GW - 140

MONITORING REPORTS

DATE:

1998

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GW-140

GROUND WATER MONITORING REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

PREPARED FOR:

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INTRODUCTION

This binder presents results of ground water monitoring events conducted for Texas - New Mexico Pipe Line Company (TNMPL) SPS-11 site in Lea County, New Mexico from the fourth quarter of 1996 to present. Ground water monitoring is conducted to assess the concentrations and extent of petroleum hydrocarbon constituents in ground water. The monitoring events consist of some or all of the following:

- measuring static water levels in the monitoring wells
- checking for the presence of phase-separate hydrocarbons (PSH)
- purging and sampling each well exhibiting sufficient recharge

PURPOSE AND SCOPE

This binder presents results of ground water events conducted for TNMPL SPS-11 site. The scope of this binder includes all sampling events conducted at this site since the fourth quarter of 1996, and historical ground water levels and PSH thicknesses, if present. Site details are presented on FIG. 1.

FIELD AND REPORTING PROTOCOLS

GROUND WATER MONITORING AND SAMPLING

During sampling events, monitoring wells that do not contain PSH are purged of approximately three well volumes of water. Purging equipment is cleaned prior to each use with Liqui-Nox detergent and rinsed with water. After purging the wells, ground water sample containers are filled in the order of decreasing volatility (i.e., benzene, toluene, ethylbenzene, and xylenes (BTEX) containers are filled first and other containers which may be required are filled second).

Ground water samples collected for BTEX analyses are placed in sterile, 40 ml glass VOA vials equipped with Teflon-lined caps. Ground water samples collected for polycyclic aromatic hydrocarbon (PAH) analyses are placed in sterile one liter glass containers equipped with Teflon-lined caps. Ground water samples collected for ICP heavy metals analysis are placed in 500 ml containers preserved with nitric acid equipped with Teflon-lined caps. The containers are typically provided by the analytical laboratory. The vials are filled to a positive meniscus, sealed, and visually checked for the presence of air bubbles.

The filled containers are labeled and placed on ice in an insulated cooler. The cooler is sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation is maintained throughout the sampling process.

Purged water collected during each event is stored in drums on-site pending disposal.

LABORATORY RESULTS

Laboratory results for ground water samples obtained during each event are delivered to a qualified environmental analytical laboratory for determination of BTEX concentrations by EPA Method SW846-8020. The ground water samples obtained during the third quarter of 1997 were also submitted for determination of PAH concentrations by EPA Method 8270. The ground water samples obtained during the fourth quarter of 1997 were also submitted for determination of ICP heavy metals concentrations by EPA Method 6010. All monitoring wells will be sampled for PAH and metals once per year.

Laboratory BTEX results for each event are summarized in TABLE I and graphically presented on FIG. 1. Benzene and BTEX isopleth maps are also presented as FIGs. 2 and 3. Copies of certified laboratory reports and chain-of-custody documentation are also attached. TABLE I is presented behind the TABLES tab. The figures and the certified laboratory reports and chain-of-custody documentation for each event are presented behind the corresponding dated tabs.

Laboratory PAH and metals results for each event will be summarized in tables presented in the annual report due to New Mexico Oil Conservation Division (OCD) by February 15 of each year.

GROUND WATER GRADIENT

Ground water elevation contours generated from the water level measurements collected from each event are presented on FIG. 1. Historical ground water measurements are summarized in TABLE II. TABLE II is presented behind the TABLES tab and FIG. 1 is presented behind the corresponding dated tab.

PSH MONITORING

PSH thickness is gauged regularly; however, PSH has not been observed at the site to date.

GENERAL NOTES

ND - Indicates constituent was not detected above the method detection limit.
--- - Indicates PSH was not detected and a corrected ground water elevation was not required.

Method detection limits:

Water:	BTEX	- 0.001 to 0.008 mg/l
	PAH	- 0.002 mg/l
	Metals	- 0.022 to 0.56 mg/l

Laboratory test methods:	BTEX	- EPA Method SW846-8020
	PAH	- EPA Method 8270
	Metals	- EPA Method 6010

TABLE I

SUMMARY OF LABORATORY RESULTS - GROUND WATER
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-1	04/10/92	4.92	2.06	1.20	1.13	9.31
MW-1	10/15/96	6.445	1.132	1.184	0.913	9.674
MW-1	05/01/97	7.788	0.778	1.282	0.810	10.658
MW-1	08/28/97	3.76	0.25	0.63	0.45	5.09
MW-1	11/17/97	11.8	2.5	2.2	1.4	17.9
MW-1	01/21/98	7.54	1.11	1.76	1.59	12.00
MW-1	04/15/98	4.36	0.07	1.06	0.32	5.810
MW-2	04/10/92	0.005	0.014	ND	ND	0.019
MW-2	10/15/96	ND	ND	ND	ND	ND
MW-2	05/01/97	ND	ND	ND	ND	ND
MW-2	08/28/97	ND	ND	ND	ND	ND
MW-2	11/17/97	ND	ND	ND	ND	ND
MW-2	01/21/98	ND	ND	ND	ND	ND
MW-2	04/15/98	ND	ND	ND	ND	ND
MW-3	04/10/92	ND	0.010	ND	ND	0.010
MW-3	10/15/96	0.003	ND	ND	ND	0.003
MW-3	05/01/97	ND	ND	ND	0.001	0.001
MW-3	08/28/97	ND	ND	ND	ND	ND
MW-3	11/17/97	ND	ND	ND	ND	ND
MW-3	01/21/98	ND	ND	ND	ND	ND
MW-3	04/15/98	ND	ND	ND	ND	ND
MW-4	04/10/92	ND	0.008	ND	ND	0.008
MW-4	10/15/96	0.005	ND	ND	ND	0.005
MW-4	05/01/97	ND	ND	ND	ND	ND
MW-4	08/28/97	0.009	ND	ND	ND	0.009
MW-4	11/17/97	0.002	ND	ND	ND	0.002
MW-4	01/21/98	ND	ND	ND	ND	ND
MW-4	04/15/98	0.003	ND	ND	ND	0.003

TABLE I
(continued)

SUMMARY OF LABORATORY RESULTS - GROUND WATER
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-6	04/10/92	0.130	0.011	ND	ND	0.141
MW-6	10/15/96	0.210	0.002	0.021	0.006	0.239
MW-6	05/01/97	ND	0.001	0.002	0.004	0.007
MW-6	08/28/97	0.082	ND	0.002	0.003	1.038
MW-6	11/17/97	0.141	ND	0.006	0.005	0.152
MW-6	01/22/98	ND	ND	ND	ND	ND
MW-6	04/14/98	0.026	ND	ND	ND	0.026
MW-7	04/10/92	1.590	0.590	0.470	0.310	2.960
MW-7	10/15/96	0.211	0.016	0.095	0.066	0.388
MW-7	05/01/97	0.368	0.034	0.206	0.124	0.732
MW-7	08/28/97	0.502	0.064	0.302	0.170	1.038
MW-7	11/17/97	0.288	0.014	ND	0.159	0.461
MW-7	01/21/98	0.154	0.013	0.045	0.014	0.226
MW-7	04/15/98	0.053	0.013	0.006	0.007	0.079
MW-9	04/10/92	5.270	4.650	1.380	1.660	12.960
MW-9	10/15/96	4.224	0.056	1.252	0.865	6.397
MW-9	05/01/97	6.180	0.019	2.056	1.383	9.638
MW-9	08/28/97	2.930	ND	0.930	0.360	4.220
MW-9	11/17/97	2.5	0.2	0.7	0.5	3.9
MW-9	01/22/98	1.692	0.015	0.836	0.523	3.066
MW-9	04/14/98	0.912	ND	0.108	ND	1.020
MW-10	05/01/97	0.184	0.292	0.124	0.180	0.776
MW-10	08/28/97	0.123	0.146	0.162	0.158	0.589
MW-10	11/17/97	0.143	0.203	0.165	0.153	0.664
MW-11	05/01/97	1.177	ND	0.011	0.027	1.215
MW-11	08/28/97	2.74	ND	0.11	0.04	2.89
MW-11	11/17/97	3.32	ND	ND	ND	3.32
MW-11	01/21/98	2.116	ND	0.004	ND	2.120
MW-11	04/14/98	1.112	ND	ND	ND	1.112

TABLE I
(continued)

SUMMARY OF LABORATORY RESULTS - GROUND WATER
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-12	05/01/97	ND	0.003	0.001	0.027	0.031
MW-12	08/28/97	0.099	0.032	0.030	0.043	0.204
MW-12	11/17/97	0.237	0.088	0.047	0.106	0.478
MW-12	01/22/98	0.173	ND	0.035	0.021	0.229
MW-12	04/15/98	0.002	0.001	ND	0.002	0.005
MW-13	05/01/97	ND	ND	ND	ND	ND
MW-13	08/28/97	ND	ND	ND	ND	ND
MW-13	11/17/97	ND	ND	ND	ND	ND
MW-13	01/22/98	ND	ND	ND	ND	ND
MW-13	04/15/98	ND	ND	ND	ND	ND
MW-14	05/01/97	9.639	2.414	2.626	2.769	17.448
MW-14	08/28/97	8.62	2.04	1.91	2.04	14.61
MW-14	11/17/97	7.76	2.36	ND	1.67	11.79
MW-14	01/22/98	11.2	1.50	2.40	1.60	16.700
MW-14	04/14/98	5.46	ND	1.22	0.27	6.950
MW-15	05/01/97	0.004	0.002	0.002	0.003	0.011
MW-15	08/28/97	0.441	ND	ND	ND	0.441
MW-15	11/17/97	0.063	ND	ND	ND	0.063
MW-15	01/22/98	0.237	ND	ND	ND	0.237
MW-15	04/14/98	0.180	ND	ND	ND	0.180
MW-16	05/01/97	0.101	0.090	0.015	0.012	0.218
MW-16	08/28/97	0.112	0.119	0.060	0.036	0.327
MW-16	11/17/97	0.053	0.061	0.021	0.035	0.170
MW-16	01/22/98	ND	ND	ND	ND	ND
MW-16	04/14/98	0.015	0.024	0.005	0.006	0.050
MW-17	01/21/98	0.158	0.156	0.026	0.040	0.380
MW-17	04/14/98	0.247	0.278	0.089	0.108	0.722
MW-18	01/21/98	ND	ND	ND	ND	ND
MW-18	04/14/98	ND	ND	ND	ND	ND

