

**3R - 194**

# **REPORTS**

**DATE:**

**3/1999**

**JAQUEZ COM. C #1 AND JAQUEZ COM. E #1**  
**Annual Report for Soil and Groundwater Remediation**

**March 1999**

**Prepared For**

**EL PASO FIELD SERVICES  
COMPANY, FARMINGTON,  
NEW MEXICO**

**Project 17444**



**4000 Monroe Road  
Farmington, New Mexico 87401  
(505) 326-2262**

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## **1. INTRODUCTION**

At the request of El Paso Field Services Company (EPFS), Philip Services Corporation (Philip) has prepared the following annual report and recommendations for soil and groundwater remediation at the Jaquez Com. C #1 and Jaquez Com. E #1 meter sites.

The Jaquez Com. C #1 and Jaquez Com. E #1 meter sites are currently owned and operated by EPFS. The meter sites are located in Section 6, Township 29N, Range 9W, in San Juan County, New Mexico, near Blanco, New Mexico. The two meter stations are located within 40 feet of one another on the same site location. Past practices included discharge of pipeline liquids into earthen pit(s) at the site. Listed below is a brief description of activities at the site:

- Late 1992 - Landowner expressed concern regarding potential hydrocarbon contamination in a garden area near the meter site location.
- March 1993 - Comprehensive soil and groundwater investigation performed on meter site location and nearby garden area.
- June 1993 - EPNG submits a remedial plan to NMOCD.
- July 1993 - NMOCD approves the remedial plan.
- August 1993 - Remediation activities initiated.
- September 1993 - Remediation activities completed.
- September 1993 - Monitoring wells R-1 through R-5 and M-1 through M-5 were installed north and south of Citizen's Ditch. Initial sampling for benzene, toluene, ethylbenzene, and xylene (BTEX) indicated monitoring wells R-1, R-2, R-4, M-3, and M-4 were above New Mexico Water Quality Control Commission (NMWQCC) standards. Monitoring wells at the site were initially sampled monthly and are now sampled quarterly.
- October 1993 to October 1996 - Free phase hydrocarbons were observed in monitor wells R-1 and R-2 during the months of seasonally low groundwater levels (i.e., January through May). Passive skimmer systems were installed to remove the free phase hydrocarbons during periods of free phase hydrocarbon accumulation.
- November 1996 - A pumping test was initiated to determine if light non-aqueous phase liquids (LNAPL) could be removed during high seasonal groundwater by depressing the water table in and around R-1 and R-2.

December 1996 - Philip injected approximately 500 gallons of urea nitrate in water into the passive vent system and installed magnesium peroxide socks in monitoring wells M-3 and M-4 to supply oxygen to enhance natural biodegradation of hydrocarbons in groundwater.

- January, 1997 - Philip installed a belt skimmer in R-2 to remove free phase hydrocarbons.
- February, 1997 - Philip installed a belt skimmer in R-1 to remove free phase hydrocarbons.
- November, 1997 - Philip installed two temporary monitoring wells inside the excavated area north of R-1 to determine if free phase hydrocarbons could be recovered during high groundwater season.
- June, 1997 - Belt skimmer free phase hydrocarbon recovery system shut down due to seasonal reduction of product thickness related to local irrigation.
- January, 1998 - Philip restarts belt skimmer in R-1 and R-2.
- April, 1998 - Belt skimmer free phase hydrocarbon recovery system shut down due to seasonal reduction of product thickness related to local irrigation.
- July, 1998 - Philip injected approximately 500 gallons of urea nitrate in water into the passive vent system and installed magnesium peroxide socks in monitoring wells M-3, M-4, R-3 and R-4 to supply oxygen to enhance natural biodegradation of hydrocarbons in groundwater.
- November, 1998 - EPFS conducts investigation of possible hydrocarbon seep of groundwater into the surface water of an arroyo to the south of the property. No hydrocarbons are found during this investigation.

## **2. 1998 ACTIVITIES**

In 1998 activities included the following:

- Belt skimming systems were installed in recovery wells R-1 and R-2, and product recovery was initiated.
- Quarterly groundwater sampling of the following monitor wells was conducted during the first two quarters of 1998: R-3; R-4; R-5; M-1; M-2; M-3; M-4; and, M-5.
- Quarterly groundwater samples were collected during the last two quarters of 1998 from monitor wells M-3 and M-4.
- Oxygen was added to the groundwater through the use of ORC<sup>®</sup> magnesium peroxide socks in monitoring wells MW-3, MW-4, R-3 and R-4.

- EPFS conducts an investigation of a potential hydrocarbon seep at the request of the OCD and a local landowner. The landowner found a substance floating on surface water in a nearby arroyo and requested that EPFS investigate. No hydrocarbon odor was present at the site and a surface water sample was collected for laboratory analysis of BTEX and TPH. The sample results indicated all hydrocarbon constituents in the surface water were below detection limits (Appendix C).

### **2.1 Belt Skimmer Operation and Product Removal**

The belt skimming system operating in R-1 and R-2 is housed in a standard lockable meter house and consists of an intrinsically safe electric motor which turns a 7/8-inch hydrophobic urethane belt suspended in the well by a weighted pulley. With each revolution, hydrocarbons are collected on the belt, brought to the surface, and then removed by specially designed wiper blades. The hydrocarbons are then deposited into the unit's collection box, where they drain by gravity into a 55-gallon drum. The drum is fitted with a high-level control switch designed to shut the system off when the drum is full. The drum and control switch are housed in a secondary containment system to contain any potential spills. Once a week, Philip or EPFS personnel visits the site and checks each system for proper operation, product, and water levels in the recovery wells and surrounding monitoring wells. This information is documented in a project-specific field notebook. The locations of recovery wells R-1 and R-2 as well as other site features are presented in Figure 1.

On February 14, 1997, the belt skimming system in R-2 was installed and product removal initiated. Product removal continued sporadically until May 28, 1997 when the skimmer was shut down for the season. From February 14, 1997 to May 28, 1997, approximately 11.48 gallons of free phase hydrocarbons were removed from R-2.

On January 14, 1998, 1.91 feet of free phase hydrocarbons had returned to recovery well R-2 and product removal was again initiated. Again product removal continued intermittently until April 15, 1998 when the skimmer was shut down for the season. Approximately 15.39 gallons of free phase hydrocarbons have been recovered from R-2 since the belt skimming system was installed. No free phase hydrocarbons have been recovered from R-2 in 1999.

On April 4, 1997, free phase hydrocarbon removal was initiated in recovery well R-1 using the belt skimming system. Product removal continued until June 27, 1997, when product disappeared from the well for the season. From April 4, 1997 to June 27, 1997, approximately 99.92 gallons of free phase hydrocarbons were recovered from recovery well R-1.

On January 14, 1998, 2.08 feet of free phase hydrocarbons had returned to R-1 and product removal was reinitiated. From January 14, 1998 to March 4, 1998, approximately

99.04 gallons of free phase hydrocarbons were recovered from R-1. Approximately 264.03 gallons of free phase hydrocarbons have been recovered from R-1 since the belt skimming system was installed. No free phase hydrocarbons have been recovered from R-1 in 1999.

All weekly product thickness, free phase hydrocarbon recovery information and groundwater elevations are presented in Table 1. Graphic displays for the thickness of free phase hydrocarbons vs. time for R-1 and R-2 is presented in Appendix A. Graphic displays of free phase hydrocarbon elevations and groundwater elevations vs. time are presented in Appendix B.

As in previous years, product accumulation decreased dramatically in the spring. Also as in previous years, free phase hydrocarbons returned to R-1 and R-2 in significant volumes in the month of January. Groundwater elevation maps, showing quarterly changes in groundwater elevation, are included in Figures 1, 2, 3 and 4.

## **2.2 Quarterly Sampling**

Groundwater samples are not collected from wells when LNAPL are present, which is the case for recovery wells R-1 and R-2. Groundwater samples were collected from eight monitor wells, R-3 through R-5 and M-1 through M-5, and analyzed for BTEX during the first two quarters of 1998. Currently, all eight monitoring wells are sampled annually for polynuclear aromatic hydrocarbons (PAH's) BTEX and nitrate. Monitor wells M-3 and M-4 are also sampled quarterly for BTEX and nitrates.

Nitrate sampling has been performed on the monitor wells to help determine the effect of nutrients injected into the passive venting system on the south side of Citizen's Ditch (see Oxygenate Socks Below). The laboratory reports are included in Appendix C and a summary of all BTEX, nitrate and PAH analysis is included in Table 2.

## **2.3 Oxygenate Socks and Nutrient Injection**

On December 19, 1996, Philip injected approximately 500 gallons of urea nitrate-water solution into the passive vent system on the south side of Citizen's Ditch. The nutrient solution consisted of seven parts potable water to one part urea nitrate. The solution was mixed thoroughly in a 500-gallon poly tank and pumped directly into the vent stacks of the passive vent system. ORC<sup>®</sup> magnesium peroxide socks were then installed in monitoring wells M-3 and M-4 to supply oxygen to enhance natural biodegradation of hydrocarbons in groundwater.

On July 8, 1998, Philip injected approximately 500 gallons of urea nitrate-water solution into the passive vent system and installed magnesium peroxide socks in monitoring wells

M-3, M-4, R-3 and R-4 to supply oxygen to enhance natural biodegradation of hydrocarbons in groundwater.

The socks continue to be used in monitoring wells M-3, M-4, R-3 and R-4. The socks are removed 30 days prior to sample collection and are reinstalled after sampling is complete. Following nutrient injection, nitrate monitoring was initiated on a quarterly basis as discussed above. Nitrate analysis showed elevated nitrate levels in M-3 and M-4 for three quarters after injection. Nitrate levels have declined steadily and are now below detection limits in both M-3 and M-4.

### **3. CONCLUSIONS**

#### **Garden Area South of Citizen's Ditch**

BTEX concentrations remain below NMWQCC groundwater standards in monitor wells M-1, M-2, M-3 and M-5. Monitor well M-4 shows fluctuating benzene levels that remain above NMWQCC groundwater standards, although the levels often decrease significantly when the water table is high. Toluene, ethyl-benzene and total xylenes concentrations remain below NMWQCC groundwater standards. Since the installation of the oxygenate socks and the injection of nutrients into the passive venting system, monitoring well M-3 has been below NMWQCC standards for BTEX in groundwater for four out of the last five quarters sampled.

#### **Meter Site Location North of Citizen's Ditch**

Free phase hydrocarbons continue to accumulate in R-1 and R-2 during periods of low groundwater. As in previous years, product accumulation decreases rapidly with the beginning of the irrigation season and increased flow in Citizen's Ditch. Approximately 264.03 gallons of free phase hydrocarbons have been removed from recovery well R-1 since the belt skimming system has been in place. Significant amounts of free phase hydrocarbons continue to be removed from R-1. Dissolved phase hydrocarbons are decreasing in R-3.

Approximately 15.39 gallons of free phase hydrocarbons have been removed from recovery well R-2 since the belt skimming system has been in place. Small amounts of free phase hydrocarbons continue to be removed from R-2. In 1998, only 3.91 gallons of free phase hydrocarbons have been recovered from R-2, indicating a significant reduction in free phase hydrocarbons in the area of R-2.

### **4. RECOMMENDATIONS**

Based on the current site activities, Philip recommends the following:

- Continue removing free phase hydrocarbons from R-1 and R-2 whenever present.
- Re-inject the passive venting system south of Citizen's Ditch with urea nitrate and replace the existing ORC<sup>®</sup> magnesium peroxide socks with new socks in M-3, M-4, R-3 and R-4 to stimulate biodegradation.
- Sample monitor wells R-3 and R-4 annually. Quarterly sampling in R-4 should resume when BTEX values are below NMWQCC groundwater standards.
- Sample wells M-1, M-2, M-5, and R-5 annually, since BTEX levels in these wells have remained below standards since sampling was initiated.
- Continue sampling monitoring wells M-3 and M-4 quarterly for BTEX and nitrates.
- Recovery wells R-1 and R-2 will not be sampled until free phase hydrocarbons have been removed.
- At the conclusion of the low groundwater season, evaluate the feasibility of using vent sparge technology to continue groundwater remediation throughout the year.
- Collect monthly groundwater elevation data at each well.

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**Table 1 - Product Recovery Data**

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**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-1	02/07/97	19.97	17.55	2.42	0.00	99.07	77.24	79.66	Prior to Skimmer Installation
R-1	02/19/97	20.16	17.68	2.48	0.00	99.07	77.05	79.53	Prior to Skimmer Installation
R-1	02/26/97	20.17	17.64	2.53	0.00	99.07	77.04	79.57	Prior to Skimmer Installation
R-1	03/05/97	20.18	17.83	2.35	0.00	99.07	77.03	79.38	Prior to Skimmer Installation
R-1	03/12/97	20.28	17.81	2.47	0.00	99.07	76.93	79.40	Prior to Skimmer Installation
R-1	03/17/97	20.61	18.22	2.39	0.00	99.07	76.60	78.99	Prior to Skimmer Installation
R-1	04/03/97	20.85	18.43	2.42	0.00	99.07	76.36	78.78	Prior to Skimmer Installation
R-1	04/04/97	20.81	18.43	2.38	0.00	99.07	76.40	78.78	Start up of skimmer
R-1	04/09/97	20.40	18.23	2.17	13.01	99.07	76.81	78.98	Increased timer to 24 hrs. 4/10/97
R-1	04/16/97	20.49	18.81	1.68	38.99	99.07	76.72	78.40	Will leave skimmer set to run 24 hours per day
R-1	04/23/97	20.25	18.70	1.55	62.90	99.07	76.96	78.51	Running 24 hours per day
R-1	05/01/97	17.56	17.53	0.03	86.81	99.07	79.65	79.68	Set Skimmer to run 12 hours per day
R-1	05/07/97	16.26	16.15	0.11	90.74	99.07	80.95	81.06	Still running 12 hours per day
R-1	05/13/97	16.14	16.13	0.01	93.80	99.07	81.07	81.08	Skimmer running before measurements taken
R-1	05/21/97	16.48	16.41	0.07	96.29	99.07	80.73	80.80	Running 12 hours per day
R-1	05/28/97	16.68	16.63	0.05	99.54	99.07	80.53	80.58	Running 12 hours per day
R-1	06/04/97	16.55	16.55	0.00	99.54	99.07	80.66	80.66	Shut system down
R-1	06/11/97	16.44	16.24	0.00	N/A	99.07	80.77	80.97	Restart system
R-1	06/18/97	16.57	16.57	0.00	99.92	99.07	80.64	80.64	Shut system down
R-1	06/27/97	16.38	16.35	0.03	N/A	99.07	80.83	80.86	Leave system shut down
R-1	07/02/97	16.25	16.22	0.03	N/A	99.07	80.96	80.99	Leave system shut down
R-1	07/09/97	15.69	15.66	0.03	N/A	99.07	81.52	81.55	Leave system shut down for the season
R-1	10/30/97	17.49	17.39	0.10	N/A	99.07	79.72	79.82	Temporary well installation
R-1	11/04/97	17.64	17.56	0.08	N/A	99.07	79.57	79.65	Temporary well installation
R-1	11/14/97	16.33	16.23	0.10	N/A	99.07	80.88	80.98	Temporary well installation
R-1	11/21/97	16.63	16.55	0.08	N/A	99.07	80.58	80.66	Temporary well installation
R-1	11/25/97	16.92	16.86	0.06	N/A	99.07	80.29	80.35	Temporary well installation
R-1	12/16/97	17.81	17.71	0.10	N/A	99.07	79.40	79.50	
R-1	01/14/98	19.79	17.71	2.08	N/A	99.07	77.42	79.50	Skimmer startup, running 24 hrs/day
R-1	01/21/98	19.73	17.97	1.76	105.47	99.07	77.48	79.24	Running 24 hrs

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-1	01/28/98	18.59	18.40	0.19	116.18	99.07	78.62	78.81	Adjust to run 12 hrs / Day
R-1	02/05/98	19.51	18.58	0.93	126.86	99.07	77.70	78.63	Adjust to run 24 hrs/ Day
R-1	02/11/98	19.15	18.73	0.42	148.48	99.07	78.06	78.48	Adjust to run 12 hrs/ Day, Ditch empty
R-1	02/19/98	19.98	18.82	1.16	164.35	99.07	77.23	78.39	Adjust to run 24 hrs/ Day, Ditch empty
R-1	02/25/98	19.25	19.19	0.06	185.77	99.07	77.96	78.02	Adjust to run 12 hrs/ Day, Ditch empty
R-1	03/04/98	19.99	19.24	0.75	198.98	99.07	77.22	77.97	Adjust to run 24 hrs/ Day, Ditch empty
R-1	03/11/98	19.52	19.32	0.20	207.97	99.07	77.69	77.89	Adjust to run 12 hrs/ Day, Ditch empty
R-1	03/18/98	19.94	19.54	0.40	224.24	99.07	77.27	77.67	Adjust to run 24 hrs/ Day, Ditch empty
R-1	03/25/98	19.08	19.03	0.05	248.16	99.07	78.13	78.18	Adjust to run 12 hrs/ day, Ditch empty
R-1	04/02/98	17.31	17.31	0.00	258.30	99.07	79.90	79.90	Shut skimmer down, Ditch running again
R-1	04/08/98	16.77	16.61	0.16	258.30	99.07	80.44	80.60	Adjust to run 4 hrs/ Day, Ditch running full
R-1	04/15/98	16.42	16.42	0.00	264.03	99.07	80.79	80.79	Shut skimmer down, Ditch running full
R-1	04/23/98	16.02	15.87	0.15	264.03	99.07	81.19	81.34	Adjust to run 4 hrs/ Day, Ditch running full
R-1	04/29/98	16.04	16.04	0.00	264.03	99.07	81.17	81.17	Shut system down, ditch running full
R-1	05/08/98	15.42	15.32	0.10	264.03	99.07	81.79	81.89	Leave system shut down, Ditch still running
R-1	05/14/98	14.62	14.60	0.02	264.03	99.07	82.59	82.61	Leave system shut down, Ditch still running
R-1	05/20/98	14.82	14.76	0.06	264.03	99.07	82.39	82.45	Leave system shut down, Ditch still running
R-1	05/27/98	15.24	15.16	0.08	264.03	99.07	81.97	82.05	Leave system shut down, Ditch still running
R-1	06/29/98	14.92	14.84	0.08	264.03	99.07	82.29	82.37	Leave system shut down, Ditch still running
R-1	10/08/98	14.96	14.89	0.07	264.03	99.07	82.25	82.32	Leave system shut down, Ditch still running
R-1	11/11/98	15.00	15.00	0.00	264.03	99.07	82.21	82.21	Leave system shut down, Ditch still running
R-1	11/24/98	15.67	15.49	0.18	264.03	99.07	81.54	81.72	Leave system shut down, Ditch still running
R-1	12/01/98	15.78	15.58	0.20	264.03	99.07	81.43	81.63	Leave system shut down, Ditch still running
R-1	12/14/98	16.08	16.01	0.07	264.03	99.07	81.13	81.20	Leave system shut down, Ditch still running
R-1	12/20/98	16.61	16.45	0.16	264.03	99.07	80.60	80.76	Leave system shut down, Ditch still running
R-1	01/05/99	16.54	16.38	0.16	264.03	99.07	80.67	80.83	Leave system shut down, Ditch still running
R-1	01/11/99	16.52	16.42	0.10	264.03	99.07	80.69	80.79	Leave system shut down, Ditch still running
R-1	02/24/99	16.75	16.66	0.09	264.03	99.07	80.46	80.55	Took water level & product level
				0.00					
R-2	02/07/97	18.66	16.52	2.14	0.00	98.05	77.49	79.63	

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-2	02/14/97	18.76	16.65	2.11	0.00	98.05	77.39	79.50	Start skimmer, running 12 hours/day
R-2	02/15/97	17.28	17.22	0.06	3.06	98.05	78.87	78.93	
R-2	02/18/97	17.33	17.14	0.19	4.78	98.05	78.82	79.01	Adjust to run 10 hours/day
R-2	02/26/97	17.31	17.20	0.11	7.46	98.05	78.84	78.95	
R-2	03/05/97	17.39	17.33	0.06	7.46	98.05	78.76	78.82	
R-2	03/12/97	17.35	17.34	0.01	9.95	98.05	78.80	78.81	
R-2	03/17/97	16.84	16.83	0.01	10.14	98.05	79.31	79.32	
R-2	04/03/97	18.00	18.00	0.00	10.71	98.05	78.15	78.15	No measurable product, shut down to recover
R-2	04/09/97	17.67	17.67	0.00	0.00	98.05	78.48	78.48	Will leave shut down until product returns
R-2	04/16/97	18.12	18.12	0.00	0.00	98.05	78.03	78.03	No measurable product
R-2	04/23/97	18.01	18.01	0.00	0.00	98.05	78.14	78.14	No measurable product
R-2	05/01/97	16.75	16.28	0.47	0.00	98.05	79.40	79.87	Reactivate Skimmer to run 10 hours/day
R-2	05/07/97	14.89	14.89	0.00	11.48	98.05	81.26	81.26	No measurable product. Shut system down
R-2	05/13/97	14.94	14.93	0.01	0.00	98.05	81.21	81.22	Will leave skimmer shut down
R-2	05/21/97	15.28	15.24	0.04	0.00	98.05	80.87	80.91	Reactivate skimmer to run 10 hours per day
R-2	05/28/97	15.48	15.48	0.00	39.57 (water)	98.05	80.67	80.67	No measurable product. Shut system down
R-2	06/04/97	15.37	15.37	0.00	N/A	98.05	80.78	80.78	Shut system down
R-2	06/11/97	15.12	15.11	0.01	N/A	98.05	81.03	81.04	Leave system shut down
R-2	06/18/97	15.41	15.37	0.04	N/A	98.05	80.74	80.78	Leave system shut down
R-2	06/27/97	15.18	15.18	0.00	N/A	98.05	80.97	80.97	Leave system shut down
R-2	07/02/97	15.08	15.06	0.02	N/A	98.05	81.07	81.09	Leave system shut down
R-2	07/09/97	14.45	14.45	0.00	N/A	98.05	81.70	81.70	Leave system shut down for the season
R-2	10/30/97	16.47	16.25	0.22	N/A	98.05	79.68	79.90	Temporary well installation
R-2	11/04/97	16.64	16.43	0.21	N/A	98.05	79.51	79.72	Temporary well installation
R-2	11/14/97	15.14	15.06	0.08	N/A	98.05	81.01	81.09	Temporary well installation
R-2	11/21/97	15.58	15.39	0.19	N/A	98.05	80.57	80.76	Temporary well installation
R-2	11/25/97	15.90	15.69	0.21	N/A	98.05	80.25	80.46	Temporary well installation
R-2	12/16/97	16.89	16.54	0.35	N/A	98.05	79.26	79.61	
R-2	01/14/98	18.58	16.67	1.91	N/A	98.05	77.57	79.48	Skimmer startup, running 12 hrs/day
R-2	01/21/98	17.30	17.30	0.00	14.92	98.05	78.85	78.85	No measurable product, shut down to recover

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-2	01/28/98	17.48	17.30	0.18	0.00	98.05	78.67	78.85	Leave system shut down
R-2	02/05/98	17.83	17.71	0.12	0.00	98.05	78.32	78.44	Leave system shut down
R-2	02/11/98	17.86	17.74	0.12	0.00	98.05	78.29	78.41	Leave system shut down, Ditch empty
R-2	02/19/98	18.13	18.02	0.11	0.00	98.05	78.02	78.13	Leave system shut down, Ditch empty
R-2	02/25/98	19.25	19.19	0.06	0.00	98.05	76.90	76.96	Leave system shut down, Ditch empty
R-2	03/04/98	18.48	18.31	0.17	0.00	98.05	77.67	77.84	Leave system shut down, Ditch empty
R-2	03/11/98	18.40	18.26	0.14	0.00	98.05	77.75	77.89	Leave system shut down, Ditch empty
R-2	03/18/98	18.07	17.99	0.08	0.00	98.05	78.08	78.16	Leave system shut down, Ditch empty
R-2	03/25/98	18.02	17.94	0.08	0.00	98.05	78.13	78.21	Leave system shut down, Ditch empty
R-2	04/02/98	16.28	15.92	0.36	0.00	98.05	79.87	80.23	Leave system shut down, Ditch running
R-2	04/08/98	15.64	15.30	0.34	0.00	98.05	80.51	80.85	Turn system on, running 4 hrs/ day, Ditch full
R-2	04/15/98	15.30	15.30	0.00	15.39	98.05	80.85	80.85	Shut system down, Ditch running full
R-2	04/23/98	14.70	14.70	0.00	15.39	98.05	81.45	81.45	Leave system shut down, Ditch running
R-2	04/29/98	14.83	14.83	0.00	15.39	98.05	81.32	81.32	Leave system shut down, Ditch running
R-2	05/08/98	14.13	14.13	0.00	15.39	98.05	82.02	82.02	Leave system shut down, Ditch running
R-2	05/14/98	13.40	13.40	0.00	15.39	98.05	82.75	82.75	Leave system shut down, Ditch running
R-2	05/20/98	13.58	13.58	0.00	15.39	98.05	82.57	82.57	Leave system shut down, Ditch running
R-2	05/27/98	14.00	14.00	0.00	15.39	98.05	82.15	82.15	Leave system shut down, Ditch running
R-2	06/29/98	13.67	13.67	0.00	15.39	98.05	82.48	82.48	Leave system shut down, Ditch running
R-2	10/08/98	13.79	13.79	0.00	15.39	98.05	82.36	82.36	Leave system shut down, Ditch running
R-2	11/11/98	13.79	13.79	0.00	15.39	98.05	82.36	82.36	Leave system shut down, Ditch running
R-2	11/24/98	14.01	14.01	0.00	15.39	98.05	82.14	82.14	Leave system shut down, Ditch running
R-2	12/01/98	14.51	14.51	0.00	15.39	98.05	81.64	81.64	Leave system shut down, Ditch running
R-2	12/14/98	14.98	14.93	0.05	15.39	98.05	81.17	81.22	Leave system shut down, Ditch running
R-2	12/20/98	15.42	15.35	0.07	15.39	98.05	80.73	80.80	Leave system shut down, Ditch running
R-2	01/05/99	15.35	15.29	0.06	15.39	98.05	80.80	80.86	Leave system shut down, Ditch running
R-2	01/11/99	15.38	15.35	0.03	15.39	98.05	80.77	80.80	Leave system shut down, Ditch running
R-2	02/24/99	15.61	15.54	0.07	15.39	98.05	80.54	80.61	Took water level & product level
R-3	02/19/97	16.29	N/A	N/A	N/A	99.29	83.00	N/A	

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-3	02/26/97	16.24	N/A	N/A	N/A	99.29	83.05	N/A	
R-3	03/05/97	16.36	N/A	N/A	N/A	99.29	82.93	N/A	
R-3	03/12/97	16.37	N/A	N/A	N/A	99.29	82.92	N/A	
R-3	03/17/97	16.81	N/A	N/A	N/A	99.29	82.48	N/A	
R-3	04/09/97	16.75	N/A	N/A	N/A	99.29	82.54	N/A	
R-3	04/16/97	17.22	N/A	N/A	N/A	99.29	82.07	N/A	
R-3	04/23/97	17.11	N/A	N/A	N/A	99.29	82.18	N/A	
R-3	05/01/97	15.43	N/A	N/A	N/A	99.29	83.86	N/A	
R-3	05/07/97	13.94	N/A	N/A	N/A	99.29	85.35	N/A	
R-3	05/13/97	13.96	N/A	N/A	N/A	99.29	85.33	N/A	
R-3	05/21/97	14.26	N/A	N/A	N/A	99.29	85.03	N/A	
R-3	05/28/97	14.48	N/A	N/A	N/A	99.29	84.81	N/A	
R-3	06/04/97	14.34	N/A	N/A	N/A	99.29	84.95	N/A	
R-3	06/11/97	14.13	N/A	N/A	N/A	99.29	85.16	N/A	
R-3	06/18/97	14.33	N/A	N/A	N/A	99.29	84.96	N/A	
R-3	06/27/97	14.17	N/A	N/A	N/A	99.29	85.12	N/A	
R-3	07/02/97	14.02	N/A	N/A	N/A	99.29	85.27	N/A	
R-3	07/09/97	14.02	N/A	N/A	N/A	99.29	85.27	N/A	
R-3	08/21/97	13.41	N/A	N/A	N/A	99.29	85.88	N/A	
R-3	11/10/97	14.87	N/A	N/A	N/A	99.29	84.42	N/A	
R-3	01/21/98	16.34	N/A	N/A	N/A	99.29	82.95	N/A	
R-3	01/28/98	16.38	N/A	N/A	N/A	99.29	82.91	N/A	
R-3	02/05/98	16.20	N/A	N/A	N/A	99.29	83.09	N/A	
R-3	02/11/98	16.84	N/A	N/A	N/A	99.29	82.45	N/A	Ditch empty
R-3	02/19/98	17.16	N/A	N/A	N/A	99.29	82.13	N/A	Ditch empty
R-3	02/25/98	17.26	N/A	N/A	N/A	99.29	82.03	N/A	Ditch empty
R-3	03/04/98	17.46	N/A	N/A	N/A	99.29	81.83	N/A	Ditch empty
R-3	03/11/98	17.38	N/A	N/A	N/A	99.29	81.91	N/A	Ditch empty
R-3	03/18/98	17.06	N/A	N/A	N/A	99.29	82.23	N/A	Ditch empty
R-3	03/25/98	17.02	N/A	N/A	N/A	99.29	82.27	N/A	Ditch empty

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-3	04/02/98	15.06	N/A	N/A	N/A	99.29	84.23	N/A	Ditch running
R-3	04/08/98	14.42	N/A	N/A	N/A	99.29	84.87	N/A	Ditch running
R-3	04/15/98	14.19	N/A	N/A	N/A	99.29	85.10	N/A	Ditch running
R-3	04/23/98	13.66	N/A	N/A	N/A	99.29	85.63	N/A	Ditch running
R-3	04/29/98	13.81	N/A	N/A	N/A	99.29	85.48	N/A	Ditch running
R-3	05/08/98	13.00	N/A	N/A	N/A	99.29	86.29	N/A	Ditch running
R-3	05/14/98	12.31	N/A	N/A	N/A	99.29	86.98	N/A	Ditch running
R-3	05/19/98	12.40	N/A	N/A	N/A	99.29	86.89	N/A	Ditch running
R-3	05/20/98	12.53	N/A	N/A	N/A	99.29	86.76	N/A	Ditch running
R-3	05/27/98	12.96	N/A	N/A	N/A	99.29	86.33	N/A	Ditch running
R-3	06/29/98	12.55	N/A	N/A	N/A	99.29	86.74	N/A	Ditch running
R-3	10/08/98	13.69	N/A	N/A	N/A	99.29	85.60	N/A	Ditch running
R-3	10/26/98	12.72	N/A	N/A	N/A	99.29	86.57	N/A	Ditch running
R-3	11/24/98	13.26	N/A	N/A	N/A	99.29	86.03	N/A	Ditch running
R-3	12/01/98	13.53	N/A	N/A	N/A	99.29	85.76	N/A	Ditch running
R-3	12/14/98	13.92	N/A	N/A	N/A	99.29	85.37	N/A	Ditch running
R-3	01/05/99	14.27	N/A	N/A	N/A	99.29	85.02	N/A	Ditch running
R-3	01/11/99	14.32	N/A	N/A	N/A	99.29	84.97	N/A	Ditch running
R-3	02/24/99	14.59	N/A	N/A	N/A	99.29	84.70	N/A	Took water level & product level
R-4	02/19/97	15.81	N/A	N/A	N/A	98.29	82.48	N/A	
R-4	02/26/97	15.75	N/A	N/A	N/A	98.29	82.54	N/A	
R-4	03/05/97	15.90	N/A	N/A	N/A	98.29	82.39	N/A	
R-4	03/12/97	15.89	N/A	N/A	N/A	98.29	82.40	N/A	
R-4	03/17/97	16.03	N/A	N/A	N/A	98.29	82.26	N/A	
R-4	04/09/97	16.24	N/A	N/A	N/A	98.29	82.05	N/A	
R-4	04/16/97	16.69	N/A	N/A	N/A	98.29	81.60	N/A	
R-4	04/23/97	16.56	N/A	N/A	N/A	98.29	81.73	N/A	
R-4	05/01/97	15.04	N/A	N/A	N/A	98.29	83.25	N/A	
R-4	05/13/97	13.63	N/A	N/A	N/A	98.29	84.66	N/A	

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-4	05/21/97	13.89	N/A	N/A	N/A	98.29	84.40	N/A	
R-4	05/28/97	14.09	N/A	N/A	N/A	98.29	84.20	N/A	
R-4	06/04/97	13.99	N/A	N/A	N/A	98.29	84.30	N/A	
R-4	06/11/97	13.73	N/A	N/A	N/A	98.29	84.56	N/A	
R-4	06/18/97	13.95	N/A	N/A	N/A	98.29	84.34	N/A	
R-4	06/27/97	13.85	N/A	N/A	N/A	98.29	84.44	N/A	
R-4	07/02/97	13.68	N/A	N/A	N/A	98.29	84.61	N/A	
R-4	07/09/97	13.16	N/A	N/A	N/A	98.29	85.13	N/A	
R-4	08/21/97	13.12	N/A	N/A	N/A	98.29	85.17	N/A	
R-4	11/10/97	14.55	N/A	N/A	N/A	98.29	83.74	N/A	
R-4	01/21/98	15.84	N/A	N/A	N/A	98.29	82.45	N/A	
R-4	01/28/98	15.83	N/A	N/A	N/A	98.29	82.46	N/A	
R-4	02/05/98	16.24	N/A	N/A	N/A	98.29	82.05	N/A	
R-4	02/11/98	16.28	N/A	N/A	N/A	98.29	82.01	N/A	Ditch empty
R-4	02/19/98	16.58	N/A	N/A	N/A	98.29	81.71	N/A	Ditch empty
R-4	02/25/98	16.68	N/A	N/A	N/A	98.29	81.61	N/A	Ditch empty
R-4	03/04/98	16.88	N/A	N/A	N/A	98.29	81.41	N/A	Ditch empty
R-4	03/11/98	16.86	N/A	N/A	N/A	98.29	81.43	N/A	Ditch empty
R-4	03/18/98	16.59	N/A	N/A	N/A	98.29	81.70	N/A	Ditch empty
R-4	03/25/98	16.52	N/A	N/A	N/A	98.29	81.77	N/A	Ditch empty
R-4	04/02/98	14.80	N/A	N/A	N/A	98.29	83.49	N/A	Ditch running
R-4	04/08/98	14.19	N/A	N/A	N/A	98.29	84.10	N/A	Ditch running
R-4	04/15/98	13.94	N/A	N/A	N/A	98.29	84.35	N/A	Ditch running
R-4	04/23/98	13.45	N/A	N/A	N/A	98.29	84.84	N/A	Ditch running
R-4	04/29/98	13.53	N/A	N/A	N/A	98.29	84.76	N/A	Ditch running
R-4	05/08/98	13.00	N/A	N/A	N/A	98.29	85.29	N/A	Ditch running
R-4	05/14/98	12.31	N/A	N/A	N/A	98.29	85.98	N/A	Ditch running
R-4	05/19/98	12.21	N/A	N/A	N/A	98.29	86.08	N/A	Ditch running
R-4	05/20/98	12.36	N/A	N/A	N/A	98.29	85.93	N/A	Ditch running
R-4	05/27/98	12.68	N/A	N/A	N/A	98.29	85.61	N/A	Ditch running

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-4	06/29/98	12.36	N/A	N/A	N/A	98.29	85.93	N/A	Ditch running
R-4	10/08/98	14.19	N/A	N/A	N/A	98.29	84.10	N/A	Ditch running
R-4	10/26/98	12.29	N/A	N/A	N/A	98.29	86.00	N/A	Ditch running
R-4	11/11/98	12.04	N/A	N/A	N/A	98.29	86.25	N/A	Ditch running
R-4	11/24/98	12.99	N/A	N/A	N/A	98.29	85.30	N/A	Ditch running
R-4	12/01/98	13.13	N/A	N/A	N/A	98.29	85.16	N/A	Ditch running
R-4	12/14/98	13.50	N/A	N/A	N/A	98.29	84.79	N/A	Ditch running
R-4	12/20/98	15.32	N/A	N/A	N/A	98.29	82.97	N/A	Ditch running
R-4	01/05/99	13.87	N/A	N/A	N/A	98.29	84.42	N/A	Ditch running
R-4	01/11/99	13.92	N/A	N/A	N/A	98.29	84.37	N/A	Ditch running
R-4	02/24/99	14.37	N/A	N/A	N/A	98.29	83.92	N/A	Took water level & product level
R-5	02/19/97	18.48	N/A	N/A	N/A	101.50	83.02	N/A	
R-5	02/26/97	18.33	N/A	N/A	N/A	101.50	83.17	N/A	
R-5	03/05/97	18.71	N/A	N/A	N/A	101.50	82.79	N/A	
R-5	03/12/97	18.50	N/A	N/A	N/A	101.50	83.00	N/A	
R-5	03/17/97	19.02	N/A	N/A	N/A	101.50	82.48	N/A	
R-5	04/09/97	18.92	N/A	N/A	N/A	101.50	82.58	N/A	
R-5	04/16/97	19.40	N/A	N/A	N/A	101.50	82.10	N/A	
R-5	04/23/97	19.20	N/A	N/A	N/A	101.50	82.30	N/A	
R-5	05/01/97	18.28	N/A	N/A	N/A	101.50	83.22	N/A	
R-5	05/07/97	17.46	N/A	N/A	N/A	101.50	84.04	N/A	
R-5	05/13/97	17.18	N/A	N/A	N/A	101.50	84.32	N/A	
R-5	05/20/97	17.25	N/A	N/A	N/A	101.50	84.25	N/A	
R-5	05/28/97	17.35	N/A	N/A	N/A	101.50	84.15	N/A	
R-5	06/04/97	17.26	N/A	N/A	N/A	101.50	84.24	N/A	
R-5	06/11/97	17.01	N/A	N/A	N/A	101.50	84.49	N/A	
R-5	06/18/97	17.09	N/A	N/A	N/A	101.50	84.41	N/A	
R-5	06/27/97	17.13	N/A	N/A	N/A	101.50	84.37	N/A	
R-5	07/02/97	16.87	N/A	N/A	N/A	101.50	84.63	N/A	

