AP - 46

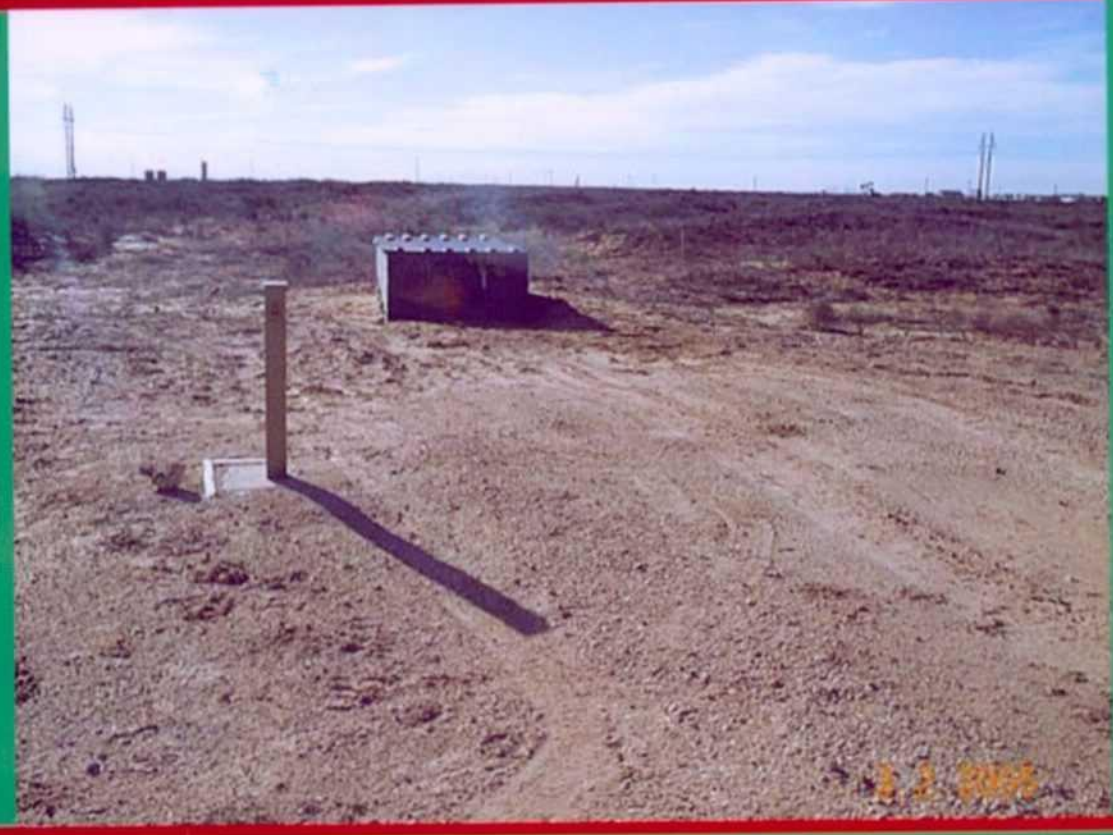
ANNUAL MONITORING REPORT

YEAR(S):

2005

January 9, 2005

2005 Annual Groundwater Monitoring Report



EME K-6 Junction Box Site
T20S, R37E, Section 6, Unit Letter K
Lea County, New Mexico
NMOCD Case # 1R0427-88, AP-46

R. T. Hicks Consultants, Ltd.

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January 9, 2006

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

RE: 2005 ANNUAL MONITORING WELL REPORT
EME K-6 JUNCTION BOX SITE
T20S-R37E-Section 6, Unit Letter k
NMOCD CASE # 1R0427-88

Mr. Price:

R. T. Hicks Consultants, Ltd. takes this opportunity to submit the 2005 Annual Monitoring Well Report for the EME K-6 junction box site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. The Stage 1 Abatement Plan for this site was submitted to the NMOCD on October 14, 2005, and is administratively complete pending the on-going public notice procedures.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me at (423) 638-8740 or Kristin Farris Pope at (505) 393-9174.