TABLE I
(continued)

SUMMARY OF LABORATORY RESULTS - GROUND WATER
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-19	01/21/98	ND	ND	ND	ND	ND
MW-19	04/14/98	ND	ND	ND	ND	ND
MW-20	01/22/98	ND	ND	ND	ND	ND
MW-20	04/14/98	ND	ND	ND	ND	ND
MW-21	01/22/98	0.932	ND	ND	ND	0.932
MW-21	04/14/98	0.844	ND	ND	ND	0.844
MW-22	01/22/98	ND	ND	ND	ND	ND
MW-22	04/15/98	ND	ND	ND	ND	ND
MW-23	01/22/98	ND	ND	ND	ND	ND
MW-23	04/14/98	0.001	0.004	0.002	0.006	0.013
MW-24	01/22/98	1.40	0.23	0.15	0.11	1.890
MW-24	04/14/98	1.192	0.074	0.152	0.049	1.467
MW-25	01/22/98	ND	ND	ND	ND	ND
MW-25	04/14/98	ND	ND	ND	ND	ND
PW-1	10/15/96	0.007	ND	ND	ND	0.007
PW-2	05/07/92	0.048	0.054	0.022	0.024	0.148
PW-2	10/15/96	ND	0.001	0.001	0.013	0.015

TABLE II

MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.61	55.37	3792.24	---	---
07/13/92	3847.61	55.93	3791.68	---	---
10/15/96	3859.20	54.96	3804.24	---	---
05/01/97	3859.20	55.20	3804.00	---	---
08/27/97	3859.20	55.28	3803.92	---	---
10/16/97	3859.20	56.55	3802.65	---	---
10/17/97	3859.20	56.64	3802.56	---	---
10/18/97	3859.20	56.72	3802.48	---	---
10/19/97	3859.20	56.79	3802.41	---	---
10/20/97	3859.20	56.87	3802.33	---	---
10/22/97	3859.20	57.00	3802.20	---	---
10/29/97	3859.20	57.11	3802.09	---	---
11/05/97	3859.20	56.77	3802.43	---	---
11/12/97	3859.20	57.00	3802.20	---	---
11/17/97	3859.20	57.33	3801.87	---	---
11/19/97	3859.20	57.34	3801.86	---	---
12/08/97	3859.20	57.59	3801.61	---	---
01/07/98	3859.20	56.81	3802.39	---	---
01/21/98	3859.08	57.69	3801.39	---	---
02/12/98	3859.08	57.83	3801.25	---	---
03/23/98	3859.08	56.92	3802.16	---	---
04/13/98	3859.08	57.02	3802.06	---	---
04/20/98	3859.08	56.41	3802.67	---	---
04/27/98	3859.08	56.29	3802.79	---	---
05/04/98	3859.08	56.21	3802.87	---	---

TABLE II
(continued)

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3848.68	56.06	3792.62	---	---
07/13/92	3848.68	56.43	3792.25	---	---
10/15/96	3860.90	55.65	3805.25	---	---
05/01/97	3860.90	55.85	3805.05	---	---
08/27/97	3860.90	56.22	3804.68	---	---
10/16/97	3860.90	56.80	3804.10	---	---
10/17/97	3860.90	56.86	3804.04	---	---
10/18/97	3860.90	56.93	3803.97	---	---
10/19/97	3860.90	56.98	3803.92	---	---
10/20/97	3860.90	57.04	3803.86	---	---
10/22/97	3860.90	57.11	3803.79	---	---
10/29/97	3860.90	57.21	3803.69	---	---
11/05/97	3860.90	57.01	3803.89	---	---
11/12/97	3860.90	57.16	3803.74	---	---
11/17/97	3860.90	57.64	3803.26	---	---
11/19/97	3860.90	57.66	3803.24	---	---
12/08/97	3860.90	57.69	3803.21	---	---
01/07/98	3860.90	57.36	3803.54	---	---
01/21/98	3860.76	57.84	3802.92	---	---
02/12/98	3860.76	57.99	3802.77	---	---
03/23/98	3860.76	57.21	3803.55	---	---
04/13/98	3860.76	57.29	3803.47	---	---
04/20/98	3860.76	57.03	3803.73	---	---
04/27/98	3860.76	57.00	3803.76	---	---
05/04/98	3860.76	56.94	3803.82	---	---

TABLE II
(continued)

MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.23	56.48	3792.75	---	---
07/13/92	3849.23	56.86	3792.37	---	---
10/15/96	3861.30	56.07	3805.23	---	---
05/01/97	3861.30	56.28	3805.02	---	---
08/27/97	3861.30	56.57	3804.73	---	---
10/16/97	3861.30	57.30	3804.00	---	---
10/17/97	3861.30	57.36	3803.94	---	---
10/18/97	3861.30	57.42	3803.88	---	---
10/19/97	3861.30	57.48	3803.82	---	---
10/20/97	3861.30	57.53	3803.77	---	---
10/22/97	3861.30	57.63	3803.67	---	---
10/29/97	3861.30	57.72	3803.58	---	---
11/05/97	3861.30	57.48	3803.82	---	---
11/12/97	3861.30	57.64	3803.66	---	---
11/17/97	3861.30	58.07	3803.23	---	---
11/19/97	3861.30	58.07	3803.23	---	---
12/08/97	3861.30	58.25	3803.05	---	---
01/07/98	3861.30	57.79	3803.51	---	---
01/21/98	3861.15	58.34	3802.81	---	---
02/12/98	3861.15	58.47	3802.68	---	---
03/23/98	3861.15	57.66	3803.49	---	---
04/13/98	3861.15	57.73	3803.42	---	---
04/20/98	3861.15	57.41	3803.74	---	---
04/27/98	3861.15	57.39	3803.76	---	---
05/04/98	3861.15	57.33	3803.82	---	---

TABLE II
(continued)

MONITORING WELL MW-4
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.58	55.36	3792.22	---	---
07/13/92	3847.58	55.83	3791.75	---	---
10/15/96	3859.40	55.14	3804.26	---	---
05/01/97	3859.40	55.27	3804.13	---	---
08/27/97	3859.40	55.44	3803.96	---	---
10/16/97	3859.40	57.44	3801.96	---	---
10/17/97	3859.40	57.54	3801.86	---	---
10/18/97	3859.40	57.59	3801.81	---	---
10/19/97	3859.40	57.69	3801.71	---	---
10/20/97	3859.40	57.75	3801.65	---	---
10/22/97	3859.40	57.86	3801.54	---	---
10/29/97	3859.40	57.93	3801.47	---	---
11/05/97	3859.40	57.28	3802.12	---	---
11/12/97	3859.40	57.72	3801.68	---	---
11/17/97	3859.40	58.05	3801.35	---	---
11/19/97	3859.40	58.06	3801.34	---	---
12/08/97	3859.40	58.22	3801.18	---	---
01/07/98	3859.40	57.15	3802.25	---	---
01/21/98	3859.62	56.38	3803.24	---	---
02/12/98	3859.62	58.50	3801.12	---	---
03/23/98	3859.62	57.40	3802.22	---	---
04/13/98	3859.62	57.51	3802.11	---	---
04/20/98	3859.62	56.55	3803.07	---	---
04/27/98	3859.62	56.46	3803.16	---	---
05/04/98	3859.62	56.39	3803.23	---	---

TABLE II
(continued)

MONITORING WELL MW-5
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/13/92	Unknown	26.48	NA	---	---
10/15/96	Unknown	DRY	NA	---	---

TABLE II
(continued)

MONITORING WELL MW-6
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3850.28	55.78	3794.50	---	---
07/13/92	3850.28	56.23	3794.05	---	---
10/15/96	3862.70	55.54	3807.16	---	---
05/01/97	3862.70	55.73	3806.97	---	---
08/27/97	3862.70	55.84	3806.86	---	---
10/16/97	3862.70	56.36	3806.34	---	---
10/17/97	3862.70	56.43	3806.27	---	---
10/18/97	3862.70	56.48	3806.22	---	---
10/19/97	3862.70	56.56	3806.14	---	---
10/20/97	3862.70	56.61	3806.09	---	---
10/22/97	3862.70	56.69	3806.01	---	---
10/29/97	3862.70	56.84	3805.86	---	---
11/05/97	3862.70	56.80	3805.90	---	---
11/12/97	3862.70	56.87	3805.83	---	---
11/17/97	3862.70	57.02	3805.68	---	---
11/19/97	3862.70	57.05	3805.65	---	---
12/08/97	3862.70	57.25	3805.45	---	---
01/07/98	3862.70	57.23	3805.47	---	---
01/22/98	3862.47	57.55	3804.92	---	---
02/12/98	3862.47	57.71	3804.76	---	---
03/23/98	3862.47	57.09	3805.38	---	---
04/13/98	3862.47	57.31	3805.16	---	---
04/20/98	3862.47	57.15	3805.32	---	---
04/27/98	3862.47	57.56	3804.91	---	---
05/04/98	3862.47	57.37	3805.10	---	---

TABLE II
(continued)