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-5	07/09/97	16.64	N/A	N/A	N/A	101.50	84.86	N/A	
R-5	08/21/97	16.50	N/A	N/A	N/A	101.50	85.00	N/A	
R-5	11/10/97	17.48	N/A	N/A	N/A	101.50	84.02	N/A	
R-5	01/21/98	18.46	N/A	N/A	N/A	101.50	83.04	N/A	
R-5	01/28/98	18.48	N/A	N/A	N/A	101.50	83.02	N/A	
R-5	02/05/98	18.92	N/A	N/A	N/A	101.50	82.58	N/A	
R-5	02/11/98	18.91	N/A	N/A	N/A	101.50	82.59	N/A	Ditch empty
R-5	02/19/98	19.31	N/A	N/A	N/A	101.50	82.19	N/A	Ditch empty
R-5	02/25/98	19.31	N/A	N/A	N/A	101.50	82.19	N/A	Ditch empty
R-5	03/04/98	19.51	N/A	N/A	N/A	101.50	81.99	N/A	Ditch empty
R-5	03/11/98	19.46	N/A	N/A	N/A	101.50	82.04	N/A	Ditch empty
R-5	03/18/98	19.21	N/A	N/A	N/A	101.50	82.29	N/A	Ditch empty
R-5	03/25/98	19.11	N/A	N/A	N/A	101.50	82.39	N/A	Ditch empty
R-5	04/02/98	18.28	N/A	N/A	N/A	101.50	83.22	N/A	Ditch running
R-5	04/08/98	17.80	N/A	N/A	N/A	101.50	83.70	N/A	Ditch running
R-5	04/15/98	17.42	N/A	N/A	N/A	101.50	84.08	N/A	Ditch running
R-5	04/23/98	16.95	N/A	N/A	N/A	101.50	84.55	N/A	Ditch running
R-5	04/29/98	16.94	N/A	N/A	N/A	101.50	84.56	N/A	Ditch running
R-5	05/08/98	12.87	N/A	N/A	N/A	101.50	88.63	N/A	Ditch running
R-5	05/14/98	15.92	N/A	N/A	N/A	101.50	85.58	N/A	Ditch running
R-5	05/19/98	15.90	N/A	N/A	N/A	101.50	85.60	N/A	Ditch running
R-5	05/20/98	15.81	N/A	N/A	N/A	101.50	85.69	N/A	Ditch running
R-5	05/27/98	15.99	N/A	N/A	N/A	101.50	85.51	N/A	Ditch running
R-5	06/29/98	15.57	N/A	N/A	N/A	101.50	85.93	N/A	Ditch running
R-5	10/08/98	15.49	N/A	N/A	N/A	101.50	86.01	N/A	Ditch running
R-5	10/26/98	15.36	N/A	N/A	N/A	101.50	86.14	N/A	Ditch running
R-5	11/11/98	15.52	N/A	N/A	N/A	101.50	85.98	N/A	Ditch running
R-5	11/24/98	15.79	N/A	N/A	N/A	101.50	85.71	N/A	Ditch running
R-5	12/01/98	15.96	N/A	N/A	N/A	101.50	85.54	N/A	Ditch running
R-5	12/14/98	16.17	N/A	N/A	N/A	101.50	85.33	N/A	Ditch running

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
R-5	12/20/98	16.71	N/A	N/A	N/A	101.50	84.79	N/A	Ditch running
R-5	01/05/99	16.59	N/A	N/A	N/A	101.50	84.91	N/A	Ditch running
R-5	01/11/99	16.53	N/A	N/A	N/A	101.50	84.97	N/A	Ditch running
R-5	02/24/99	16.89	N/A	N/A	N/A	101.50	84.61	N/A	Took water level & product level
M-1	02/19/97	6.23	N/A	N/A	N/A	84.84	78.61	N/A	
M-1	02/26/97	6.19	N/A	N/A	N/A	84.84	78.65	N/A	
M-1	03/05/97	6.12	N/A	N/A	N/A	84.84	78.72	N/A	
M-1	03/12/97	6.37	N/A	N/A	N/A	84.84	78.47	N/A	
M-1	03/17/97	6.59	N/A	N/A	N/A	84.84	78.25	N/A	
M-1	04/09/97	6.47	N/A	N/A	N/A	84.84	78.37	N/A	
M-1	04/16/97	6.83	N/A	N/A	N/A	84.84	78.01	N/A	
M-1	04/23/97	7.61	N/A	N/A	N/A	84.84	77.23	N/A	
M-1	05/01/97	5.79	N/A	N/A	N/A	84.84	79.05	N/A	
M-1	05/07/97	5.10	N/A	N/A	N/A	84.84	79.74	N/A	
M-1	05/13/97	4.59	N/A	N/A	N/A	84.84	80.25	N/A	
M-1	05/23/97	4.80	N/A	N/A	N/A	84.84	80.04	N/A	
M-1	05/28/97	5.05	N/A	N/A	N/A	84.84	79.79	N/A	
M-1	06/04/97	4.90	N/A	N/A	N/A	84.84	79.94	N/A	
M-1	06/11/97	4.47	N/A	N/A	N/A	84.84	80.37	N/A	
M-1	06/18/97	4.93	N/A	N/A	N/A	84.84	79.91	N/A	
M-1	06/27/97	5.01	N/A	N/A	N/A	84.84	79.83	N/A	
M-1	07/02/97	4.86	N/A	N/A	N/A	84.84	79.98	N/A	
M-1	07/09/97	4.29	N/A	N/A	N/A	84.84	80.55	N/A	
M-1	08/21/97	3.54	N/A	N/A	N/A	84.84	81.30	N/A	
M-1	11/10/97	5.41	N/A	N/A	N/A	84.84	79.43	N/A	
M-1	01/21/98	6.40	N/A	N/A	N/A	84.84	78.44	N/A	
M-1	01/28/98	6.48	N/A	N/A	N/A	84.84	78.36	N/A	
M-1	02/05/98	6.66	N/A	N/A	N/A	84.84	78.18	N/A	
M-1	02/11/98	6.50	N/A	N/A	N/A	84.84	78.34	N/A	Ditch empty

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-1	02/19/98	6.75	N/A	N/A	N/A	84.84	78.09	N/A	Ditch empty
M-1	02/25/98	6.83	N/A	N/A	N/A	84.84	78.01	N/A	Ditch empty
M-1	03/04/98	7.01	N/A	N/A	N/A	84.84	77.83	N/A	Ditch empty
M-1	03/11/98	7.15	N/A	N/A	N/A	84.84	77.69	N/A	Ditch empty
M-1	03/18/98	7.03	N/A	N/A	N/A	84.84	77.81	N/A	Ditch empty
M-1	03/25/98	6.97	N/A	N/A	N/A	84.84	77.87	N/A	Ditch empty
M-1	04/02/98	6.16	N/A	N/A	N/A	84.84	78.68	N/A	Ditch running
M-1	04/08/98	5.70	N/A	N/A	N/A	84.84	79.14	N/A	Ditch running
M-1	04/15/98	5.26	N/A	N/A	N/A	84.84	79.58	N/A	Ditch running
M-1	04/23/98	4.96	N/A	N/A	N/A	84.84	79.88	N/A	Ditch running
M-1	04/29/98	4.97	N/A	N/A	N/A	84.84	79.87	N/A	Ditch running
M-1	05/08/98	4.85	N/A	N/A	N/A	84.84	79.99	N/A	Ditch running
M-1	05/14/98	3.90	N/A	N/A	N/A	84.84	80.94	N/A	Ditch running
M-1	05/19/98	3.98	N/A	N/A	N/A	84.84	80.86	N/A	Ditch running
M-1	05/20/98	4.09	N/A	N/A	N/A	84.84	80.75	N/A	Ditch running
M-1	05/27/98	4.23	N/A	N/A	N/A	84.84	80.61	N/A	Ditch running
M-1	06/29/98	4.38	N/A	N/A	N/A	84.84	80.46	N/A	Ditch running
M-1	10/08/98	3.81	N/A	N/A	N/A	84.84	81.03	N/A	Ditch running
M-1	10/26/98	3.46	N/A	N/A	N/A	84.84	81.38	N/A	Ditch running
M-1	11/11/98	3.66	N/A	N/A	N/A	84.84	81.18	N/A	Ditch running
M-1	11/24/98	4.28	N/A	N/A	N/A	84.84	80.56	N/A	Ditch running
M-1	12/01/98	4.37	N/A	N/A	N/A	84.84	80.47	N/A	Ditch running
M-1	12/14/98	4.75	N/A	N/A	N/A	84.84	80.09	N/A	Ditch running
M-1	12/20/98	5.01	N/A	N/A	N/A	84.84	79.83	N/A	Ditch running
M-1	01/05/99	5.13	N/A	N/A	N/A	84.84	79.71	N/A	Ditch running
M-1	01/11/99	5.19	N/A	N/A	N/A	84.84	79.65	N/A	Ditch running
M-1	02/24/99	5.44	N/A	N/A	N/A	84.84	79.40	N/A	Took water level & product level
M-2	02/19/97	6.00	N/A	N/A	N/A	85.89	79.89	N/A	
M-2	02/26/97	6.02	N/A	N/A	N/A	85.89	79.87	N/A	

**TABLE 1  
PRODUCT RECOVERY AND ELEVATION DATA  
JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-2	03/05/97	6.12	N/A	N/A	N/A	85.89	79.77	N/A	
M-2	03/12/97	6.19	N/A	N/A	N/A	85.89	79.70	N/A	
M-2	03/17/97	6.32	N/A	N/A	N/A	85.89	79.57	N/A	
M-2	04/09/97	6.31	N/A	N/A	N/A	85.89	79.58	N/A	
M-2	04/16/97	6.62	N/A	N/A	N/A	85.89	79.27	N/A	
M-2	04/23/97	6.70	N/A	N/A	N/A	85.89	79.19	N/A	
M-2	05/01/97	4.23	N/A	N/A	N/A	85.89	81.66	N/A	
M-2	05/07/97	3.25	N/A	N/A	N/A	85.89	82.64	N/A	
M-2	05/13/97	3.67	N/A	N/A	N/A	85.89	82.22	N/A	
M-2	05/21/97	4.24	N/A	N/A	N/A	85.89	81.65	N/A	
M-2	05/28/97	4.79	N/A	N/A	N/A	85.89	81.10	N/A	
M-2	06/04/97	3.89	N/A	N/A	N/A	85.89	82.00	N/A	
M-2	06/11/97	3.86	N/A	N/A	N/A	85.89	82.03	N/A	
M-2	06/18/97	4.61	N/A	N/A	N/A	85.89	81.28	N/A	
M-2	06/27/97	4.27	N/A	N/A	N/A	85.89	81.62	N/A	
M-2	07/02/97	4.34	N/A	N/A	N/A	85.89	81.55	N/A	
M-2	07/09/97	3.43	N/A	N/A	N/A	85.89	82.46	N/A	
M-2	08/21/97	2.91	N/A	N/A	N/A	85.89	82.98	N/A	
M-2	11/10/97	4.76	N/A	N/A	N/A	85.89	81.13	N/A	
M-2	01/21/98	6.36	N/A	N/A	N/A	85.89	79.53	N/A	
M-2	01/28/98	6.48	N/A	N/A	N/A	85.89	79.41	N/A	
M-2	02/05/98	6.62	N/A	N/A	N/A	85.89	79.27	N/A	
M-2	02/11/98	6.50	N/A	N/A	N/A	85.89	79.39	N/A	Ditch empty
M-2	02/19/98	6.70	N/A	N/A	N/A	85.89	79.19	N/A	Ditch empty
M-2	02/25/98	6.78	N/A	N/A	N/A	85.89	79.11	N/A	Ditch empty
M-2	03/04/98	6.92	N/A	N/A	N/A	85.89	78.97	N/A	Ditch empty
M-2	03/11/98	7.05	N/A	N/A	N/A	85.89	78.84	N/A	Ditch empty
M-2	03/18/98	6.95	N/A	N/A	N/A	85.89	78.94	N/A	Ditch empty
M-2	03/25/98	6.90	N/A	N/A	N/A	85.89	78.99	N/A	Ditch empty
M-2	04/02/98	4.94	N/A	N/A	N/A	85.89	80.95	N/A	Ditch running

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-2	04/08/98	3.90	N/A	N/A	N/A	85.89	81.99	N/A	Ditch running
M-2	04/15/98	3.72	N/A	N/A	N/A	85.89	82.17	N/A	Ditch running
M-2	04/23/98	3.91	N/A	N/A	N/A	85.89	81.98	N/A	Ditch running
M-2	04/29/98	4.27	N/A	N/A	N/A	85.89	81.62	N/A	Ditch running
M-2	05/08/98	4.52	N/A	N/A	N/A	85.89	81.37	N/A	Ditch running
M-2	05/14/98	3.08	N/A	N/A	N/A	85.89	82.81	N/A	Ditch running
M-2	05/19/98	3.50	N/A	N/A	N/A	85.89	82.39	N/A	Ditch running
M-2	05/20/98	3.64	N/A	N/A	N/A	85.89	82.25	N/A	Ditch running
M-2	05/27/98	4.26	N/A	N/A	N/A	85.89	81.63	N/A	Ditch running
M-2	06/29/98	4.08	N/A	N/A	N/A	85.89	81.81	N/A	Ditch running
M-2	10/08/98	3.12	N/A	N/A	N/A	85.89	82.77	N/A	Ditch running
M-2	10/26/98	2.75	N/A	N/A	N/A	85.89	83.14	N/A	Ditch running
M-2	11/11/98	3.00	N/A	N/A	N/A	85.89	82.89	N/A	Ditch running
M-2	11/24/98	3.82	N/A	N/A	N/A	85.89	82.07	N/A	Ditch running
M-2	12/01/98	3.97	N/A	N/A	N/A	85.89	81.92	N/A	Ditch running
M-2	12/14/98	4.51	N/A	N/A	N/A	85.89	81.38	N/A	Ditch running
M-2	12/20/98	4.43	N/A	N/A	N/A	85.89	81.46	N/A	Ditch running
M-2	01/05/99	4.84	N/A	N/A	N/A	85.89	81.05	N/A	Ditch running
M-2	01/11/99	4.93	N/A	N/A	N/A	85.89	80.96	N/A	Ditch running
M-2	02/24/99	5.16	N/A	N/A	N/A	85.89	80.73	N/A	Took water level & product level
M-3	02/19/97	6.90	N/A	N/A	N/A	87.79	80.89	N/A	
M-3	02/26/97	6.86	N/A	N/A	N/A	87.79	80.93	N/A	
M-3	03/05/97	6.94	N/A	N/A	N/A	87.79	80.85	N/A	
M-3	03/12/97	6.99	N/A	N/A	N/A	87.79	80.80	N/A	
M-3	03/17/97	8.41	N/A	N/A	N/A	87.79	79.38	N/A	
M-3	04/09/97	7.41	N/A	N/A	N/A	87.79	80.38	N/A	
M-3	04/16/97	5.78	N/A	N/A	N/A	87.79	82.01	N/A	
M-3	04/23/97	7.61	N/A	N/A	N/A	87.79	80.18	N/A	
M-3	05/01/97	6.51	N/A	N/A	N/A	87.79	81.28	N/A	

**TABLE 1  
PRODUCT RECOVERY AND ELEVATION DATA  
JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-3	05/07/97	5.62	N/A	N/A	N/A	87.79	82.17	N/A	
M-3	05/13/97	5.04	N/A	N/A	N/A	87.79	82.75	N/A	
M-3	05/21/97	5.18	N/A	N/A	N/A	87.79	82.61	N/A	
M-3	05/28/97	5.41	N/A	N/A	N/A	87.79	82.38	N/A	
M-3	06/04/97	5.50	N/A	N/A	N/A	87.79	82.29	N/A	
M-3	06/11/97	5.08	N/A	N/A	N/A	87.79	82.71	N/A	
M-3	06/18/97	5.35	N/A	N/A	N/A	87.79	82.44	N/A	
M-3	06/27/97	5.50	N/A	N/A	N/A	87.79	82.29	N/A	
M-3	07/02/97	5.28	N/A	N/A	N/A	87.79	82.51	N/A	
M-3	07/09/97	4.96	N/A	N/A	N/A	87.79	82.83	N/A	
M-3	08/21/97	4.81	N/A	N/A	N/A	87.79	82.98	N/A	
M-3	11/10/97	6.07	N/A	N/A	N/A	87.79	81.72	N/A	
M-3	01/21/98	6.92	N/A	N/A	N/A	87.79	80.87	N/A	
M-3	01/28/98	6.86	N/A	N/A	N/A	87.79	80.93	N/A	
M-3	02/05/98	7.26	N/A	N/A	N/A	87.79	80.53	N/A	
M-3	02/11/98	7.30	N/A	N/A	N/A	87.79	80.49	N/A	Ditch empty
M-3	02/19/98	7.56	N/A	N/A	N/A	87.79	80.23	N/A	Ditch empty
M-3	02/25/98	7.69	N/A	N/A	N/A	87.79	80.10	N/A	Ditch empty
M-3	03/04/98	7.95	N/A	N/A	N/A	87.79	79.84	N/A	Ditch empty
M-3	03/11/98	8.09	N/A	N/A	N/A	87.79	79.70	N/A	Ditch empty
M-3	03/18/98	7.85	N/A	N/A	N/A	87.79	79.94	N/A	Ditch empty
M-3	03/25/98	7.74	N/A	N/A	N/A	87.79	80.05	N/A	Ditch empty
M-3	04/02/98	6.77	N/A	N/A	N/A	87.79	81.02	N/A	Ditch running
M-3	04/08/98	6.20	N/A	N/A	N/A	87.79	81.59	N/A	Ditch running
M-3	04/15/98	5.80	N/A	N/A	N/A	87.79	81.99	N/A	Ditch running
M-3	04/23/98	5.25	N/A	N/A	N/A	87.79	82.54	N/A	Ditch running
M-3	04/29/98	5.07	N/A	N/A	N/A	87.79	82.72	N/A	Ditch running
M-3	05/08/98	4.67	N/A	N/A	N/A	87.79	83.12	N/A	Ditch running
M-3	05/14/98	3.66	N/A	N/A	N/A	87.79	84.13	N/A	Ditch running
M-3	05/19/98	3.75	N/A	N/A	N/A	87.79	84.04	N/A	Ditch running

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-3	05/20/98	3.83	N/A	N/A	N/A	87.79	83.96	N/A	Ditch running
M-3	05/27/98	4.08	N/A	N/A	N/A	87.79	83.71	N/A	Ditch running
M-3	06/29/98	4.24	N/A	N/A	N/A	87.79	83.55	N/A	Ditch running
M-3	08/26/98	4.53	N/A	N/A	N/A	87.79	83.26	N/A	Ditch running
M-3	10/08/98	3.84	N/A	N/A	N/A	87.79	83.95	N/A	Ditch running
M-3	10/26/98	3.54	N/A	N/A	N/A	87.79	84.25	N/A	Ditch running
M-3	11/11/98	3.66	N/A	N/A	N/A	87.79	84.13	N/A	Ditch running
M-3	11/24/98	4.34	N/A	N/A	N/A	87.79	83.45	N/A	Ditch running
M-3	12/01/98	4.43	N/A	N/A	N/A	87.79	83.36	N/A	Ditch running
M-3	12/14/98	4.65	N/A	N/A	N/A	87.79	83.14	N/A	Ditch running
M-3	02/24/99	5.63	N/A	N/A	N/A	87.79	82.16	N/A	Took water level & product level
M-4	02/19/97	5.36	N/A	N/A	N/A	88.01	82.65	N/A	
M-4	02/26/97	6.96	N/A	N/A	N/A	88.01	81.05	N/A	
M-4	03/05/97	6.87	N/A	N/A	N/A	88.01	81.14	N/A	
M-4	03/12/97	4.79	N/A	N/A	N/A	88.01	83.22	N/A	
M-4	03/17/97	7.43	N/A	N/A	N/A	88.01	80.58	N/A	
M-4	04/09/97	6.65	N/A	N/A	N/A	88.01	81.36	N/A	
M-4	04/16/97	5.78	N/A	N/A	N/A	88.01	82.23	N/A	
M-4	04/23/97	6.10	N/A	N/A	N/A	88.01	81.91	N/A	
M-4	05/01/97	4.65	N/A	N/A	N/A	88.01	83.36	N/A	
M-4	05/07/97	3.45	N/A	N/A	N/A	88.01	84.56	N/A	
M-4	05/13/97	3.33	N/A	N/A	N/A	88.01	84.68	N/A	
M-4	05/21/97	3.64	N/A	N/A	N/A	88.01	84.37	N/A	
M-4	05/28/97	3.92	N/A	N/A	N/A	88.01	84.09	N/A	
M-4	06/04/97	3.78	N/A	N/A	N/A	88.01	84.23	N/A	
M-4	06/11/97	3.45	N/A	N/A	N/A	88.01	84.56	N/A	
M-4	06/18/97	3.79	N/A	N/A	N/A	88.01	84.22	N/A	
M-4	06/27/97	3.79	N/A	N/A	N/A	88.01	84.22	N/A	
M-4	07/02/97	3.69	N/A	N/A	N/A	88.01	84.32	N/A	

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-4	07/09/97	3.07	N/A	N/A	N/A	88.01	84.94	N/A	
M-4	08/21/97	2.86	N/A	N/A	N/A	88.01	85.15	N/A	
M-4	11/10/97	4.41	N/A	N/A	N/A	88.01	83.60	N/A	
M-4	01/21/98	5.48	N/A	N/A	N/A	88.01	82.53	N/A	
M-4	01/28/98	5.59	N/A	N/A	N/A	88.01	82.42	N/A	
M-4	02/05/98	5.76	N/A	N/A	N/A	88.01	82.25	N/A	
M-4	02/11/98	5.86	N/A	N/A	N/A	88.01	82.15	N/A	Ditch empty
M-4	02/19/98	6.08	N/A	N/A	N/A	88.01	81.93	N/A	Ditch empty
M-4	02/25/98	6.17	N/A	N/A	N/A	88.01	81.84	N/A	Ditch empty
M-4	03/04/98	6.37	N/A	N/A	N/A	88.01	81.64	N/A	Ditch empty
M-4	03/11/98	6.42	N/A	N/A	N/A	88.01	81.59	N/A	Ditch empty
M-4	03/18/98	6.21	N/A	N/A	N/A	88.01	81.80	N/A	Ditch empty
M-4	03/25/98	6.12	N/A	N/A	N/A	88.01	81.89	N/A	Ditch empty
M-4	04/02/98	4.54	N/A	N/A	N/A	88.01	83.47	N/A	Ditch running
M-4	04/08/98	3.97	N/A	N/A	N/A	88.01	84.04	N/A	Ditch running
M-4	04/15/98	3.73	N/A	N/A	N/A	88.01	84.28	N/A	Ditch running
M-4	04/23/98	3.34	N/A	N/A	N/A	88.01	84.67	N/A	Ditch running
M-4	04/29/98	3.42	N/A	N/A	N/A	88.01	84.59	N/A	Ditch running
M-4	05/08/98	2.98	N/A	N/A	N/A	88.01	85.03	N/A	Ditch running
M-4	05/14/98	2.12	N/A	N/A	N/A	88.01	85.89	N/A	Ditch running
M-4	05/19/98	2.26	N/A	N/A	N/A	88.01	85.75	N/A	Ditch running
M-4	05/20/98	2.31	N/A	N/A	N/A	88.01	85.70	N/A	Ditch running
M-4	05/27/98	2.66	N/A	N/A	N/A	88.01	85.35	N/A	Ditch running
M-4	06/29/98	2.54	N/A	N/A	N/A	88.01	85.47	N/A	Ditch running
M-4	08/26/98	3.02	N/A	N/A	N/A	88.01	84.99	N/A	Ditch running
M-4	10/08/98	2.33	N/A	N/A	N/A	88.01	85.68	N/A	Ditch running
M-4	10/26/98	2.13	N/A	N/A	N/A	88.01	85.88	N/A	Ditch running
M-4	11/11/98	2.24	N/A	N/A	N/A	88.01	85.77	N/A	Ditch running
M-4	11/24/98	2.87	N/A	N/A	N/A	88.01	85.14	N/A	Ditch running
M-4	12/01/98	2.97	N/A	N/A	N/A	88.01	85.04	N/A	Ditch running

**TABLE 1  
PRODUCT RECOVERY AND ELEVATION DATA  
JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-4	12/14/98	3.37	N/A	N/A	N/A	88.01	84.64	N/A	Ditch running
M-4	01/05/99	3.73	N/A	N/A	N/A	88.01	84.28	N/A	Ditch running
M-4	01/11/99	3.79	N/A	N/A	N/A	88.01	84.22	N/A	Ditch running
M-4	02/24/99	8.38	N/A	N/A	N/A	88.01	79.63	N/A	Took water level & product level
M-5	02/19/97	8.49	N/A	N/A	N/A	86.82	78.33	N/A	
M-5	02/26/97	6.59	N/A	N/A	N/A	86.82	80.23	N/A	
M-5	03/05/97	6.69	N/A	N/A	N/A	86.82	80.13	N/A	
M-5	03/12/97	6.74	N/A	N/A	N/A	86.82	80.08	N/A	
M-5	03/17/97	6.99	N/A	N/A	N/A	86.82	79.83	N/A	
M-5	04/09/97	6.92	N/A	N/A	N/A	86.82	79.90	N/A	
M-5	04/16/97	7.32	N/A	N/A	N/A	86.82	79.50	N/A	
M-5	04/23/97	7.32	N/A	N/A	N/A	86.82	79.50	N/A	
M-5	05/01/97	5.50	N/A	N/A	N/A	86.82	81.32	N/A	
M-5	05/07/97	3.88	N/A	N/A	N/A	86.82	82.94	N/A	
M-5	05/13/97	4.30	N/A	N/A	N/A	86.82	82.52	N/A	
M-5	05/21/97	4.76	N/A	N/A	N/A	86.82	82.06	N/A	
M-5	05/28/97	5.10	N/A	N/A	N/A	86.82	81.72	N/A	
M-5	06/04/97	4.79	N/A	N/A	N/A	86.82	82.03	N/A	
M-5	06/11/97	4.55	N/A	N/A	N/A	86.82	82.27	N/A	
M-5	06/18/97	5.00	N/A	N/A	N/A	86.82	81.82	N/A	
M-5	06/27/97	4.89	N/A	N/A	N/A	86.82	81.93	N/A	
M-5	07/02/97	4.81	N/A	N/A	N/A	86.82	82.01	N/A	
M-5	07/09/97	4.06	N/A	N/A	N/A	86.82	82.76	N/A	
M-5	08/21/97	3.40	N/A	N/A	N/A	86.82	83.42	N/A	
M-5	11/10/97	5.32	N/A	N/A	N/A	86.82	81.50	N/A	
M-5	01/21/98	6.75	N/A	N/A	N/A	86.82	80.07	N/A	
M-5	01/28/98	6.81	N/A	N/A	N/A	86.82	80.01	N/A	
M-5	02/05/98	7.60	N/A	N/A	N/A	86.82	79.22	N/A	
M-5	02/11/98	7.12	N/A	N/A	N/A	86.82	79.70	N/A	Ditch empty

**TABLE 1**  
**PRODUCT RECOVERY AND ELEVATION DATA**  
**JAQUEZ COM C#1 AND E#1**

WELL NUMBER	DATE	WATER LEVEL (feet)	PRODUCT LEVEL (feet)	PRODUCT THICKNESS (feet)	PRODUCT RECOVERED (Total gallons)	TOR REF. ELEV.	WATER ELEV. (feet)	PRODUCT ELEV. (feet)	COMMENTS
M-5	02/19/98	7.28	N/A	N/A	N/A	86.82	79.54	N/A	Ditch empty
M-5	02/25/98	7.37	N/A	N/A	N/A	86.82	79.45	N/A	Ditch empty
M-5	03/04/98	7.55	N/A	N/A	N/A	86.82	79.27	N/A	Ditch empty
M-5	03/11/98	7.62	N/A	N/A	N/A	86.82	79.20	N/A	Ditch empty
M-5	03/18/98	7.43	N/A	N/A	N/A	86.82	79.39	N/A	Ditch empty
M-5	03/25/98	7.36	N/A	N/A	N/A	86.82	79.46	N/A	Ditch empty
M-5	04/02/98	5.00	N/A	N/A	N/A	86.82	81.82	N/A	Ditch running
M-5	04/08/98	4.43	N/A	N/A	N/A	86.82	82.39	N/A	Ditch running
M-5	04/15/98	4.43	N/A	N/A	N/A	86.82	82.39	N/A	Ditch running
M-5	04/23/98	4.21	N/A	N/A	N/A	86.82	82.61	N/A	Ditch running
M-5	04/29/98	4.39	N/A	N/A	N/A	86.82	82.43	N/A	Ditch running
M-5	05/08/98	4.15	N/A	N/A	N/A	86.82	82.67	N/A	Ditch running
M-5	05/14/98	3.08	N/A	N/A	N/A	86.82	83.74	N/A	Ditch running
M-5	05/17/98	3.37	N/A	N/A	N/A	86.82	83.45	N/A	Ditch running
M-5	05/20/98	3.40	N/A	N/A	N/A	86.82	83.42	N/A	Ditch running
M-5	05/27/98	3.96	N/A	N/A	N/A	86.82	82.86	N/A	Ditch running
M-5	06/29/98	3.83	N/A	N/A	N/A	86.82	82.99	N/A	Ditch running
M-5	10/08/98	3.45	N/A	N/A	N/A	86.82	83.37	N/A	Ditch running
M-5	10/26/98	3.15	N/A	N/A	N/A	86.82	83.67	N/A	Ditch running
M-5	11/11/98	3.28	N/A	N/A	N/A	86.82	83.54	N/A	Ditch running
M-5	11/24/98	4.00	N/A	N/A	N/A	86.82	82.82	N/A	Ditch running
M-5	12/01/98	4.12	N/A	N/A	N/A	86.82	82.70	N/A	Ditch running
M-5	12/14/98	4.62	N/A	N/A	N/A	86.82	82.20	N/A	Ditch running
M-5	12/20/98	4.84	N/A	N/A	N/A	86.82	81.98	N/A	Ditch running
M-5	01/05/99	4.93	N/A	N/A	N/A	86.82	81.89	N/A	Ditch running
M-5	01/11/99	5.01	N/A	N/A	N/A	86.82	81.81	N/A	Ditch running
M-5	02/24/99	5.26	N/A	N/A	N/A	86.82	81.56	N/A	Took water level & product level

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**Table 2 - Summary of Analytical Results**

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**TABLE 2**  
**JAQUEZ COM. C #1 & JAQUEZ COM. E #1**  
**SUMMARY OF ANALYTICAL RESULTS**

