9-5	11:30		X																X	X	X		
-2	Monitor Well #2	G	3	X				2				1		9-5	10:40		X																X	X	X		
-3	Monitor Well #3	G	3	X				2				1		9-5	12:20		X																X	X	X		
-4	Monitor Well #4	G	3	X				2				1		9-5	13:15		X																X	X	X		
-5	Monitor Well #5	G	3	X				2				1		9-5	9:50		X																X	X	X		

Relinquished by: Rozanne Johnson	Date: 9-6-2007	Time: 3:30	Received by: Date: Time: 9/6/07 3:30
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff) Date: Time:

Phone Results		Yes		No
Fax Results		Yes		No Additional Fax Number:

REMARKS:

Email Results to: kpope@riceswd.com, lweinheimer@riceswd.com, rozanne@valornet.com

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Sample Condition: Cool: Yes ☑ / No ☐ — Intact: Yes ☑ / No ☐

CHECKED BY: (Initials) KS

CARDINAL LABORATORIES

PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603
PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 10/15/07
Reporting Date: 10/18/07
Project Number: NOT GIVEN
Project Name: EME JUNCTION M-16-1
Project Location: T20S R37E SEC16 M - LEA COUNTY, NM

Sampling Date: 10/12/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: CK/AB

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		10/15/07	10/15/07	10/15/07	10/15/07
H13504-1	MONITOR WELL #1	<0.001	<0.001	<0.001	<0.003
H13504-2	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H13504-3	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
H13504-4	MONITOR WELL #4	<0.001	<0.001	<0.001	<0.003
H13504-5	MONITOR WELL #5	<0.001	<0.001	<0.001	<0.003
Quality Control		0.102	0.108	0.108	0.332
True Value QC		0.100	0.100	0.100	0.300
% Recovery		102	108	108	111
Relative Percent Difference		0.9	0.8	0.8	1.3

METHOD: EPA SW-846 8021B

Chemist

10/18/07
Date

H13504b Rice

CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 10/15/07
Reporting Date: 10/18/07
Project Number: NOT GIVEN
Project Name: EME JUNCTION M-16-1
Project Location: T20S R37E SEC16 M~LEA COUNTY, NM

Sampling Date: 10/12/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: CK
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity ($mgCaCO_3/L$)
ANALYSIS DATE:		10/17/07	10/16/07	10/16/07	10/17/07	10/16/07	10/16/07
H13504-1	MONITOR WELL #1	1,750	279	171	17.8	9,600	440
H13504-2	MONITOR WELL #2	1,798	359	212	18.1	10,620	328
H13504-3	MONITOR WELL #3	2,332	336	240	24.2	12,210	380
H13504-4	MONITOR WELL #4	2,190	293	246	21.5	11,820	416
H13504-5	MONITOR WELL #5	1,936	303	194	30.5	10,500	352
Quality Control		NR	50.6	50.8	1.94	9,790	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	101	102	97.0	97.9	NR
Relative Percent Difference		NR	5.5	1.6	5.8	0.2	NR
METHODS:			SM3500-Ca-D	3500-Mg E	8049	120.1	310.1

LAB NUMBER	SAMPLE ID	Cl^- (mg/L)	SO_4 (mg/L)	CO_3 (mg/L)	HCO_3 (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		10/17/07	10/17/07	10/16/07	10/16/07	10/16/07	10/15/07
H13504-1	MONITOR WELL #1	1,880	2,055	0	537	7.38	6,951
H13504-2	MONITOR WELL #2	2,160	2,239	0	400	7.34	7,920
H13504-3	MONITOR WELL #3	2,820	2,474	0	464	7.40	8,890
H13504-4	MONITOR WELL #4	2,480	2,518	0	508	7.50	8,547
H13504-5	MONITOR WELL #5	2,260	2,178	0	429	7.29	7,576
Quality Control		500	23.0	NR	988	6.97	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	92.1	NR	98.8	99.6	NR
Relative Percent Difference		< 0.1	1.9	NR	< 0.1	0.3	NR
METHODS:		SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1

Kristin Arrington
Chemist

10/18/07
Date

101 East Marland - Hobbs, New Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name:	BILL TO Company:	PO#
RICE Operating Company	RICE Operating Company	
Project Manager:	**Address:** (Street, City, Zip)	
Kristin Farris-Pope, Project Scientist	122 W Taylor Street ~ Hobbs, New Mexico 88240	
Address: (Street, City, Zip)	**Phone#:**	**Fax#:**
122 W Taylor Street ~ Hobbs, New Mexico 88240	(505) 393-9174	(505)397-1471
Phone #:	**Fax #:**	
(505) 393-9174	(505) 397-1471	
Project #:	**Project Name:**	
	EME Junction M-16-1	
Project Location:	**Sampler Signature:**	Rozanne Johnson (505)631-9310
T20S-R37E-Sec16 M ~ Lea County - New Mexico		rozanne@valornet.com

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY) H13504-	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCL (2 40ml VOA)	HNO_3	$NaHSO_4$	H_2SO_4	ICE (1-1Liter HDPE)	NONE	SAMPLING: DATE (2007)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content		Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
1	Monitor Well #1	G	3	X					2				1		10-12	11:50		X															X	X	X		
2	Monitor Well #2	G	3	X					2				1		10-12	11:00		X															X	X	X		
3	Monitor Well #3	G	3	X					2				1		10-12	12:45		X															X	X	X		
4	Monitor Well #4	G	3	X					2				1		10-12	13:40		X															X	X	X		
5	Monitor Well #5	G	3	X					2				1		10-12	10:10		X															X	X	X		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Rozanne Johnson	10-15-07	11:55			
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff)	Date:	Time:
				10-15-07	11:55

Phone Results		Yes		No	
Fax Results		Yes		No	Additional Fax Number:

REMARKS:

Email Results to: kpope@riceswd.com
lweinheimer@riceswd.com
rozanne@valornet.com

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition: Cool: Yes [X] No [ ] Intact: Yes [X] No [ ]

CHECKED BY: (Initials) CDK