MONITORING WELL MW-7
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.13	55.65	3791.48	---	---
07/13/92	3847.13	56.15	3790.98	---	---
10/15/96	3859.40	55.25	3804.15	---	---
05/01/97	3859.40	55.45	3803.95	---	---
08/27/97	3859.40	55.55	3803.85	---	---
10/16/97	3859.40	56.69	3802.71	---	---
10/17/97	3859.40	56.78	3802.62	---	---
10/18/97	3859.40	56.84	3802.56	---	---
10/19/97	3859.40	56.91	3802.49	---	---
10/20/97	3859.40	57.00	3802.40	---	---
10/22/97	3859.40	57.10	3802.30	---	---
10/29/97	3859.40	57.21	3802.19	---	---
11/05/97	3859.40	56.86	3802.54	---	---
11/12/97	3859.40	57.06	3802.34	---	---
11/17/97	3859.40	57.40	3802.00	---	---
11/19/97	3859.40	57.42	3801.98	---	---
12/08/97	3859.40	57.61	3801.79	---	---
01/07/98	3859.40	57.12	3802.28	---	---
01/21/98	3859.31	57.79	3801.52	---	---
02/12/98	3859.31	57.95	3801.36	---	---
03/23/98	3859.31	57.00	3802.31	---	---
04/13/98	3859.31	57.07	3802.24	---	---
04/20/98	3859.31	56.69	3802.62	---	---
04/27/98	3859.31	56.54	3802.77	---	---
05/04/98	3859.31	56.48	3802.83	---	---

TABLE II
(continued)

MONITORING WELL MW-9
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3856.60	54.69	3801.91	---	---
07/13/92	3856.60	55.18	3801.42	---	---
10/15/96	3862.10	54.52	3807.58	---	---
05/01/97	3862.10	54.74	3807.36	---	---
08/27/97	3862.10	54.78	3807.32	---	---
10/16/97	3862.10	56.70	3805.40	---	---
10/17/97	3862.10	56.84	3805.26	---	---
10/18/97	3862.10	56.96	3805.14	---	---
10/19/97	3862.10	57.08	3805.02	---	---
10/20/97	3862.10	57.13	3804.97	---	---
10/22/97	3862.10	57.30	3804.80	---	---
10/29/97	3862.10	57.40	3804.70	---	---
11/05/97	3862.10	56.62	3805.48	---	---
11/12/97	3862.10	57.18	3804.92	---	---
11/17/97	3862.10	57.54	3804.56	---	---
11/19/97	3862.10	57.58	3804.52	---	---
12/08/97	3862.10	57.70	3804.40	---	---
01/07/98	3862.10	56.60	3805.50	---	---
01/22/98	3861.88	57.88	3804.00	---	---
02/12/98	3861.88	58.06	3803.82	---	---
03/23/98	3861.88	56.65	3805.23	---	---
04/13/98	3861.88	56.70	3805.18	---	---
04/20/98	3861.88	56.54	3805.34	---	---
04/27/98	3861.88	57.68	3804.20	---	---
05/04/98	3861.88	56.68	3805.20	---	---

TABLE II
(continued)

MONITORING WELL MW-10
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.60	56.96	3803.64	---	---
08/27/97	3860.60	57.04	3803.56	---	---
10/16/97	3860.60	57.61	3802.99	---	---
10/17/97	3860.60	57.67	3802.93	---	---
10/18/97	3860.60	57.73	3802.87	---	---
10/19/97	3860.60	57.79	3802.81	---	---
10/20/97	3860.60	57.86	3802.74	---	---
10/22/97	3860.60	57.94	3802.66	---	---
10/29/97	3860.60	58.04	3802.56	---	---
11/05/97	3860.60	57.97	3802.63	---	---
11/12/97	3860.60	58.04	3802.56	---	---
11/17/97	3860.60	58.17	3802.43	---	---
11/19/97	3860.60	58.42	3802.18	---	---
12/08/97	3860.60	58.41	3802.19	---	---
01/07/98	3860.60	58.43	3802.17	---	---
01/21/98	3860.58	DRY	---	---	---
02/12/98	3860.58	DRY	---	---	---
03/23/98	3860.58	58.20	3802.38	---	---
04/13/98	3860.58	DRY	---	---	---
04/20/98	3860.58	DRY	---	---	---
04/27/98	3860.58	DRY	---	---	---
05/04/98	3860.58	DRY	---	---	---

TABLE II
(continued)

MONITORING WELL MW-11
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.10	56.43	3803.67	---	---
08/27/97	3860.10	56.49	3803.61	---	---
10/16/97	3860.10	57.24	3802.86	---	---
10/17/97	3860.10	57.38	3802.72	---	---
10/18/97	3860.10	57.36	3802.74	---	---
10/19/97	3860.10	57.42	3802.68	---	---
10/20/97	3860.10	57.46	3802.64	---	---
10/22/97	3860.10	57.56	3802.54	---	---
11/05/97	3860.10	57.49	3802.61	---	---
11/12/97	3860.10	57.62	3802.48	---	---
11/17/97	3860.10	57.74	3802.36	---	---
11/19/97	3860.10	57.91	3802.19	---	---
12/08/97	3860.10	57.95	3802.15	---	---
01/07/98	3860.10	57.86	3802.24	---	---
01/21/98	3860.00	58.25	3801.75	---	---
02/12/98	3860.00	58.39	3801.61	---	---
03/23/98	3860.00	57.67	3802.33	---	---
04/13/98	3860.00	57.81	3802.19	---	---
04/20/98	3860.00	57.52	3802.48	---	---
04/27/98	3860.00	57.48	3802.52	---	---
05/04/98	3860.00	57.41	3802.59	---	---

TABLE II
(continued)

MONITORING WELL MW-12
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.20	56.91	3806.29	---	---
08/27/97	3863.20	56.98	3806.22	---	---
10/16/97	3863.20	57.42	3805.78	---	---
10/17/97	3863.20	57.48	3805.72	---	---
10/18/97	3863.20	57.54	3805.66	---	---
10/19/97	3863.20	57.59	3805.61	---	---
10/20/97	3863.20	57.60	3805.60	---	---
10/22/97	3863.20	57.65	3805.55	---	---
10/29/97	3863.20	57.74	3805.46	---	---
11/05/97	3863.20	57.75	3805.45	---	---
11/12/97	3863.20	57.82	3805.38	---	---
11/17/97	3863.20	57.89	3805.31	---	---
11/19/97	3863.20	58.24	3804.96	---	---
12/08/97	3863.20	58.14	3805.06	---	---
01/07/98	3863.20	58.20	3805.00	---	---
01/21/98	3863.10	58.44	3804.66	---	---
02/12/98	3863.10	58.56	3804.54	---	---
03/23/98	3863.10	58.04	3805.06	---	---
04/13/98	3863.10	58.23	3804.87	---	---
04/20/98	3863.10	58.12	3804.98	---	---
04/27/98	3863.10	58.33	3804.77	---	---
05/04/98	3863.10	58.28	3804.82	---	---

TABLE II
(continued)

MONITORING WELL MW-13
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3862.60	55.23	3807.37	---	---
08/27/97	3862.60	55.32	3807.28	---	---
10/16/97	3862.60	55.75	3806.85	---	---
10/17/97	3862.60	55.82	3806.78	---	---
10/18/97	3862.60	55.88	3806.72	---	---
10/19/97	3862.60	55.96	3806.64	---	---
10/20/97	3862.60	55.96	3806.64	---	---
10/22/97	3862.60	56.03	3806.57	---	---
10/29/97	3862.60	56.10	3806.50	---	---
11/05/97	3862.60	56.11	3806.49	---	---
11/12/97	3862.60	56.17	3806.43	---	---
11/17/97	3862.60	56.22	3806.38	---	---
11/19/97	3862.60	56.38	3806.22	---	---
12/08/97	3862.60	56.55	3806.05	---	---
01/07/98	3862.60	56.56	3806.04	---	---
01/22/98	3862.44	56.82	3805.62	---	---
02/12/98	3862.44	56.93	3805.51	---	---
03/23/98	3862.44	56.35	3806.09	---	---
04/13/98	3862.44	56.61	3805.83	---	---
04/20/98	3862.44	56.47	3805.97	---	---
04/27/98	3862.44	52.57	3809.87	---	---
05/04/98	3862.44	56.77	3805.67	---	---

TABLE II
(continued)

MONITORING WELL MW-14
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.10	56.40	3806.70	---	---
08/27/97	3863.10	56.50	3806.60	---	---
10/16/97	3863.10	57.34	3805.76	---	---
10/17/97	3863.10	57.39	3805.71	---	---
10/18/97	3863.10	57.48	3805.62	---	---
10/19/97	3863.10	57.56	3805.54	---	---
10/20/97	3863.10	57.56	3805.54	---	---
10/22/97	3863.10	57.63	3805.47	---	---
10/29/97	3863.10	57.71	3805.39	---	---
01/05/97	3863.10	57.42	3805.68	---	---
11/12/97	3863.10	57.73	3805.37	---	---
11/17/97	3863.10	57.83	3805.27	---	---
12/08/97	3863.10	58.12	3804.98	---	---
01/07/98	3863.10	57.73	3805.37	---	---
01/22/98	3862.95	58.32	3804.63	---	---
02/12/98	3862.95	58.40	3804.55	---	---
03/23/98	3862.95	57.71	3805.24	---	---
04/13/98	3862.95	57.83	3805.12	---	---
04/20/98	3862.95	57.72	3805.23	---	---
04/27/98	3862.95	58.24	3804.71	---	---
05/04/98	3862.95	56.80	3806.15	---	---

TABLE II
(continued)