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
R-1	N30969	9/7/93	991	164	113	1111	2379	No	ND	NA
R-1	N31056	10/4/93	1280	1328	74	799	3481	No	1"	NA
R-1	N31240	11/10/93	242	322	15.0	93.9	673	No	ND	NA
R-1	N31384	12/15/93	328	411	26.6	196	962	No	ND	NA
R-1	940026	1/12/94	1830	1965	90.3	1053	4938	No	17"	NA
R-1	940233	2/9/94	1255	1504	42.3	730	3531	No	32"	NA
R-1	940491	3/7/94	7600	8500	280	2700	19080	Yes	4"	NA
R-1	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	10"	NA
R-1	941003	6/13/94	1450	1930	70.0	944	4394	No	11"	NA
R-1	N/A	9/7/94	No Test	No Test	No Test	No Test	No Test	No	2"	NA
R-1	941619	12/15/94	1890	2130	105.0	990	5115	No	TR	NA
R-1	N/A	8/25/95	No Test	No Test	No Test	No Test	No Test	No	TR	NA
R-1	951178	11/2/95	2330	2400	108	946	5784	No	ND	NA
R-1	N/A	2/5/96	No Test	No Test	No Test	No Test	No Test	Yes	0.24"	NA
R-1	N/A	5/28/96	No Test	No Test	No Test	No Test	No Test	No	4.8"	NA
R-1	960684	8/6/96	2970	3080	130	1200	7380	No	TR	NA
R-1	960900	10/28/96	1690	1970	60.8	800	4520	No	ND	NA
R-1	961007	11/20/96	1240	1540	61.9	600	3450	No	ND	NA
R-1	N/A	2/19/97	No Test	No Test	No Test	No Test	No Test	No	29.76"	NA
R-2	N30970	9/7/93	278	651	59.0	538	1526	No	ND	NA
R-2	N31057	10/4/93	509	789	73.0	741	2112	No	ND	NA
R-2	N31241	11/10/93	284	470	38.0	401	1193	No	ND	NA
R-2	N31385	12/15/93	529	864	65.3	709	2167	No	1"	NA
R-2	940027	1/12/94	1722	2501	150	1702	6075	No	24"	NA
R-2	940234	2/9/94	2806	3667	89.5	1520	8083	No	26"	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
R-2	940492	3/7/94	5600	6800	290	2700	15390	Yes	4"	NA
R-2	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	7"	NA
R-2	941004	6/13/94	3210	3790	139	1670	8809	No	7"	NA
R-2	N/A	9/7/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
R-2	941620	12/15/94	1140	2200	148	1520	5008	No	0.6"	NA
R-2	N/A	8/25/95	No Test	No Test	No Test	No Test	No Test	No	TR	NA
R-2	951179	11/2/95	1250	2030	116	1010	4406	No	TR	NA
R-2	N/A	2/5/96	No Test	No Test	No Test	No Test	No Test	Yes	2.52	NA
R-2	N/A	5/28/96	No Test	No Test	No Test	No Test	No Test	No	2.04"	NA
R-2	960685	8/6/96	2610	3960	165	1540	8275	No	0.72"	NA
R-2	960901	10/28/96	1100	2300	85.4	1100	4585	No	0.96"	NA
R-2	961009	11/20/96	428	1340	87.3	821	2680	No	0.48"	NA
R-2	N/A	2/19/97	No Test	No Test	No Test	No Test	No Test	No	NA	NA
R-3	N30971	9/7/93	<2.0	61.4	22.0	207	290	No	ND	NA
R-3	N31058	10/4/93	21	179	32.0	310	542	No	ND	NA
R-3	N31242	11/10/93	6.19	27.7	10.4	89.2	134	No	ND	NA
R-3	N31386	12/15/93	26	88.4	19.4	178	312	No	ND	NA
R-3	940028	1/12/94	4.4	2.9	2.7	18	28	No	ND	NA
R-3	940235	2/9/94	<2.0	10.9	8.3	59.6	79	No	ND	NA
R-3	940493	3/7/94	7.7	43	24	220	295	Yes	ND	NA
R-3	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
R-3	941005	6/13/94	3.03	41.4	18.4	188	251	No	ND	NA
R-3	941259	9/7/94	<2.5	18	6.9	67.9	93	No	ND	NA
R-3	941621	12/15/94	11.7	12.2	12.4	114	150	No	ND	NA
R-3	950099	2/9/95	7.36	2.7	2.68	20.8	34	Yes	ND	NA
R-3	950562	5/8/95	16.6	11.7	13.9	126	168	No	ND	NA
R-3	950896	8/25/95	<2.5	15.2	13.6	101	130	No	ND	NA
R-3	951180	11/2/95	<2.5	14.0	9.3	82	105	No	ND	NA
R-3	960095	2/5/96	5.34	14.0	12.8	108	140	Yes	ND	NA
R-3	960479	5/28/96	1.05	18.7	22.9	203	246	No	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
R-3	960686	8/6/96	1.24	24.7	25.9	236	288	No	ND	NA
R-3	960902	10/28/96	<1.0	10.7	12.6	109	132	No	ND	NA
R-3	961010	11/20/96	<1.0	12.5	12.4	114	139	No	ND	NA
R-3	970124	2/19/97	2.12	1.9	2.29	12.6	19	Yes	ND	NA
R-3	970501	5/28/97	<1.0	15.3	13.5	130	159	No	ND	<1.2
R-3	970917	8/21/97	<1.0	20.8	18.6	176	215	No	ND	<1.2
R-3	971196	11/10/97	<1.0	13.6	17.2	149	180	No	ND	<1.2
R-3	980164	2/18/98	<1.0	<1.0	<1.0	<3	<6	Yes	ND	<1.2
R-3	980405	5/19/98	<1.0	11.9	12.5	125	150	No	ND	NA
R-4	N30972	9/7/93	104	267	39.9	370	781	No	ND	NA
R-4	N31060	10/4/93	118	266	41	364	789	No	ND	NA
R-4	N31243	11/10/93	93.6	132	40.4	347	613	No	ND	NA
R-4	N31387	12/15/93	102	161	48.4	418	729	No	ND	NA
R-4	940030	1/12/94	124	101	38.5	353	617	No	ND	NA
R-4	940237	2/9/94	120	51.4	20.8	150	342	No	ND	NA
R-4	940494	3/7/94	150	63	20	190	423	Yes	ND	NA
R-4	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
R-4	941007	6/13/94	179	60.6	17.2	176	433	No	ND	NA
R-4	941260	9/7/94	238	102	26	218	584	No	ND	NA
R-4	941622	12/15/94	222	63.3	26.9	213	525	No	ND	NA
R-4	950100	2/9/95	273	61	20.4	165	519	Yes	ND	NA
R-4	950564	5/8/95	278	251	23.1	220	772	No	ND	NA
R-4	950897	8/25/95	646	278	50.8	544	1519	No	ND	NA
R-4	951181	11/2/95	343	60.4	35.1	284	723	No	ND	NA
R-4	960097	2/5/96	218	43.3	23.1	200	484	Yes	ND	NA
R-4	960481	5/28/96	716	199.0	36.6	394	1346	No	ND	NA
R-4	960687	8/6/96	384	156.0	24	275	839	No	ND	NA
R-4	960904	10/28/96	320	53.4	20.1	237	631	No	ND	NA
R-4	9601011	11/20/96	289	31.2	19.3	220	560	No	ND	NA
R-4	970125	2/19/97	162	65.9	34.4	337	599	Yes	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
R-4	970503	5/28/97	189	92.5	13.3	144	439	No	ND	<1.2
R-4	970918	8/21/97	343	377.0	45.5	408	1174	No	ND	<1.2
R-4	971197	11/10/97	542	129.0	31.1	267	969	No	ND	<1.2
R-4	980166	2/18/98	98.0	15.9	10.0	79.3	203	Yes	ND	<1.2
R-4	980406	5/19/98	916.0	244.0	38.1	304	1502	No	ND	NA
R-5	N30973	9/7/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	N31061	10/4/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	N31244	11/10/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	N31388	12/15/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	940031	1/12/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	940238	2/9/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	940496	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND	NA
R-5	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
R-5	941008	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
R-5	941261	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
R-5	941623	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
R-5	950102	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
R-5	950565	5/8/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
R-5	950898	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
R-5	951182	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
R-5	960098	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
R-5	960482	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
R-5	960689	8/6/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
R-5	960905	10/28/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
R-5	961012	11/20/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
R-5	970127	2/19/97	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	NA
R-5	970504	5/28/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
R-5	970919	8/21/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
R-5	971199	11/10/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
R-5	980167	2/18/98	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	<1.2
R-5	980407	5/19/98	<1.0	<1.0	<1.0	<3.0	<6	No	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
M-1	N30974	9/8/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	N31062	10/5/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	N31245	11/11/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	N31389	12/16/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	940032	1/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	940239	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	940497	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND	NA
M-1	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
M-1	941009	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-1	941262	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-1	941624	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-1	950103	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
M-1	950566	5/8/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-1	950899	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-1	951183	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-1	960099	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
M-1	960483	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
M-1	960690	8/6/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
M-1	960906	10/28/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-1	961013	11/20/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-1	970128	2/19/97	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	NA
M-1	970505	5/28/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-1	970920	8/21/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-1	971200	11/10/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-1	980168	2/18/98	5.08	<1.0	<1.0	<3.0	N/A	Yes	ND	<1.2
M-1	980408	5/19/98	<1.0	<1.0	<1.0	<3.0	<6.0	No	ND	<0.1
M-2	N30975	9/8/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-2	N31063	10/5/93	2.0	2.0	<2.0	<2.0	4.0	No	ND	NA
M-2	N31246	11/11/93	2.3	2.0	<2.0	<2.0	4.3	No	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
M-2	N31390	12/16/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-2	940033	1/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-2	940240	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-2	940498	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND	NA
M-2	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
M-2	941010	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-2	941263	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-2	941625	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-2	950104	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
M-2	950567	5/5/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-2	950900	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-2	951184	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-2	960100	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
M-2	960484	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
M-2	960691	8/6/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
M-2	960907	10/28/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-2	961014	11/20/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-2	970129	2/19/97	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	NA
M-2	970506	5/28/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-2	970921	8/21/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-2	971201	11/10/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-2	980169	2/18/98	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	<1.2
M-2	980409	5/19/98	<1.0	<1.0	<1.0	<3.0	<6	No	ND	<0.1
M-3	N30976	9/8/93	116	<2.0	3.0	37.6	157	No	ND	NA
M-3	N31064	10/5/93	306	<2.0	4.0	19	329	No	ND	NA
M-3	N31247	11/11/93	8.4	5.3	<2.0	2.6	16	No	ND	NA
M-3	N31391	12/16/93	42	<2.0	<2.0	<2.0	42	No	ND	NA
M-3	940034	1/13/94	19	2.1	<2.0	<2.0	21	No	ND	NA
M-3	940241	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-3	940499	3/7/94	<0.5	<0.5	<0.5	2.5	3	Yes	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
M-3	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
M-3	941011	6/13/94	3.65	<2.0	<2.0	<2.0	4	No	ND	NA
M-3	941264	9/7/94	2.87	<2.5	<2.5	2.5	5	No	ND	NA
M-3	941626	12/15/94	<2.5	<2.5	<2.5	5.61	6	No	ND	NA
M-3	950105	2/9/95	11.4	<2.5	<2.5	<2.5	11	Yes	ND	NA
M-3	950568	5/8/95	180	67.2	<2.5	53.9	301	No	ND	NA
M-3	950901	8/25/95	11.8	<2.5	<2.5	16.8	29	No	ND	NA
M-3	951185	11/2/95	<2.5	<2.5	<2.5	5.03	5	No	ND	NA
M-3	960101	2/5/96	236	<2.5	5.77	22.2	264	Yes	ND	NA
M-3	960485	5/28/96	88.4	<1.0	5.93	20.3	115	No	ND	NA
M-3	960692	8/6/96	96.4	<1.0	2.5	3.27	102	No	ND	NA
M-3	960908	10/29/96	17.4	<1.0	1.55	2.23	21	No	ND	NA
M-3	961015	11/20/96	70.2	<1.0	1.89	<3	72	No	ND	NA
M-3	970130	2/19/97	2.44	<1.0	2.61	7.43	12	Yes	ND	NA
M-3	970507	5/28/97	38	6.1	<1	13.5	58	No	ND	20.1
M-3	970922	8/21/97	<1	<1	<1	7.68	8	No	ND	<1.2
M-3	971202	11/10/97	<1	<1	<1	7.68	8	No	ND	<1.2
M-3	980170	2/18/98	<1	<1	<1	<3	<6	Yes	ND	<1.2
M-3	980410	5/19/98	26.7	<1	<1	2.52	29	No	ND	0.32
M-3	980589	8/26/98	<1	2.8	<1	<3	3	No	ND	0.30
M-3	980786	11/5/98	1.93	3.2	<1	<3	5	No	ND	NA
M-4	N30977	9/8/93	213	13.3	58	519	803	No	ND	NA
M-4	N31065	10/5/93	302	2.0	55	395	754	No	ND	NA
M-4	N31248	11/11/93	234	2.0	56	383	675	No	ND	NA
M-4	N31392	12/16/93	171	<2.0	34.3	244	449	No	ND	NA
M-4	940035	1/13/94	175	2.5	38	288	504	No	ND	NA
M-4	940242	2/10/94	137	<2.0	29.8	192	359	No	ND	NA
M-4	940500	3/7/94	120	<2.5	27	220	367	Yes	ND	NA
M-4	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
M-4	941012	6/13/94	151	<2.0	28.4	246	425	No	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
M-4	941265	9/7/94	145	<2.5	24.1	231	400	No	ND	NA
M-4	941628	12/15/94	184	<2.5	22.3	215	421	No	ND	NA
M-4	950106	2/9/95	160	<2.5	19.6	186	366	Yes	ND	NA
M-4	950569	5/8/95	108	<2.5	11.7	119	239	No	ND	NA
M-4	950902	8/25/95	29.3	<2.5	13	116	158	No	ND	NA
M-4	951187	11/2/95	15.1	<2.5	12.9	136	164	No	ND	NA
M-4	960102	2/5/96	33.5	<2.5	19.3	209	262	Yes	ND	NA
M-4	960486	5/28/96	17	<1.0	8.93	93.6	120	No	ND	NA
M-4	960693	8/6/96	2.77	<1.0	3.5	38.5	45	No	ND	NA
M-4	960909	10/29/96	1.03	<1.0	3.66	55.5	60	No	ND	NA
M-4	961016	11/22/96	3.28	<1.0	7.77	90.3	101	No	ND	NA
M-4	970131	2/19/97	17.7	1.5	8.3	54	82	Yes	ND	NA
M-4	970508	5/28/97	53.6	11.6	43.4	366	475	No	ND	225
M-4	970923	8/2/97	39.7	3.2	1.51	100	145	No	ND	20.8
M-4	971203	11/10/97	44.8	<1.0	<1.0	71	116	No	ND	1.31
M-4	980171	2/18/98	91.0	<1.0	1.1	74.9	167	Yes	ND	<1.2
M-4	980411	5/19/98	46.6	<1.0	2.81	83.1	133	No	ND	0.21
M-4	980590	8/26/98	51.0	2.6	2.08	45.1	101	No	ND	43.9
M-4	980787	11/5/98	69.0	<1.0	<1.0	33	102	No	ND	NA
M-5	N30979	9/8/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	N31066	10/5/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	N31250	11/11/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	N31393	12/16/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	940036	1/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	940243	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	940501	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND	NA
M-5	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND	NA
M-5	941013	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND	NA
M-5	941267	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-5	941629	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches	Nitrates PPM
M-5	950107	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
M-5	950570	5/8/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-5	950904	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-5	951188	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND	NA
M-5	960103	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND	NA
M-5	960487	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND	NA
M-5	960694	8/6/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-5	960910	10/29/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-5	961017	11/21/96	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	NA
M-5	970132	2/19/97	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	NA
M-5	970509	5/28/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-5	970925	8/21/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-5	971204	8/21/97	<1.0	<1.0	<1.0	<3.0	N/A	No	ND	<1.2
M-5	980172	2/18/98	<1.0	<1.0	<1.0	<3.0	N/A	Yes	ND	<1.2
M-5	980413	5/19/98	<1.0	<1.0	<1.0	<3.0	<6	No	ND	<0.1

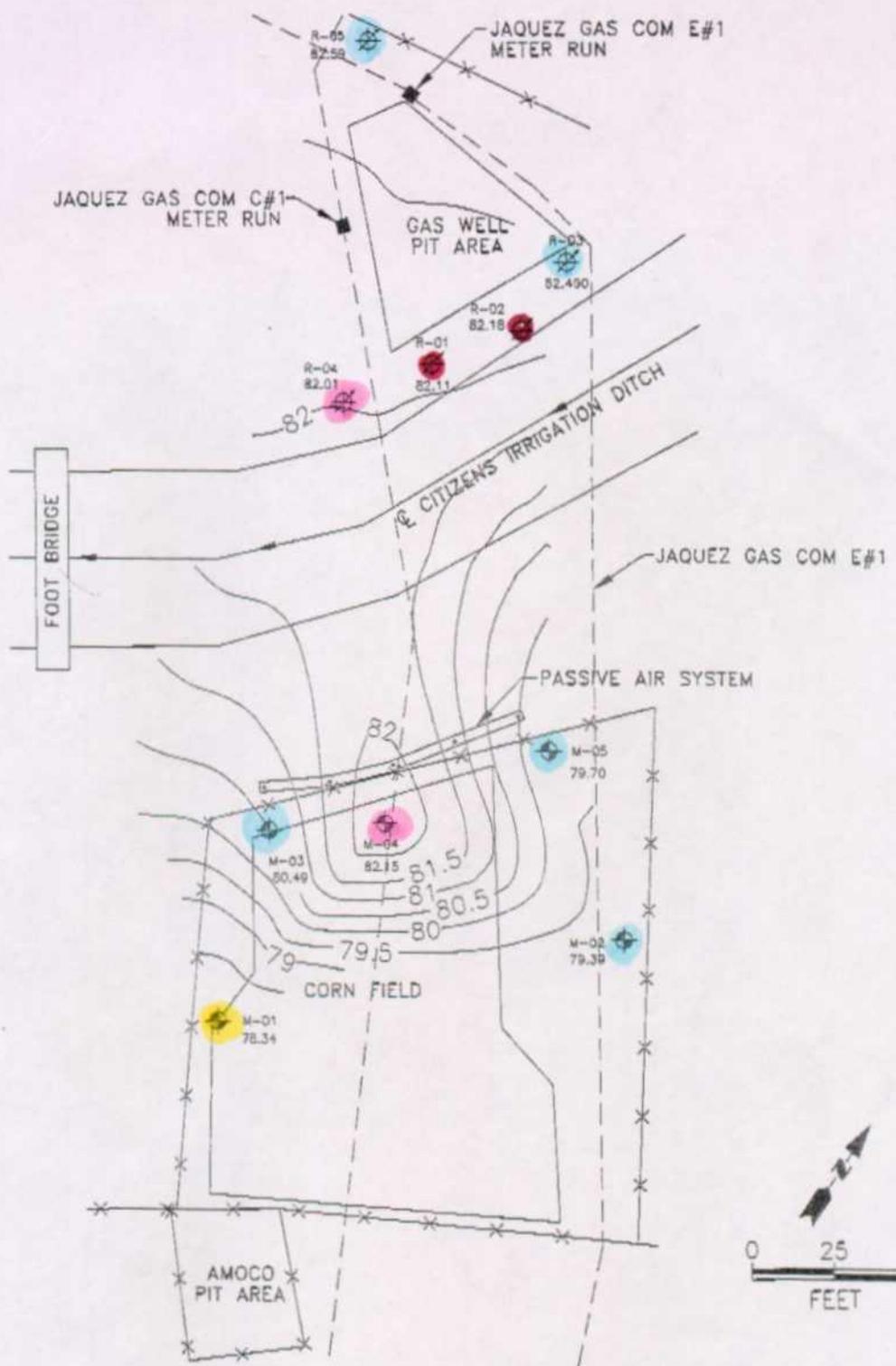
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**Figure 1 - 1998 1st Quarter Groundwater Elevation Map**

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C:\V\ENG-14\HYDRO\MAPS\80226.DWG  
 COL1



TITLE:  
**JAQUEZ GAS COM E#1 & C#1**  
**GROUNDWATER ELEVATION CONTOURS**  
 FEBRUARY 11, 1998

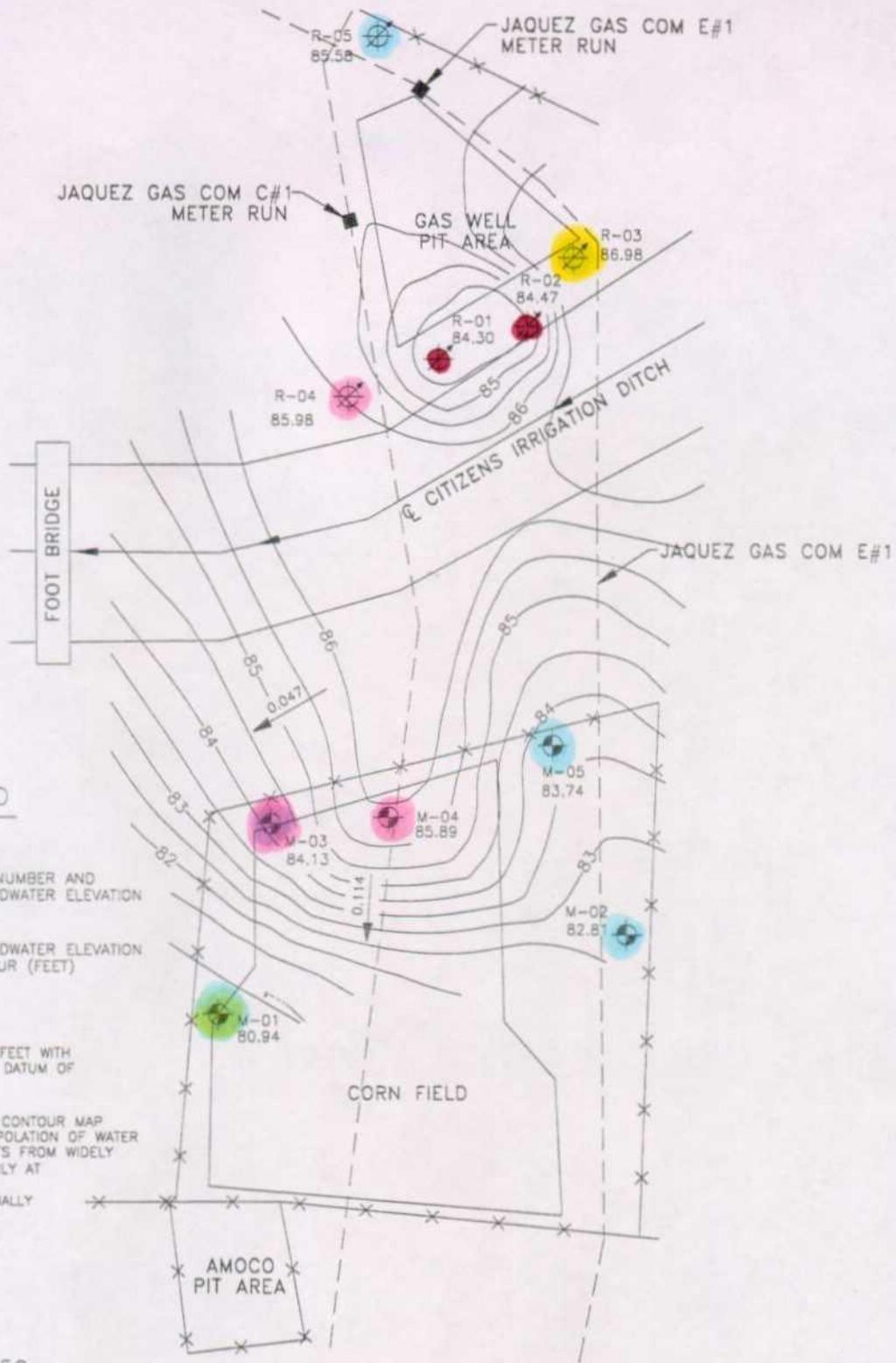
OWN:	MRC	DES.:	SP
CHKD:		APPD:	
DATE:	03/18/98	REV.:	B

PROJECT NO.:	17444
EL PASO FIELD SERVICES COMPANY	
<b>FIGURE 1</b>	

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**Figure 2 - 1998 2nd Quarter Groundwater Elevation Map**

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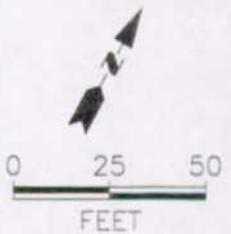


**LEGEND**

- M-04 85.89 WELL NUMBER AND GROUNDWATER ELEVATION
- 82 GROUNDWATER ELEVATION CONTOUR (FEET)

**NOTES**

1. ELEVATIONS ARE IN FEET WITH RESPECT TO A SITE DATUM OF 100.00 FEET.
2. THIS GROUNDWATER CONTOUR MAP IS BASED ON INTERPOLATION OF WATER LEVEL MEASUREMENTS FROM WIDELY SPACED WELLS. ONLY AT WELL LOCATION IS THE ELEVATION ACTUALLY KNOWN.



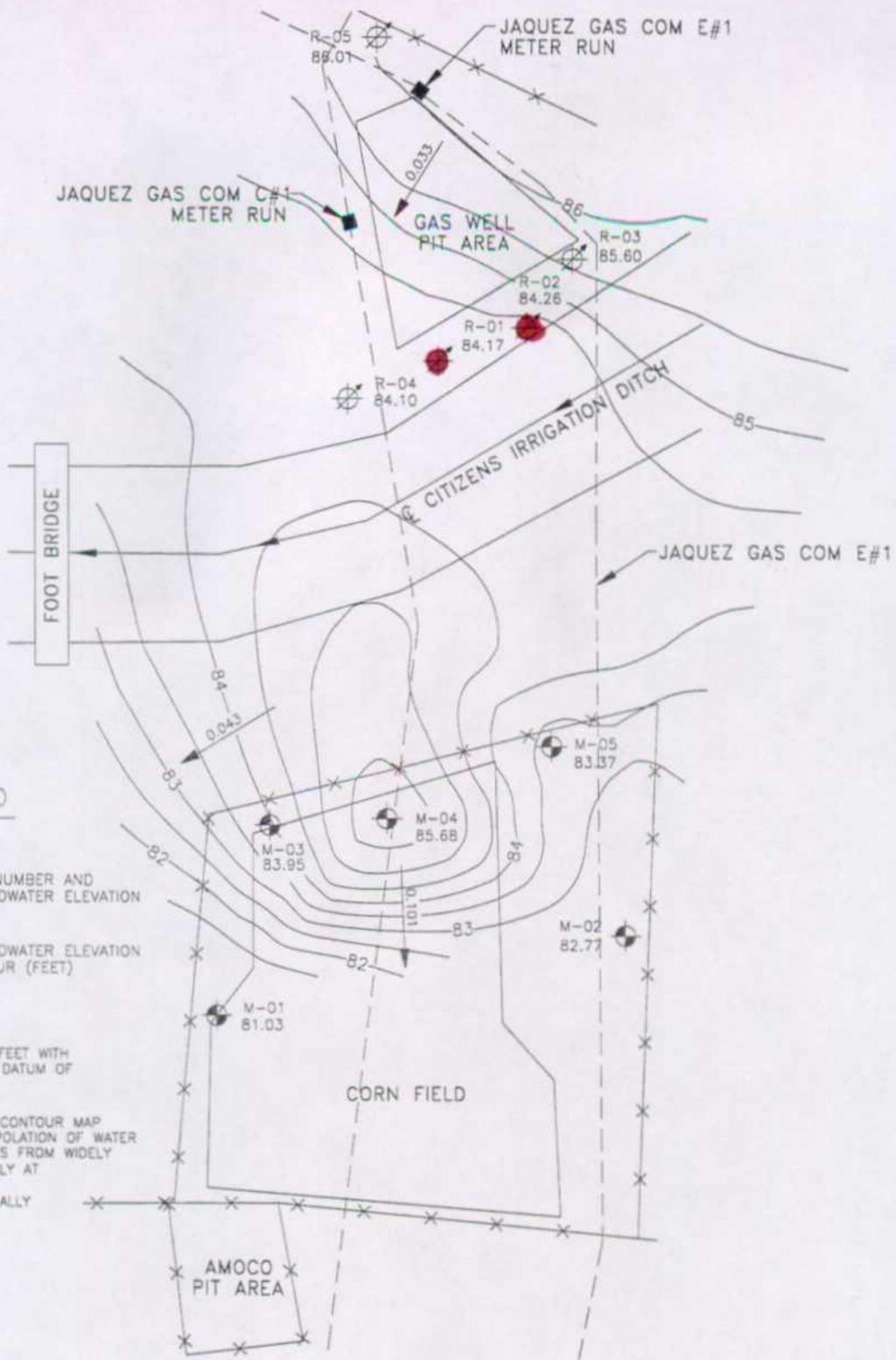
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	TITLE:	DWN:	DES.:	PROJECT NO.:
	JAQUEZ GAS COM E#1 & C#1	MRC	MRC	17444
	GROUNDWATER ELEVATION CONTOURS	CHKD:	APPD:	EL PASO FIELD JAQUEZ, NEW MEXICO
MAY 20, 1998	DATE:	REV.:	<b>FIGURE 2</b>	
	02/09/99	A		

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**Figure 3 - 1998 3rd Quarter Groundwater Elevation Map**

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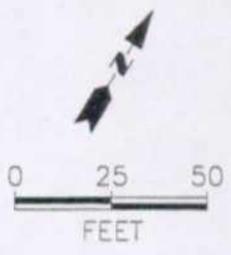


**LEGEND**

- M-02 82.77 WELL NUMBER AND GROUNDWATER ELEVATION
- 82 GROUNDWATER ELEVATION CONTOUR (FEET)

**NOTES**

1. ELEVATIONS ARE IN FEET WITH RESPECT TO A SITE DATUM OF 100.00 FEET.
2. THIS GROUNDWATER CONTOUR MAP IS BASED ON INTERPOLATION OF WATER LEVEL MEASUREMENTS FROM WIDELY SPACED WELLS. ONLY AT WELL LOCATION IS THE ELEVATION ACTUALLY KNOWN.



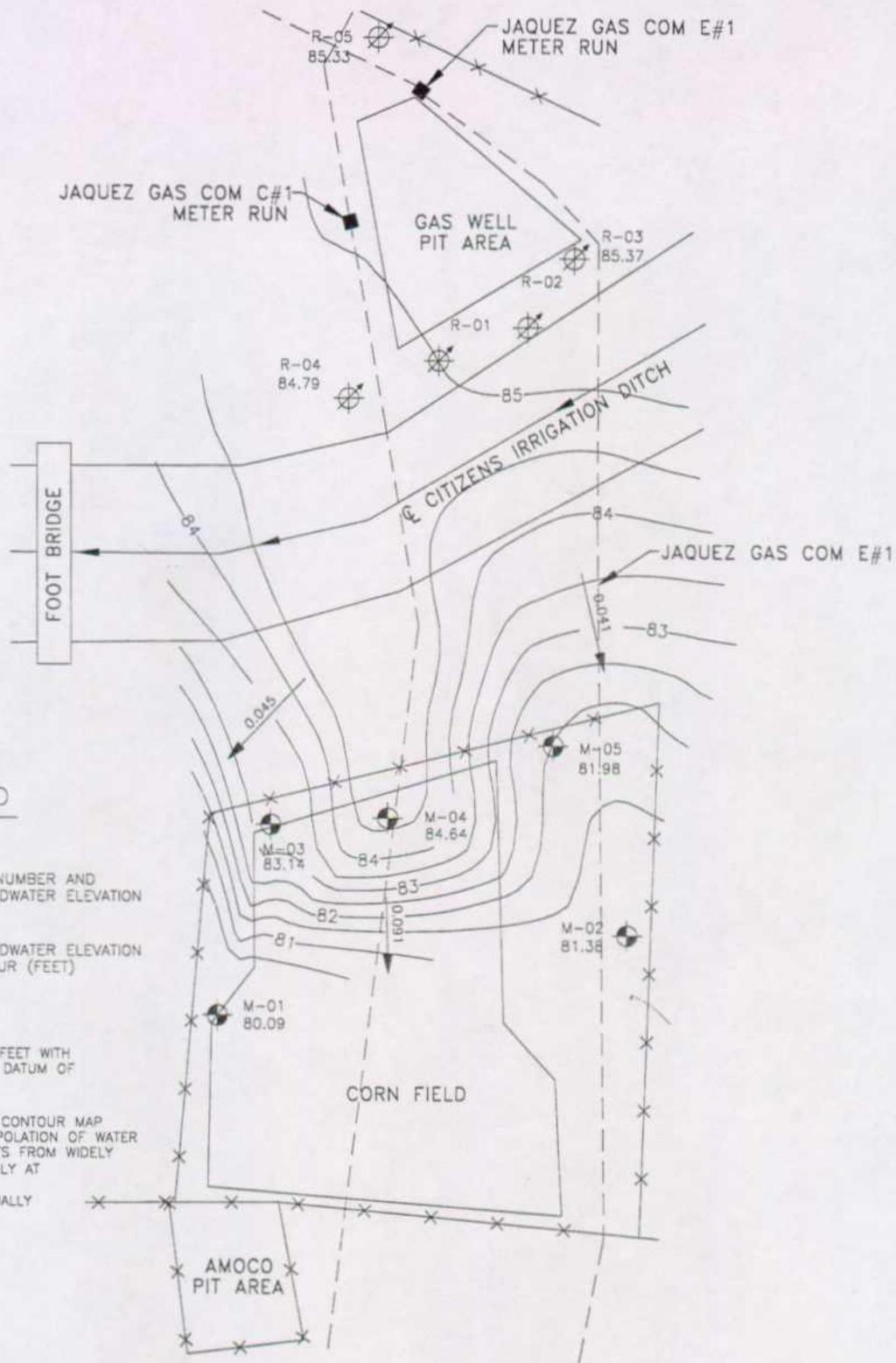
COL2 G:\EPNG-NA\HYDRO\MAPS\1998\F00W9810.DWG

	TITLE:	DWN:	DES.:	PROJECT NO.:
	JAQUEZ GAS COM E#1 & C#1	MRC	CI	17444
	GROUNDWATER ELEVATION CONTOURS	CHKD:	APPD:	EL PASO FIELD JAQUEZ, NEW MEXICO
OCTOBER 8, 1998	DATE:	REV.:	FIGURE 3	
	02/01/99	A		

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**Figure 4 - 1998 4th Quarter Groundwater Elevation Map**

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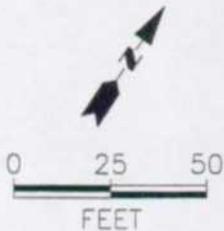


**LEGEND**

- M-02 81.38 WELL NUMBER AND GROUNDWATER ELEVATION
- 81 GROUNDWATER ELEVATION CONTOUR (FEET)

**NOTES**

1. ELEVATIONS ARE IN FEET WITH RESPECT TO A SITE DATUM OF 100.00 FEET.
2. THIS GROUNDWATER CONTOUR MAP IS BASED ON INTERPOLATION OF WATER LEVEL MEASUREMENTS FROM WIDELY SPACED WELLS. ONLY AT WELL LOCATION IS THE ELEVATION ACTUALLY KNOWN.



COL2 G:\EPNG-NM\HYDRO\MAPS\1998\EGCW9817.DWG

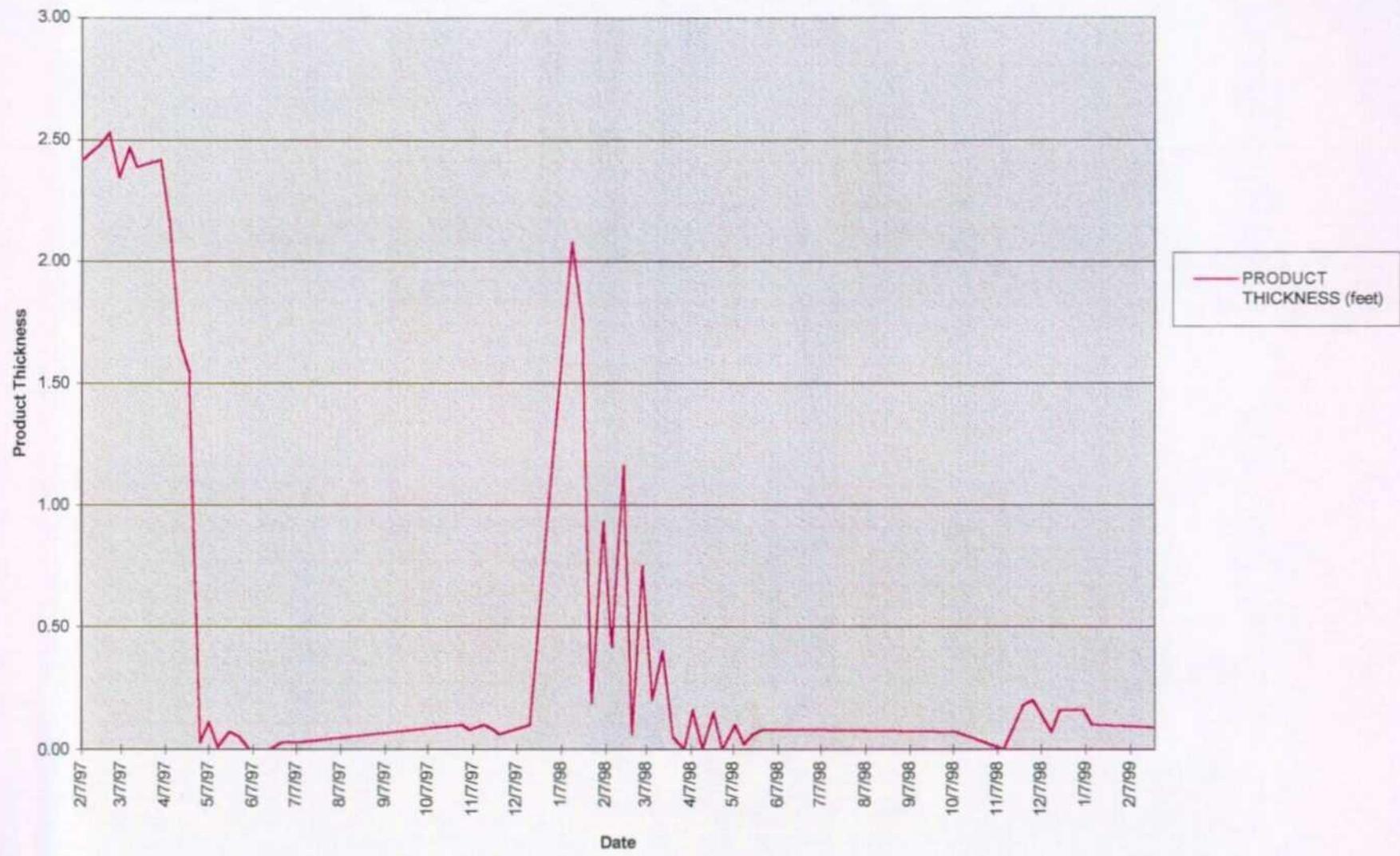
	TITLE: <b>Jaquez Gas Com E#1 &amp; C#1          GROUNDWATER ELEVATION CONTOURS          DECEMBER 14, 1998</b>		DWN: MRC	DES.: CI	PROJECT NO.: 17444 EL PASO FIELD JAQUEZ, NEW MEXICO
			CHKD:	APPD:	
			DATE: 02/01/99	REV.: A	

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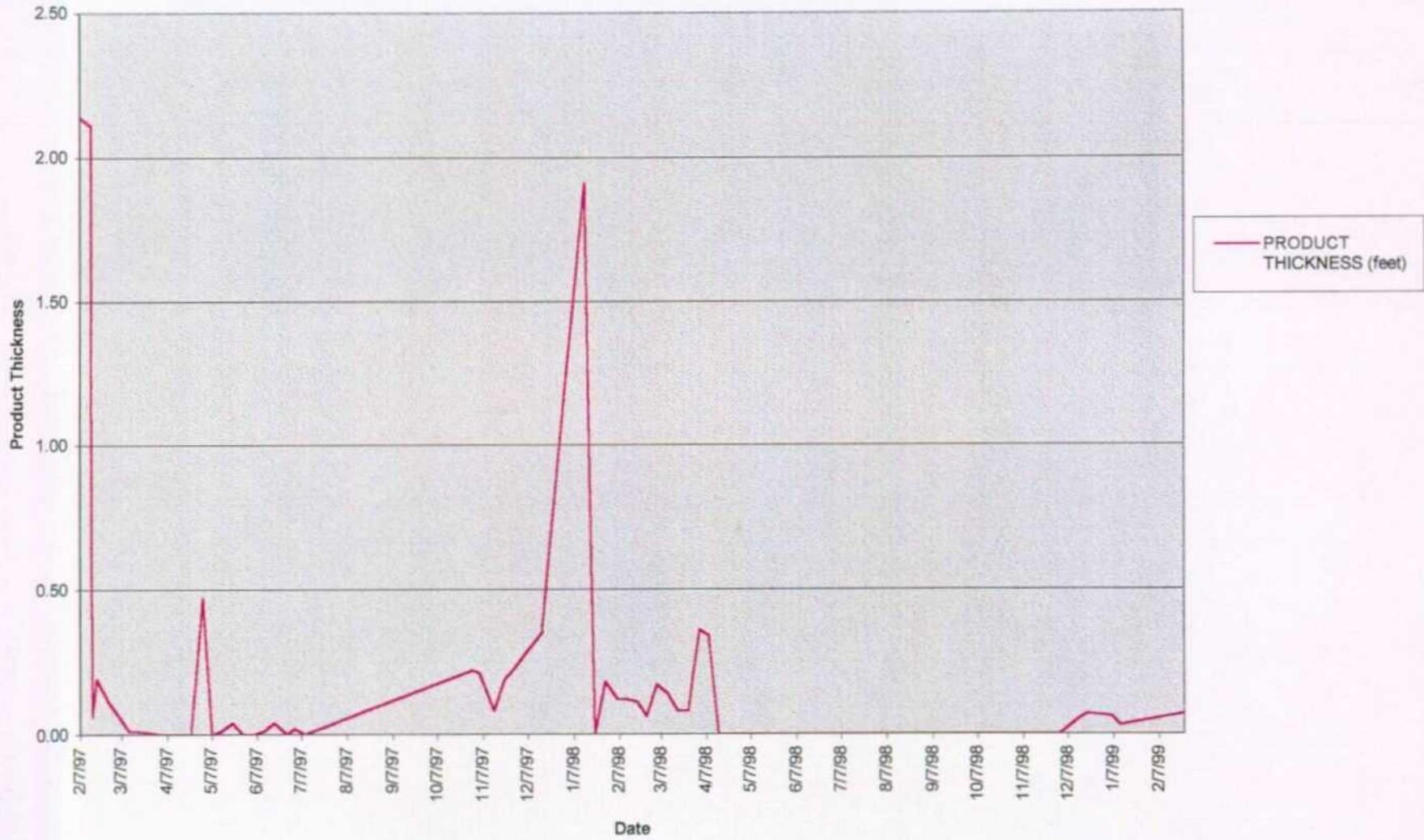
**Appendix A - Product Thickness vs. Time**  
**for R-1 and R-2**

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Product Thickness vs. Time  
R-1



Product Thickness vs. Time  
R-2

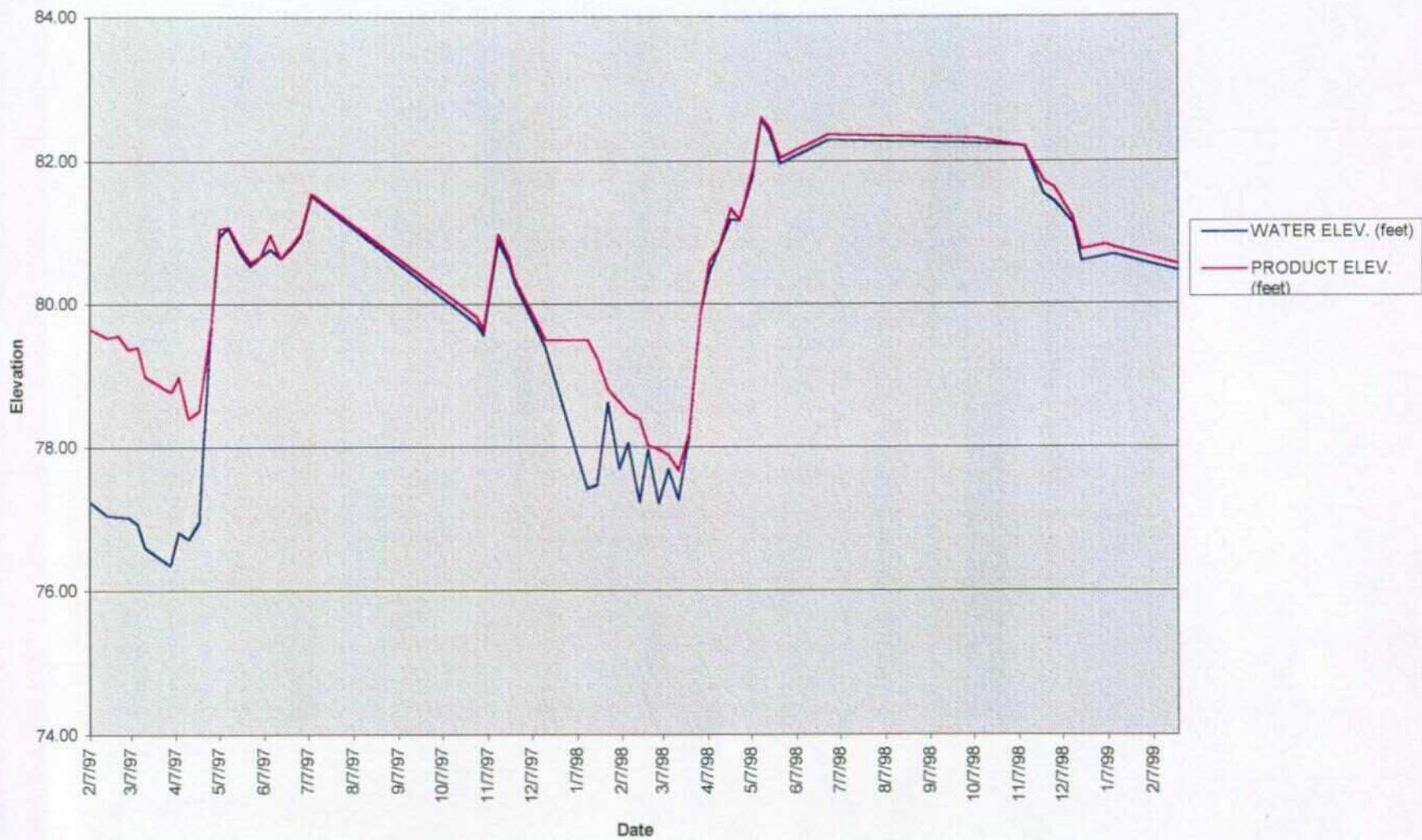


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**Appendix B - Groundwater Elevations vs. Time**