Sincerely,

Gilbert J. Van Deventer

Gilbert J. Van Deventer, REM, PG, NMCS
R. T. Hicks Consultants Ltd.

enclosures: Summary table & graphs, well sampling data forms. analytical results

cc: LBG, CDH, KFP, file

TABLE AND GRAPH

Table 1

Summary of Groundwater Sampling Results

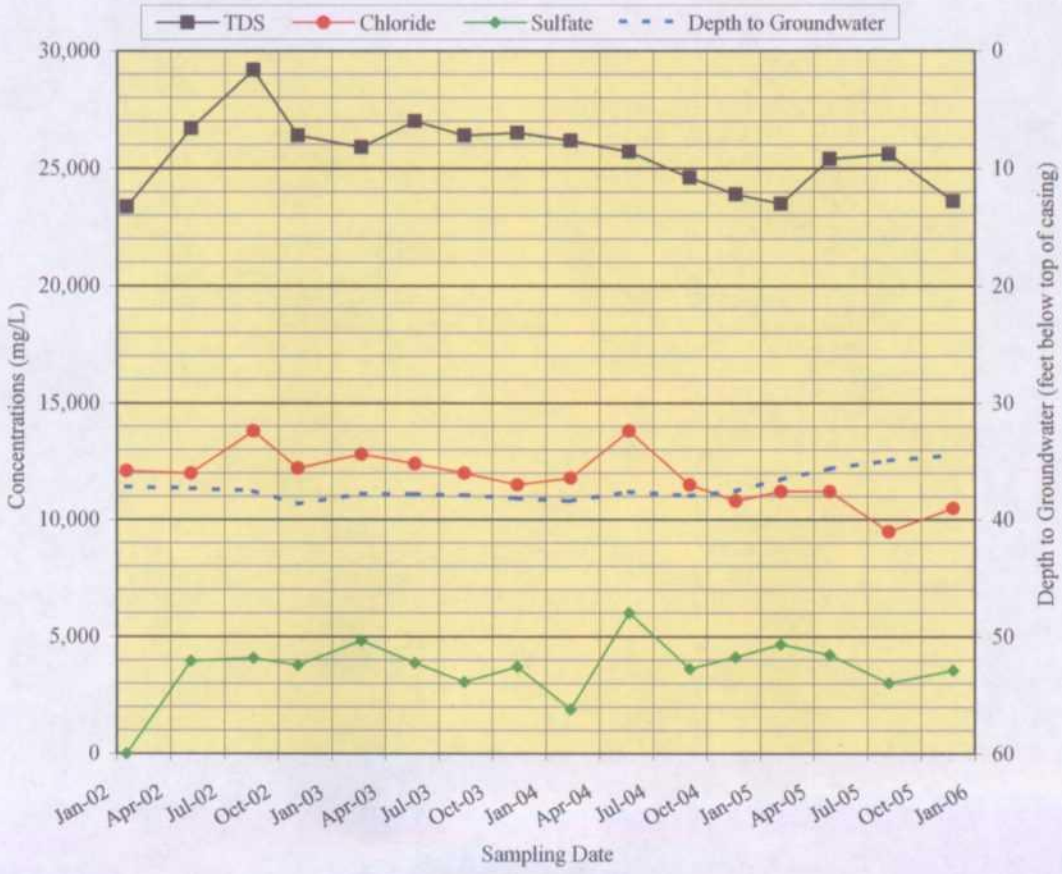
EME K-6 Junction Box Site

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	01/25/02	37.20	**12,096**	---	**23,370**	<0.002	<0.002	0.002	0.006
	05/14/02	37.30	**12,000**	**3,960**	**26,700**	0.001	0.003	<0.001	0.004
	08/28/02	37.52	**13,796**	**4,086**	**29,180**	<0.002	<0.002	0.003	<0.006
	11/11/02	38.65	**12,200**	**3,780**	**26,400**	0.001	0.001	0.001	0.003
	02/27/03	37.78	**12,800**	**4,830**	**25,900**	0.001	0.001	0.001	0.003
	05/29/03	37.80	**12,400**	**3,880**	**27,000**	0.002	0.001	0.001	0.001
	08/21/03	37.90	**12,000**	**3,060**	**26,400**	0.003	<0.001	0.002	0.004
	11/19/03	38.17	**11,500**	**3,720**	**26,500**	0.003	0.001	<0.001	0.001
	02/18/04	38.40	**11,796**	**1,903**	**26,172**	0.003	<0.002	<0.002	<0.006
	05/27/04	37.60	**13,800**	**6,020**	**25,700**	0.001	<0.001	<0.001	0.001
	09/07/04	37.96	**11,500**	**3,640**	**24,600**	0.003	<0.001	0.001	0.003
	11/24/04	37.53	**10,800**	**4,140**	**23,900**	0.005	0.004	0.005	0.015
	02/09/05	36.54	**11,200**	**4,670**	**23,500**	0.003	<0.001	<0.001	0.002
	05/03/05	35.60	**11,200**	**4,230**	**25,400**	0.003	0.001	0.002	0.001
	08/11/05	34.89	**9,480**	**3,030**	**25,600**	0.002	0.001	0.003	0.002
	11/28/05	34.44	**10,500**	**3,560**	**23,600**	0.004	<0.001	0.004	0.002
		WQCC Standards	250	600	1000	0.01	0.75	0.75	0.62

Total Dissolved Soilds (TDS), chloride, sulfate, and BTEX concentrations listed in milligrams per liter (mg/L)
Analyses performed by Environmental Lab of Texas (Odessa TX) or Cardinal Laboratories (Hobbs NM).
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.