MONITORING WELL MW-15
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3861.90	55.57	3806.33	---	---
08/27/97	3861.90	55.64	3806.26	---	---
10/16/97	3861.90	56.04	3805.86	---	---
10/17/97	3861.90	56.08	3805.82	---	---
10/18/97	3861.90	56.13	3805.77	---	---
10/19/97	3861.90	56.18	3805.72	---	---
10/20/97	3861.90	56.15	3805.75	---	---
10/22/97	3861.90	56.20	3805.70	---	---
10/29/97	3861.90	56.26	3805.64	---	---
11/05/97	3861.90	56.23	3805.67	---	---
11/12/97	3861.90	56.32	3805.58	---	---
11/17/97	3861.90	56.36	3805.54	---	---
11/19/97	3861.90	56.66	3805.24	---	---
12/05/97	3861.90	56.74	3805.16	---	---
01/07/98	3861.90	56.69	3805.21	---	---
01/22/98	3861.70	57.05	3804.65	---	---
02/12/98	3861.70	56.94	3804.76	---	---
03/23/98	3861.70	56.57	3805.13	---	---
04/13/98	3861.70	56.72	3804.98	---	---
04/20/98	3861.70	56.62	3805.08	---	---
04/27/98	3861.70	56.86	3804.84	---	---
05/04/98	3861.70	56.83	3804.87	---	---

TABLE II
(continued)

MONITORING WELL MW-16
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.40	55.30	3808.10	---	---
08/27/97	3863.40	55.33	3808.07	---	---
10/16/97	3863.40	55.91	3807.49	---	---
10/17/97	3863.40	55.98	3807.42	---	---
10/18/97	3863.40	56.06	3807.34	---	---
10/19/97	3863.40	56.12	3807.28	---	---
10/20/97	3863.40	56.14	3807.26	---	---
10/22/97	3863.40	56.21	3807.19	---	---
10/29/97	3863.40	56.29	3807.11	---	---
11/05/97	3863.40	56.18	3807.22	---	---
11/12/97	3863.40	56.30	3807.10	---	---
11/17/97	3863.40	56.39	3807.01	---	---
11/19/97	3863.40	56.65	3806.75	---	---
12/08/97	3863.40	56.84	3806.56	---	---
01/07/98	3863.40	56.61	3806.79	---	---
01/22/98	3863.15	56.91	3806.24	---	---
02/12/98	3863.15	57.21	3805.94	---	---
03/23/98	3863.15	56.36	3806.79	---	---
04/13/98	3863.15	56.48	3806.67	---	---
04/20/98	3863.15	56.33	3806.82	---	---
04/27/98	3863.15	56.86	3806.29	---	---
05/04/98	3863.15	56.74	3806.41	---	---

TABLE II
(continued)

MONITORING WELL MW-17
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/21/98	3859.17	58.43	3800.74	---	---
02/12/98	3859.17	58.51	3800.66	---	---
03/23/98	3859.17	58.56	3800.61	---	---
04/13/98	3859.17	58.61	3800.56	---	---
04/20/98	3859.17	58.60	3800.57	---	---
04/27/98	3859.17	58.62	3800.55	---	---
05/04/98	3859.17	58.62	3800.55	---	---

TABLE II
(continued)

MONITORING WELL MW-18
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/21/98	3859.98	58.19	3801.79	---	---
02/12/98	3859.98	58.31	3801.67	---	---
03/23/98	3859.98	58.28	3801.70	---	---
04/13/98	3859.98	58.40	3801.58	---	---
04/20/98	3859.98	58.40	3801.58	---	---
04/27/98	3859.98	58.38	3801.60	---	---
05/04/98	3859.98	58.34	3801.64	---	---

TABLE II
(continued)

MONITORING WELL MW-19
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.30	59.66	3802.64	---	---
02/12/98	3862.30	59.79	3802.51	---	---
03/23/98	3862.30	59.34	3802.96	---	---
04/13/98	3862.30	59.48	3802.82	---	---
04/20/98	3862.30	59.33	3802.97	---	---
04/27/98	3862.30	59.25	3803.05	---	---
05/04/98	3862.30	59.21	3803.09	---	---

TABLE II
(continued)

MONITORING WELL MW-20
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3861.30	58.73	3802.57	---	---
02/12/98	3861.30	59.03	3802.27	---	---
03/23/98	3861.30	58.51	3802.79	---	---
04/13/98	3861.30	58.65	3802.65	---	---
04/20/98	3861.30	58.52	3802.78	---	---
04/27/98	3861.30	58.51	3802.79	---	---
05/04/98	3861.30	58.49	3802.81	---	---

TABLE II
(continued)

MONITORING WELL MW-21
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.30	59.05	3803.25	---	---
02/12/98	3862.30	59.16	3803.14	---	---
03/23/98	3862.30	58.69	3803.61	---	---
04/13/98	3862.30	58.86	3803.44	---	---
04/20/98	3862.30	58.71	3803.59	---	---
04/27/98	3862.30	58.71	3803.59	---	---
05/04/98	3862.30	56.70	3805.60	---	---

TABLE II
(continued)

MONITORING WELL MW-22
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.01	57.32	3806.69	---	---
02/12/98	3864.01	57.59	3806.42	---	---
03/23/98	3864.01	56.93	3807.08	---	---
04/13/98	3864.01	57.08	3806.93	---	---
04/20/98	3864.01	56.97	3807.04	---	---
04/27/98	3864.01	57.24	3806.77	---	---
05/04/98	3864.01	57.16	3806.85	---	---

TABLE II
(continued)

MONITORING WELL MW-23
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.44	55.91	3806.53	---	---
02/12/98	3862.44	56.02	3806.42	---	---
03/23/98	3862.44	55.71	3806.73	---	---
04/13/98	3862.44	55.75	3806.69	---	---
04/20/98	3862.44	55.71	3806.73	---	---
04/27/98	3862.44	55.86	3806.58	---	---
05/04/98	3862.44	55.79	3806.65	---	---

TABLE II
(continued)

MONITORING WELL MW-24
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.36	56.74	3807.62	---	---
02/12/98	3864.36	56.81	3807.55	---	---
03/23/98	3864.36	56.64	3807.72	---	---
04/13/98	3864.36	56.76	3807.60	---	---
04/20/98	3864.36	56.71	3807.65	---	---
04/27/98	3864.36	56.87	3807.49	---	---
05/04/98	3864.36	56.81	3807.55	---	---

TABLE II
(continued)

MONITORING WELL MW-25
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.16	55.33	3808.83	---	---
02/12/98	3864.16	55.39	3808.77	---	---
03/23/98	3864.16	55.35	3808.81	---	---
04/13/98	3864.16	55.39	3808.77	---	---
04/20/98	3864.16	55.37	3808.79	---	---
04/27/98	3864.16	55.47	3808.69	---	---
05/04/98	3864.16	55.45	3808.71	---	---

TABLE II
(continued)

PUMPING WELL PW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.08	54.28	3794.80	---	---
07/13/92	3849.08	54.46	3794.62	---	---
04/15/98	3849.08	52.58	3796.50	---	---
04/20/98	3849.08	72.02	3777.06	---	---
04/27/98	3849.08	72.73	3776.35	---	---
05/04/98	3849.08	52.76	3796.32	---	---

TABLE II
(continued)

PUMPING WELL PW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.23	55.27	3791.96	---	---
07/13/92	3847.23	55.76	3791.47	---	---
04/15/98	3847.23	55.09	3792.14	3792.55	0.48
04/20/98	3847.23	54.90	3792.33	3792.81	0.56
04/27/98	3847.23	54.80	3792.43	3792.98	0.65
04/30/98	3847.23	54.75	3792.48	3792.92	0.52
05/04/98	3847.23	54.69	3792.54	3792.96	0.49
05/06/98	3847.23	83.90	3763.33	3764.01	0.80
05/07/98	3847.23	83.95	3763.28	3763.89	0.72
05/08/98	3847.23	81.14	3766.09	3766.10	0.01

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (1.0 foot)

EL = Ground water elevation (feet) calculated from measurments obtained on 10/15/96.

B = Benzene Concentration (mg/l)

BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

TPH = Total Petroleum Hydrocarbon Concentration (mg/l)

ND = Not Detected

NOTES:

1. A sample was not collected from MW-5 due to a dry well.
2. All samples were collected on October 15, 1996.

Texas New Mexico Buried Pipeline

MW-5
EL=DRY

PW-1
B=ND
BTEX=0.015
TPH=ND

TB-8

MW-9
EL=3807.58
B=4.224
BTEX=6.397
TPH=17

MW-6
EL=3807.16
B=0.210
BTEX=0.239
TPH=ND

3807

3806

SPS Water Line

Influent Line from PW-1

Buffalo Wallow

3805

EL=3805.25
B=ND
BTEX=ND
TPH=ND

MW-2

PW-2
B=0.007
BTEX=0.007
TPH=ND

MW-1
EL=3804.24
B=6.445
BTEX=9.674
TPH=4

Treatment System

SPS-11 Well Area

Buried Pipeline

MW-3
EL=3805.23
B=0.003
BTEX=0.003
TPH=ND

MW-7
EL=3804.15
B=0.211
BTEX=0.388
TPH=2

MW-4
EL=3804.26
B=0.005
BTEX=0.005
TPH=ND

04/29/96-RM G:\SADFT\PROJECTS\TNMPL\610099.MONITOR\(GWM-O96)

k·e·i

GROUND WATER CONCENTRATION / CONTOUR MAP - OCTOBER 1996			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Δ — Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (2.0 feet)
- B = Benzene Concentration (mg/l)
- ND = Not Detected
- NS = Not Sampled

Texas New Mexico Buried Pipeline

MW-5
B=NS

PW-1
B=ND

TB-8

4.0

2.0

MW-9
B=4.224

ND

MW-6
B=0.210

SPS Water Line

Influent Line from PW1

Buffalo Wallow

B=ND
MW-2

ND

Treatment System

MW-3
B=0.003

SPS-11 Well Area

MW-1
B=6.445

4.0

6.0

2.0

Buried Pipeline

PW-2
B=0.007

MW-7
B=0.211

MW-4
B=0.005

04/29/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\(BEN-O99)

k·e·i

BENZENE ISOPLETH MAP - OCTOBER 1996			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (2.0 feet)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected
- NS = Not Sampled

Texas New Mexico Buried Pipeline

MW-5
BTEX=NS

PW-1
BTEX=0.015

TB-8

MW-9
BTEX=6.397

MW-6
BTEX=0.210

SPS Water Line

Influent Line from PW1

Buffalo Wallow

BTEX=ND
MW-2

ND

Treatment System

SPS-11 Well Area

Buried Pipeline

MW-3
BTEX=0.003

PW-2
BTEX=0.007

MW-1
BTEX=9.674

2 4 8 6

MW-7
BTEX=0.388

MW-4
BTEX=0.005

04/29/96-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\BTEX.DWG

k·e·i

BTEX ISOPLETH MAP - OCTOBER 1996	610099
TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 3

ENVIRONMENTAL LAB OF , INC.