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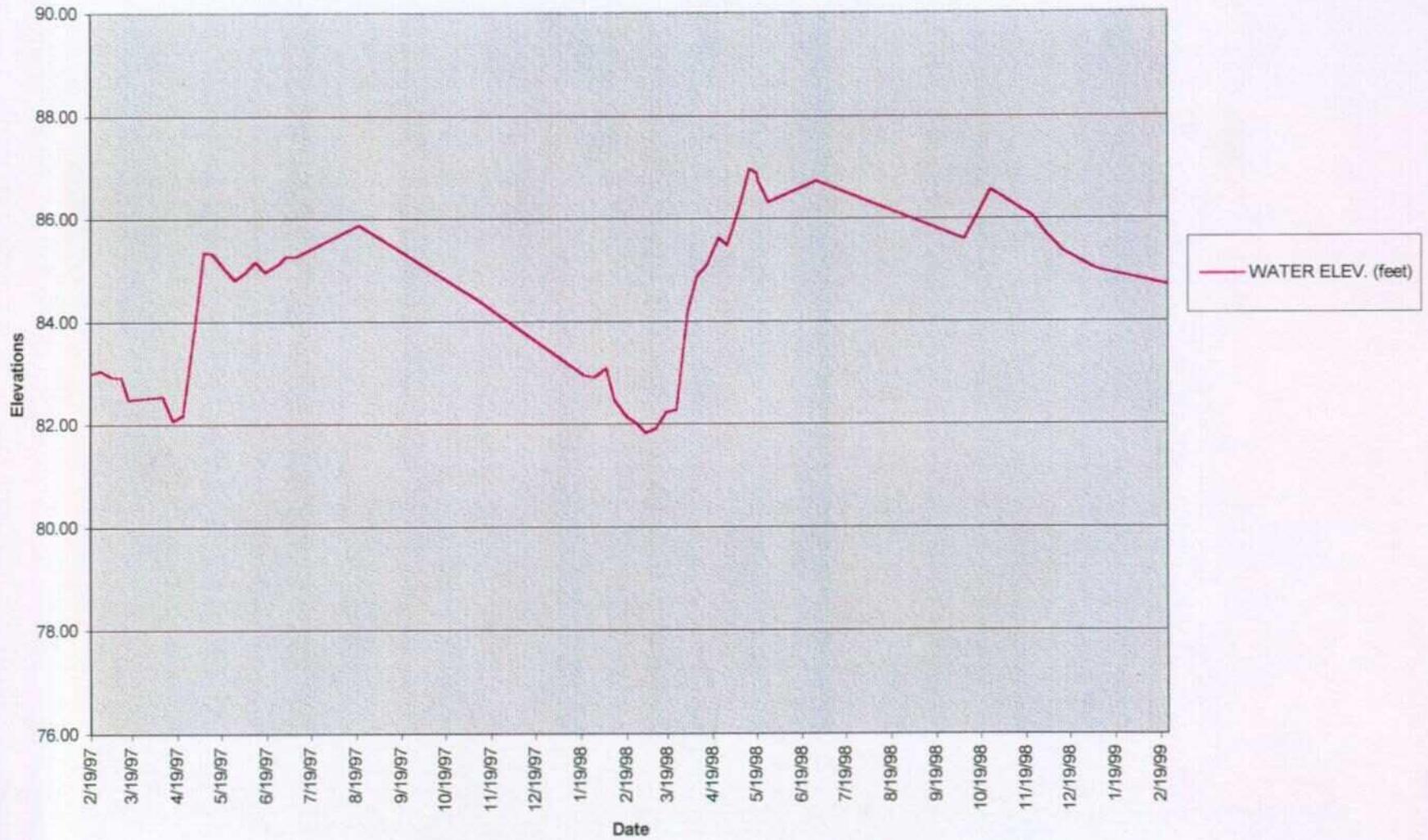
Water Level Elevations and Product Level Elevations vs. Time  
R-1



Water Level Elevations and Product Level Elevations vs. Time  
R-2



Water Level Elevations vs. Time  
R-3



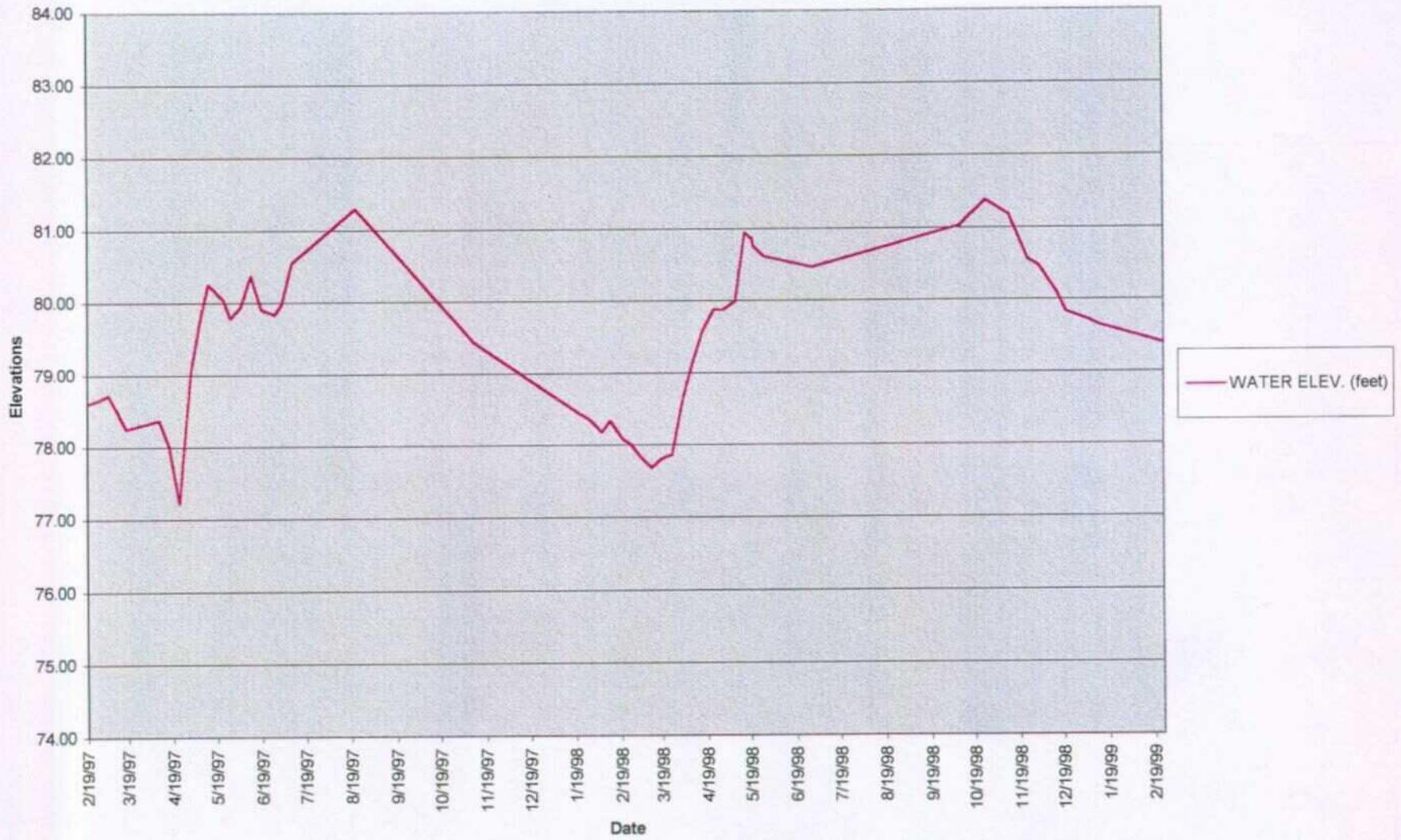
Water Level Elevations vs. Time  
R-4



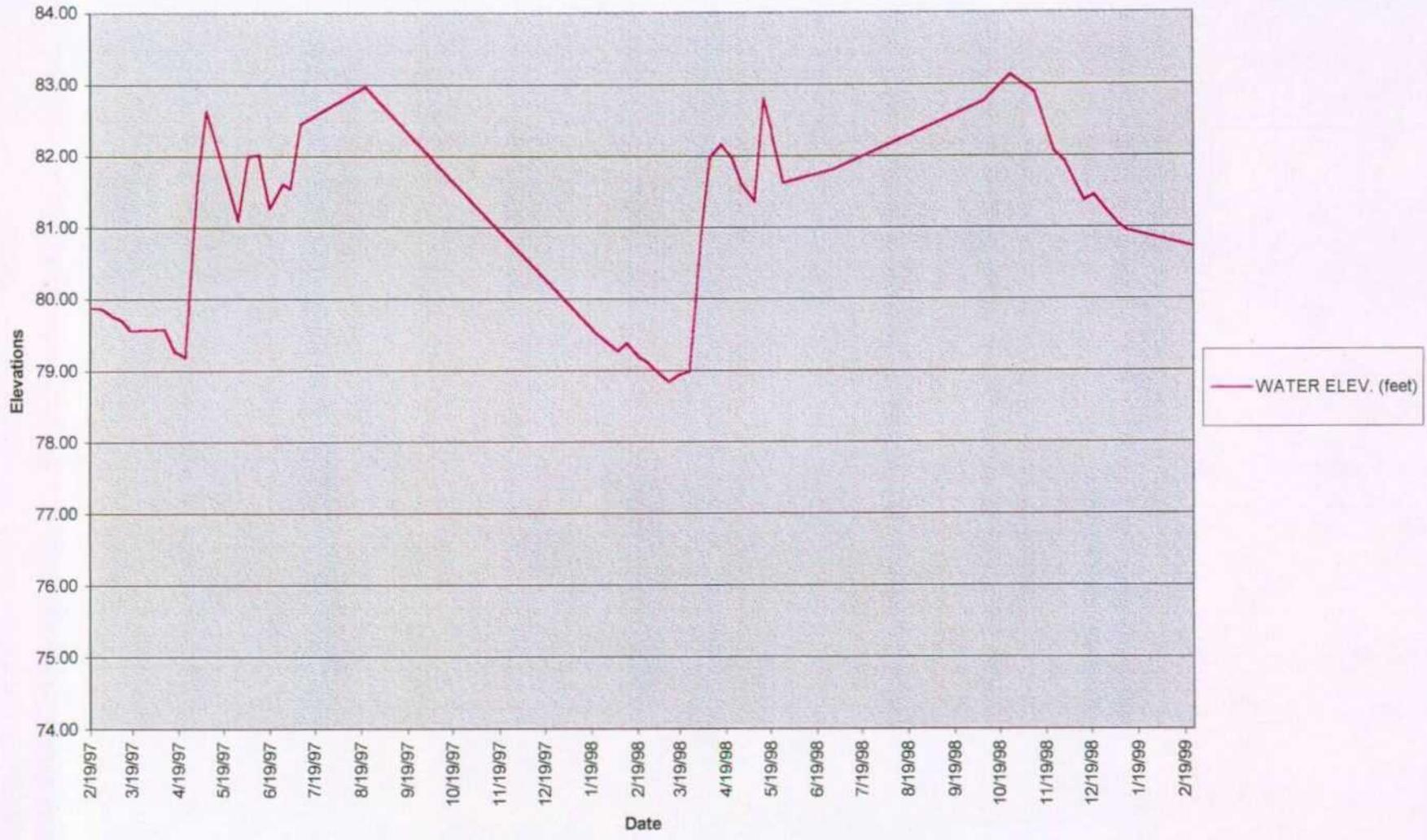
Water Level Elevation vs. Time  
R-5



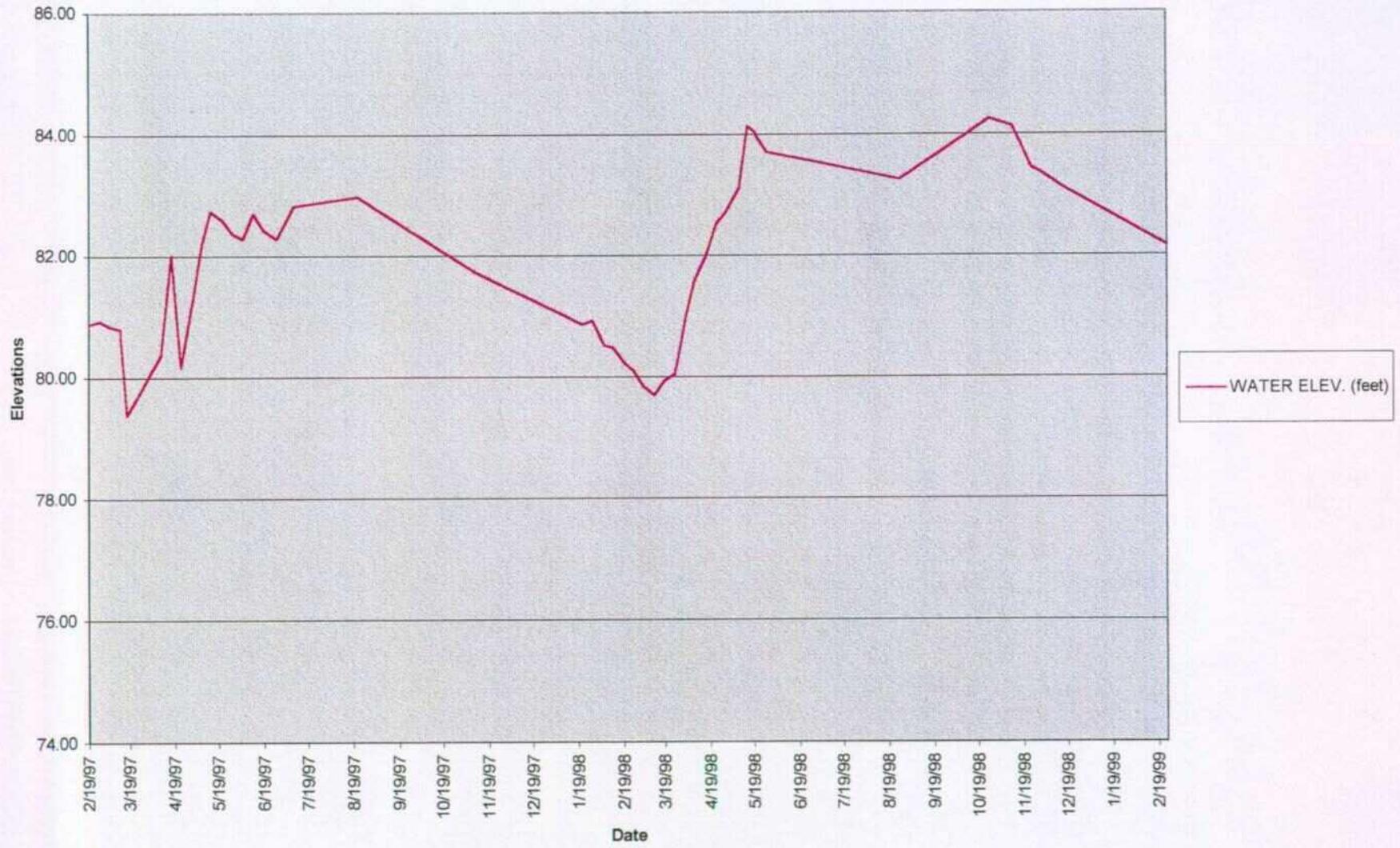
Water Level Elevation vs. Time  
M-1



Water Elevation vs. Time  
M-2



Water Level Elevation vs. Time  
M-3



Water Level Elevations vs. Time  
M-4



Water Level Elevations vs. Time  
M-5



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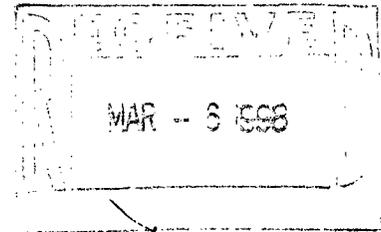
**Appendix C - BTEX and PAH Analytical Lab Reports for  
the Current Period**

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**March 4, 1998**

**1st Quarter 1998 REPORT**



**Jaquez Corn Field  
Monitor Well Analytical Results  
Lab Sample #'s 980164 to 980172  
Sampled February 18, 1998  
Sampled by Dennis Bird**

**Report Distribution:**

Sandra Miller  
Scott Pope - Philip Services Company  
Results File

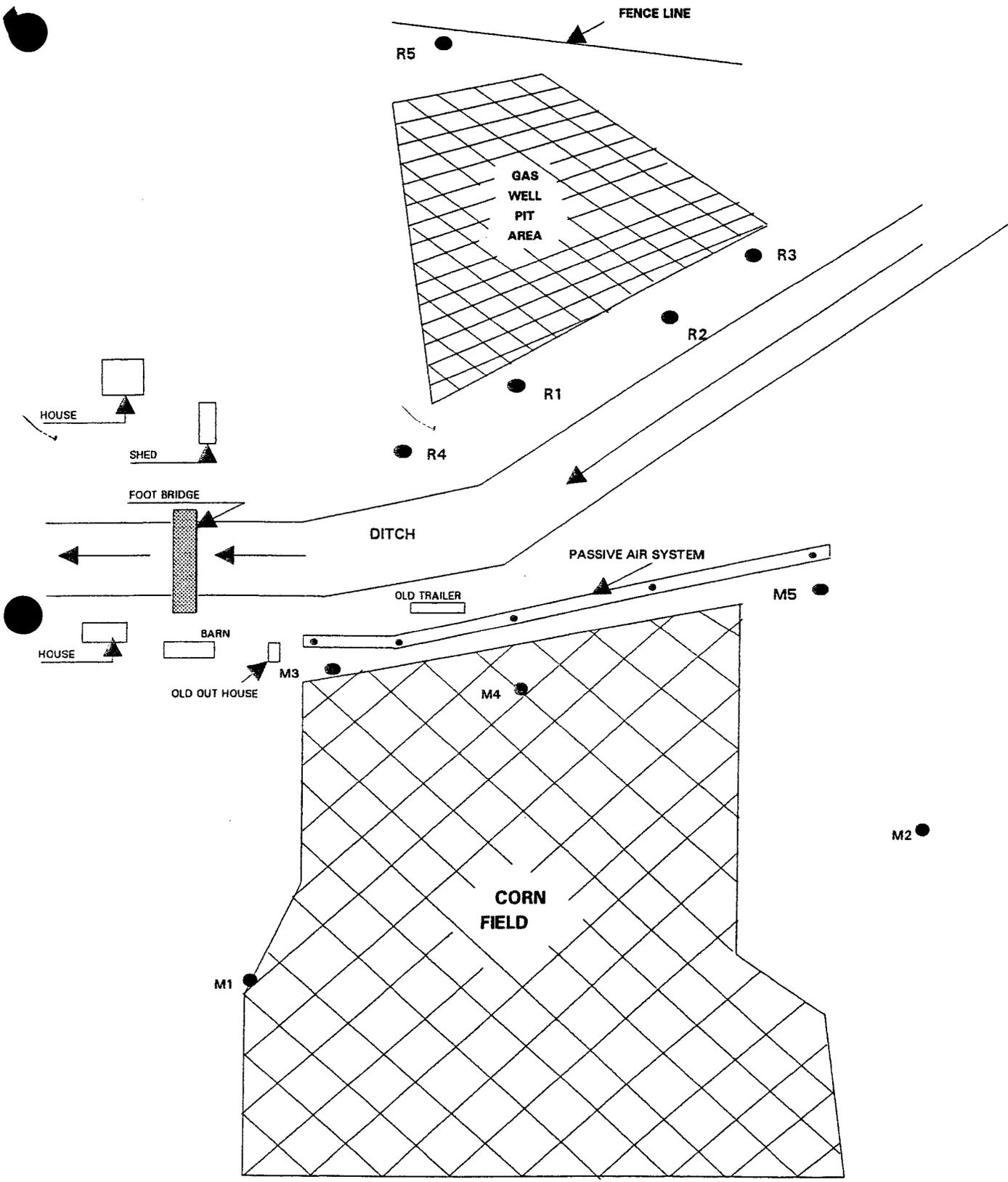
**Attachments**

CHAIN OF CUSTODY RECORD

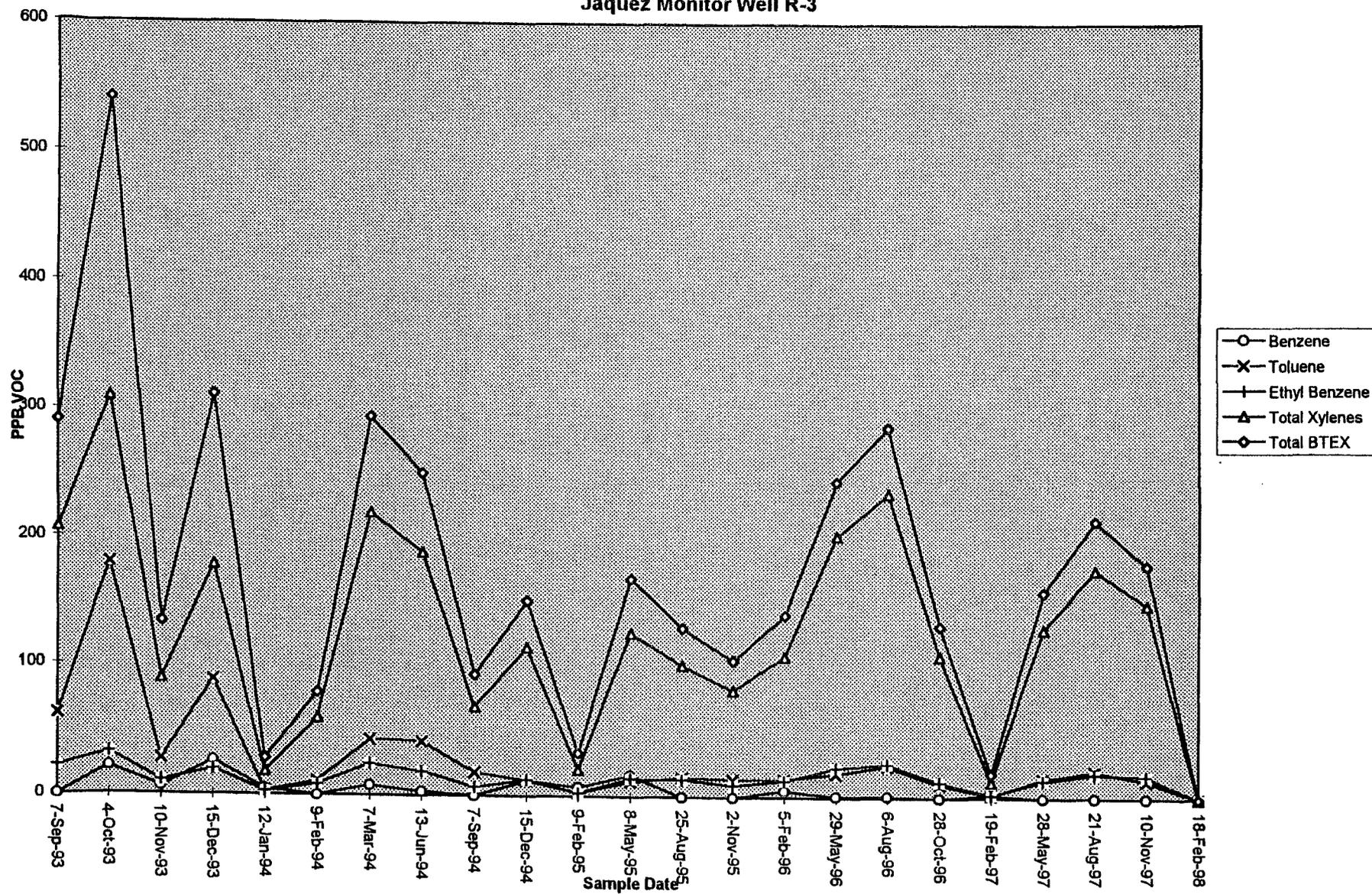
Project No.		Project Name				Type and No. of Sample Containers	Requested Analysis				Remarks
		JAQUEZ									
Samplers: (Signature)					Date:						
JENNIE BIRD					2-18-98						
MATRIX	Date	Time	Comp.	GRAB	Sample Number						
WATER	2-18-98	1005		X	980164 ✓	G-1	40C	X	X		MONITOR WELL R-3
WATER	2-18-98	1005		X	980165 ✓	G-1	40C	X	X		MONITOR WELL R-3 FIELD DUP
WATER	2-18-98	1118		X	980166 ✓	G-1	40C	X	X		MONITOR WELL R-4
WATER	2-18-98	1225		X	980167 ✓	G-1	40C	X	X		MONITOR WELL R-5
WATER	2-18-98	1415		X	980168 ✓	G-1	40C	X	X		MONITOR WELL M-1
WATER	2-18-98	1438		X	980169 ✓	G-1	40C	X	X		MONITOR WELL M-2
WATER	2-18-98	1556		X	980170 ✓	G-1	40C	X	X		MONITOR WELL M-3
WATER	2-18-98	1738		X	980171 ✓	G-1	40C	X	X		MONITOR WELL M-4
WATER	2-18-98	1801		X	980172 ✓	G-1	40C	X	X		MONITOR WELL M-5
WATER	2-18-98			X		G-1	40C	X			TRIP BLANK

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
JENNIE BIRD	2-18-98 1935				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks:	
		MARION HIPPE	2/20/98 0710		
Carrier Co:	Carrier Phone No.	Date Results Reported / by: (Signature)			
Air Bill No.:					



Jaquez Monitor Well R-3





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980164
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1005
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	R-3	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 88.5 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Fadden*

Date: \_\_\_\_\_

2/24/98

980164BTEXJaquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980164
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1005
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW R-3

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	<0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	02/19/98

Remarks:

Reported By: CV

Approved By: *John Latta*

Date: 3/4/98

980164GCSSNtrate-Nitrite, 3/3/98

**Well Development and Purging Data**

- Development
- Purging

Well Number R-3

Meter Code \_\_\_\_\_

Site Name JAGUEZ

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 22.10  
 Initial Depth to Water (feet) 17.07  
 Height of Water Column in Well (feet) 5.03  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other O.D. CHEMETS KIT

**Methods of Development**

- Pump                      Bailer
- Centrifugal             Bottom Valve
  - Submersible            Double Check Valve
  - Peristaltic              Stainless-steel Kemmerer
  - Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		3.3	10.0
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
2-18-98	0926										11.2	6.08	937		
2-18-98	0931						3.0	3.0			11.3	6.18	753		
2-18-98	0935						2.0	5.0			11.3	6.18	452		
2-18-98	0954						5.0	10.0			10.9	6.54	373	1.5	

Comments \_\_\_\_\_

Developer's Signature Tennis Bied

Date 2-18-98

Reviewer John Larkin

Date 2/24/98



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JACQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980165
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1005
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	R-3 Field Dup	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 91.2 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Sullivan*

Date: \_\_\_\_\_

2/24/98

980165BTEXJacquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory

Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980165
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1005
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW R-3 Field Dup

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	<0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	02/19/98

ab Remarks:

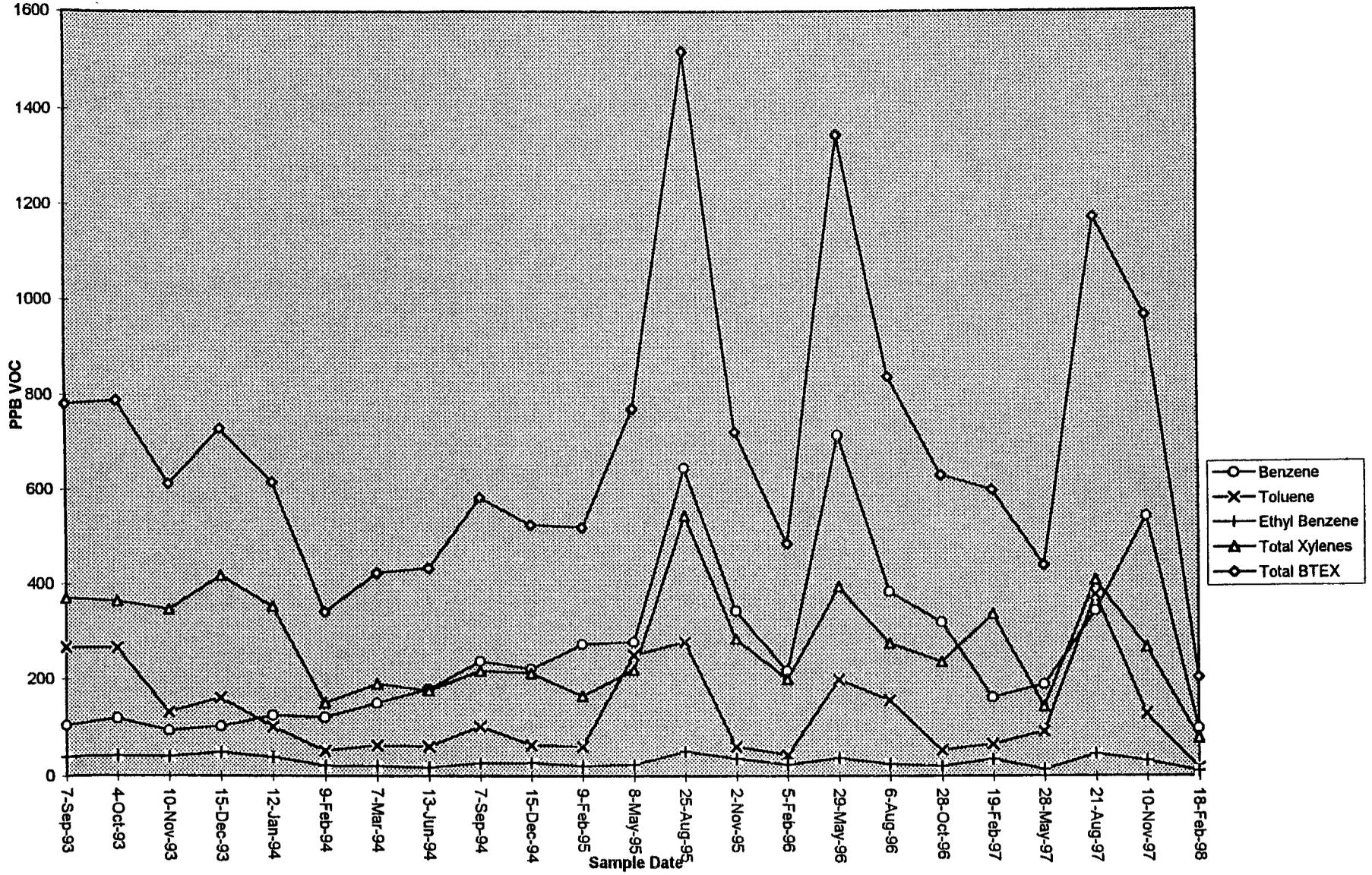
Reported By: CV

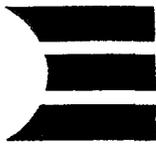
Approved By: *John Larch*

Date: 3/4/98

980165GCSSNitrate-Nitrite, 3/3/98

### Jaquez Monitor Well R-4





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAEQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980166
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1118
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	R-4	Water

Field Remarks:

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	98.0	PPB	2	D		
TOLUENE	15.9	PPB	2	D		
ETHYL BENZENE	10.0	PPB	2	D		
TOTAL XYLENES	79.3	PPB	2	D		
TOTAL BTEX	203	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 86.7 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative:

Approved By:

Date:

2/24/98

980166BTEXJacquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980166
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1118
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW R-4

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	<0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	02/19/98

Remarks:

Reported By: CV

Approved By: John L. Lohr

Date: 3/4/98

980166GCSSNitrate-Nitrite, 3/3/98

**Well Development and Purging Data**

Site Name JARVIS

- Development  
 Purging

Well Number P-4

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 22.10  
 Initial Depth to Water (feet) 16.51  
 Height of Water Column in Well (feet) 5.59  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>3.7</u>	<u>11.1</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Methods of Development**

- Pump Bailer  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other \_\_\_\_\_

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>2-18-98</u>	<u>1030</u>										<u>12.4</u>	<u>6.73</u>	<u>565</u>		
<u>2-18-98</u>	<u>1036</u>						<u>5.0</u>	<u>5.0</u>			<u>12.7</u>	<u>7.10</u>	<u>609</u>		
<u>2-18-98</u>	<u>1059</u>						<u>5.0</u>	<u>10.0</u>			<u>13.6</u>	<u>7.47</u>	<u>1040</u>		
<u>2-18-98</u>	<u>1111</u>						<u>3.0</u>	<u>13.0</u>			<u>13.6</u>	<u>7.48</u>	<u>1075</u>	<u>1.5</u>	

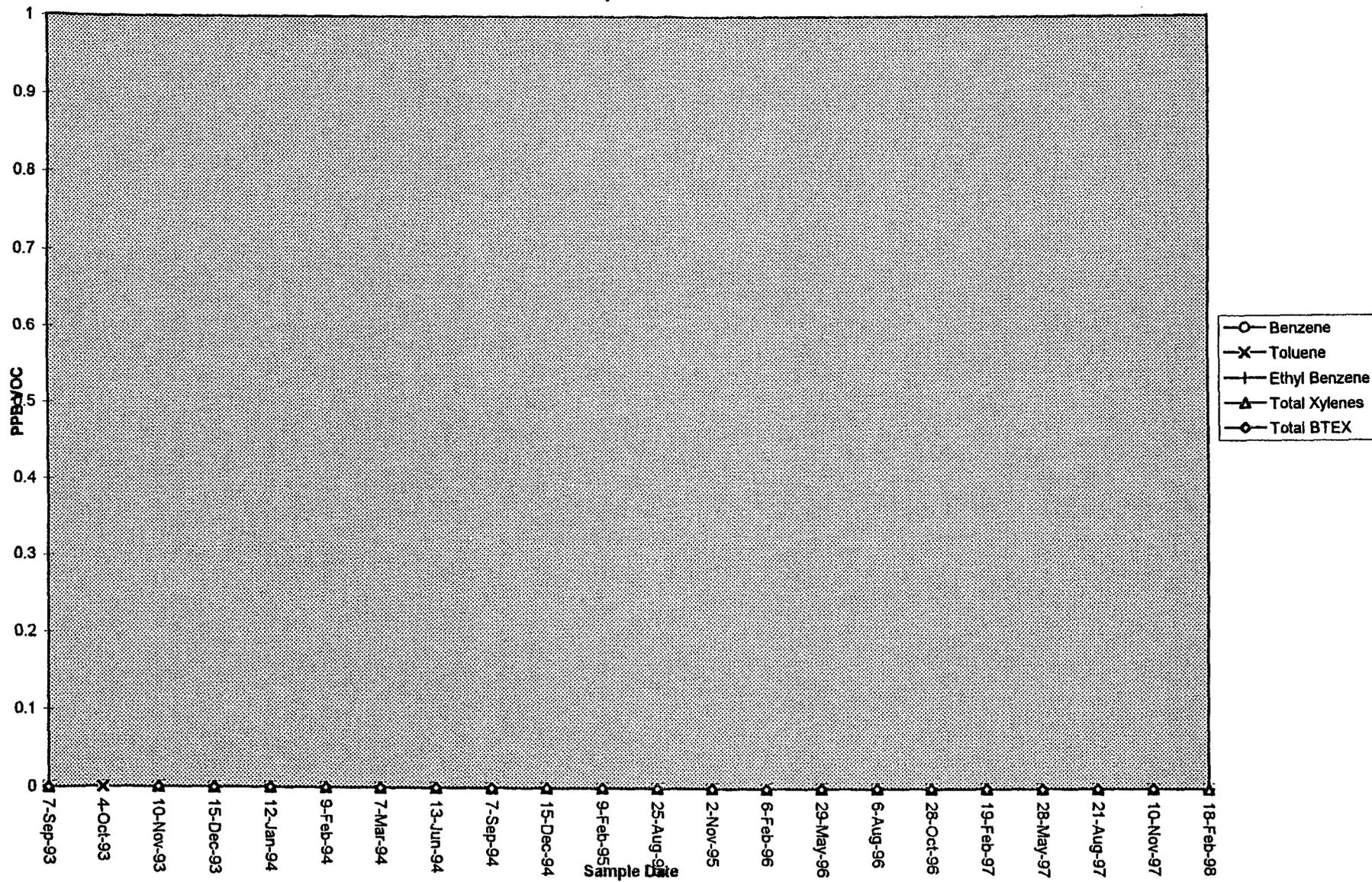
Comments \_\_\_\_\_

Developer's Signature Jennio Bied

Date 2-18-98 Reviewer \_\_\_\_\_

John Landa Date 2/24/98

# Jaquez Monitor Well R-5





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT Jaquez Cornfield

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980167
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1225
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	R-5	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 88.8 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Lavelle*

Date: \_\_\_\_\_

2/24/98

980167BTEXJaquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980167
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1225
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW R-5

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	<0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	02/19/98

ab Remarks:

Reported By: PV

Approved By: John Jordan

Date: 3/4/98

980167GCSSNitrate-Nitrite, 3/3/98

**Well Development and Purging Data**

Site Name JARVEZ

- Development
- Purging

Well Number P-5

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Methods of Development**

- Pump Centrifugal
- Bailer Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 24.40  
 Initial Depth to Water (feet) 19.23  
 Height of Water Column in Well (feet) 5.17  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>3.4</u>	<u>10.3</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Water Disposal**

ON SITE BARRELS

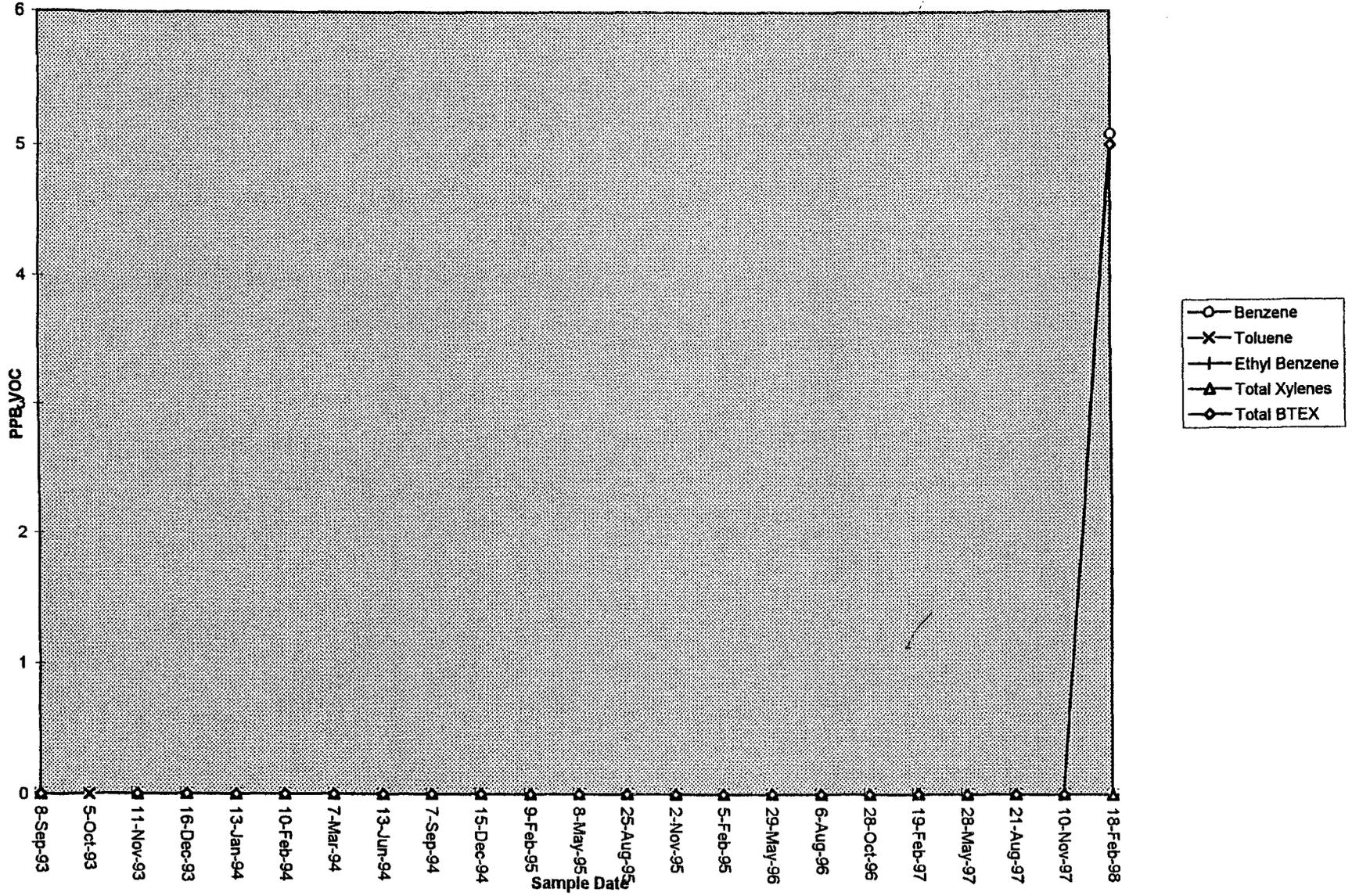
**Water Removal Data**

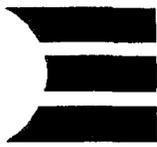
Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>2-18-98</u>	<u>1138</u>										<u>14.8</u>	<u>7.37</u>	<u>4250</u>		
<u>2-18-98</u>	<u>1142</u>						<u>3.0</u>	<u>3.0</u>			<u>14.8</u>	<u>7.30</u>	<u>4280</u>		
<u>2-18-98</u>	<u>1154</u>						<u>1.0</u>	<u>4.0</u>			<u>14.5</u>	<u>7.41</u>	<u>4350</u>	<u>2.5</u>	

Comments THE WELL BAILED DRY @ 4.0 GALLONS.