Figure 1

TDS, Chloride, Sulfate, and Depth to Groundwater Values Versus Time Graph (MW-1)



WELL SAMPLE DATA SHEETS

TRIDENT ENVIRONMENTAL

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: MW-1

SYSTEM: EME System DATE: February 9, 2005

SITE LOCATION: K-6 Junction Box Site SAMPLER: Gil Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☑ Alconox ☑ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 40.45 Feet
DEPTH TO WATER: 36.54 Feet
HEIGHT OF WATER COLUMN: 3.91 Feet
WELL DIAMETER: 2.0 Inch

2 Minimum gallons to purge 3 well volumes
4 Actual Gallons purged

TIME	VOLUME PURGED (GAL)	TEMP. °C	COND. mS/cm	pH			PHYSICAL APPEARANCE AND REMARKS
17:08	0	---	---	---			Began purging.
17:10	1	18.3	>20	6.63			
17:12	2	18.5	>20	6.60			
17:14	3	18.0	>20	6.60			
17:17	4	18.3	>20	6.60			
						17:20	Samples collected
0:09	:Total Time (hr:min)		4	:Total Vol (gal)		0.44	:Average Flow Rate (gal/min)

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

TRIDENT ENVIRONMENTAL

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: MW-1

SYSTEM: EME System DATE: May 3, 2005

SITE LOCATION: K-6 Junction Box Site SAMPLER: Gil Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☑ Alconox ☑ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 40.45 Feet
DEPTH TO WATER: 35.60 Feet
HEIGHT OF WATER COLUMN: 4.85 Feet
WELL DIAMETER: 2.0 Inch

2 Minimum gallons to purge 3 well volumes
4 Actual Gallons purged

TIME	VOLUME PURGED (GAL)	TEMP. °C	COND. mS/cm	pH			PHYSICAL APPEARANCE AND REMARKS
12:00	0	—	—	—			Began purging.
12:02	1	17.3	27.04	6.37			
12:06	2	17.6	27.22	6.38			
12:13	3	17.4	23.23	5.64			
12:20	4	17.4	28.32	5.77			
						12:25	Samples collected
0:20	:Total Time (hr:min)		4	:Total Vol (gal)		0.20	:Average Flow Rate (gal/min)

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

TRIDENT ENVIRONMENTAL

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: MW-1

SYSTEM: EME System DATE: August 11, 2005

SITE LOCATION: K-6 Junction Box Site SAMPLER: Patrick Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☑ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☑ Alconox ☑ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 40.45 Feet
DEPTH TO WATER: 34.89 Feet
HEIGHT OF WATER COLUMN: 5.56 Feet
WELL DIAMETER: 2.0 Inch

3 Minimum gallons to purge 3 well volumes
4 Actual Gallons purged

TIME	VOLUME PURGED (GAL)	TEMP. °F	COND. mS/cm	pH			PHYSICAL APPEARANCE AND REMARKS
16:02	0	---	---	---			Began purging.
16:07	1	75.8	33.80	7.78			
16:11	2	70.9	35.68	7.82			
16:16	3	69.9	37.60	7.75			
16:20	4	70.7	37.84	7.76			
						16:25	Samples collected
0:18	:Total Time (hr:min)		4	:Total Vol (gal)		0.22	:Average Flow Rate (gal/min)

COMMENTS:

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

WELL SAMPLING DATA FORM

CLIENT: RICE *Operating Company* WELL ID: MW-1

SYSTEM: EME DATE: November 28, 2005

SITE LOCATION: K-6 Junction Box Site SAMPLER: Rozanne Johnson

PURGING METHOD: ☑ Hand Bailed ☐ Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☑ SWD Disposal Facility

TOTAL DEPTH OF WELL: 40.45 Feet

DEPTH TO WATER: 34.44 Feet

HEIGHT OF WATER COLUMN: 6.01 Feet 2 In. Well Diameter

WELL VOLUME: 1.0 Gal. 4 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:10	18.6	33.43	6.86	Strong Sour Septic Smell / Clear to Gray Color
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)
0:00 :Total Time (hr:min)		:Average Flow Rate (gal/min)		

Comments

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions and TDS analysis.

LABORATORY REPORTS

AND

CHAIN OF CUSTODY DOCUMENTATION

(This information provided on compact disk)