OCT 2 1 1996

"Don't Treat Your Soil Like Dirt!"

KEI CONSULTANTS, INC.
ATTN: MR. PAUL HARTNETT
5309 WURZBACH STE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763

Receiving Date: 10/15/96
Sample Type: WATER
Project : SPS-11
Project #: 610099
Project Location: Lea County, New Mexico

Analysis Date: 10/16/96
Sampling Date: 10/15/96
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m,p-XYLENE (mg/l)	o-XYLENE (mg/l)	TPH (mg/l)
9239	MW-1	6.445	1.132	1.184	0.630	0.283	4
9240	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001	<1
9241	MW-3	0.003	<0.001	<0.001	<0.001	<0.001	<1
9242	MW-4	0.005	<0.001	<0.001	<0.001	<0.001	<1
9243	MW-6	0.210	0.002	0.021	0.006	<0.001	<1
9244	MW-7	0.211	0.016	0.095	0.047	0.019	2
9245	MW-9	4.224	0.056	1.252	0.763	0.102	17
9246	RW-1	0.007	<0.001	<0.001	<0.001	<0.001	<1
9247	RW-2	<0.001	0.001	0.001	0.009	0.004	<1
	% IA	116	104	99	95	95	94
	% EA	121	104	99	95	95	---
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001	<1

METHODS: SW 846-8020,5030; EPA 418.1

Michael R. Fowler

10-17-96
Date

Environmental Lab of Texas, Inc.

12600 West I-20 E... Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

COC # 10151

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Paul Hartnett
Phone #: 210 680 3767
FAX #: 210 680 3763

Company Name & Address: KEI CONSULTANTS, INC 5309 WURZBACH STE 100 SAN ANTONIO, TX 78238

Project #: 610099 SPS-11

Project Name :

Project Location: Lea County, New Mexico

Sampler Signature: David F. Hutchinson

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8120/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
9239	MW-1	3	1 liter 2 VOA	X							X			10/15/96	1:10 p.m.	X	X						
9240	MW-2													10/15/96	2:15 p.m.								
9241	MW-3													10/15/96	2:25 p.m.								
9242	MW-4													10/15/96	1:00 p.m.								
9243	MW-6													10/15/96	4:10 p.m.								
9244	MW-7													10/15/96	4:45 p.m.								
9245	MW-9													10/15/96	3:50 p.m.								
9246	RW-1													10/15/96	2:55 p.m.								
9247	RW-2													10/15/96	3:15 p.m.								

Relinquished by:	Date:	Times:	Received by:	REMARKS
David F. Hutchinson	10/15/96	7:30 p.m.	Roland K Tuck	
Relinquished by:	Date:	Times:	Received by:	
Relinquished by:	Date:	Times:	Received by Laboratory:	

5309 Wurzbach, Suite 100
San Antonio, Texas 78238
(210) 680-3767
(210) 680-3763 FAX

April 21, 1998

Re: Ground Water Binder
SPS-11
KEI Job No. 610099

File:

A ground water monitoring and sampling event was not conducted at the above referenced site during the first quarter of 1997.

Theresa Nix

Theresa Nix
Project Manager

tln\p:\tnmpl\610099\monitor\c1q97mem.doc

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- EL = Ground Water Elevation (feet) measured on May 1, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

MW-16
EL=3808.10
B=0.101
BTEX=0.218

3808

MW-15
EL=3806.33
B=0.004
BTEX=0.011

B-6 B-5

B-4 B-3 PW1

TB-8 **MW-14**
EL=3806.70
B=9.639
BTEX=17.448

MW-9
EL=3807.36
B=6.180
BTEX=9.638

MW-6
EL=3806.97
B=ND
BTEX=0.007

B-2

MW-13
EL=3807.37
B=ND
BTEX=ND

3807

MW-12
EL=3806.29
B=ND
BTEX=0.031

3806

NOTE:
Ground water samples were collected on May 1, 1997.

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2
EL=3805.05
B=ND
BTEX=ND

MW-3
EL=3805.02
B=ND
BTEX=0.001

3805

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-11
EL=3803.67
B=1.177
BTEX=1.215

MW-1
EL=3804.00
B=7.788
BTEX=10.658

MW-4
EL=3804.13
B=ND
BTEX=ND

B-1

BURIED PIPELINE

MW-7
EL=3803.95
B=0.368
BTEX=0.732

3804

MW-10
EL=3803.64
B=0.184
BTEX=0.776

03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITORGW-MAY97

k·e·i

GROUND WATER CONCENTRATION / CONTOUR MAP - MAY 1, 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=100'

0 25 50 100

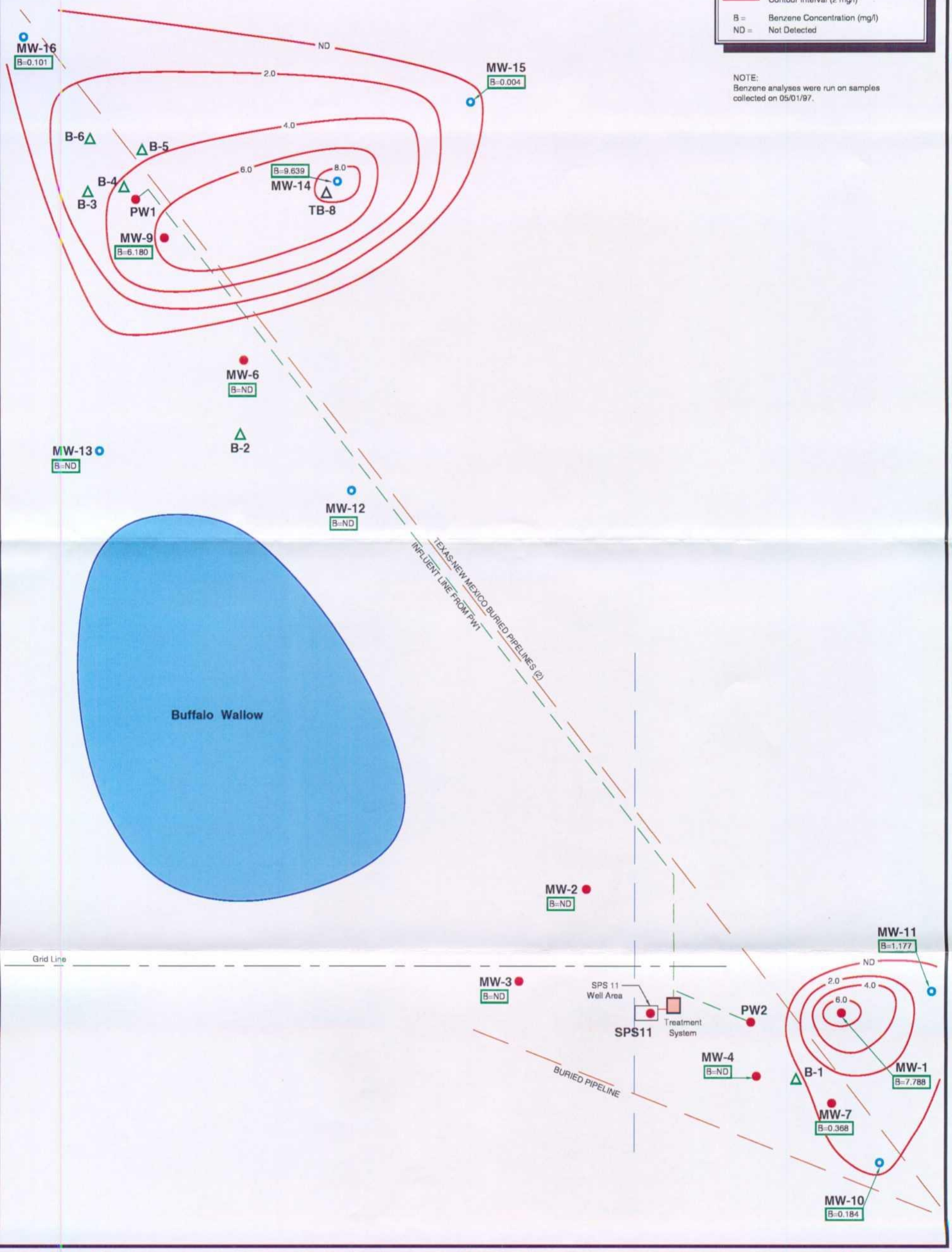
NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (2 mg/l)
- B = Benzene Concentration (mg/l)
- ND = Not Detected

NOTE:
Benzene analyses were run on samples collected on 05/01/97.



03/24/98-RM G:\SADFT\PROJECTS\TNMPL\MONITOR\(BZ-MAY97)

k·e·i

BENZENE ISOPLETH MAP - MAY 1997	610099
TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (5 mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

NOTE:
Ground water samples were collected on May 1, 1997.