Developer's Signature Dennis Bird Date 2-18-98 Reviewer John Lardi Date 2/24/98

Jaquez Monitor Well M-1





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980168
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1415
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	M-1	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	5.08	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	5	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 86.5 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: John Fatchi Date: 2/24/98  
980168BTEXJaquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980168
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1415
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW M-1

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	<0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	02/19/98

ab Remarks:

Reported By: CV

Approved By: John Loder

Date: 3/3/98

**Well Development and Purging Data**

Site Name JAVAZ

- Development
- Purging

Well Number M-1

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
 Initial Depth to Water (feet) 8.64  
 Height of Water Column in Well (feet) 8.66  
 Diameter (inches): Well 4 Gravel Pack

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Methods of Development**

- Centrifugal
- Bailer Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>5.7</u>	<u>17.2</u>
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>2-18-98</u>	<u>1314</u>										<u>13.0</u>	<u>6.90</u>	<u>274</u>		
<u>2-18-98</u>	<u>1319</u>						<u>5.0</u>	<u>5.0</u>			<u>10.8</u>	<u>7.09</u>	<u>278</u>		
<u>2-18-98</u>	<u>1329</u>						<u>2.0</u>	<u>7.0</u>			<u>10.0</u>	<u>7.27</u>	<u>300</u>	<u>3.5</u>	

Comments THE WELL BAILED DRY @ 7.0 GALLONS.

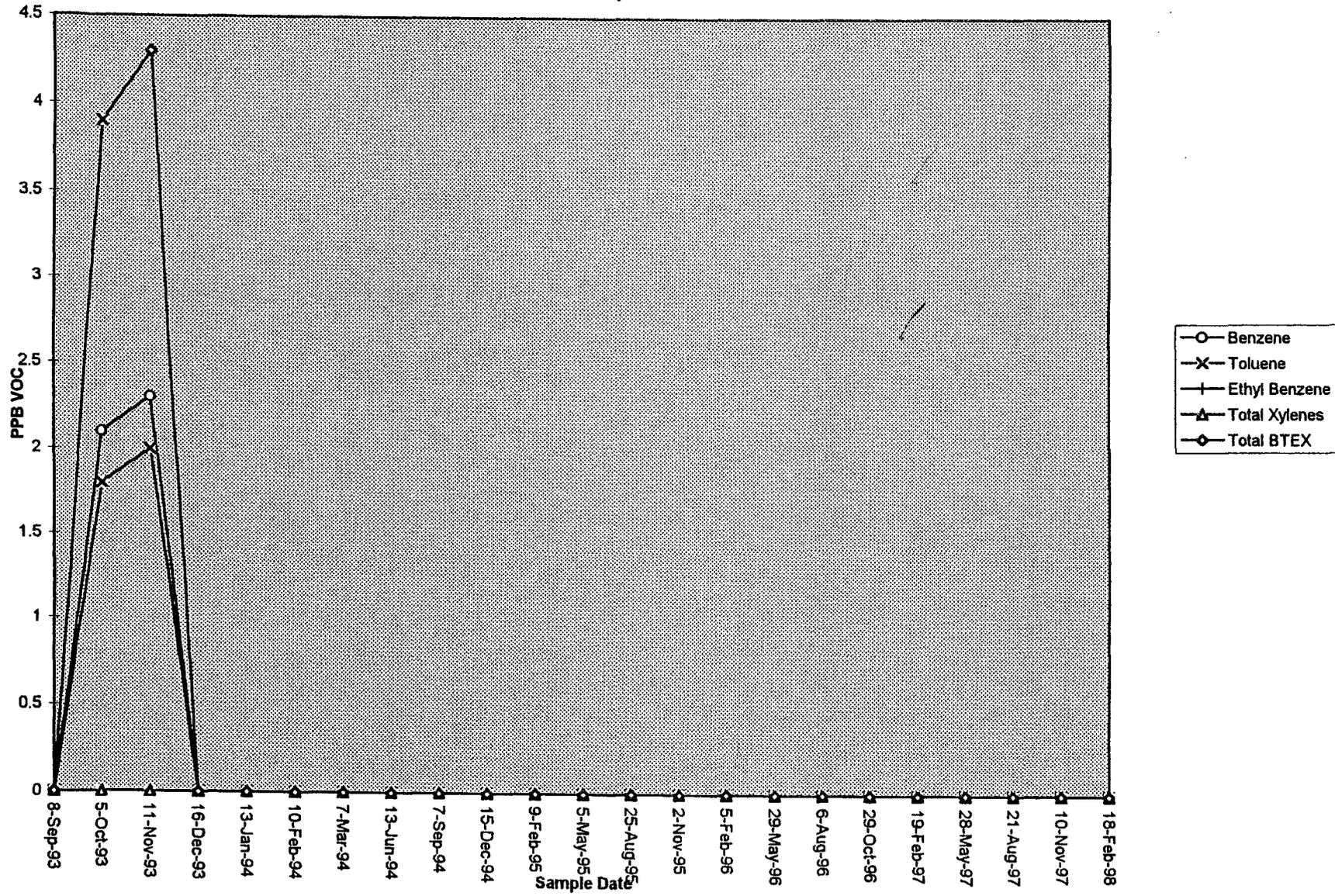
Developer's Signature Jennin Bird

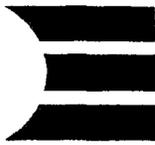
Date 2-18-98

Reviewer John Ludden

Date 2/24/98

Jaquez Monitor Well M-2





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980169
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1438
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	M-2	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 87.1 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Laddin*

Date: \_\_\_\_\_

*2/24/98*

980169BTEXJaquezCornfield, 2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980169
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1438
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW M-2

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	< 0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	< 0.1	PPM	02/19/98

Remarks:

Reported By: CV

Approved By: John Fielder

Date: 3/4/98

**Well Development and Purging Data**

Site Name JAQUEZ

- Development
- Purging

Well Number M-2

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Methods of Development**

- Pump
- Bailer
- Centrifugal
- Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.10  
 Initial Depth to Water (feet) 6.63  
 Height of Water Column in Well (feet) 8.48  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		5.6	16.8
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

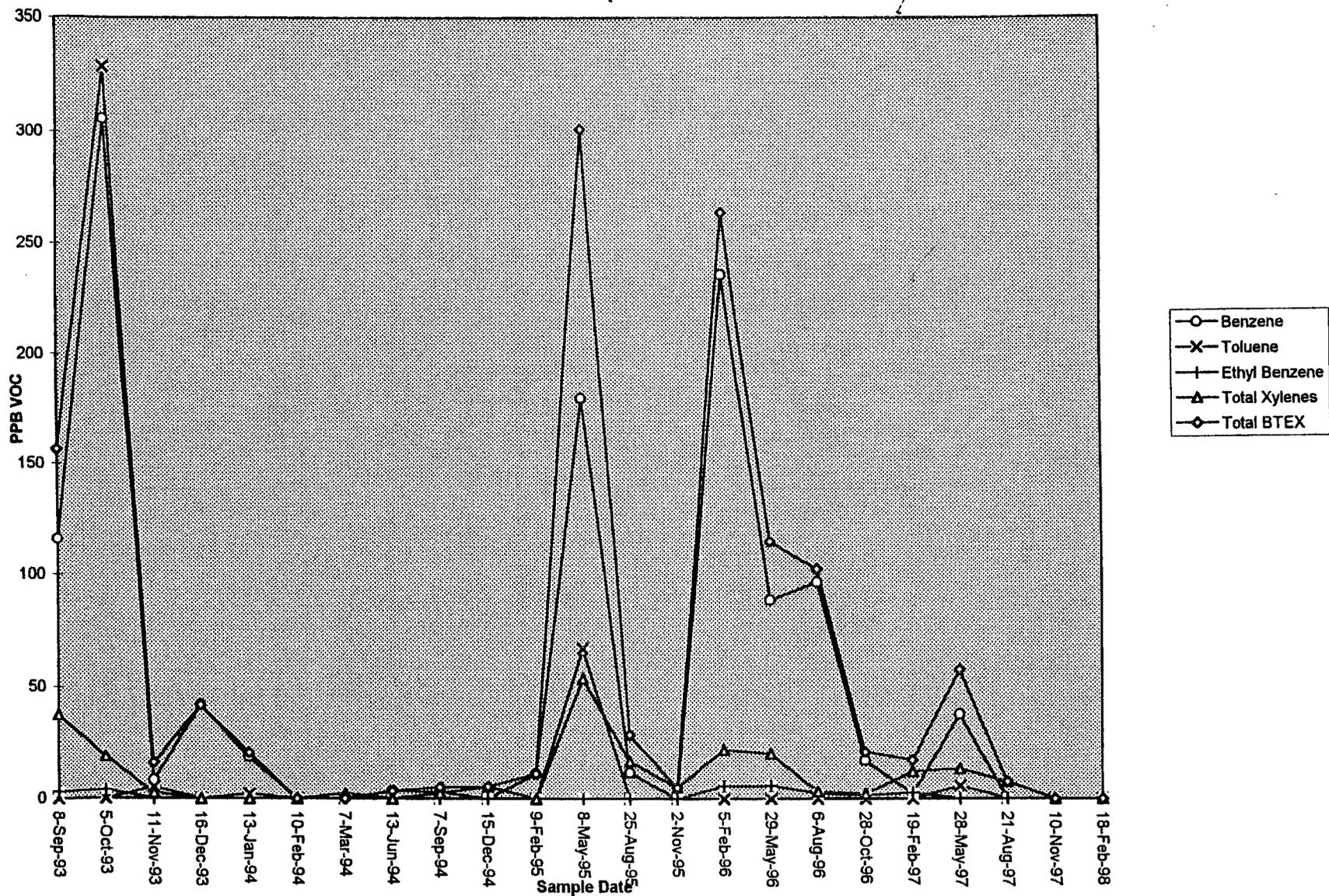
Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
2-18-98	1342										8.7	7.29	489		
2-18-98	1347						5.0	5.0			8.0	7.20	502		
2-18-98	1352						5.0	10.0			8.0	7.21	500		
2-18-98	1358						5.0	15.0			7.5	7.23	492		
2-18-98	1403						5.0	20.0			7.5	7.27	497	3.5	

Comments \_\_\_\_\_

Developer's Signature Lennis Bied

Date 2-18-98 Reviewer John Larkin Date 2/24/98

### Jaquez Monitor Well M-3





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980170
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1556
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	M-3	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 84.0 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Larkin*

Date: \_\_\_\_\_

2/24/98

980170BTEXJaquezCornfield,2/23/98



# EL PASO FIELD SERVICES

## Field Services Laboratory Analytical Report

### SAMPLE IDENTIFICATION

EPFS LAB ID:	980170
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1556
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW M-3

FIELD REMARKS:

### GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	0.1	PPM	02/19/98

Remarks:

Reported By: CV

Approved By: *John Fuller*

Date: 3/4/98

**Well Development and Purging Data**

Site Name JARQUEZ

- Development  
 Purging

Well Number M-3

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Methods of Development**

- Pump Bailer  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.20  
 Initial Depth to Water (feet) 7.42  
 Height of Water Column in Well (feet) 7.78  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>5.1</u>	<u>15.4</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Water Disposal**

ON SITE BARRELS

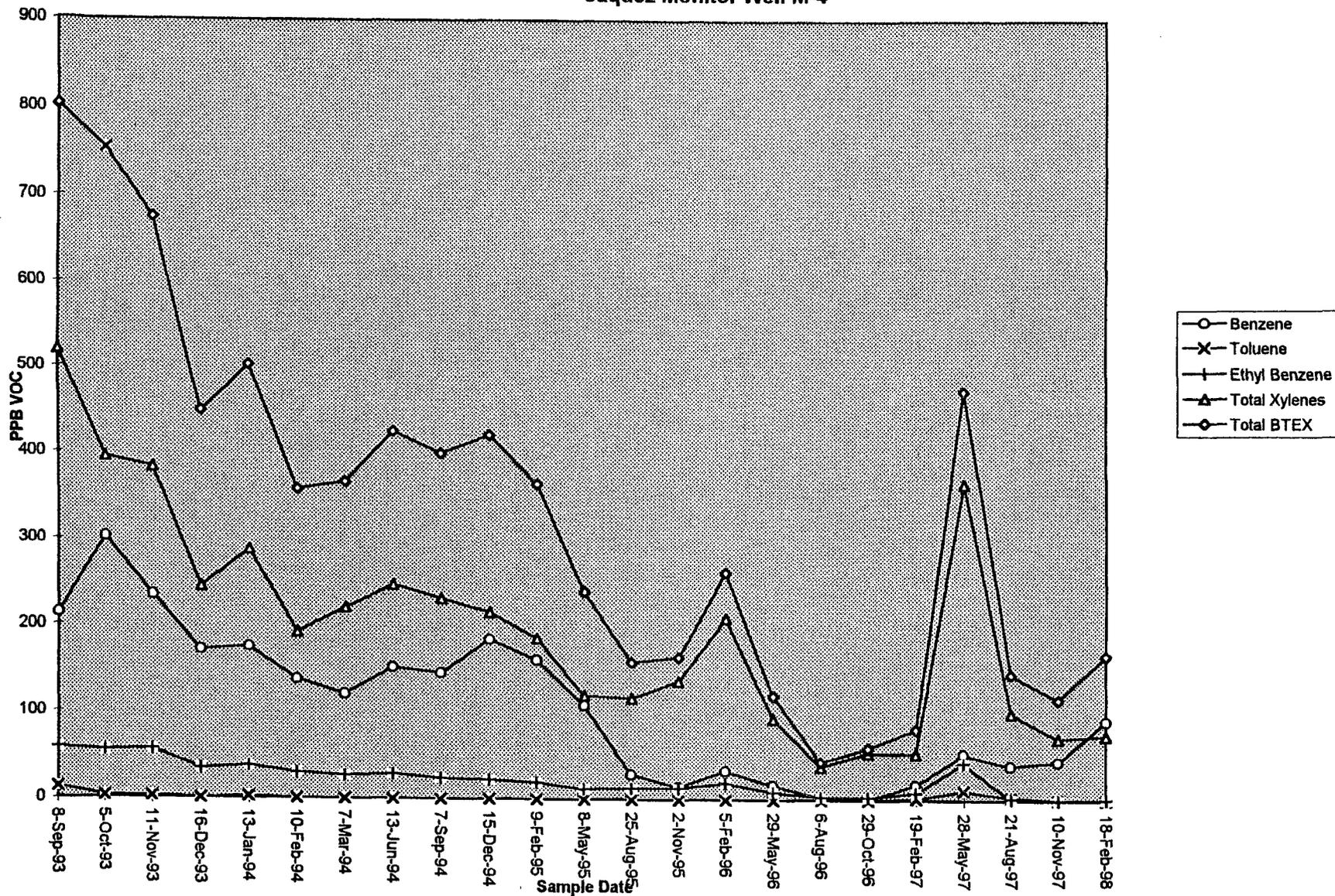
**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>2-18-98</u>	<u>1511</u>										<u>12.0</u>	<u>7.38</u>	<u>595</u>		
<u>2-18-98</u>	<u>1517</u>						<u>5.0</u>	<u>5.0</u>			<u>11.1</u>	<u>7.14</u>	<u>484</u>		
<u>2-18-98</u>	<u>1521</u>						<u>5.0</u>	<u>10.0</u>			<u>11.2</u>	<u>7.16</u>	<u>416</u>		
<u>2-18-98</u>	<u>1528</u>						<u>5.0</u>	<u>15.0</u>			<u>11.5</u>	<u>8.30</u>	<u>457</u>		
<u>2-18-98</u>	<u>1534</u>						<u>5.0</u>	<u>20.0</u>			<u>11.1</u>	<u>8.20</u>	<u>406</u>	<u>3.5</u>	

Comments REMOVED THE OXYGEN RELEASE COMPOUND SOCKS 30 DAYS BEFORE SAMPLING.

Developer's Signature Dennis Bird Date 2-18-98 Reviewer John Landin Date 2/24/98

Jaquez Monitor Well M-4





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980171
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1738
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	M-4	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	91.0	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	1.10	PPB				
TOTAL XYLENES	74.9	PPB				
TOTAL BTEX	167	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 86.9 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Lambert*

Date: 2/24/98

980171BTEXJaquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980171
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1738
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW M-4

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	0.1	PPM	02/19/98
Nitrite as NO <sub>2</sub> -N	0.1	PPM	02/19/98

Lab Remarks:

Reported By: CV

Approved By: *John F. Holden*

Date: 3/4/98

**Well Development and Purging Data**

Site Name JAYUEZ

- Development
- Purging

Well Number M-4

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Methods of Development**

- Pump Centrifugal
- Bailer Bottom Valve
- Submersible
- Double Check Valve
- Peristaltic
- Stainless-steel Kemmerer
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
 Initial Depth to Water (feet) 5.91  
 Height of Water Column in Well (feet) 9.39  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>6.2</u>	<u>18.6</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>2-18-98</u>	<u>1622</u>										<u>10.3</u>	<u>8.47</u>	<u>778</u>		
<u>2-18-98</u>	<u>1625</u>						<u>3.0</u>	<u>3.0</u>			<u>9.2</u>	<u>8.60</u>	<u>859</u>		
<u>2-18-98</u>	<u>1628</u>						<u>2.0</u>	<u>5.0</u>			<u>9.0</u>	<u>8.60</u>	<u>877</u>		
<u>2-18-98</u>	<u>1645</u>						<u>2.0</u>	<u>7.0</u>			<u>8.4</u>	<u>8.64</u>	<u>761</u>	<u>3.5</u>	

Comments THE WELL BAILED DRY P 7.0 GALLONS. REMOVED THE OXYGEN COMPOUND SOCK 30 MINS BEFORE SAMPLING.

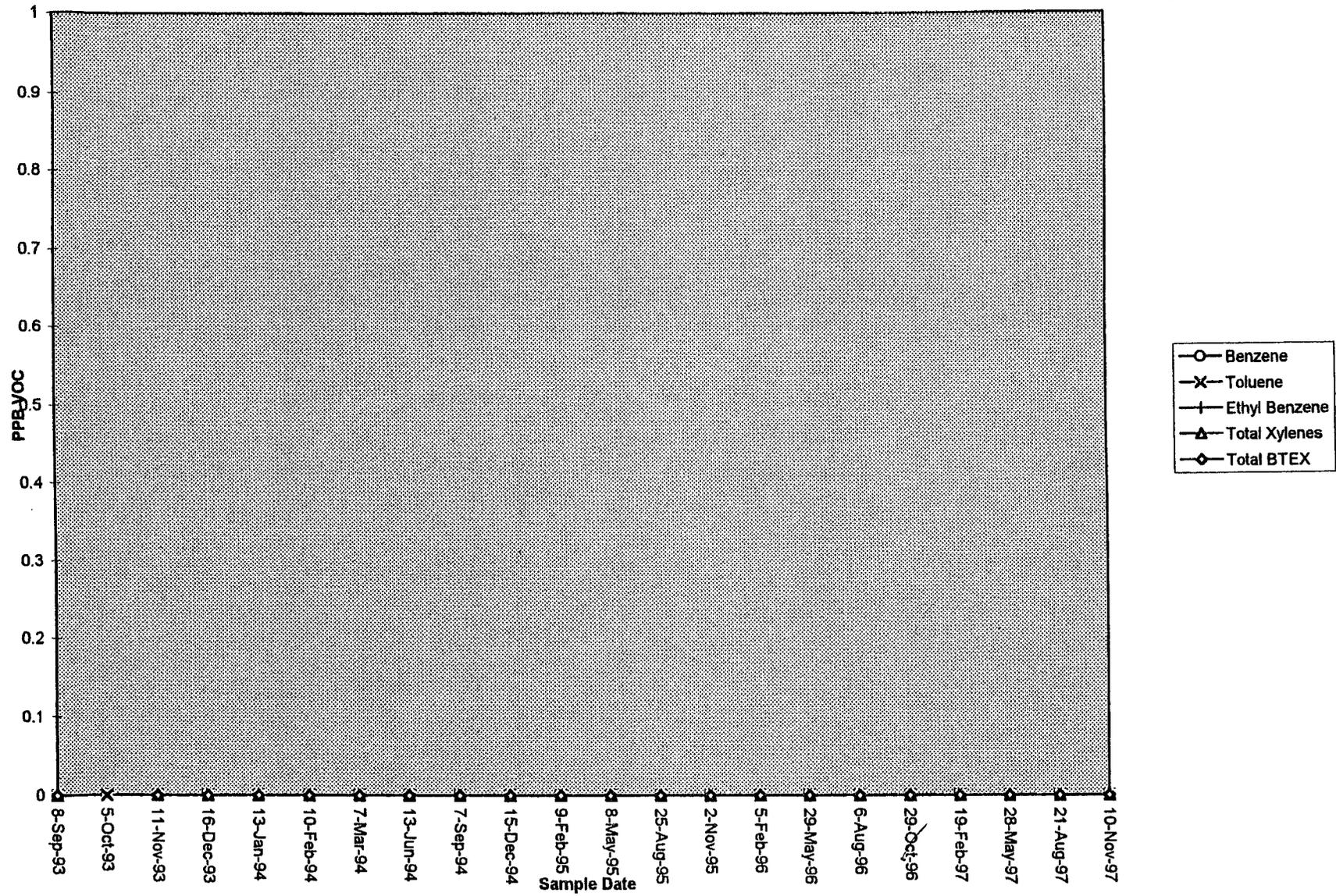
Developer's Signature Lennin Bird

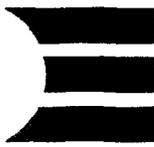
Date 2-18-98

Reviewer John Forder

Date 2/28/98

### Jaquez Monitor Well M-5





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980172
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	2/18/98	1801
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	2/20/98	2/20/98
TYPE   DESCRIPTION:	M-5	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

-BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 87.2 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: John Ladd

Date: 2/24/98

980172BTEXJaquezCornfield,2/23/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980172
DATE SAMPLED:	02/18/98
TIME SAMPLED (Hrs):	1801
SAMPLED BY:	DB
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	MW M-5

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as $\text{NO}_3\text{-N}$	< 0.1	PPM	02/19/98
Nitrite as $\text{NO}_2\text{-N}$	< 0.1	PPM	02/19/98

ab Remarks:

Reported By: CV

Approved By: *John Funder*

Date: 2/4/98

**Well Development and Purging Data**

Site Name JARVEZ

- Development
- Purging

Well Number M-5

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Methods of Development**

- Pump
  - Centrifugal
  - Submersible
  - Peristaltic
  - Other \_\_\_\_\_
- Bailer
  - Bottom Valve
  - Double Check Valve
  - Stainless-steel Kemmerer

**Water Volume Calculation**

Initial Depth of Well (feet) 15.10  
 Initial Depth to Water (feet) 7.26  
 Height of Water Column in Well (feet) 7.84  
 Diameter (Inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>5.2</u>	<u>15.5</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>2-18-98</u>	<u>1659</u>										<u>7.7</u>	<u>8.26</u>	<u>403</u>		
<u>2-18-98</u>	<u>1703</u>						<u>5.0</u>	<u>5.0</u>			<u>8.1</u>	<u>7.84</u>	<u>403</u>		
<u>2-18-98</u>	<u>1713</u>						<u>5.0</u>	<u>10.0</u>			<u>7.8</u>	<u>7.63</u>	<u>400</u>		
<u>2-18-98</u>	<u>1729</u>						<u>5.0</u>	<u>15.0</u>			<u>7.4</u>	<u>7.64</u>	<u>404</u>	<u>3.5</u>	

Comments \_\_\_\_\_

Developer's Signature Dennis Bied

Date 2-18-98 Reviewer John Lard Date 2/24/98



# EL PASO FIELD SERVICES

QUALITY CONTROL REPORT  
EPA METHOD 8020 - BTEX

Samples: 980164 to 980172

QA/QC for 2/20/98 Sample Set

**LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:**

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	49.4	98.8	75 - 125 %	X
Toluene	Standard	50.0	49.4	99	75 - 125 %	X
Ethylbenzene	Standard	50.0	49.6	99	75 - 125 %	X
m & p - Xylene	Standard	100	99.5	99.5	75 - 125 %	X
o - Xylene	Standard	50.0	49.6	99	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	23.9	95.7	39 - 150	X
Toluene	Standard	25.0	24.1	97	46 - 148	X
Ethylbenzene	Standard	25.0	24.0	96	32 - 160	X
m & p - Xylene	Standard	50.0	48.1	96	Not Given	X
o - Xylene	Standard	25.0	23.9	96	Not Given	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	50.1	100.3	75 - 125 %	X
Toluene	Standard	50.0	49.6	99.3	75 - 125 %	X
Ethylbenzene	Standard	50.0	49.5	99.0	75 - 125 %	X
m & p - Xylene	Standard	100	98.7	98.7	75 - 125 %	X
o - Xylene	Standard	50.0	49.6	99	75 - 125 %	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	49.2	98.5	75 - 125 %	X
Toluene	Standard	50.0	48.6	97.2	75 - 125 %	X
Ethylbenzene	Standard	50.0	48.4	96.8	75 - 125 %	X
p - Xylene	Standard	100	96.2	96.2	75 - 125 %	X
o - Xylene	Standard	50.0	48.6	97.1	75 - 125 %	X

rative: Acceptable.

**LABORATORY DUPLICATES:**

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					RANGE	YES NO
980164						
Benzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Toluene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	<2	<2	0.00	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X

narrative: Acceptable.

**LABORATORY SPIKES:**

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					RANGE	YES NO
2nd Analysis 980164						
Benzene	50	<1	50.7	101.3	75 - 125 %	X
Toluene	50	<1	50.3	101	75 - 125 %	X
Ethylbenzene	50	<1	50.2	100	75 - 125 %	X
m & p - Xylene	100	<2	101.0	101.0	75 - 125 %	X
o - Xylene	50	<1	50.4	101	75 - 125 %	X

narrative: Acceptable

AUTO BLANK	SOURCE	PPB (2 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (none analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (none analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

narrative: Acceptable.

TRIP BLANK	SOURCE	PPB (1 analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

narrative: Acceptable.

Sorted By: CLV

Approved By: John Lardi

Date: 2/24/98



# PARAGON ANALYTICS, INC.

225 Commerce Drive ♦ Fort Collins, CO 80524 ♦ (800) 443-1511 ♦ (970) 490-1511 ♦ FAX (970) 490-1522

March 6, 1998

Mr. John Lambdin  
El Paso Field Services  
P.O. Box 4990  
Farmington, NM 87499



RE: Paragon Workorder: 98-02-154  
Client Project Name: Jaquez Monitor Wells  
Client Project Number: Not Submitted

Dear Mr. Lambdin:

Eight water samples were received from El Paso Field Services on February 20, 1998. The samples were scheduled for PAHs by HPLC analysis. The results for this analysis are contained in the enclosed report pages 1-13.

Thank you for your confidence in Paragon Analytics, Inc. Should you have any questions, please call.

Sincerely,

Paragon Analytics, Inc.  
Adrienne Mackzum  
Project Manager

AM/asg  
Enclosure: Report

*Reviewed  
QA/QC  
Acceptable  
3/17/98  
J*





**PARAGON ANALYTICS, INC.**  
225 Commerce Drive Ft. Collins, CO 80524

(800) 443-1511 or (970) 490-1511  
(970) 490-1522 - Fax

**CHAIN OF CUSTODY**

DATE 2-18-98 Page 1 of 1

**\*ACCESSION NUMBER (LAB ID)** 9802154

**REPORT TO:** JOHN LAMBDAIN  
**COMPANY:** EL PASO FIELD SERVICE CO.  
**ADDRESS:** 614 REILLY AVENUE  
FARMINGTON NM 87401  
**SAMPLER:** Jennie Bird  
505-599-2244 505-599-2261  
**PHONE NO.** **FAX NO.**

ANALYSIS REQUESTED																											
418.1 - TRPH	8015 Mod. - Gasoline	8015 Mod. - Diesel	8015m/8020 - Gasoline/BETX	8020 - BETX only	8240/8260 - GC/MS VOC's	8270 - GC/MS SVOC's	8080 - Pesticides/PCB's	8080 - PCB's only	8310/610 - HPLC-PNA's	8150 - Herbicides	8141/614 - OP Pesticides	TOX - EDX - AOX - TX	Total Metals *(specify in comments)	TCLP: *(specify parameters in comments)	Gross Alpha / Beta	Gross Gamma	Gamma Spec	Isotopic Plutonium	Isotopic Uranium	Total Uranium (KPA)	Radium 226 / 228	Tritium (H3)	Strontium 89 / 90	8315 - Formaldehyde	% Moisture	Number of Containers	
									X																	1A	2
									X																	Ⓟ	2
									X																		2
									X																		2
									X																		2
									X																		2
									X																		2
									X																		2

**PROJECT INFORMATION**  
PROJECT NUMBER:  
PROJECT NAME: JANUARY MONITOR WELLS  
P.O. NUMBER:  
TAT:  STANDARD  RUSH DUE  
SAMPLE DISPOSAL:  HAZ WASTE \$5.00 ea

**SAMPLE RECEIPT**  
TOTAL NO. OF CONTAINERS:  
CHAIN OF CUSTODY SEALS Y/N  
SEALS INTACT? Y/N/NA  
REC'D GOOD COND/COLD?  
RAD CHEM \$15.00 ea RETURN

**RELINQUISHED BY:** 1 Sign. Jennie Bird 1992 Time 2-18-98  
Print DEMIS BIRO Date  
Company EL PASO FIELD SERVICE  
**RELINQUISHED BY:** 2 Sign. Fedex Time  
Print Date  
Company

**COMMENTS:** LOW LEVEL BENZO(A) PYRENE < 0.17 PPB

**RECEIVED BY:** 1 Sign. Fedex Time  
Print Date  
Company  
**RECEIVED BY:** 2 Sign. Hunter 0930 Time  
Print Hunter 02-20-98 Date  
Company PAI

**CONDITION OF SAMPLE UPON RECEIPT**

CLIENT: Al Pass Field Services SHIPPING CONTAINER #: (Cordero)  
 WORKORDER NO. 9802154 INITIALS: PH DATE: 2/20/98

1.	Does this project require special handling according to NEESA, Level 3, or CLP protocols? If yes, complete a. and b. a. Cooler Temperature _____ b. Lot No's. _____ c. Airbill Number _____		Yes	<u>No</u>
2.	Are custody seals on the cooler intact? If so, how many <u>2</u>	N/A	<u>Yes</u>	No
3.	Are custody seals on sample containers intact?	N/A	<u>Yes</u>	No
4.	Is there a Chain of Custody (COC) or other representative documents, letters or shipping memos?		<u>Yes</u>	No
5.	Is the COC complete? Relinquished: Yes <input checked="" type="checkbox"/> No Requested Analysis: Yes <input checked="" type="checkbox"/> No	N/A	<u>Yes</u>	No
6.	Is the COC in agreement with the samples received? No. of Samples: Yes <input checked="" type="checkbox"/> No Sample ID's: Yes <input checked="" type="checkbox"/> No Matrix: Yes <input checked="" type="checkbox"/> No No. of Containers: Yes <input checked="" type="checkbox"/> No		<u>Yes</u>	No
7.	Are the samples requiring chemical preservation preserved correctly?	N/A	<u>Yes</u>	No
8.	Is there enough sample? If so, are they in the proper containers?		<u>Yes</u>	No
9.	Are all samples within holding times for the requested analyses?		<u>Yes</u>	No
10.	Were the sample(s) shipped on ice?	N/A	<u>Yes</u>	No
11.	Were all sample containers received intact? (not broken or leaking, etc.)		<u>Yes</u>	No
12.	Are samples requiring no headspace, headspace free?	N/A	<u>Yes</u>	No
13.	Do the samples require quarantine?		<u>Yes</u>	<u>No</u>
14.	Do samples require Paragon disposal?		<u>Yes</u>	No
15.	Did the client return any unused bottles?		<u>Yes</u>	<u>No</u>

Describe "NO" items (except No's 1, 13, & 14): \_\_\_\_\_

Was the client contacted? Yes \_\_\_\_\_ No \_\_\_\_\_  
 If yes, Date: \_\_\_\_\_ Name of person contacted: \_\_\_\_\_

Describe actions taken or client instructions: \_\_\_\_\_

Group Leader's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Cooler Temperature: 2°C, 2°C

# Paragon Analytics, Inc.



## PAHs by HPLC Case Narrative

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### El Paso Field Services

EL PASO FS

Order Number - 9802154

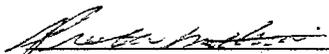
1. This report consists of 8 water samples received by Paragon on 2/20/98.
2. These samples were extracted and analyzed according to SW-846, 3rd Edition procedures. Specifically, the water samples were extracted using continuous liquid-liquid extractors, based on Method 3520.
3. The extracts were then analyzed using HPLC with UV and fluorescence detectors with a reverse phase C18 column according to protocols based on Method 8310. All compounds are analyzed using UV at 254 nm. Confirmation is performed for positive results using the fluorescence detector or confirmed by UV at 280 nm for those compounds that do not respond to the fluorescence detector. The quantitation of each analyte is usually taken from the detector that exhibits the fewest interferences. These quantitations minimize the chances of reporting elevated results based on interferences. If compounds do not confirm quantitatively (if the higher amount is greater than twice the lower amount the 2 amounts are considered *not* to confirm each other quantitatively), then the value is flagged with a "K" and noted on the report page.
4. All samples were extracted and analyzed within the established holding times.
5. The method blank associated with this project was below the reporting limits for all analytes.
6. All Laboratory Control Spike and Laboratory Control Spike Duplicate recoveries and RPDs were within the acceptance criteria.
7. Matrix Spikes and Matrix Spike Duplicates could not be performed because of insufficient sample volume. A Blank Spike and Blank Spike Duplicate were performed instead. See Item 6 for details on recoveries.
8. All surrogate recoveries were within acceptance criteria.