MW-16
BTEX=0.218

ND

MW-15
BTEX=0.011

5.0

MW-14
BTEX=17.448

B-6

B-5

B-4

B-3

PW1

15.0

TB-8

MW-9
BTEX=9.638

10.0

MW-6
BTEX=0.007

B-2

MW-13
BTEX=ND

MW-12
BTEX=0.031

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2
BTEX=ND

MW-3
BTEX=0.001

Grid Line

ND

SPS 11
Well Area

SPS11

Treatment System

PW2

MW-1
BTEX=10.658

MW-11
BTEX=1.215

10.0

5.0

MW-4
BTEX=ND

B-1

BURIED PIPELINE

MW-7
BTEX=0.732

ND

MW-10
BTEX=0.776

03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\BX-MAY97)

k·e·i

BTEX ISOPLETH MAP - MAY 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 3

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI CONSULTANTS
ATTN: MS TERESA NIX
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763

Receiving Date: 05/02/97
Sample Type: WATER
Project : 610099, SPS-11
Project Location: HOBBS, LEA COUNTY

Analysis Date: 05/05/97
Sampling Date: 05/01/97
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m,p-XYLENE (mg/l)	o-XYLENE (mg/l)
11086	MW-1	7.788	0.778	1.282	0.536	0.274
11087	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
11088	MW-3	<0.001	<0.001	<0.001	0.001	<0.001
11089	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
11090	MW-6	<0.001	0.001	0.002	0.004	<0.001
11091	MW-7	0.368	0.034	0.206	0.082	0.042
11092	MW-9	6.180	0.019	2.056	1.243	0.140
11093	MW-10	0.184	0.292	0.124	0.118	0.062
11094	MW-11	1.177	<0.001	0.011	0.025	0.002
11095	MW-12	<0.001	0.003	0.001	0.016	0.011
11096	MW-13	<0.001	<0.001	<0.001	<0.001	<0.001
11097	MW-14	9.639	2.414	2.626	1.831	0.938
11098	MW-15	0.004	0.002	0.002	0.003	<0.001
11099	MW-16	0.101	0.090	0.015	0.003	0.009
	% IA	87	89	89	88	87
	% EA	113	98	76	102	121
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030
Spiked w/ 100 ppb

Michael R. Fowler

5-6-97
Date

MAY 12 1997

Environmental Lab of Texas, Inc.

12600 West I-20 East, Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST
#051

Project Manager: MIKE STAFFILENO / TERESA NIX
Phone #: 1-800-253-0507
FAX #: 972 484 5719

Company Name & Address: KEI CONSULTANTS

Project #: 610099
Project Name: SPS-11

Project Location: HOBBS, LEA COUNTY
Sampler Signature: Jod W. Brun

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX (8021)/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
11086	MW-1	2		X										5/1	1515	X							
11087	MW-2	2		X										5/1	1650	X							
11088	MW-3	2		X										5/1	1640	X							
11089	MW-4	2		X										5/1	1630	X							
11090	MW-6	2		X										5/1	1655	X							
11091	MW-7	2		X										5/1	1620	X							
11092	MW-9	2		X										5/1	1440	X							
11093	MW-10	2		X										5/1	1605	X							
11094	MW-11	2		X										5/1	1550	X							
11095	MW-12	2		X										5/1	1315	X							
				X																			

Relinquished by:	Date:	Time:	Received by:
Jod W. Brun	5/2/97	1650	
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: P.O.# 1764

Environmental Lab of Texas, Inc.

12600 West I-20 East, Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST
* 052

Project Manager: TERESA NIX / MIKE STAFFILENO
Phone #: 1-800-253-0607
FAX #: 972 484 5719

Company Name & Address: KEI CONSULTANTS

Project #: 610099
Project Name: SPS-11

Project Location: HOBBS, LEA
Sampler Signature: Jod W. Brun

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX (8021B/5030)	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
11096	MW-13	2		X							X			5/1	1335	X							
11097	MW-14	2		X							X			5/1	1435	X							
11098	MW-15	2		X							X			5/1	1400	X							
11099	MW-16	2		X							X			5/1	1350	X							

Relinquished by:	Date:	Time:	Received by:
Jod W. Brun	5/2/97	1650	Paula de Smith
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: P.O.# 17604

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- EL = Ground Water Elevation (feet) measured on August 27, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

NOTE:
Ground water samples were collected on August 28, 1997.

3808 3807 3806 3805 3804

MW-16
EL=3808.07
B=0.112
BTEX=0.327

MW-15
EL=3806.26
B=0.441
BTEX=0.441

MW-14
EL=3806.60
B=8.62
BTEX=14.61

MW-9
EL=3807.32
B=2.930
BTEX=4.220

MW-6
EL=3806.86
B=0.082
BTEX=1.038

MW-13
EL=3807.28
B=ND
BTEX=ND

MW-12
EL=3806.22
B=0.099
BTEX=0.204

MW-2
EL=3804.68
B=ND
BTEX=ND

MW-3
EL=3804.73
B=ND
BTEX=ND

MW-11
EL=3803.61
B=2.74
BTEX=2.89

MW-1
EL=3803.92
B=3.76
BTEX=5.09

MW-4
EL=3803.96
B=0.009
BTEX=0.009

MW-7
EL=3803.85
B=0.502
BTEX=1.038

MW-10
EL=3803.56
B=0.123
BTEX=0.589

B-6 B-5 B-4 B-3 B-2 B-1 TB-8 PW1 PW2 SPS11

SPS 11 Well Area

Treatment System

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

BURIED PIPELINE

03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\GW-AUG97

k·e·i	*GROUND WATER CONCENTRATION / CONTOUR MAP - AUGUST 1997*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=100'

0 25 50 100

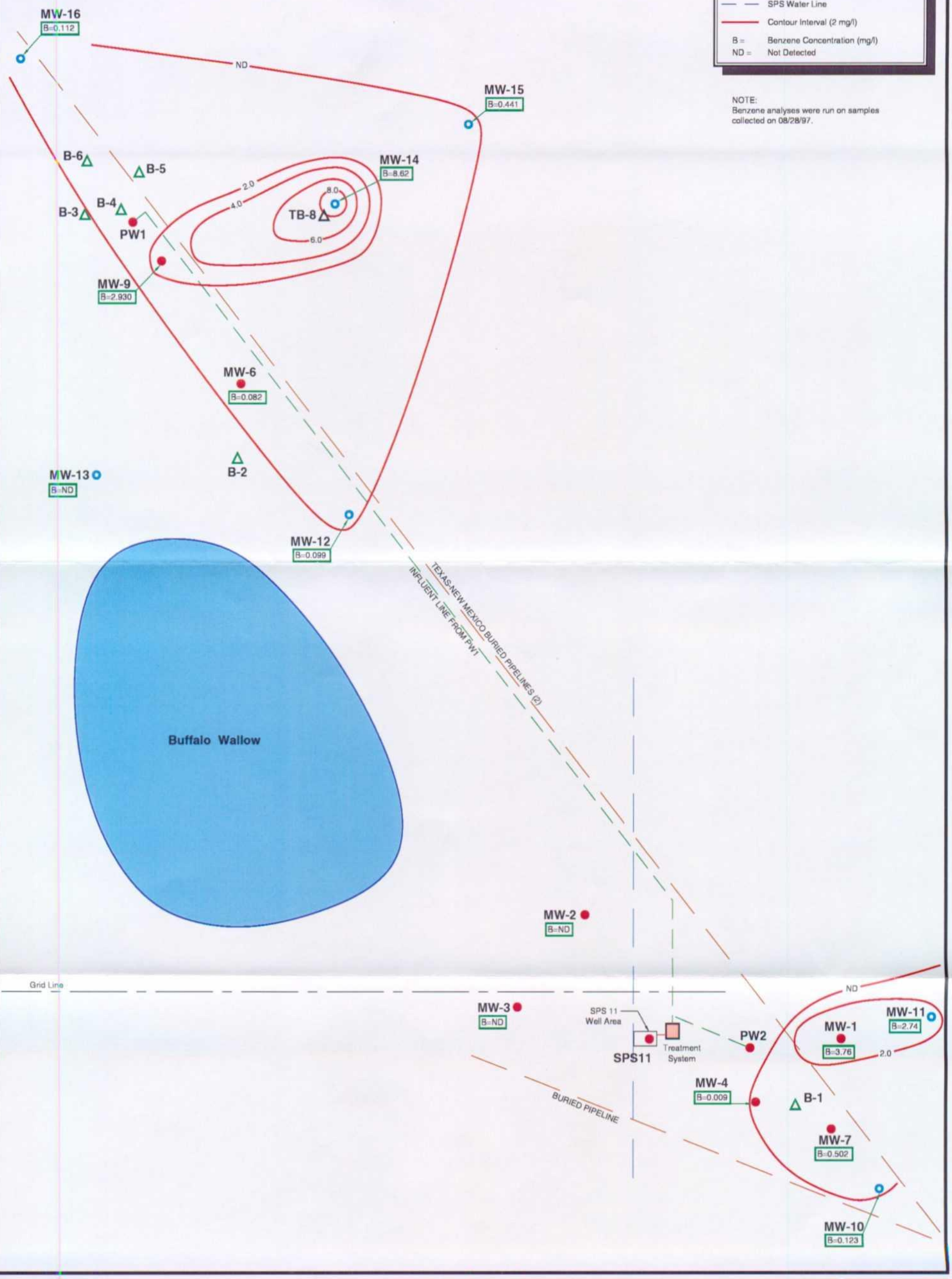
NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (2 mg/l)
- B = Benzene Concentration (mg/l)
- ND = Not Detected

NOTE:
Benzene analyses were run on samples collected on 08/28/97.



03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\(BZ-AUG97)

k·e·i	BENZENE ISOPLETH MAP - AUGUST 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=100'

0 25 50 100

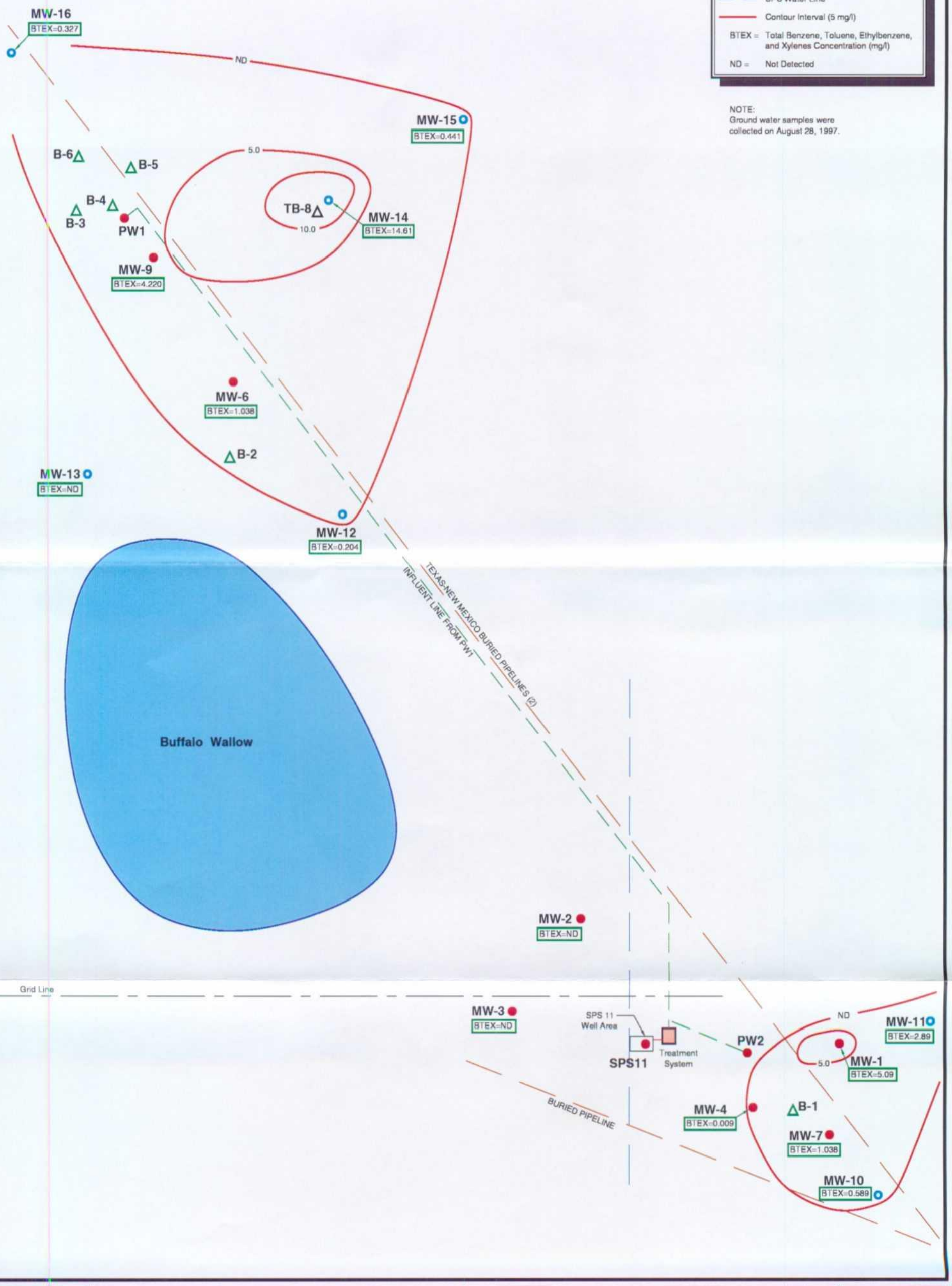
NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (5 mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

NOTE:
Ground water samples were collected on August 28, 1997.



03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099.MONITOR\(BX-AUG97)

k·e·i

BTEX ISOPLETH MAP - AUGUST 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 3

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72026

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAII

Project Name: TNMPL

Date Received in Lab : Aug 30, 1997 09:40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-001 MW-1	172026-002 MW-2	172026-003 MW-3	172026-004 MW-4	172026-005 MW-6	172026-006 MW-7	172026-007 MW-9	172026-008 MW-10	172026-009 MW-11
RCRA Metals by EPA 6010		Date Analyzed - Analytical Results								**ppm (mg/L - mg/Kg)**
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Arsenic		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Barium		0.81	0.17	0.17	0.10	0.17	0.90	0.68	0.67	0.41
Cadmium		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chromium		< 0.06	< 0.06	0.30	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.07
Lead		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver		< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Selenium		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Total Mercury by EPA 7470		Date Analyzed - Analytical Results								**ppm (mg/L - mg/Kg)**
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Mercury		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
BTEX by EPA 8020		Date Analyzed - Analytical Results								**ppm (mg/L - mg/Kg)**
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
Benzene		3.76	< 0.001	< 0.001	0.009	0.082	0.502	2.93	0.123	2.74
Toluene		0.25	< 0.001	< 0.001	< 0.001	< 0.001	0.064	< 0.01	0.146	< 0.01
Ethylbenzene		0.63	< 0.001	< 0.001	< 0.001	0.002	0.302	0.93	0.162	0.11

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72026

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

Date Received in Lab : Aug 30, 1997 09:40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172026-001	172026-002	172026-003	172026-004	172026-005	172026-006	172026-007	172026-008	172026-009
	Field ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11
	Depth:									
		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
m,p-Xylenes		0.30	< 0.002	< 0.002	< 0.002	0.003	0.113	0.36	0.110	0.04
o-Xylene		0.15	< 0.001	< 0.001	< 0.001	< 0.001	0.057	< 0.01	0.048	< 0.01
Total BTEX		5.09	< 0.006	< 0.006	0.009	0.087	1.038	4.22	0.589	2.89
PAHs by GC-MS (610 List) by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997
Acenaphthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acenaphthylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(a)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(a)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(b)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(g,h,i)perylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(k)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chrysene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibenzo(a,h)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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Project Location: SPSAll

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XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-001 MW-1	172026-002 MW-2	172026-003 MW-3	172026-004 MW-4	172026-005 MW-6	172026-006 MW-7	172026-007 MW-9	172026-008 MW-10	172026-009 MW-11
		Date Analyzed - Analytical Results **ppm (mg/L - mg/Kg)**								
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997
Fluorene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Indeno(1,2,3-cd)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Naphthalene		0.012	< 0.002	< 0.002	< 0.002	< 0.002	0.009	0.031	< 0.002	< 0.002
Phenanthrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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Date Received in Lab : Aug 30, 1997 09:40 by CJT
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XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-010 MW-12	172026-011 MW-13	172026-012 MW-14	172026-013 MW-15	172026-014 MW-16
RCRA Metals by EPA 6010		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Arsenic		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Barium		0.28	0.29	0.85	0.21	0.19
Cadmium		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chromium		< 0.06	< 0.06	0.08	< 0.06	< 0.06
Lead		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver		< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Selenium		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Total Mercury by EPA 7470		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Mercury		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
BTEX by EPA 8020		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
Benzene		0.099	< 0.001	8.62	0.441	0.112
Toluene		0.032	< 0.001	2.04	< 0.001	0.119
Ethylbenzene		0.030	< 0.001	1.91	< 0.001	0.060

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Project Location: SPSAII

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Analysis Requested	*Lab ID:* / *Field ID:*	172026-010 MW-12	172026-011 MW-13	172026-012 MW-14	172026-013 MW-15	172026-014 MW-16
		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
m,p-Xylenes		0.030	< 0.002	1.35	< 0.002	0.026
o-Xylene		0.013	< 0.001	0.69	< 0.001	0.010
Total BTEX		0.204	< 0.006	14.61	0.441	0.327
PAHs by GC-MS (610 List) by EPA 8270		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997
Acenaphthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acenaphthylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(a)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(a)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(b)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(g,h,i)perylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(k)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chrysene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibenzo(a,h)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-010 MW-12	172026-011 MW-13	172026-012 MW-14	172026-013 MW-15	172026-014 MW-16				
		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)			
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997				
Fluorene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Indeno(1,2,3-cd)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Naphthalene		< 0.002	< 0.002	0.061	0.002	< 0.002				
Phenanthrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18E18

SW846/6010 RCRA Metals

Date Validated: Sep 5, 1997 08:36
Date Analyzed: Sep 4, 1997 12:02
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Arsenic	< 0.222	2.156	2.220	0.222	97.1	70-125	
Barium	< 0.044	1.086	1.110	0.044	97.8	70-125	
Cadmium	< 0.044	0.437	0.444	0.044	98.4	70-125	
Chromium	< 0.056	1.060	1.110	0.056	95.5	70-125	
Lead	< 0.11	2.08	2.22	0.11	93.7	70-125	
Selenium	< 0.222	2.170	2.220	0.222	97.7	70-125	
Silver	< 0.089	0.812	0.888	0.089	91.4	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18E18

SW846/6010 RCRA Metals

Date Validated: Sep 5, 1997 08:36
Date Analyzed: Sep 4, 1997 12:46
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 172026- 001	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
				QC	LIMITS			QC	LIMITS	
Parameter	Sample Result	Duplicate Result	Method Detection Limit	Relative Difference	Relative Difference	Matrix Spike Result	Matrix Spike Amount	Matrix Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Arsenic	< 0.222	< 0.222	0.222	N.C	25.0	2.094	2.22	94.2	70-125	
Barium	0.811	0.801	0.044	1.2	25.0	1.710	1.11	80.9	70-125	
Cadmium	< 0.044	< 0.044	0.044	N.C	25.0	0.392	0.44	88.2	70-125	
Chromium	< 0.056	< 0.056	0.056	N.C	25.0	1.004	1.11	90.4	70-125	
Lead	< 0.11	< 0.11	0.11	N.C	25.0	1.96	2.2	88.2	70-125	
Selenium	< 0.222	< 0.222	0.222	N.C	25.0	2.043	2.22	91.9	70-125	
Silver	< 0.089	< 0.089	0.089	N.C	25.0	0.753	0.89	84.7	70-125	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18E18