9. All initial and continuing calibration criteria were within acceptance criteria with the following exceptions: Phenanthrene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene exceeded the acceptance criteria on the fluorescence detector in the second continuing calibration verification run on 2/24/98-2/25/98. Phenanthrene was detected in sample 3, but the results reported were based on the quantitation from the detector that did meet the calibration criteria.

Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene exceeded the acceptance criteria on the fluorescence detector in the third continuing calibration verification run on 2/24/98-2/25/98. Phenanthrene was detected in samples 2, 4, 6, & 8, Benzo(a)anthracene was detected in sample 6, & Chrysene was detected in sample 2, but the results reported were based on the quantitation from the detector that did meet the calibration criteria.

Phenanthrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene, Benzo(a)pyrene, Dibenzo(a,h)anthracene, and Benzo(g,h,i)perylene exceeded the acceptance criteria on the fluorescence detector in the fourth continuing calibration verification run on 2/24/98-2/25/98. Phenanthrene was detected in sample 7, but the results reported were based on the quantitation from the detector that did meet the calibration criteria.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

  
\_\_\_\_\_  
Preston Mathiesen  
HPLC Analyst

2/26/98  
Date

EM  
Reviewer's Initials

3-5-98  
Date

000002

# Paragon Analytics, Incorporated

## Sample Number(s) Cross-Reference Table

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Paragon OrderNum: 9802154

Client Name: El Paso Field Services

Client Project Name:

Client Project Number: Jaquez Monitor Wells

Client PO Number:

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Client Sample	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
980164	9802154-1		Water	2/18/98	10:05
980166	9802154-2		Water	2/18/98	11:18
980167	9802154-3		Water	2/18/98	12:25
980168	9802154-4		Water	2/18/98	14:15
980169	9802154-5		Water	2/18/98	14:38
980170	9802154-6		Water	2/18/98	15:56
980171	9802154-7		Water	2/18/98	17:38
980172	9802154-3		Water	2/18/98	18:01

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

**Reagent Blank**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: N/A  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/24/98

Lab Sample ID: WMB1 2/25/98

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	75	35 - 119

ND = Not Detected at or above client requested reporting limit.

000004

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

**980164**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-1

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	78	35 - 119

ND = Not Detected at or above client requested reporting limit.

**000005**

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

980166

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-2

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	1.4	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	2.0 K	1.0
2-Methylnaphthalene	4.0	1.0
Acenaphthene	ND	1.0
Fluorene	0.49	0.10
Phenanthrene	0.80	0.050
Anthracene	0.13	0.10
Fluoranthrene	0.11 K	0.10
Pyrene	0.096 K	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	0.059	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	85	35 - 119

ND = Not Detected at or above client requested reporting limit.  
 K = Concentration confirmation does not agree within 50%.

000006

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

**980167**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-3

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	0.037 J	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

## SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	77	35 - 119

ND = Not Detected at or above client requested reporting limit.

J = Estimated value. Below reporting limits.

000007

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

**980168**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-4

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	0.028 J	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	72	35 - 119

ND = Not Detected at or above client requested reporting limit.  
 J = Estimated value. Below reporting limits.

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**000008**

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

**980169**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-5

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	76	35 - 119

ND = Not Detected at or above client requested reporting limit.

00.0009

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

980170

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-6

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	0.095	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	0.036 J, K	0.050
Benzo(a)anthracene	0.030 J	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	82	35 - 119

ND = Not Detected at or above client requested reporting limit.

J = Estimated value. Below reporting limits.

K = Concentration confirmation does not agree within 50%.

000010

# POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

**980171**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-7

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	3.4	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	2.6	1.0
2-Methylnaphthalene	3.1	1.0
Acenaphthene	ND	1.0
Fluorene	0.33	0.10
Phenanthrene	0.21	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

### SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	77	35 - 119

ND = Not Detected at or above client requested reporting limit.

**000011**

**POLYNUCLEAR AROMATIC HYDROCARBONS**

Method 8310

Sample ID

**980172**

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

Date Collected: 2/18/98  
 Date Extracted: 2/23/98  
 Date Analyzed: 2/25/98

Lab Sample ID: 9802154-8

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1000 mL  
 Final Volume: 1 mL  
 Dilution Factor: 1

Analyte	Conc (ug/L)	Reporting Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	0.027 J	0.050
Anthracene	ND	0.10
Fluoranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.10
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

**SURROGATE RECOVERY**

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	74	35 - 119

ND = Not Detected at or above client requested reporting limit.  
 J = Estimated value. Below reporting limits.

*PM* 

**000012**

**POLYNUCLEAR AROMATIC HYDROCARBONS BLANK SPIKE**

Method 8310

Sample ID

Lab Name: Paragon Analytics, Inc.  
 Client Name: El Paso Field Services  
 Client Project ID: EL PASO FS

<b>Blank Spike</b>
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Lab Sample ID: WLCS1, 2/25/98

Date Extracted: 2/23/98  
 Date Analyzed: 2/24/98

Sample Matrix: Water  
 Cleanup: N/A

Sample Volume: 1,000 mL  
 Final Volume: 1 mL

Analyte	Spike Added (ug/L)	BS Concentration (ug/L)	BS Percent Recovery	QC Limits % Rec
Acenaphthylene	10.0	7.60	76	36 - 93
Phenanthrene	1.00	0.811	81	45 - 107
Pyrene	1.00	0.847	85	40 - 104
Benzo(k)fluoranthene	0.250	0.249	100	61 - 126
Dibenzo(a,h)anthracene	1.00	0.789	79	55 - 113

*Accepted*  


Lab Sample ID: WCLSD1, 2/25/98

Analyte	Spike Added (ug/L)	BSD Concentration (ug/L)	BSD Percent Recovery	RPD	QC Limits RPD
Acenaphthylene	10.0	7.61	76	0.2	20
Phenanthrene	1.00	0.799	80	2	20
Pyrene	1.00	0.847	85	0	20
Benzo(k)fluoranthene	0.250	0.239	95	4	20
Dibenzo(a,h)anthracene	1.00	0.779	78	1	20

**SURROGATE RECOVERY BS/BSD**

Analyte	% Recovery BS	% Recovery BSD	% Rec Limits
2-Chloroanthracene	82	78	35 - 119

**000013** *PM*

**May 26, 1998**

**2nd Quarter 1998 REPORT**

**Jaquez Corn Field  
Monitor Well Analytical Results  
Lab Sample #'s 980405 to 980413  
Sampled May 19, 1998  
Sampled by Dennis Bird**

**Report Distribution:**

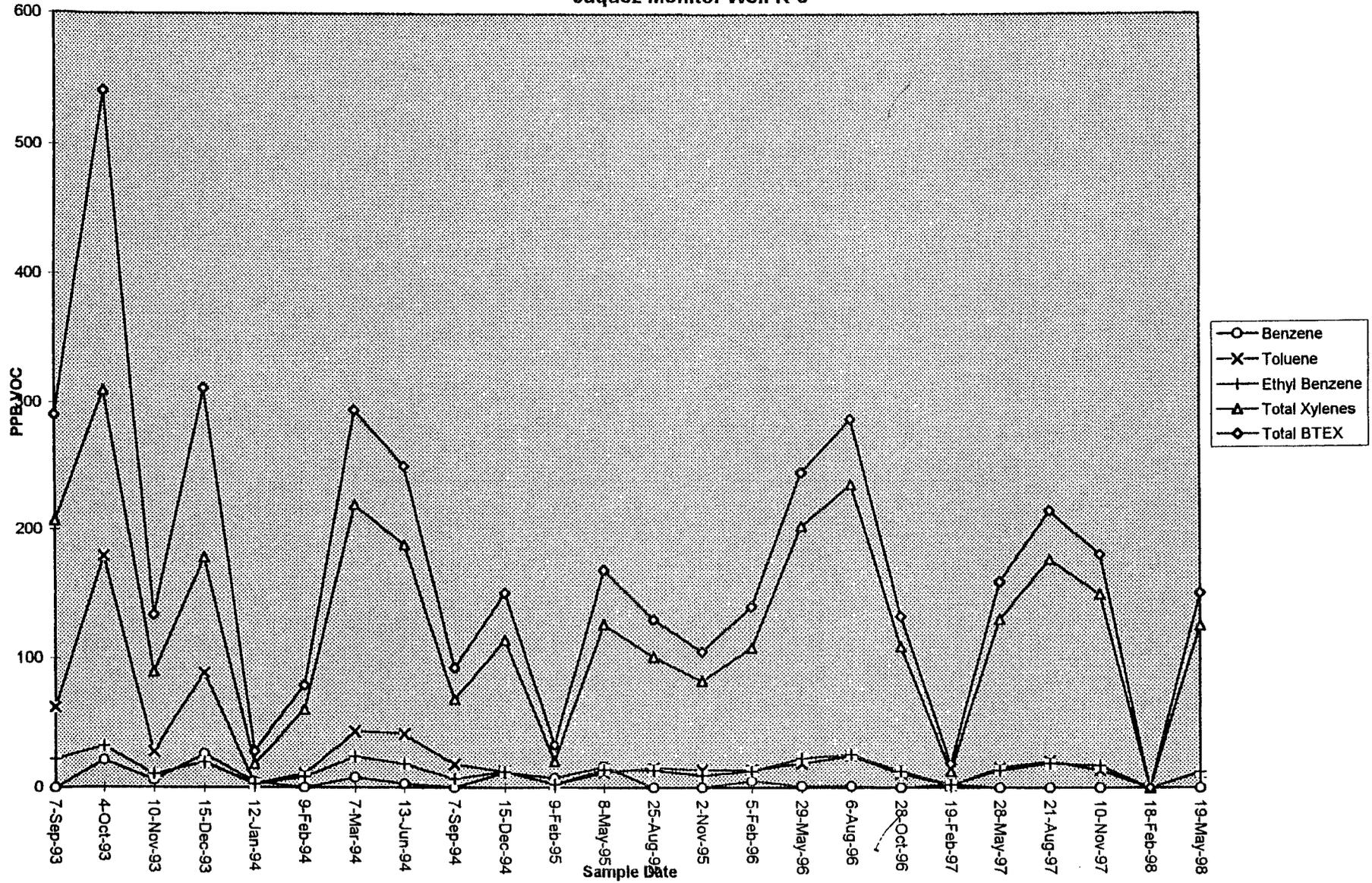
Sandra Miller  
Scott Pope - Philip Services Company  
Results File

**Attachments**

**CHAIN OF CUSTODY RECORD**

Project No.		Project Name <b>JTAQ05Z</b>				Type and No. of Sample Containers	Preservation Technique <b>BTX/E</b> <b>AS/PHEN</b>	Requested Analysis		Remarks	
Samplers: (Signature) <i>J. Garcia</i>		Date: <b>5-19-98</b>									
DATE	Date	Time	Comp.	GRAB	Sample Number						
WATER	5-19-98	0950		X	980405 ✓	5-1	4°C	X		MONITOR WELL R-3	
WATER	5-19-98	1044		X	980406 ✓	5-1	4°C	X		MONITOR WELL R-4	
WATER	5-19-98	1152		X	980407 ✓	5-1	4°C	X		MONITOR WELL R-5	
WATER	5-19-98	1405		X	980408 ✓	5-1	4°C	X	X	MONITOR WELL M-1	
WATER	5-19-98	1423		X	980409 ✓	5-1	4°C	X	X	MONITOR WELL M-2	
WATER	5-19-98	1528		X	980410 ✓	5-1	4°C	X	X	MONITOR WELL M-3	
WATER	5-19-98	1717		X	980411 ✓	5-1	4°C	X	X	MONITOR WELL M-4	
WATER	5-19-98	1717		X	980412 ✓	5-1	4°C	X	X	MONITOR WELL M-4 FIELD DUP	
WATER	5-19-98	1734		X	980413 ✓	5-1	4°C	X	X	MONITOR WELL M-5	
WATER	5-19-98	—		X	—	5-1	4°C	X		TRIP BLANK	
Relinquished by: (Signature) <i>J. Garcia</i>		Date/Time 5-19-98 1235		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time		Received by: (Signature)	
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature) <i>Martin Hopper</i>		Date/Time 5/21/98 1115		Remarks:			
Carrier Co:				Carrier Phone No.				Date Results Reported / by: (Signature)			
Air Bill No.:											

Jaquez Monitor Well R-3





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980405
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	0950
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	R-3	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	11.9	PPB				
ETHYL BENZENE	12.5	PPB				
TOTAL XYLENES	125	PPB				
TOTAL BTEX	150	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 96.2 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John L. L...*

Date: \_\_\_\_\_

5/26/98

980405BTEXJaquezCornfield,5/22/98

**Well Development and Purging Data**

Site Name JARVEZ

- Development  
 Purging

Well Number R-3

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 22.10  
Initial Depth to Water (feet) 12.40  
Height of Water Column in Well (feet) 9.70  
Diameter (Inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Methods of Development**

- Pump Bailer  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
  
 Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>6.4</u>	<u>19.2</u>
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>5-19-98</u>	<u>0912</u>										<u>14.1</u>	<u>5.33</u>	<u>884</u>		
<u>5-19-98</u>	<u>0918</u>						<u>5.0</u>	<u>5.0</u>			<u>14.1</u>	<u>5.77</u>	<u>916</u>		
<u>5-19-98</u>	<u>0924</u>						<u>5.0</u>	<u>10.0</u>			<u>14.3</u>	<u>6.06</u>	<u>780</u>		
<u>5-19-98</u>	<u>0931</u>						<u>5.0</u>	<u>15.0</u>			<u>14.4</u>	<u>6.42</u>	<u>570</u>		
<u>5-19-98</u>	<u>0937</u>						<u>5.0</u>	<u>20.0</u>			<u>15.3</u>	<u>6.39</u>	<u>471</u>	<u>0.5</u>	

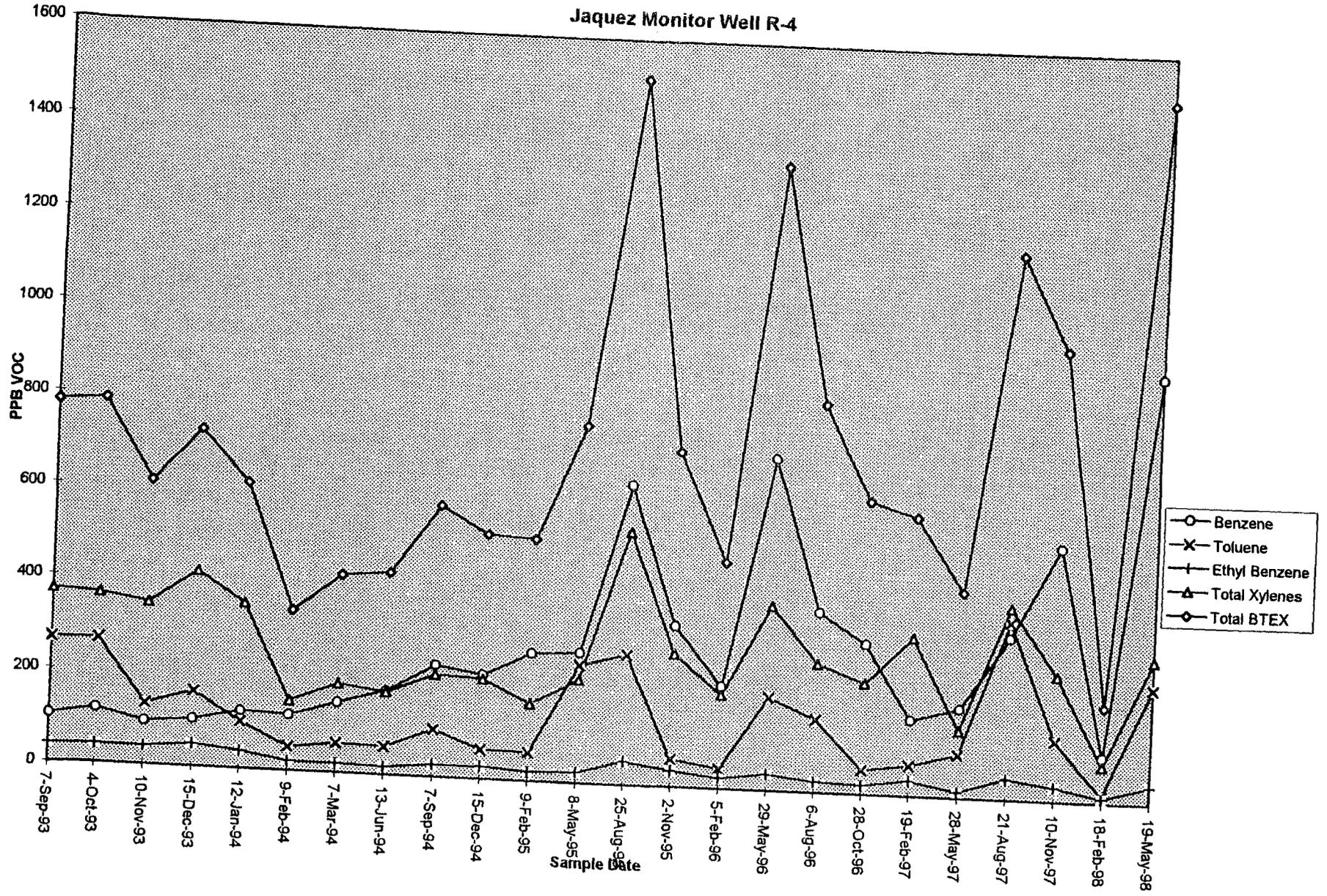
Comments \_\_\_\_\_

Developer's Signature Dennis Bied

Date 5-19-98 Reviewer John Futch

Date 5/26/98

### Jaquez Monitor Well R-4





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980406
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1044
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	R-4	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	916	PPB	5	D		
TOLUENE	244	PPB	2	D		
ETHYL BENZENE	38.1	PPB	2	D		
TOTAL XYLENES	304	PPB	2	D		
TOTAL BTEX	1502	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 89.7 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indicates that the analyte calculated is based on a secondary dilution factor.

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John L. L...*

Date: \_\_\_\_\_

*5/26/98*

980406BTEXJaquezCornfield,5/22/98

**Well Development and Purging Data**

Site Name JARQUEZ

- Development  
 Purging

Well Number R-4

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 22.10  
 Initial Depth to Water (feet) 12.21  
 Height of Water Column in Well (feet) 9.89  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		6.5	19.6
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other P.O. CHEMETS KIT

**Methods of Development**

- Centrifugal  Bailer Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other \_\_\_\_\_

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1007										17.8	6.82	658		
5-19-98	1013						5.0	5.0			16.7	6.68	648		
5-19-98	1019						5.0	10.0			16.1	6.90	682		
5-19-98	1026						5.0	15.0			17.0	7.15	931		
5-19-98	1034						5.0	20.0			17.1	7.38	1021	6.0	

Comments \_\_\_\_\_

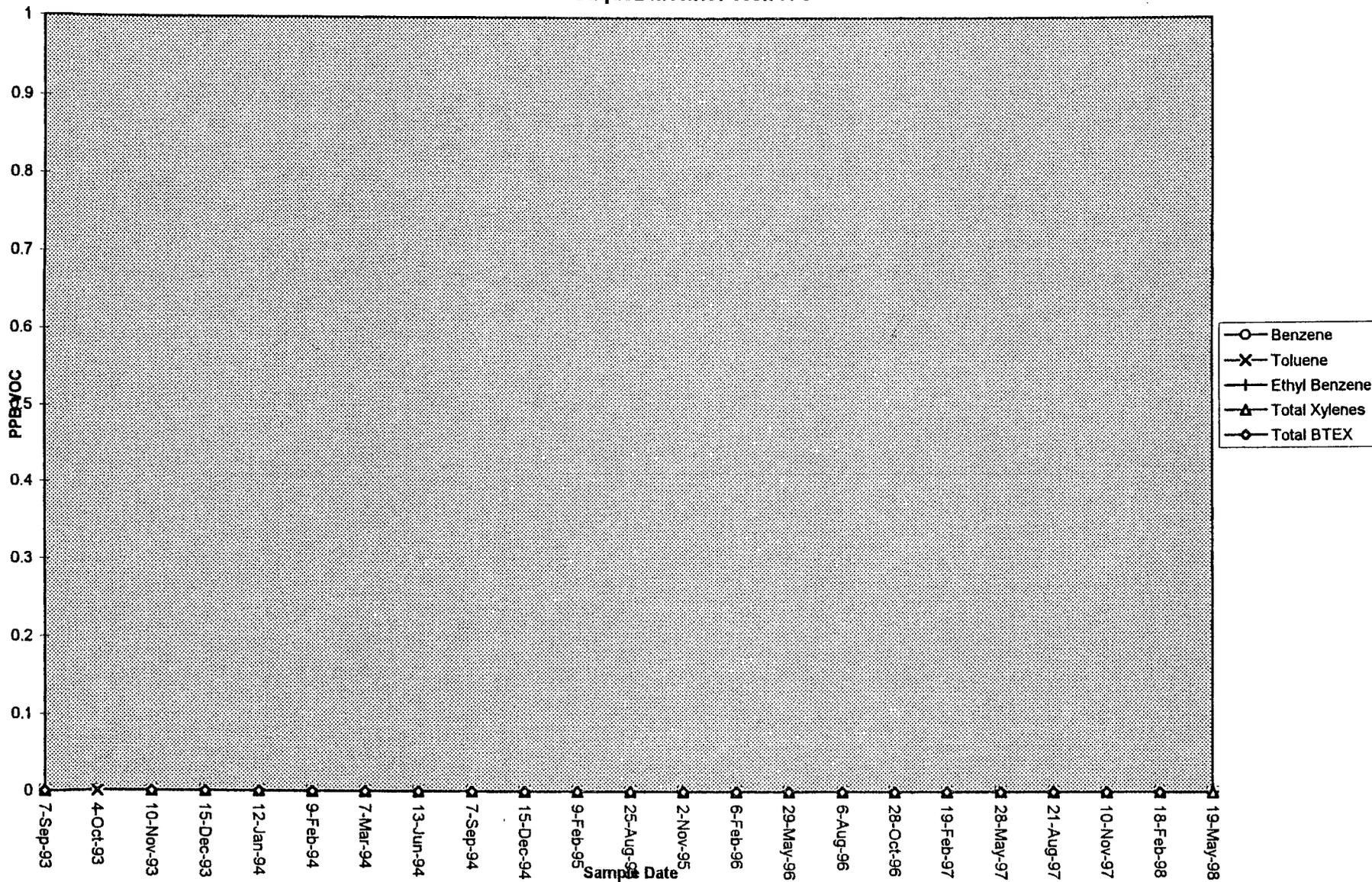
Developer's Signature Dennis Bied

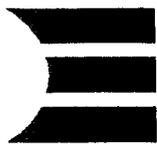
Date 5-19-98

Reviewer John Fardis

Date 5/26/98

# Jaquez Monitor Well R-5





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980407
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1152
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	R-5	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 86.8 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Fawcett*

Date: \_\_\_\_\_

*5/26/98*

980407BTEXJaquezCornfield,5/22/98



# Well Development and Purging Data

Site Name JARVEZ

- Development
- Purging

Well Number R-5

Meter Code \_\_\_\_\_

## Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

## Water Volume Calculation

Initial Depth of Well (feet) 24.40  
 Initial Depth to Water (feet) 15.90  
 Height of Water Column in Well (feet) 8.50  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		5.6	16.9
Gravel Pack			
Drilling Fluids			
Total			

## Instruments

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

## Methods of Development

- Centrifugal
- Submersible
- Peristaltic
- Other \_\_\_\_\_
- Bailer
- Bottom Valve
- Double Check Valve
- Stainless-steel Kemmerer

## Water Disposal

ON SITE BARRELS

## Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1105										20.5	7.96	635		
5-19-98	1110						3.0	3.0			18.7	7.84	653		
5-19-98	1113						2.0	5.0			18.5	7.75	686		
5-19-98	1119						3.0	8.0			19.0	7.78	817		
5-19-98	1125						2.0	10.0			19.3	7.72	1319		
5-19-98	1140						3.0	13.0			21.1	7.91	794	2.5	

Comments THE WELL BAILED DRY @ 13.0 GALLONS.

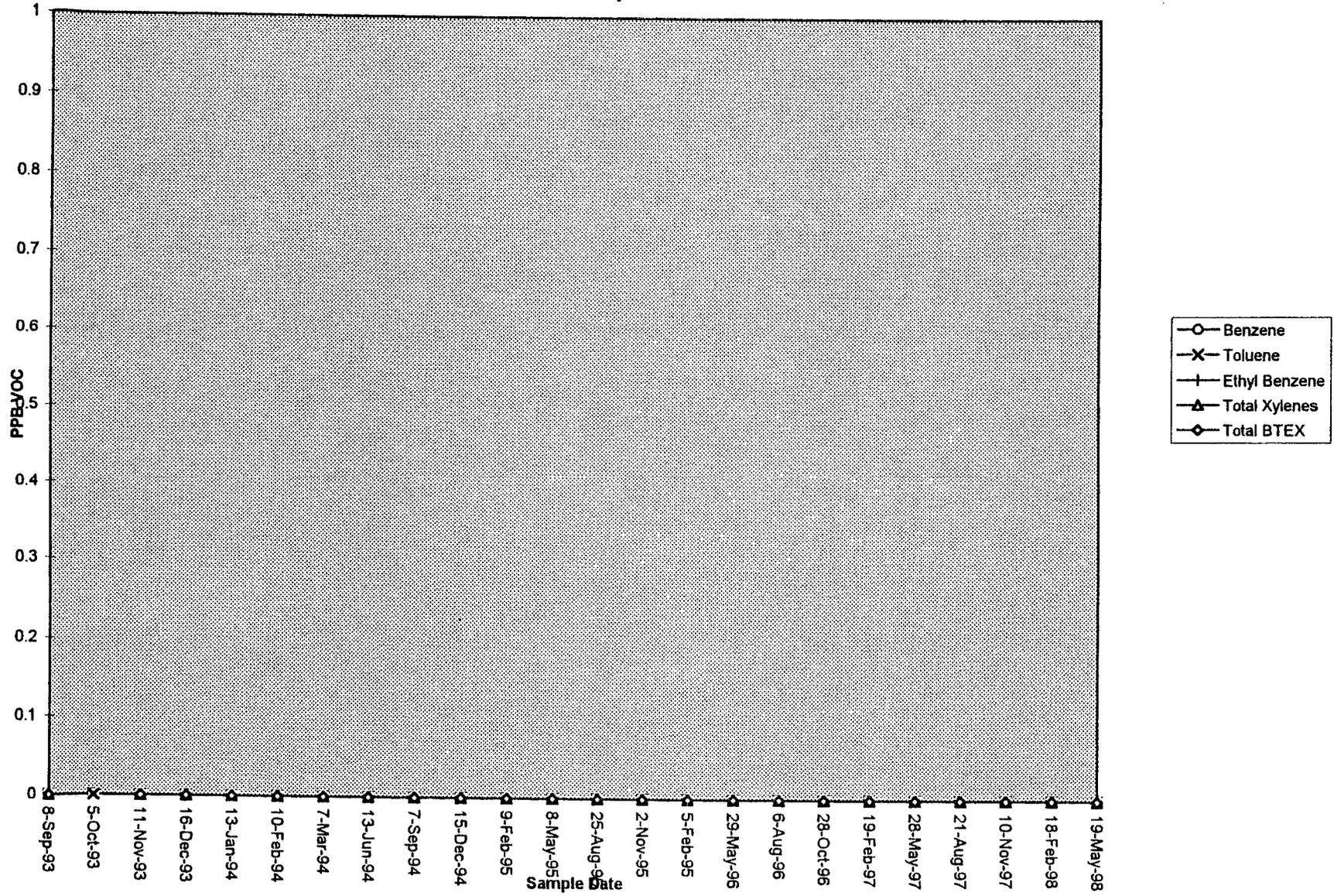
Developer's Signature Lennis Bied

Date 5-19-98

Reviewer John Faldi

Date 5/26/98

### Jaquez Monitor Well M-1





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980408
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1405
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	M-1	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 86.1 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: John Ladd

Date: 5/26/98

980408BTEXJacquezCornfield,5/22/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980408
DATE SAMPLED:	05/19/98
TIME SAMPLED (Hrs):	1405
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	M-1

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	< 0.1	PPM	05/20/98
Nitrite as NO <sub>2</sub> -N	< 0.1	PPM	05/20/98

Lab Remarks:

Reported By: CV

Approved By: John Fard

Date: 5/26/98

**Well Development and Purging Data**

Site Name JAGUEZ

- Development  
 Purging

Well Number M-1

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
Initial Depth to Water (feet) 3.98  
Height of Water Column in Well (feet) 11.32  
Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Methods of Development**

- Centrifugal  Bailer Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
  
 Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.5</u>	<u>22.4</u>
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1253										18.8	7.64	286		
5-19-98	1258						5.0	5.0			15.4	7.39	296		
5-19-98	1305						3.0	8.0			16.1	7.36	299		
5-19-98	1318						3.0	10.0			17.3	7.48	294	3.5	

Comments THE WELL BAILED DRY @ 10.0 GALLONS.

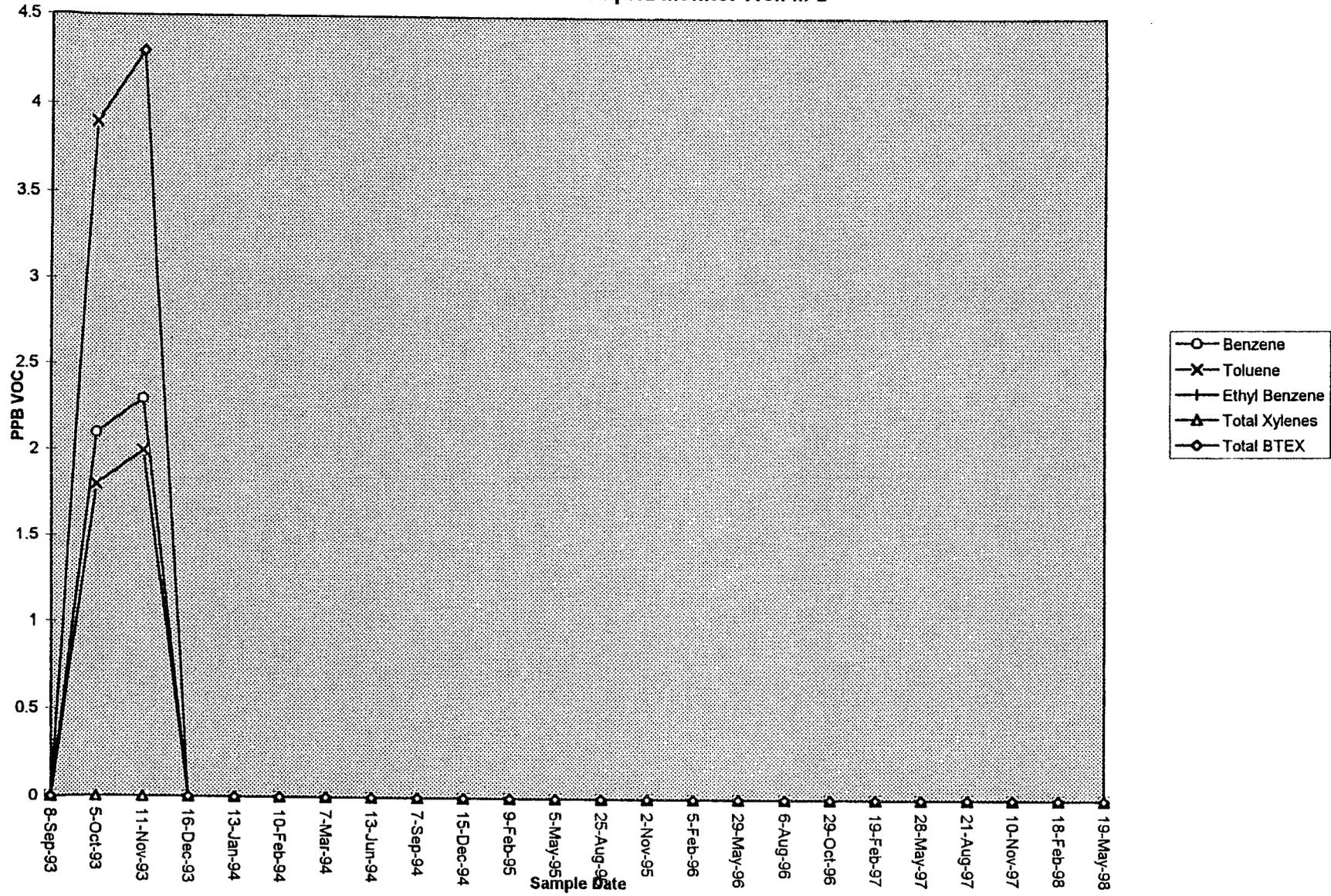
Developer's Signature Dennis Bird

Date 5-19-98

Reviewer John J. Larkin

Date 5/26/98

### Jaquez Monitor Well M-2





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

### JAQUEZ CORNFIELD

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980409
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1423
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	M-2	Water

Field Remarks:

#### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 79.6 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative:

Approved By:

*John Faldi*

Date:

*5/24/98*

980409BTEXJaquezCornfield,5/22/98



# EL PASO FIELD SERVICES

## Field Services Laboratory Analytical Report

### SAMPLE IDENTIFICATION

EPFS LAB ID:	980409
DATE SAMPLED:	05/19/98
TIME SAMPLED (Hrs):	1423
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	M-2

FIELD REMARKS:

### GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	<0.1	PPM	05/20/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	05/20/98

Lab Remarks:

Reported By: pv

Approved By: John Lubda

Date: 5/26/98

980409GCSSNitrate-Nitrite, 5/26/98

**Well Development and Purging Data**

Site Name JARQUEZ

- Development
- Purging

Well Number M-3

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.10  
 Initial Depth to Water (feet) 7.30  
 Height of Water Column in Well (feet) 11.60  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Methods of Development**

- Centrifugal  Bailer
- Submersible  Double Check Valve
- Peristaltic  Stainless-steel Kemmerer
- Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.7	23.0
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1327										16.5	7.20	479		
5-19-98	1332						5.0	5.0			14.5	7.03	549		
5-19-98	1336						5.0	10.0			13.5	7.02	543		
5-19-98	1343						5.0	15.0			12.5	7.04	549		
5-19-98	1348						5.0	20.0			13.0	7.00	539		
5-19-98	1355						5.0	25.0			13.1	7.03	528	1.5	

Comments \_\_\_\_\_

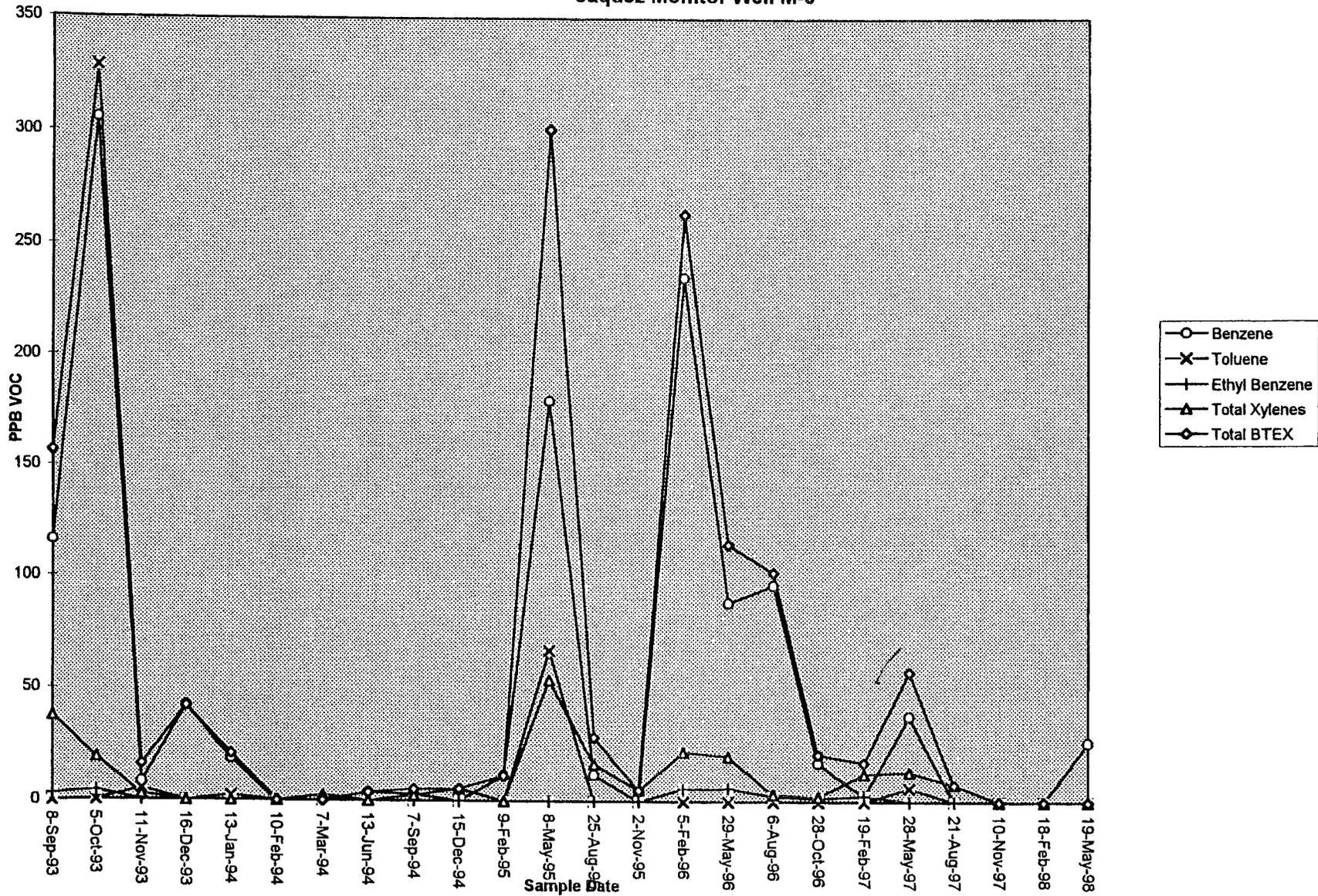
Developer's Signature Lennis Bied

Date 5-19-98

Reviewer John Lardi

Date 5/26/98

Jaquez Monitor Well M-3





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980410
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1528
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	M-3	Water

Field Remarks:

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	O		
BENZENE	26.7	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	2.52	PPB				
TOTAL BTEX	29	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 87.8 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative:

Approved By:

Date:

5/26/98

980410BTEXJaquezCornfield,5/22/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980410
DATE SAMPLED:	05/19/98
TIME SAMPLED (Hrs):	1528
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	M-3

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	0.32	PPM	05/20/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	05/20/98

ab Remarks:

Reported By: CV

Approved By: John Ladd

Date: 5/26/98

**Well Development and Purging Data**

Site Name JAUQUER

- Development  
 Purging

Well Number M-3

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.20  
Initial Depth to Water (feet) 3.75  
Height of Water Column in Well (feet) 11.45  
Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Methods of Development**

- Pump**  
 Centrifugal  
 Submersible  
 Peristaltic  
 Other \_\_\_\_\_
- Bailer**  
 Bottom Valve  
 Double Check Valve  
 Stainless-steel Kemmerer

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.6</u>	<u>22.7</u>
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

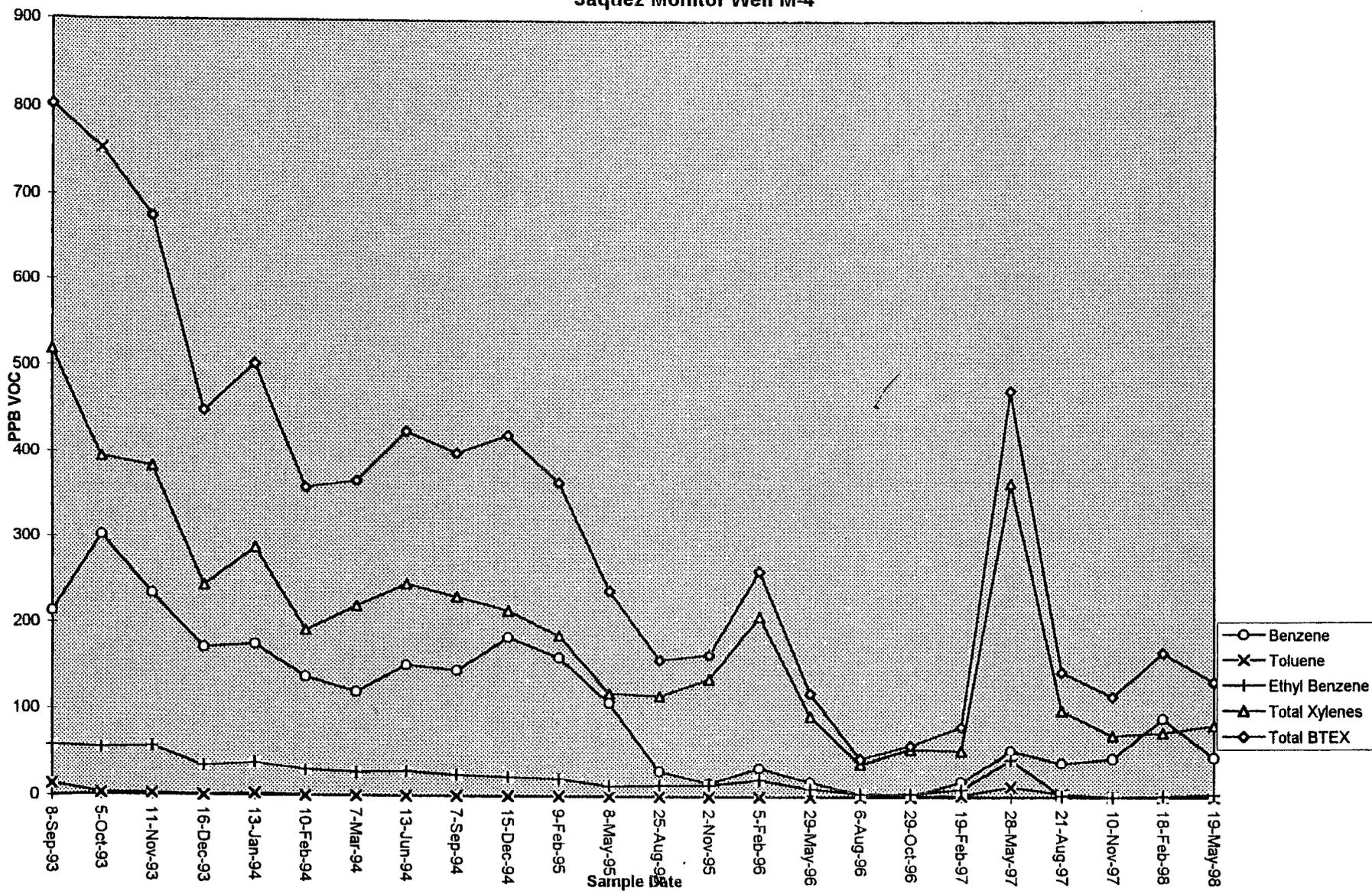
**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1445										19.7	6.90	948		
5-19-98	1450						5.0	5.0			18.2	6.67	1011		
5-19-98	1455						5.0	10.0			16.5	6.68	856		
5-19-98	1502						5.0	15.0			17.0	6.80	751		
5-19-98	1508						5.0	20.0			17.0	6.83	655		
5-19-98	1515						5.0	25.0			17.5	6.93	656	2.5	

Comments REMOVED THE OXYGEN RELEASE COMPOUND SOCKS 32 DAYS BEFORE SAMPLING

Developer's Signature Dennis Bied Date 5-19-98 Reviewer John Lander Date 5/26/98

Jaquez Monitor Well M-4





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980411
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1717
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	M-4	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	46.6	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	2.81	PPB				
TOTAL XYLENES	83.1	PPB				
TOTAL BTEX	133	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 65.4 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Savin*

Date: 5/26/98

980411BTEXJaquezCornfield,5/22/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980411
DATE SAMPLED:	05/19/98
TIME SAMPLED (Hrs):	1717
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	M-4

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	0.21	PPM	05/20/98
Nitrite as NO <sub>2</sub> -N	0.24	PPM	05/20/98

Lab Remarks:

Reported By: CR

Approved By: John Lusk

Date: 5/26/98



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980412
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1717
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	M-4 Field Dup	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	46.1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	2.76	PPB				
TOTAL XYLENES	83.2	PPB				
TOTAL BTEX	132	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 86.9 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Latta*

Date: \_\_\_\_\_

5/26/98

98042BTEXJaquezCornfield,5/26/98



# EL PASO FIELD SERVICES

## Field Services Laboratory Analytical Report

### SAMPLE IDENTIFICATION

EPFS LAB ID:	980412
DATE SAMPLED:	05/19/98
TIME SAMPLED (Hrs):	1717
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	M-4 Field Dup

FIELD REMARKS:

### GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as $\text{NO}_3\text{-N}$	0.21	PPM	05/20/98
Nitrite as $\text{NO}_2\text{-N}$	0.24	PPM	05/20/98

Lab Remarks:

Reported By: CB

Approved By: John Ladd

Date: 5/26/98

**Well Development and Purging Data**

Site Name Jaquez

- Development  
 Purging

Well Number M-4

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
 Initial Depth to Water (feet) 2.26  
 Height of Water Column in Well (feet) 13.04  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Methods of Development**

- Pump Bailer  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		8.6	25.9
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1548										20.6	7.88	605		
5-19-98	1553						5.0	5.0			17.0	8.22	652		
5-19-98	1559						3.0	8.0			15.5	8.36	659		
5-19-98	1605						2.0	10.0			15.2	8.48	614		
5-19-98	1615						1.0	11.0			15.5	8.35	577	2.5	

Comments THE WELL BAILED DRY @ 11.0 GALLONS. REMOVED THE OXYGEN COMPOUND SOCKS 32 DAYS BEFORE SAMPLING

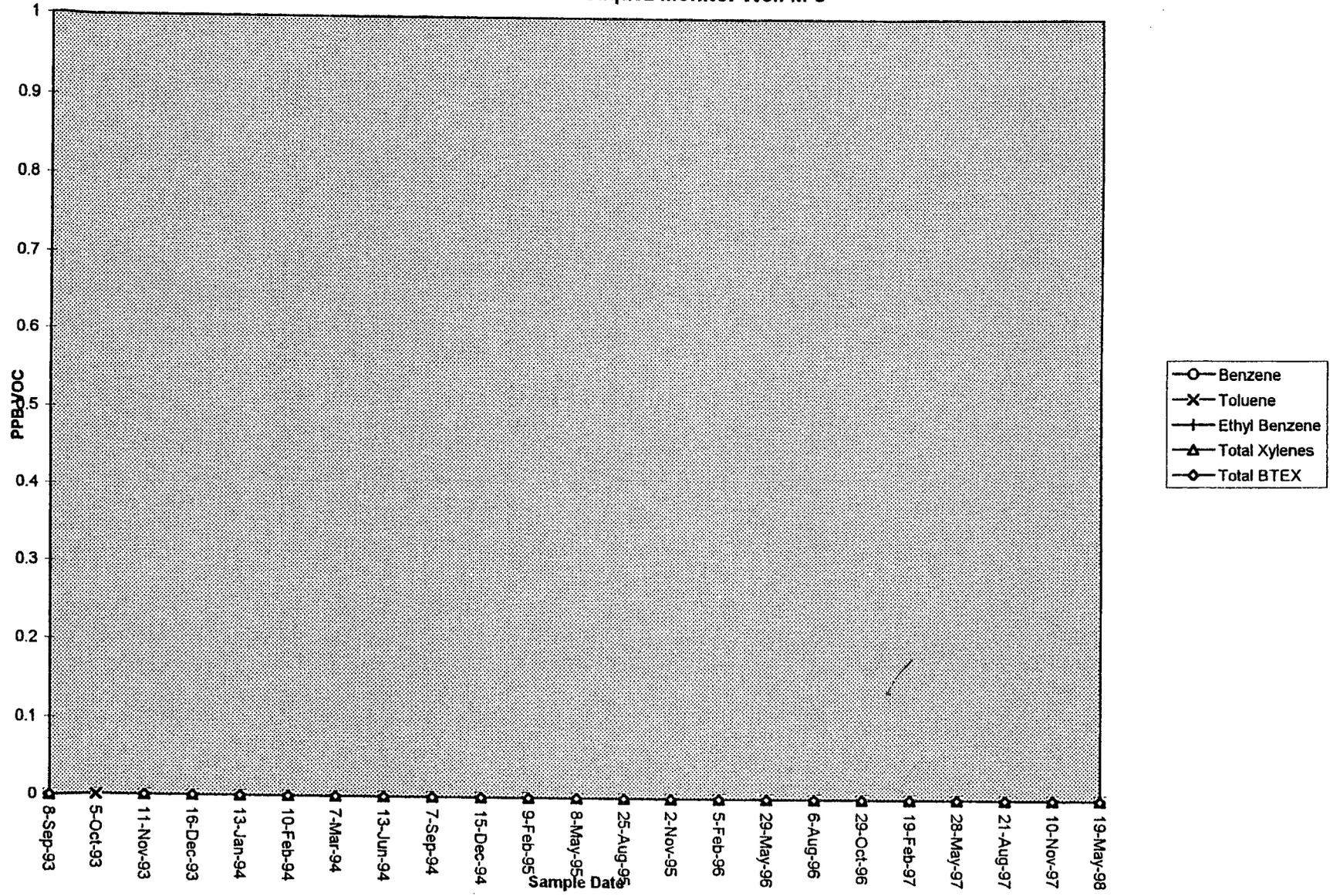
Developer's Signature Dennis Bied

Date 5-19-98

Reviewer John Fards

Date 5/26/98

# Jaquez Monitor Well M-5





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980413
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	5/19/98	1734
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	5/21/98	5/21/98
TYPE   DESCRIPTION:	M-5	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	O		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 87.3 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John L. Ladd*

Date: \_\_\_\_\_

5/24/98

980413BTEXJacquezCornfield,5/26/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980413
DATE SAMPLED:	05/19/98
TIME SAMPLED (Hrs):	1734
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez Cornfield
SAMPLE POINT:	M-5

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as $\text{NO}_3\text{-N}$	<0.1	PPM	05/20/98
Nitrite as $\text{NO}_2\text{-N}$	<0.1	PPM	05/20/98

Lab Remarks:

Reported By: CV

Approved By: John Sandoz

Date: 5/26/98

**Well Development and Purging Data**

Site Name JAYVEZ

- Development  
 Purging

Well Number M-5

Meter Code \_\_\_\_\_

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.10  
Initial Depth to Water (feet) 3.37  
Height of Water Column in Well (feet) 11.73  
Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Methods of Development**

- Pump  
 Centrifugal  
 Submersible  
 Peristaltic  
 Other \_\_\_\_\_
- Bailer  
 Bottom Valve  
 Double Check Valve  
 Stainless-steel Kemmerer

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.8</u>	<u>23.3</u>
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

ON SITE BARRELS

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-19-98	1633										17.5	7.63	525		
5-19-98	1637						5.0	5.0			15.0	7.19	597		
5-19-98	1643						5.0	10.0			13.7	7.10	589		
5-19-98	1650						5.0	15.0			13.5	7.04	571		
5-19-98	1656						5.0	20.0			13.5	7.05	589		
5-19-98	1706						5.0	25.0			13.8	7.17	538	3.5	

Comments \_\_\_\_\_

Developer's Signature Dennis Bird  
by J. Lambdin

Date 5-19-98

Reviewer John Ladd

Date 5/26/98

**September 1, 1998**

**3rd Quarter 1998 REPORT**

**Jaquez Corn Field  
Monitor Well Analytical Results  
Lab Sample #'s 980589 to 980591  
Sampled August 26, 1998  
Sampled by Dennis Bird**

**Report Distribution:**

Sandra Miller  
Scott Pope - Philip Services Company  
Results File

**Attachments**

**CHAIN OF CUSTODY RECORD**

Project No.		Project Name <b>JAGUEZ</b>				Type and No. of Sample Containers	Preservation Technique <b>BIKE</b>	Requested Analysis	Remarks
Samplers: (Signature) <b>Dennis Bird</b>		Date: <b>8-26-98</b>							
MATRIX	Date	Time	Comp.	GRAB	Sample Number				
WATER	8-26-98	1101		X	980589 ✓	G-1 4°C	X X	MONITOR WELL M-3	
WATER	8-26-98	1226		X	980590 ✓	G-1 4°C	X X	MONITOR WELL M-4	
WATER	8-26-98	1226		X	980591 ✓	G-1 4°C	X X	MONITOR WELL M-4 FIELD DUP	
WATER	8-26-98	---		X	---	G-1 4°C	X	TRIP BLANK	
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 48px; pointer-events: none;">                 \             </div>									
Relinquished by: (Signature) <b>Dennis Bird</b>		Date/Time <b>8/26/98 1521</b>		Received by: (Signature)		Relinquished by: (Signature)		Date/Time	
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Relinquished by: (Signature)		Date/Time	
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature) <b>Madon Rappin</b>		Date/Time <b>8/27/98 0900</b>		Remarks:	
Carrier Co:				Carrier Phone No.		Date Results Reported / by: (Signature)			
Air Bill No.:									



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980589
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	8/26/98	1101
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	8/27/98	8/27/98
TYPE   DESCRIPTION:	M-3	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1	PPB				
TOLUENE	2.76	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	3	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 94.3 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

9/1/98

980589BTEXJaquezCornfield,8/28/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980589
DATE SAMPLED:	08/26/98
TIME SAMPLED (Hrs):	1101
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez
SAMPLE POINT:	M-3

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	0.3	PPM	08/27/98
Nitrite as NO <sub>2</sub> -N	<0.1	PPM	08/27/98

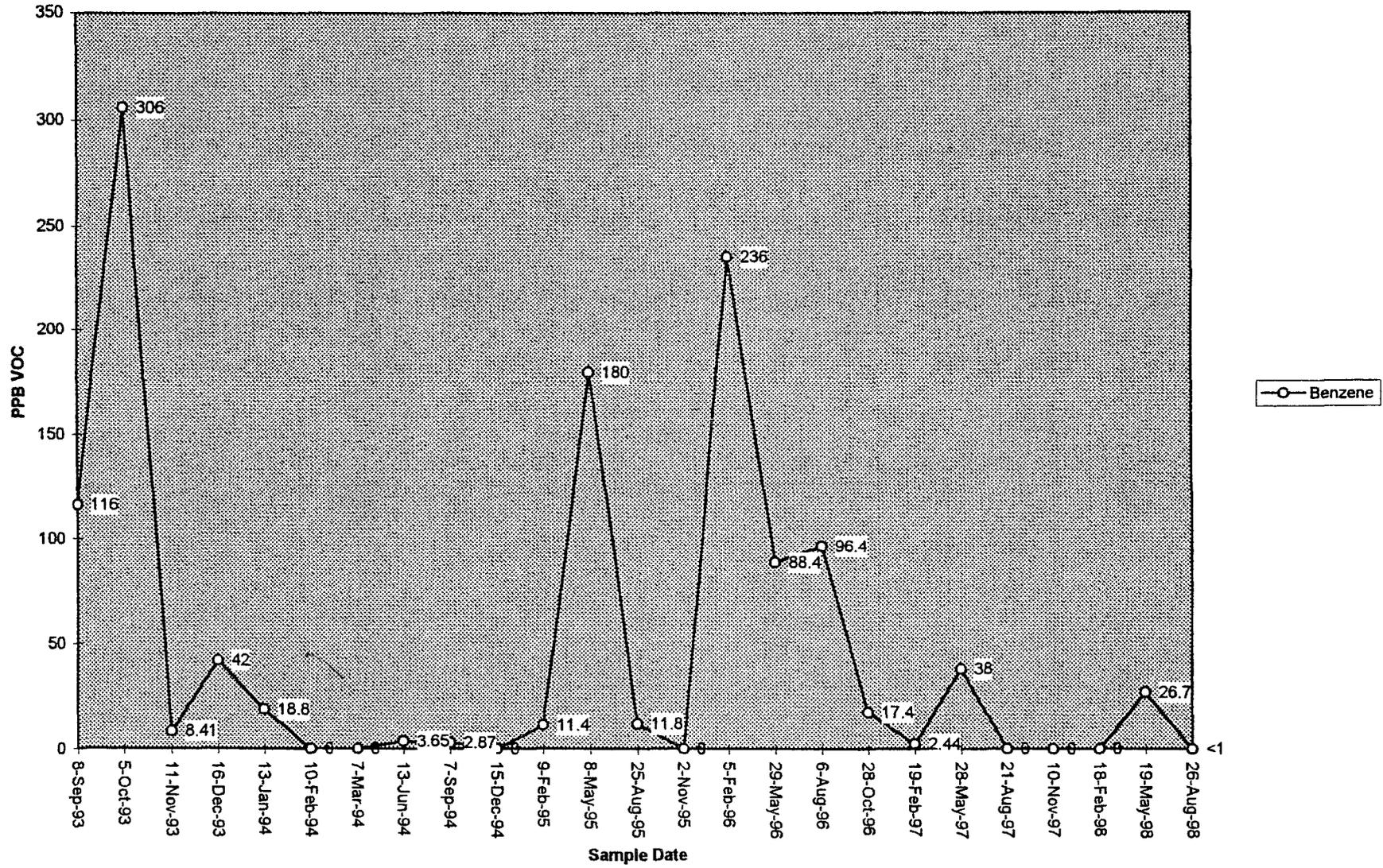
Lab Remarks:

Reported By: CRV

Approved By: John Ludden

Date: 9-1-98

### Jaquez Monitor Well M-3



**Well Development and Purging Data**

Site Name JARQUEZ

- Development  
 Purging

Well Number M-3

Meter Code NA

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
Initial Depth to Water (feet) 4.53  
Height of Water Column in Well (feet) 10.67  
Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.P. CHEMETS KIT

**Methods of Development**

- Pump Bailer  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.1	21.2
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

KUTZ SEPARATOR

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-26-98	1012										21.2	6.06	783		
8-26-98	1017						5.0	5.0			19.8	6.24	763		
8-26-98	1023						5.0	10.0			19.3	6.42	568		
8-26-98	1033						5.0	15.0			19.3	6.72	518		
8-26-98	1038						5.0	20.0			19.9	6.72	459		
8-26-98	1048						5.0	25.0			20.6	6.87	472	2.5	

Comments REMOVED THE OXYGEN RELEASE COMPOUND SOCKS 37 DAYS BEFORE SAMPLING.

Developer's Signature Dennis Bird

Date 8-26-98

Reviewer John Fardul

Date 9/1/98



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980590
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	8/26/98	1226
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	8/27/98	8/27/98
TYPE   DESCRIPTION:	M-4	Water

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	51.0	PPB				
TOLUENE	2.56	PPB				
ETHYL BENZENE	2.08	PPB				
TOTAL XYLENES	45.1	PPB				
TOTAL BTEX	101	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.0 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Latch*

Date: \_\_\_\_\_

9/1/98

980589BTEXJaquezCornfield,8/28/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980590
DATE SAMPLED:	08/26/98
TIME SAMPLED (Hrs):	1226
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez
SAMPLE POINT:	M-4

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	43.9	PPM	08/27/98
Nitrite as NO <sub>2</sub> -N	0.6	PPM	08/27/98

Lab Remarks:

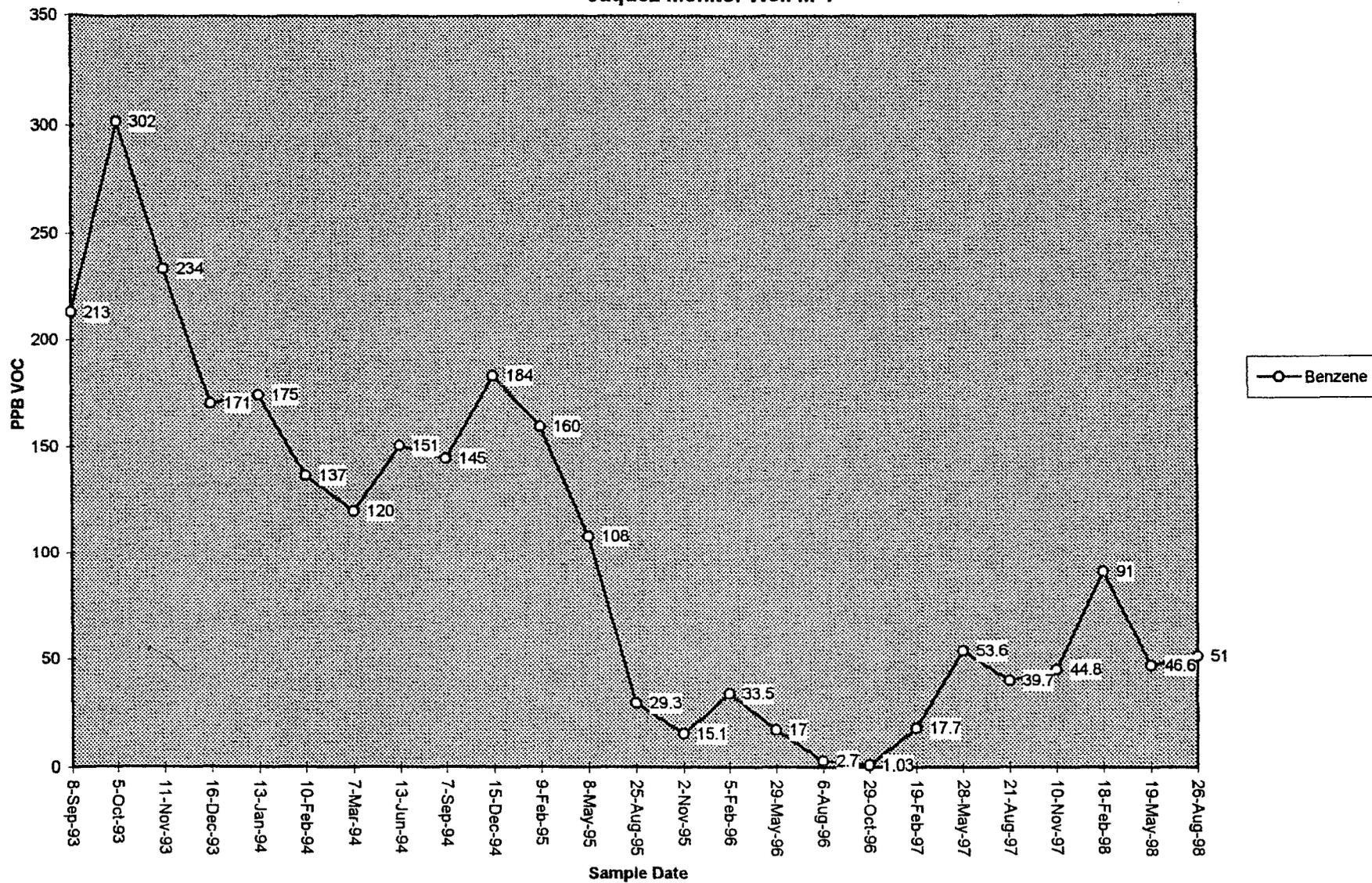
Reported By: CRV

Approved By: John Larch

Date: 9-1-98

980590GCSSNitrate-Nitrite, 8/31/98

Jaquez Monitor Well M-4



**Well Development and Purging Data**

Site Name JARQUEZ

- Development
- Purging

Well Number M-4

Meter Code NA

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
 Initial Depth to Water (feet) 3.02  
 Height of Water Column in Well (feet) 12.28  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Methods of Development**

- Pump
  - Centrifugal
  - Submersible
  - Peristaltic
  - Other \_\_\_\_\_
- Bailer
  - Bottom Valve
  - Double Check Valve
  - Stainless-steel Kemmerer

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		8.1	24.4
Gravel Pack			
Drilling Fluids			
Total			

**Water Disposal**

KUTZ SEPARATOR

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-26-98	1128										27.5	8.29	575		
8-26-98	1134						5.0	5.0			23.3	8.63	583		
8-26-98	1143						3.0	8.0			24.8	8.91	582		
8-26-98	1150						2.0	10.0			29.6	10.02	1252		
8-26-98	1158						1.0	11.0			21.0	9.69	777	4.5	

Comments THE WELL BAILED DRY @ 11.0 GALLONS. REMOVED THE OXYGEN COMPOUND SOCKS 37 DAYS BEFORE SAMPLING

Developer's Signature Nennis Bird

Date 8-26-98

Reviewer John Linder

Date 9-1-98

**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
JAQUEZ CORNFIELD**

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980591
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	8/26/98	1226
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	8/27/98	8/27/98
TYPE   DESCRIPTION:	M-4 Field Dup	Water

Field Remarks: \_\_\_\_\_

**RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	53.5	PPB				
TOLUENE	2.83	PPB				
ETHYL BENZENE	2.20	PPB				
TOTAL XYLENES	52.2	PPB				
TOTAL BTEX	111	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 98.9 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Jordan*

Date: \_\_\_\_\_

*9/1/98*

980591BTEXJaquezCornfield, 8/28/98



# EL PASO FIELD SERVICES

Field Services Laboratory  
Analytical Report

## SAMPLE IDENTIFICATION

EPFS LAB ID:	980591
DATE SAMPLED:	08/26/98
TIME SAMPLED (Hrs):	1226
SAMPLED BY:	Dennis Bird
MATRIX:	Water
METER CODE:	N/A
SAMPLE SITE NAME:	Jaquez
SAMPLE POINT:	M-4 Field Dup

FIELD REMARKS:

## GENERAL CHEMISTRY WATER ANALYSIS RESULTS

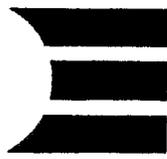
PARAMETER	RESULT	UNITS	DATE ANALYZED
Nitrate as NO <sub>3</sub> -N	42.1	PPM	08/27/98
Nitrite as NO <sub>2</sub> -N	0.6	PPM	08/27/98

Lab Remarks:

Reported By: CRV

Approved By: John Lawden

Date: 9-1-98



# EL PASO FIELD SERVICES

QUALITY CONTROL REPORT  
EPA METHOD 8020 - BTEX

Samples: 980579 to 980585, 980589 to 980591

QA/QC for 8/27/98 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.6	103.2	75 - 125 %	X
Toluene	Standard	50.0	51.8	104	75 - 125 %	X
Ethylbenzene	Standard	50.0	51.9	104	75 - 125 %	X
m & p - Xylene	Standard	100	104	104.4	75 - 125 %	X
o - Xylene	Standard	50.0	51.9	104	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	25.4	101.8	39 - 150	X
Toluene	Standard	25.0	25.8	103	46 - 148	X
Ethylbenzene	Standard	25.0	25.8	103	32 - 160	X
m & p - Xylene	Standard	50.0	51.8	104	Not Given	X
o - Xylene	Standard	25.0	25.9	104	Not Given	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.9	103.8	75 - 125 %	X
Toluene	Standard	50.0	52.0	104.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	52.5	105.1	75 - 125 %	X
m & p - Xylene	Standard	100	105	105.0	75 - 125 %	X
o - Xylene	Standard	50.0	52.1	104	75 - 125 %	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.1	102.2	75 - 125 %	X
Toluene	Standard	50.0	50.9	101.8	75 - 125 %	X
Ethylbenzene	Standard	50.0	50.6	101.1	75 - 125 %	X
m & p - Xylene	Standard	100	101	101.3	75 - 125 %	X
o - Xylene	Standard	50.0	50.9	101.8	75 - 125 %	X

Narrative: Acceptable.

**LABORATORY DUPLICATES:**

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					RANGE	YES NO
980582						
Benzene	Matrix Duplicate	38.3	37.8	1.19	+/- 20 %	X
Toluene	Matrix Duplicate	3.8	3.8	1.29	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	69.26	67.35	2.80	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	35.82	34.1	5.01	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X

Narrative: Acceptable.

**LABORATORY SPIKES:**

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					RANGE	YES NO
2nd Analysis 980582						
Benzene	50	38.3	90.7	104.8	75 - 125 %	X
Toluene	50	3.8	56.0	104	75 - 125 %	X
Ethylbenzene	50	69.3	120	101	75 - 125 %	X
m & p - Xylene	100	35.8	142	106.0	75 - 125 %	X
o - Xylene	50	<1	52.8	106	75 - 125 %	X

Narrative: Acceptable

AUTO BLANK	SOURCE	PPB (2 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (none analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (none analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLANK	SOURCE	PPB (2 analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: CRV

Approved By: John Sarda

Date: 9/1/98

**November 18, 1998**

**4th Quarter 1998 REPORT**

**Jaquez Corn Field  
Monitor Well Analytical Results  
Lab Sample #'s 980786 to 980788  
Sampled November 5, 1998  
Sampled by Dennis Bird**

**Report Distribution:**

Sandra Miller  
Scott Pope - Philip Services Company  
Results File  
Monitor Well Historic Excel

**Attachments**



**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
JAQUEZ CORNFIELD**

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980786
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	11/5/98	1405
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	11/6/98	11/6/98
TYPE   DESCRIPTION:	M-3	Water

Field Remarks: \_\_\_\_\_

**RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	1.93	PPB	1			
TOLUENE	3.15	PPB	1			
ETHYL BENZENE	<1.0	PPB	1			
TOTAL XYLENES	<3.0	PPB	1			
TOTAL BTEX	5	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.9 for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

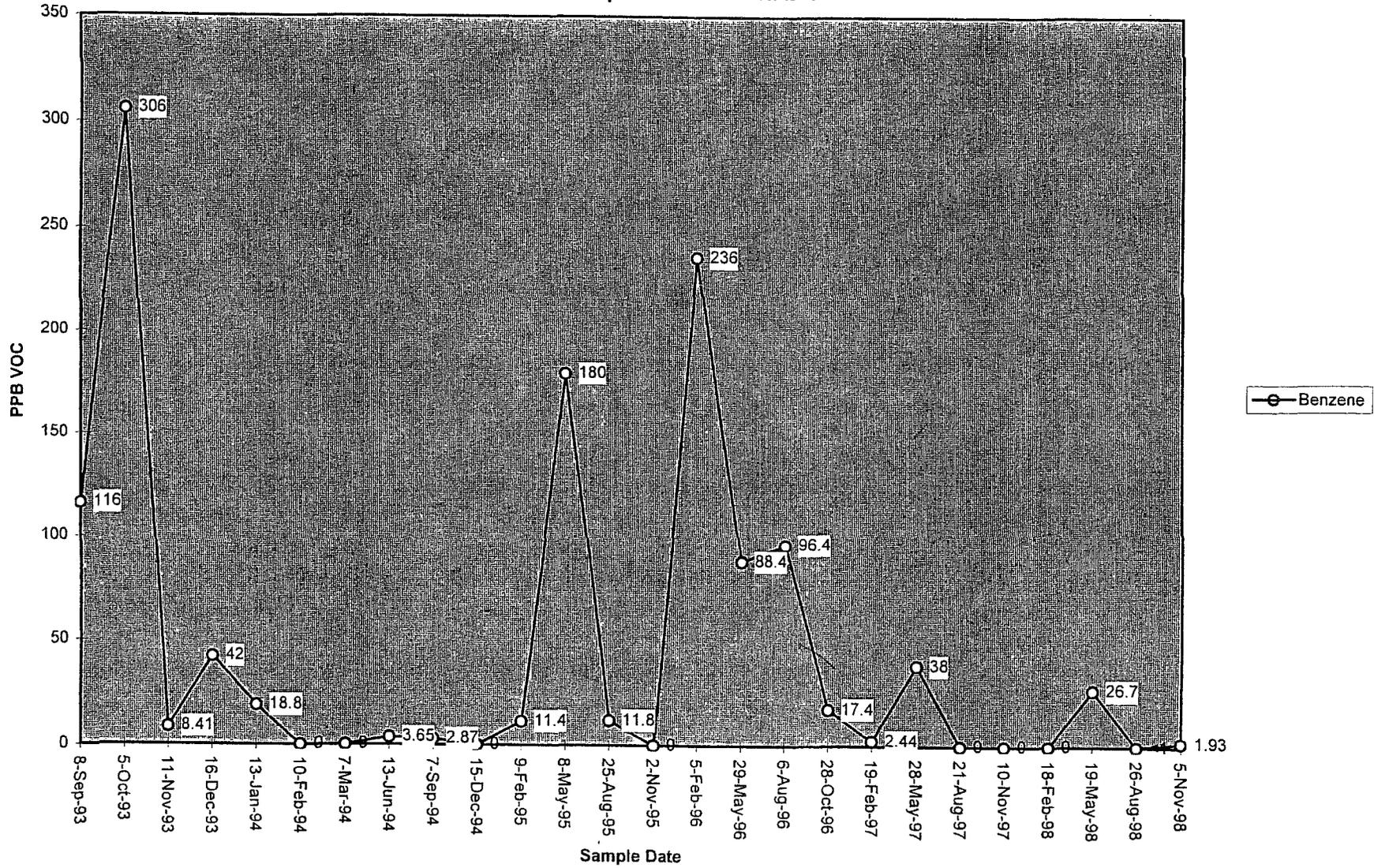
Approved By: \_\_\_\_\_

*John Sandoval*

Date: \_\_\_\_\_

*11/11/98*

Jaquez Monitor Well M-3



**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
JAQUEZ CORNFIELD**

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**SAMPLE IDENTIFICATION**

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	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980787
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	11/5/98	1526
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	11/6/98	11/6/98
TYPE   DESCRIPTION:	M-4	Water

Field Remarks: \_\_\_\_\_

---

**RESULTS**

---

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	69	PPB	1			
TOLUENE	<1.0	PPB	1			
ETHYL BENZENE	<1.0	PPB	1			
TOTAL XYLENES	33	PPB	1			
TOTAL BTEX	102	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 98.5 for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

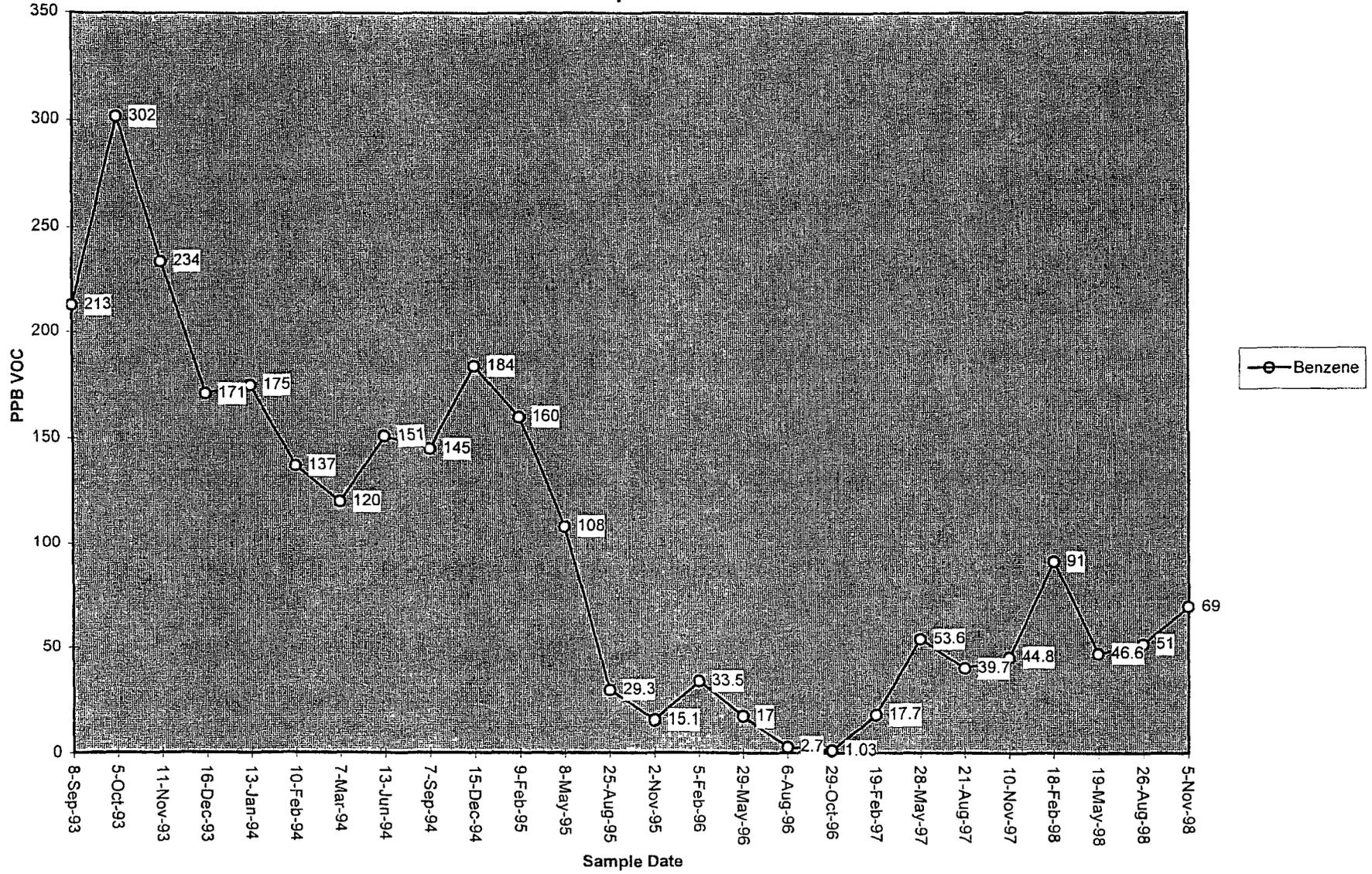
Approved By: \_\_\_\_\_

*John Sanchez*

Date: \_\_\_\_\_

*11/11/98*

Jaquez Monitor Well M-4





# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT JAQUEZ CORNFIELD

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980788
MTR CODE   SITE NAME:	N/A	Jaquez Cornfield
SAMPLE DATE   TIME (Hrs):	11/5/98	1526
PROJECT:	Monitor Well	
DATE OF BTEX EXT.   ANAL.:	11/6/98	11/6/98
TYPE   DESCRIPTION:	M-4 Field Duplicate	Water

Field Remarks: Duplicate

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	65.3	PPB	1			
TOLUENE	<1.0	PPB	1			
ETHYL BENZENE	<1.0	PPB	1			
TOTAL XYLENES	33	PPB	1			
TOTAL BTEX	99	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.8 for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative:

Approved By: John L...

Date: 11/11/98

**Well Development and Purging Data**

Site Name JAGUER

- Development
- Purging

Well Number M-3

Meter Code NA

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other \_\_\_\_\_

**Methods of Development**

- Pump
  - Centrifugal
  - Submersible
  - Peristaltic
  - Other \_\_\_\_\_
- Bailer
  - Bottom Valve
  - Double Check Valve
  - Stainless-steel Kemmerer

**Water Volume Calculation**

Initial Depth of Well (feet) 15.20  
 Initial Depth to Water (feet) 3.84  
 Height of Water Column in Well (feet) 11.36  
 Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.5</u>	<u>22.5</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter
- DO Monitor
- Conductivity Meter
- Temperature Meter
- Other D.O. CHEMETS KIT

**Water Disposal**

KUTZ SEPARATOR

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>11-5-98</u>	<u>1315</u>										<u>14.4</u>	<u>6.49</u>	<u>691</u>		
<u>11-5-98</u>	<u>1320</u>						<u>5.0</u>	<u>5.0</u>			<u>13.7</u>	<u>5.95</u>	<u>625</u>		
<u>11-5-98</u>	<u>1325</u>						<u>5.0</u>	<u>10.0</u>			<u>13.6</u>	<u>6.16</u>	<u>526</u>		
<u>11-5-98</u>	<u>1335</u>						<u>5.0</u>	<u>15.0</u>			<u>13.6</u>	<u>6.54</u>	<u>503</u>		
<u>11-5-98</u>	<u>1340</u>						<u>5.0</u>	<u>20.0</u>			<u>13.4</u>	<u>6.47</u>	<u>478</u>		
<u>11-5-98</u>	<u>1350</u>						<u>5.0</u>	<u>25.0</u>			<u>13.3</u>	<u>6.71</u>	<u>423</u>	<u>2.5</u>	

Comments REMOVED THE OXYGEN RELEASE COMPOUND SOCKS 31 DAYS BEFORE SAMPLING.

Developer's Signature Jennie Bied

Date 11-5-98

Reviewer John Jentzen

Date 11/10/98

**Well Development and Purging Data**

Site Name JAEVEZ

- Development  
 Purging

Well Number M-4

Meter Code NA

**Development Criteria**

- 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

**Methods of Development**

- Pump Bailer  
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
  
 Other \_\_\_\_\_

**Water Volume Calculation**

Initial Depth of Well (feet) 15.30  
Initial Depth to Water (feet) 2.30  
Height of Water Column in Well (feet) 13.0  
Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>8.6</u>	<u>25.8</u>
Gravel Pack			
Drilling Fluids			
Total			

**Instruments**

- pH Meter  
 DO Monitor  
 Conductivity Meter  
 Temperature Meter  
 Other D.O. CHEMETS KIT

**Water Disposal**

KUTZ SEPARATOR

**Water Removal Data**

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
<u>11-5-98</u>	<u>1428</u>										<u>13.0</u>	<u>7.84</u>	<u>1547</u>		
<u>11-5-98</u>	<u>1433</u>						<u>5.0</u>	<u>5.0</u>			<u>13.3</u>	<u>8.05</u>	<u>1575</u>		
<u>11-5-98</u>	<u>1438</u>						<u>3.0</u>	<u>8.0</u>			<u>13.3</u>	<u>8.06</u>	<u>1565</u>		
<u>11-5-98</u>	<u>1446</u>						<u>2.0</u>	<u>10.0</u>			<u>13.1</u>	<u>8.61</u>	<u>1542</u>		
<u>11-5-98</u>	<u>1459</u>						<u>1.0</u>	<u>11.0</u>			<u>12.7</u>	<u>8.53</u>	<u>1726</u>	<u>4.5</u>	

Comments THE WELL BAILED DRY @ 110 GALLONS. REMOVED THE OXYGEN COMPOUND SOCKS 3/DAYS BEFORE SAMPLING.

Developer's Signature Lennie Bird

Date 11-5-98

Reviewer John Jurdich

Date 11/10/98



# EL PASO FIELD SERVICES

QUALITY CONTROL REPORT  
EPA METHOD 8020 - BTEX

Samples: 980783 and 980788

QA/QC for 11/6/98 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.1	102.3	75 - 125 %	X
Toluene	Standard	50.0	51.3	103	75 - 125 %	X
Ethylbenzene	Standard	50.0	51.5	103	75 - 125 %	X
m & p - Xylene	Standard	100	105.6	105.6	75 - 125 %	X
o - Xylene	Standard	50.0	52.1	104	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	25.5	102.0	39 - 150	X
Toluene	Standard	25.0	25.8	103	46 - 148	X
Ethylbenzene	Standard	25.0	25.9	104	32 - 160	X
m & p - Xylene	Standard	50.0	53.2	106	Not Given	X
o - Xylene	Standard	25.0	26.4	106	Not Given	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	52.4	104.7	75 - 125 %	X
Toluene	Standard	50.0	52.4	104.8	75 - 125 %	X
Ethylbenzene	Standard	50.0	52.3	104.6	75 - 125 %	X
m & p - Xylene	Standard	100	106.7	106.7	75 - 125 %	X
o - Xylene	Standard	50.0	53.1	106	75 - 125 %	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	51.9	103.7	75 - 125 %	X
Toluene	Standard	50.0	50.8	101.7	75 - 125 %	X
Ethylbenzene	Standard	50.0	50.3	100.5	75 - 125 %	X
m & p - Xylene	Standard	100	101.6	101.6	75 - 125 %	X
o - Xylene	Standard	50.0	51.3	103	75 - 125 %	X

narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE		
					RANGE	YES	NO
980787							
Benzene	Matrix Duplicate	69.0	67.4	2.30	+/- 20 %	X	
Toluene	Matrix Duplicate	0.6	0.7	6.97	+/- 20 %	X	
Ethylbenzene	Matrix Duplicate	0.82	0.77	6.22	+/- 20 %	X	
m & p - Xylene	Matrix Duplicate	20.64	20.0	2.96	+/- 20 %	X	
o - Xylene	Matrix Duplicate	12.77	12.58	1.52	+/- 20 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE		
					RANGE	YES	NO
2nd Analysis 980787							
Benzene	50	69.0	116.5	95.1	75 - 125 %	X	
Toluene	50	0.6	52.6	104	75 - 125 %	X	
Ethylbenzene	50	0.8	53.6	106	75 - 125 %	X	
m & p - Xylene	100	20.6	127.0	106.4	75 - 125 %	X	
o - Xylene	50	12.8	64.9	104	75 - 125 %	X	

Narrative: Acceptable

AUTO BLANK	SOURCE	AUTO BLANK (1 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (none analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLANK	SOURCE	PPB (1 analyzed with this set - 11/05/98)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: JAL

Approved By: *John Jatch*

Date: 11/11/98

Jaquez Lindequist

November 20, 1998

DEC 21 1998



ANALYTICAL REPORT

**Jaquez Seep Investigation Sample Results**  
**Lab Sample #'s 980793 to 980794**  
**Sampled November 11, 1998**  
**Sampled by John Lambdin**

Report Distribution:

Sandra Miller  
Results Files

Bill -  
Please copy Scott Pope so  
that he can include in annual  
report.  
Thanks  
SM.

**Attachments**

**CHAIN OF CUSTODY RECORD**

Project No.		Project Name				Type and No. of Sample Containers	Preservation Technique	Requested Analysis		Remarks	
NA		Jaquez Investigation									
Samplers: (Signature)					Date:						
John Jarden					11/6/98						
Matrix	Date	Time	Comp.	GRAB	Sample Number						
Water	11/6/98	1430	X		980793	26	4°C/HQ	X		Downstream of Seep Area At Seep Area	
Soil	11/6/98	1435	X		980794	16	4°C	X	X		
SE CORNER OF PROPERTY											
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)		Date/Time	
Relinquished by: (Signature)			Date/Time		Received by: (Signature)			Relinquished by: (Signature)		Date/Time	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)			Date/Time		Remarks: COOL (34°F) and INTACT	
					John Jarden			11/6/98 1620			
Carrier Co:					Carrier Phone No.			Date Results Reported / by: (Signature)			
Air Bill No.:											



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980793
MTR CODE   SITE NAME:	N/A	Jaquez
SAMPLE DATE   TIME (Hrs):	11/6/98	1430
PROJECT:	Jaquez Investigation	
DATE OF BTEX EXT.   ANAL.:	11/9/98	11/9/98
TYPE   DESCRIPTION:	Water	Downstream of Seep Area

Field Remarks: \_\_\_\_\_

### RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	<1.0	PPB	1			
TOLUENE	<1.0	PPB	1			
ETHYL BENZENE	<1.0	PPB	1			
TOTAL XYLENES	<3.0	PPB	1			
TOTAL BTEX	<6.0	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 98.9 for this sample. All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative:

All QC Acceptable.

Approved By: \_\_\_\_\_

*John J. ...*

Date: \_\_\_\_\_

11/11/98

**FIELD SERVICES LABORATORY  
ANALYTICAL REPORT**

**SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980794
MTR CODE   SITE NAME:	N/A	Jaquez
SAMPLE DATE   TIME (Hrs):	11/6/98	1435
PROJECT:	Jaquez investigation	
DATE OF TPH EXT.   ANAL.:	11/10/98	11/10/98
DATE OF BTEX EXT.   ANAL.:	11/9/98	11/9/98
TYPE   DESCRIPTION:	Soil	At Seep Area

Field Remarks: \_\_\_\_\_

**RESULTS**

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG	1			
TOLUENE	<0.5	MG/KG	1			
ETHYL BENZENE	<0.5	MG/KG	1			
TOTAL XYLENES	<1.5	MG/KG	1			
TOTAL BTEX	<3	MG/KG				
TPH (MOD.8015)	<20	MG/KG	1			
HEADSPACE PID	Not Run	PPM				
PERCENT SOLIDS	77.8	%				

-- TPH is by EPA Method 8015 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 100.1 for this sample. All QA/QC was acceptable.

**Narrative:**

TPH was analyzed by Pinnacle Laboratory in Albuquerque, NM.

All QA/QC is acceptable.

Dilution Factor Used \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Lavelle*

Date: \_\_\_\_\_

11/11/98



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

Pinnacle Lab ID number 811026  
November 16, 1998

EL PASO FIELD SERVICES  
770 WEST NAVAJO  
FARMINGTON, NM 87401



Project Name JACQUEZ  
Project Number (none)

Attention: JOHN LAMBDIN

On 11/10/98 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a request to analyze **non-aq** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

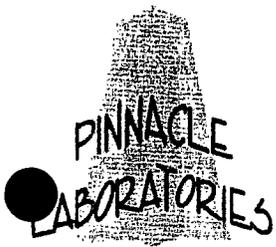
Kimberly D. McNeill  
Project Manager

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: mt

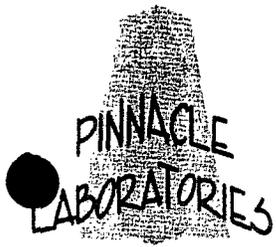
Enclosure

*Reviewed &  
Approved  
J. Fiedler  
11/20/98*



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

CLIENT	: EL PASO FIELD SERVICES	PINNACLE ID	: 811026
PROJECT #	: (none)	DATE RECEIVED	: 11/10/98
PROJECT NAME	: JACQUEZ	REPORT DATE	: 11/16/98
AEN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	980794	NON-AQ	11/6/98



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
CLIENT : EL PASO FIELD SERVICES PINNACLE I.D.: 811026  
PROJECT # : (none)  
PROJECT NAME : JACQUEZ

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	980794	NON-AQ	11/6/98	11/10/98	11/10/98	1

PARAMETER	DET. LIMIT	UNITS	01
FUEL HYDROCARBONS, C6-C10	10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	5.0	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	5.0	MG/KG	< 5.0

CALCULATED SUM:

SURROGATE:  
O-CERPHENYL (%) 102  
SURROGATE LIMITS (66 - 151)

CHEMIST NOTES:

N/A



2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

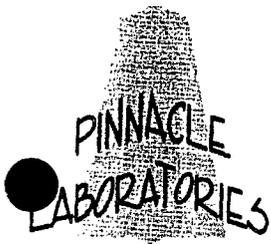
GAS CHROMATOGRAPHY RESULTS

REAGENT BLANK

TEST : EPA 8015 MODIFIED (DIRECT INJECT)  
BLANK I.D. : 111098 PINNACLE I.D. : 811026  
CLIENT : EL PASO FIELD SERVICES DATE EXTRACTED : 11/10/98  
PROJECT # : (none) DATE ANALYZED : 11/10/98  
PROJECT NAME : JACQUEZ SAMPLE MATRIX : NON-AQ

PARAMETER	UNITS	
FUEL HYDROCARBONS, C6-C10	MG/KG	< 10
FUEL HYDROCARBONS, C10-C22	MG/KG	< 5.0
FUEL HYDROCARBONS, C22-C36	MG/KG	< 5.0
SURROGATE:		
C-TRIPHENYL (%)		123
SURROGATE LIMITS	( 80 - 151 )	

CHEMIST NOTES:  
N/A



2709-D Pan American Freeway NE  
 Albuquerque, New Mexico 87107  
 Phone (505) 344-3777  
 Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL  
 MSMSD

TEST	: EPA 8015 MODIFIED (DIRECT INJECT)	PINNACLE I.D.	: 811026
MSMSD #	:	DATE EXTRACTED	: 11/10/98
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 11/10/98
PROJECT #	: (none)	SAMPLE MATRIX	: NON-AQ
PROJECT NAME	: JACQUEZ	UNITS	: MG/KG

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
FUEL HYDROCARBONS	<5.0	100	125	125	117	117	7	( 56 - 148 )	20

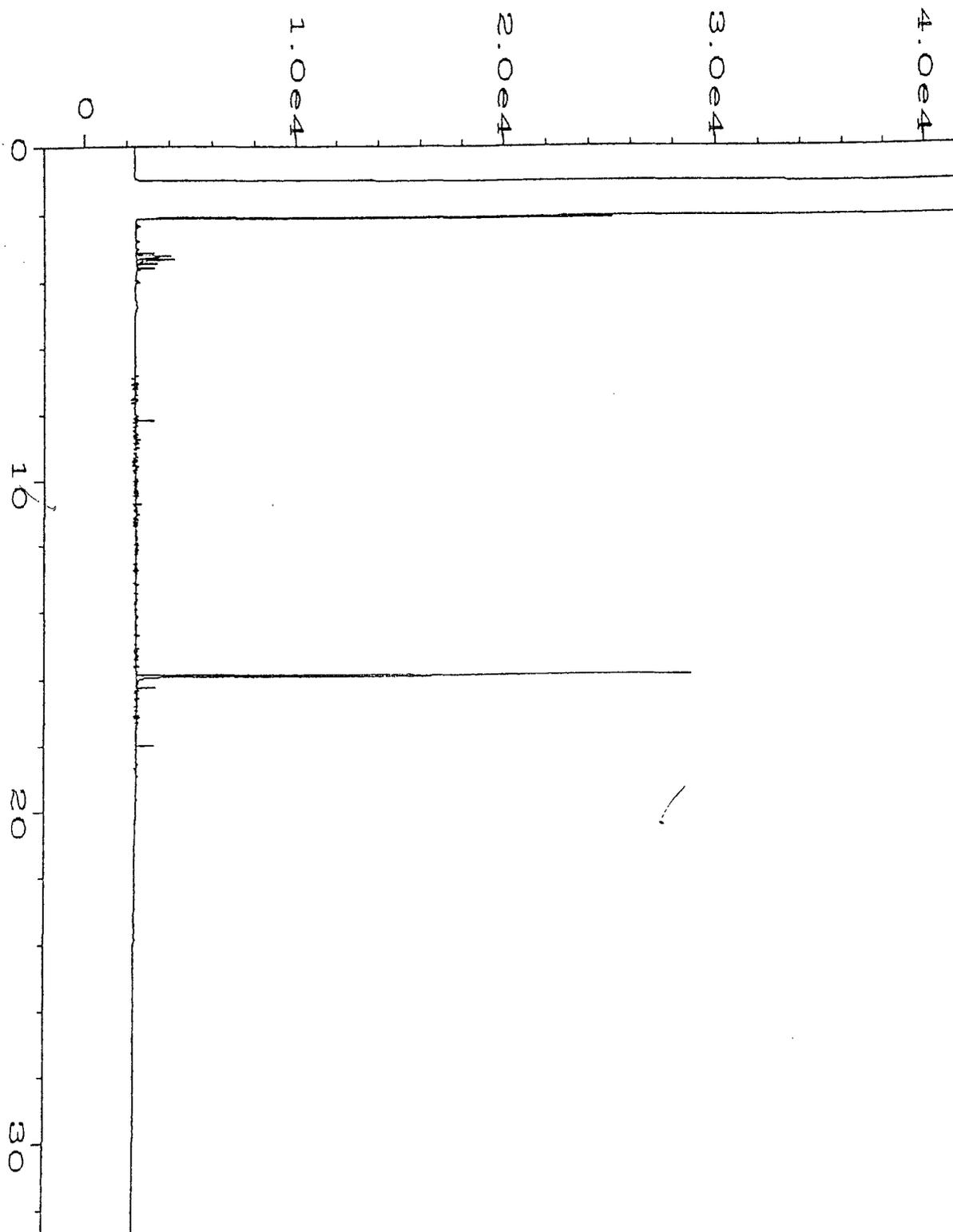
CHEMIST NOTES:

N

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

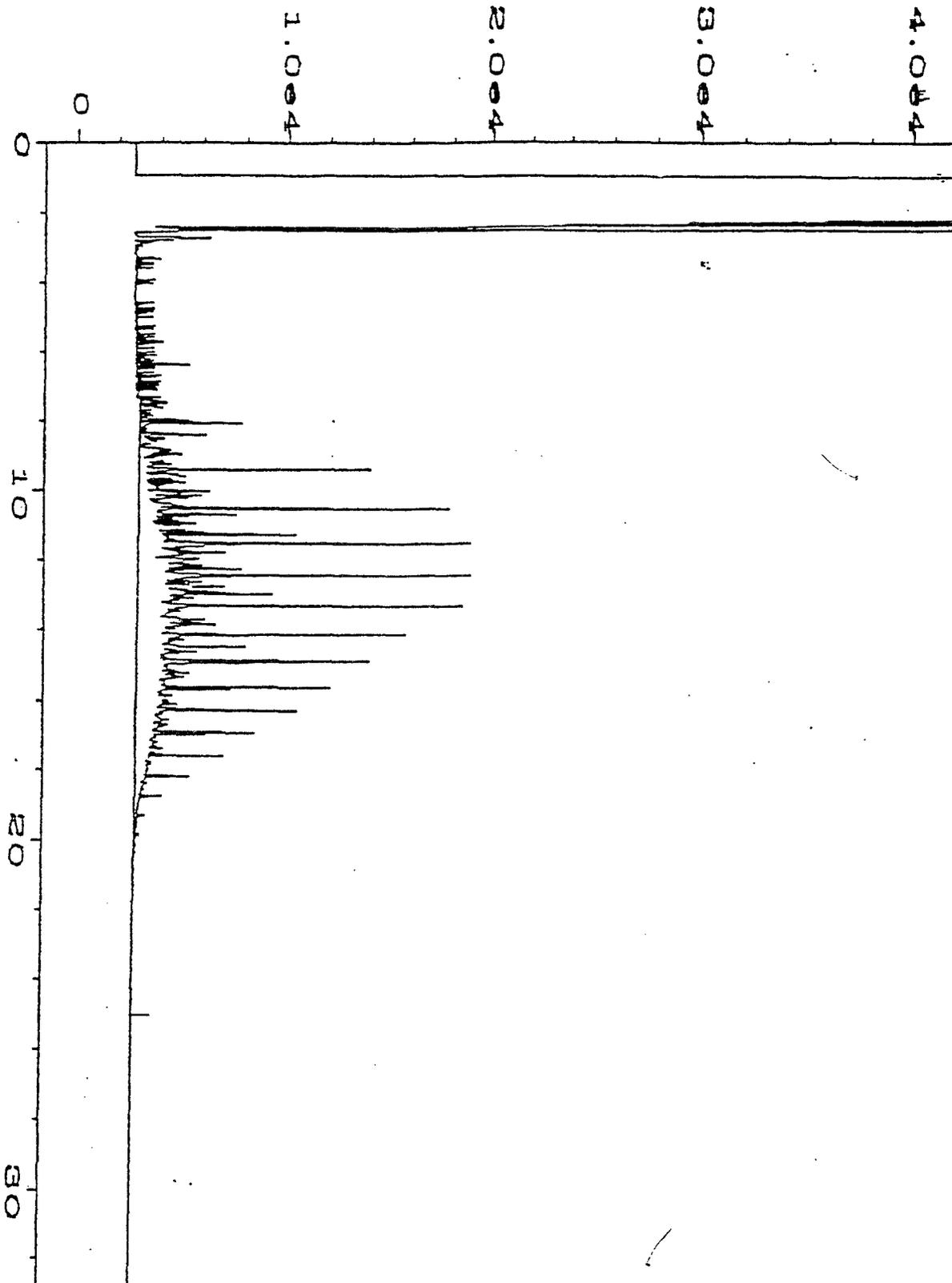
$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



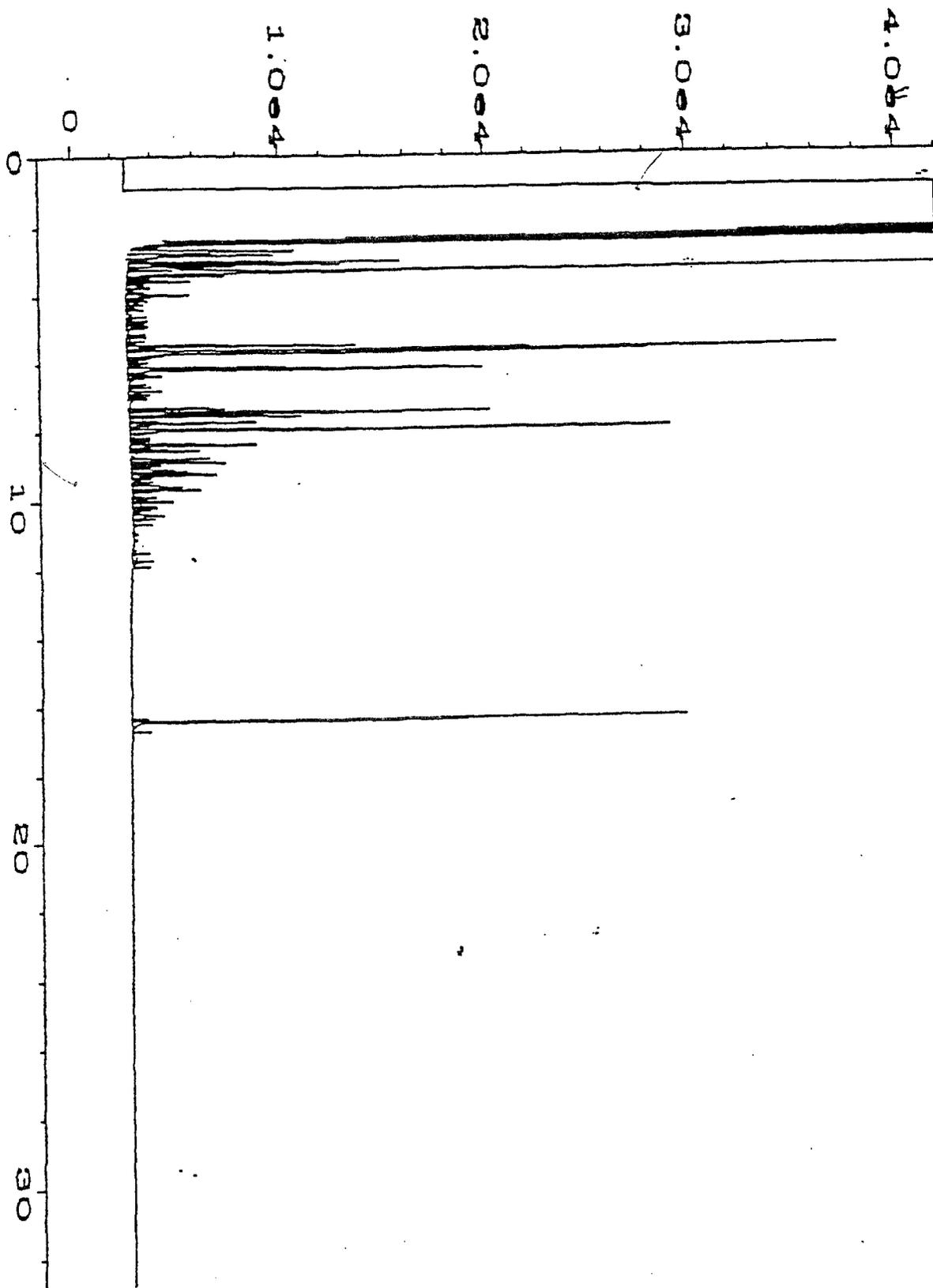


user modified

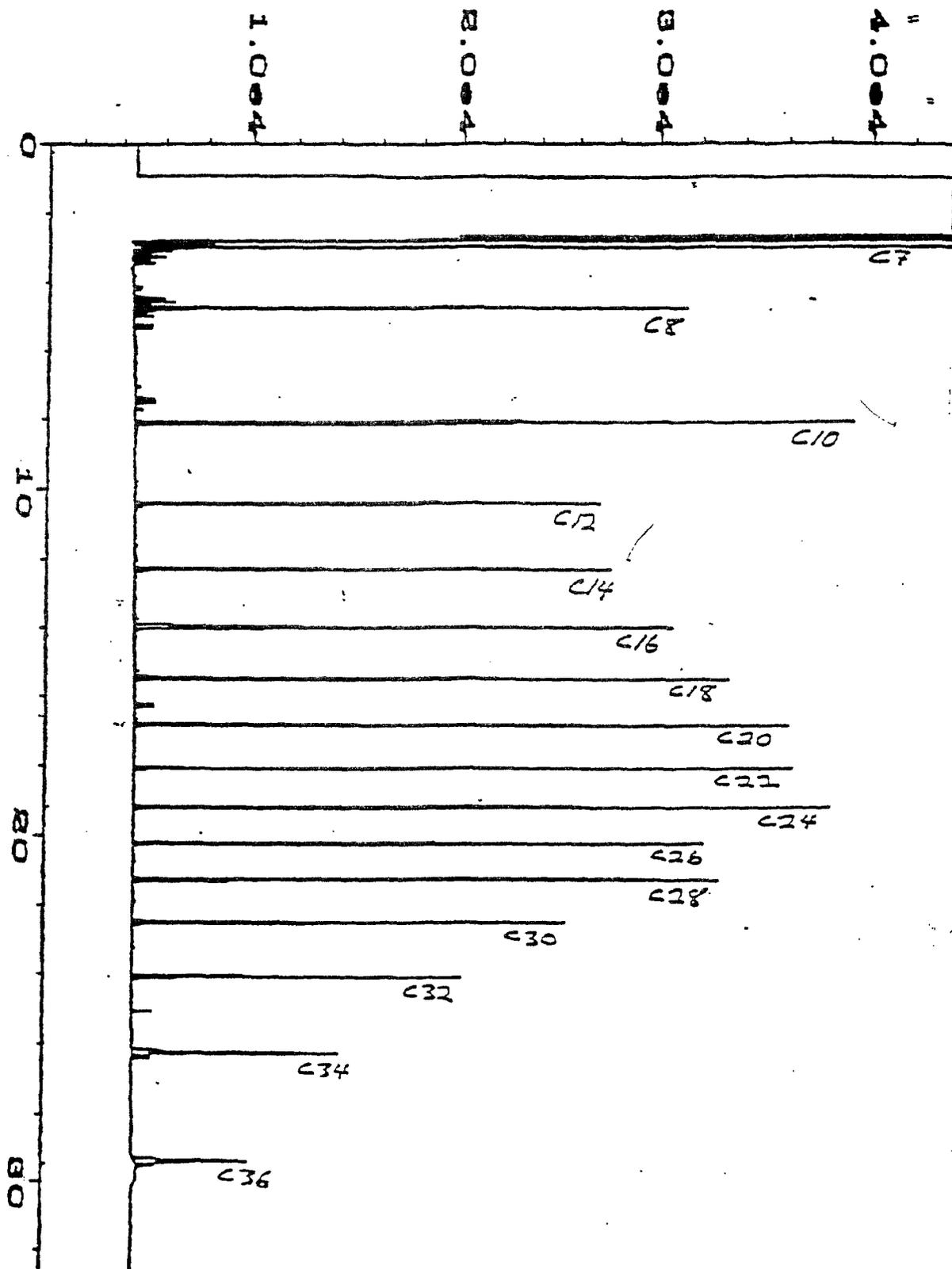
Data File Name	: C:\HPCHEM\1\DATA\09NOV98\040F0101.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 40
Instrument	: GC 1	Injection Number	: 1
Sample Name	: S11025-01	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	RT061698.MTH
Acquired on	: 10 Nov 98 01:22 PM	Analysis Method	: RT061698.MTH
Report Created on:	11 Nov 98 08:22 AM		



File Name	: C:\HPCHEM\1\DATA\16SEPT97\011F0101.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 11
Instrument	: INSTRUMEN	Injection Number	: 1
Sample Name	: DSL GC3-103-15	Sequence Line	: 1
Run Time Bar Code:		Instrument Method:	SDF0820.MTH
Acquired on	: 16 Sep 97 08:50 PM	Analysis Method	: SDF0820.MTH
Report Created on:	17 Sep 97 11:19 AM		



File Name	: C:\HPCHEM\1\DATA\16SEPT97\019F0201.D	Page Number	: 1
Operator	: AEN NM GC #1 FID DI	Vial Number	: 19
Instrument	: INSTRUMEN	Injection Number	: 1
Sample Name	: GAS GC3-103-16	Sequence Line	: 2
Run Time Bar Code		Instrument Method	: SGF0820.MTH
Acquired on	: 17 Sep 97 02:37 AM	Analysis Method	: SGF0820.MTH
Report Created on	: 17 Sep 97 10:45 AM		



Data File Name : C:\HPCHEM\1\DATA\111PR96\004F0101.D  
 Operator : DL  
 Instrument : GC#1 5890  
 Sample Name : RET. TIME STAND  
 Run Time Bar Code :  
 11 Apr 96 10:17 AM

Page Number : 1  
 Vial Number : 4  
 Injection Number : 1  
 Sequence Line : 1  
 Instrument Method: 5093011.MTH  
 5093011.MTH



LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					RANGE	YES NO
980793						
Benzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Toluene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	<2	<2	0.00	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					RANGE	YES NO
2nd Analysis 980793						
Benzene	50	<1	51.0	102.1	75 - 125 %	X
Toluene	50	<1	50.4	101	75 - 125 %	X
Ethylbenzene	50	<1	50.5	101	75 - 125 %	X
m & p - Xylene	100	<2	103.0	103.0	75 - 125 %	X
o - Xylene	50	<1	51.2	102	75 - 125 %	X

Narrative: Acceptable

AUTO BLANK	SOURCE	PPB (2 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot M91481	PPB (none analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (none analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLANK	SOURCE	PPB (1 analyzed with this set - 11/06/98)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: JAL

Approved By: John Sanchez

Date: 11/11/98



# EL PASO FIELD SERVICES

## QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 980771 to 980773, 980789 to 980791, 980794

QA/QC for 11/9/98 Sample Set

### LABORATORY CALIBRATION CHECKS, LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	50.9	101.7	75 - 125 %	X
Toluene	Standard	50.0	50.8	101.7	75 - 125 %	X
Ethyl benzene	Standard	50.0	51.0	102.1	75 - 125 %	X
m & p - Xylene	Standard	100	104.4	104.4	75 - 125 %	X
o - Xylene	Standard	50.0	51.5	103.0	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	25.0	99.9	39 - 150	X
Toluene	Standard	25.0	25.3	101.3	46 - 148	X
Ethyl benzene	Standard	25.0	25.6	102.3	32 - 160	X
m & p - Xylene	Standard	50.0	51.9	103.8	Not Given	X
o - Xylene	Standard	25.0	25.9	103.7	Not Given	X
CCV1 LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	50.7	101.5	75 - 125 %	X
Toluene	Standard	50.0	50.6	101.2	75 - 125 %	X
Ethyl benzene	Standard	50.0	50.5	101.0	75 - 125 %	X
m & p - Xylene	Standard	100	102.9	102.9	75 - 125 %	X
o - Xylene	Standard	50.0	51.4	102.8	75 - 125 %	X
CCV2 LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	50.5	101.1	75 - 125 %	X
Toluene	Standard	50.0	50.2	100.4	75 - 125 %	X
Ethyl benzene	Standard	50.0	50.0	100.1	75 - 125 %	X
m & p - Xylene	Standard	100	101.5	101.5	75 - 125 %	X
o - Xylene	Standard	50.0	51.0	102.0	75 - 125 %	X

### LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT	DUPLICATE RESULT	RPD	ACCEPTABLE	
					YES	NO
980771		ug/L	ug/L		RANGE	
Benzene	Extraction Dup	<1	<1	0.00	+/- 35 %	X
Toluene	Extraction Dup	<1	<1	0.00	+/- 35 %	X
Ethyl benzene	Extraction Dup	<1	<1	0.00	+/- 35 %	X
m & p - Xylene	Extraction Dup	<2	<2	0.0	+/- 35 %	X
o - Xylene	Extraction Dup	<1	<1	0.00	+/- 35 %	X

Narrative: Acceptable

110998QCSoil

LABORATORY DUPLICATES:

SAMPLE NUMBER	TYPE	SAMPLE RESULT PPM	DUPLICATE RESULT PPM	RPD	ACCEPTABLE	
					YES	NO
980771		ug/L	ug/L		RANGE	
Benzene	Matrix Duplicate	<1	<1	0.00	+/- 35 %	X
Toluene	Matrix Duplicate	<1	<1	0.00	+/- 35 %	X
Ethyl benzene	Matrix Duplicate	<1	<1	0.00	+/- 35 %	X
m & p - Xylene	Matrix Duplicate	<2	<2	0.00	+/- 35 %	X
o - Xylene	Matrix Duplicate	<1	<1	0.00	+/- 35 %	X

Narrative: Acceptable

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
980771					RANGE	
Benzene	50.0	<1	51.0	102.0	75 - 125 %	X
Toluene	50.0	<1	50.7	101.4	75 - 125 %	X
Ethyl benzene	50.0	<1	50.3	100.7	75 - 125 %	X
m & p - Xylene	100.0	<2	102.3	102.3	75 - 125 %	X
o - Xylene	50.0	<1	51.5	103.0	75 - 125 %	X

Narrative: Acceptable

ADDITIONAL ANALYTICAL BLANKS:

SAMPLE ID	SOURCE	PPB	STATUS
AUTO BLANK/BOILED WATER		(1 analyzed with this set)	
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethyl benzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable

SAMPLE ID	SOURCE	PPB	STATUS
SOIL VIAL BLANK		(None analyzed with this set)	
Benzene	vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	vial + Boiled Water	<1.0	ACCEPTABLE
Ethyl benzene	vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable

SAMPLE ID	SOURCE	PPB	STATUS
EXTRACTION BLANK	0913: ext blk	(1 analyzed with this set)	
Benzene	Methanol	<1.0	ACCEPTABLE
Toluene	Methanol	<1.0	ACCEPTABLE
Ethyl benzene	Methanol	<1.0	ACCEPTABLE
Total Xylenes	Methanol	<3.0	ACCEPTABLE

Narrative: Acceptable

Carryover contamination checks	SOURCE	NARRATIVE	STATUS
		(one analyzed with this set)	
Benzene	vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	vial + Boiled Water	<1.0	ACCEPTABLE
Ethyl benzene	vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable

SAMPLE ID	SOURCE	PPB	STATUS
METHANOL CHECK	Lot # H18318	(None analyzed with this set)	
Benzene	MeOH/Boiled Water	<2.5	ACCEPTABLE
Toluene	MeOH/Boiled Water	<2.5	ACCEPTABLE
Ethyl benzene	MeOH/Boiled Water	<2.5	ACCEPTABLE
Total Xylenes	MeOH/Boiled Water	<7.5	ACCEPTABLE

Narrative: Acceptable

Report By: JAL

Accepted By: John Jambor

Date: 11/11/98