SW846/6010 RCRA Metals

Date Validated: Sep 5, 1997 08:36
Date Analyzed: Sep 4, 1997 15:21
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172026- 011	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Arsenic	< 0.222	< 0.222	0.222	N.C	25.0	1.623	2.22	73.0	70-125	
Barium	0.291	0.296	0.044	1.7	25.0	1.056	1.11	68.9	70-125	A
Cadmium	< 0.044	< 0.044	0.044	N.C	25.0	0.328	0.44	73.8	70-125	
Chromium	< 0.056	< 0.056	0.056	N.C	25.0	0.842	1.11	75.8	70-125	
Lead	< 0.11	< 0.11	0.11	N.C	25.0	1.63	2.2	73.4	70-125	
Selenium	< 0.222	< 0.222	0.222	N.C	25.0	1.729	2.22	77.8	70-125	
Silver	< 0.089	< 0.089	0.089	N.C	25.0	0.666	0.89	74.9	70-125	

(A) Blank spike within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05C39

SW846- 7470 Total Mercury

Date Validated: Sep 5, 1997 12:15
Date Analyzed: Sep 4, 1997 11:49
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Mercury	< 0.0011	0.0026	0.0028	0.0011	92.9	80-120	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N[illegible] Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05C39

SW846- 7470 Total Mercury

Date Validated: Sep 5, 1997 12:15
Date Analyzed: Sep 4, 1997 15:42
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

Q.C. Sample ID 172026- 011	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
	Sample	Duplicate	Method	QC LIMITS		Matrix Spike	Matrix	QC LIMITS		
Parameter	Result	Result	Detection Limit	Relative Difference	Relative Difference	Result	Spike Amount	Matrix Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0010	< 0.0010	0.0010	N.C	20.0	0.0027	0.0028	96.4	80-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05C39

SW846- 7470 Total Mercury

Date Validated: Sep 5, 1997 12:15
Date Analyzed: Sep 4, 1997 11:53
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172026- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] QC LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] QC LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0011	< 0.0011	0.0011	N.C	20.0	0.0024	0.0028	85.7	80-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A29C61

SW- 846 5030/8020 BTEX

Date Validated: Sep 3, 1997 11:45
Date Analyzed: Sep 2, 1997 14:51
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE
Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 172026- 008 / Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	0.1230	0.2060	0.2100	0.1000	0.0010	25.0	1.9	83.0	87.0	65-135	
Toluene	0.1460	0.2240	0.2280	0.1000	0.0010	25.0	1.8	78.0	82.0	65-135	
Ethylbenzene	0.1620	0.2440	0.2480	0.1000	0.0010	25.0	1.6	82.0	86.0	65-135	
m,p-Xylenes	0.1100	0.2850	0.2920	0.2000	0.0020	25.0	2.4	87.5	91.0	65-135	
o-Xylene	0.0477	0.1330	0.1360	0.1000	0.0010	25.0	2.2	85.3	88.3	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A29C61

SW- 846 5030/8020 BTEX

Date Validated: Sep 3, 1997 11:45
Date Analyzed: Sep 2, 1997 10:45
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.0907	0.1000	0.0010	90.7	65-135	
Toluene	< 0.0010	0.0879	0.1000	0.0010	87.9	65-135	
Ethylbenzene	< 0.0010	0.0924	0.1000	0.0010	92.4	65-135	
m,p-Xylenes	< 0.0020	0.1900	0.2000	0.0020	95.0	65-135	
o-Xylene	< 0.0010	0.0886	0.1000	0.0010	88.6	65-135	

Blank Spike Recovery [E] = 100(B-A)/(C)*
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A34E05

SW846-8270 PAHs by GC-MS (610 List)

Date Validated: Sep 5, 1997 17:00
Date Analyzed: Sep 4, 1997 23:31
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: LC
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0040	0.0900	0.0978	0.1000	0.0040	31.0	8.3	90.0	97.8	46-118	
4-Chloro-3-Methylphenol	< 0.0040	0.0820	0.0886	0.1000	0.0040	42.0	7.7	82.0	88.6	23-97	
2-Chlorophenol	< 0.0040	0.0934	0.1006	0.1000	0.0040	40.0	7.4	93.4	100.6	27-123	
1,4-Dichlorobenzene	< 0.0040	0.0942	0.0962	0.1000	0.0040	28.0	2.1	94.2	96.2	36-97	
2,4-Dinitrotoluene	< 0.0040	0.0890	0.0956	0.1000	0.0040	38.0	7.2	89.0	95.6	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.0956	0.1070	0.1000	0.0080	38.0	11.3	95.6	107.0	41-116	
4-Nitrophenol	< 0.0080	0.0324	0.0378	0.1000	0.0080	50.5	15.4	32.4	37.8	10-80	
Pentachlorophenol	< 0.0020	0.0732	0.0878	0.1000	0.0020	50.0	18.1	73.2	87.8	9-103	
Phenol	< 0.0020	0.0490	0.0576	0.1000	0.0020	42.0	16.1	49.0	57.6	12-89	
Pyrene	< 0.0040	0.1104	0.1196	0.1000	0.0040	31.0	8.0	110.0	119.2	26-127	
1,2,4-Trichlorobenzene	< 0.0020	0.0840	0.0954	0.1000	0.0020	28.0	12.7	84.0	95.4	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

XENCO COC#: 1-72026
Date Received in Lab: Aug 30, 1997 09:40 by CJT
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-1	172026-001	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:58		Sep 2, 1997 by CE	Sep 2, 1997 18:20 by CE
2			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:58		Sep 4, 1997 by MM	Sep 5, 1997 01:48 by LC
3			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:58		Sep 3, 1997 by EZ	Sep 4, 1997 12:14 by SA
4			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:58		Sep 3, 1997 by EZ	Sep 4, 1997 11:53 by EZ
5	MW-2	172026-002	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:35		Sep 2, 1997 by CE	Sep 2, 1997 13:03 by CE
6			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:35		Sep 4, 1997 by MM	Sep 5, 1997 02:34 by LC
7			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:35		Sep 3, 1997 by EZ	Sep 4, 1997 12:58 by SA
8			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:35		Sep 3, 1997 by EZ	Sep 4, 1997 11:15 by EZ
9	MW-3	172026-003	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:15		Sep 2, 1997 by CE	Sep 2, 1997 13:21 by CE
10			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:15		Sep 4, 1997 by MM	Sep 5, 1997 03:21 by LC
11			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:15		Sep 3, 1997 by EZ	Sep 4, 1997 13:04 by SA
12			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:15		Sep 3, 1997 by EZ	Sep 4, 1997 11:56 by EZ
13	MW-4	172026-004	BTEX	SW-846	ppm	Standard	Aug 28, 1997 13:10		Sep 2, 1997 by CE	Sep 2, 1997 13:39 by CE
14			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 13:10		Sep 4, 1997 by MM	Sep 5, 1997 04:06 by LC
15			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 13:10		Sep 3, 1997 by EZ	Sep 4, 1997 13:10 by SA
16			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 13:10		Sep 3, 1997 by EZ	Sep 4, 1997 11:57 by EZ
17	MW-6	172026-005	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:00		Sep 2, 1997 by CE	Sep 2, 1997 13:57 by CE
18			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:00		Sep 4, 1997 by MM	Sep 5, 1997 04:53 by LC
19			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:00		Sep 3, 1997 by EZ	Sep 4, 1997 13:20 by SA
20			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:00		Sep 3, 1997 by EZ	Sep 4, 1997 11:58 by EZ
21	MW-7	172026-006	BTEX	SW-846	ppm	Standard	Aug 28, 1997 13:20		Sep 2, 1997 by CE	Sep 2, 1997 18:56 by CE
22			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 13:20		Sep 4, 1997 by MM	Sep 5, 1997 05:40 by LC
23			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 13:20		Sep 3, 1997 by EZ	Sep 4, 1997 13:25 by SA
24			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 13:20		Sep 3, 1997 by EZ	Sep 4, 1997 11:59 by EZ
25	MW-9	172026-007	BTEX	SW-846	ppm	Standard	Aug 28, 1997 11:35		Sep 2, 1997 by CE	Sep 2, 1997 19:13 by CE
26			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 11:35		Sep 4, 1997 by MM	Sep 5, 1997 06:26 by LC
27			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 11:35		Sep 3, 1997 by EZ	Sep 4, 1997 13:31 by SA
28			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 11:35		Sep 3, 1997 by EZ	Sep 4, 1997 15:36 by EZ

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAII

Project Name: TNMPL

XENCO COC#: 1-72026
Date Received in Lab: Aug 30, 1997 09:40 by CJT
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
29	MW-10	172026-008	BTEX	SW-846	ppm	Standard	Aug 28, 1997 15:50		Sep 2, 1997 by CE	Sep 2, 1997 14:51 by CE
30			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 15:50		Sep 4, 1997 by MM	Sep 5, 1997 07:13 by LC
31			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 15:50		Sep 3, 1997 by EZ	Sep 4, 1997 13:37 by SA
32			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 15:50		Sep 3, 1997 by EZ	Sep 4, 1997 15:37 by EZ
33	MW-11	172026-009	BTEX	SW-846	ppm	Standard	Aug 28, 1997 15:30		Sep 2, 1997 by CE	Sep 2, 1997 19:31 by CE
34			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 15:30		Sep 4, 1997 by MM	Sep 5, 1997 07:58 by LC
35			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 15:30		Sep 3, 1997 by EZ	Sep 4, 1997 13:43 by SA
36			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 15:30		Sep 3, 1997 by EZ	Sep 4, 1997 15:38 by EZ
37	MW-12	172026-010	BTEX	SW-846	ppm	Standard	Aug 28, 1997 15:15		Sep 2, 1997 by CE	Sep 2, 1997 16:48 by CE
38			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 15:15		Sep 4, 1997 by MM	Sep 5, 1997 08:42 by LC
39			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 15:15		Sep 3, 1997 by EZ	Sep 4, 1997 15:09 by SA
40			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 15:15		Sep 3, 1997 by EZ	Sep 4, 1997 15:39 by EZ
41	MW-13	172026-011	BTEX	SW-846	ppm	Standard	Aug 28, 1997 13:50		Sep 2, 1997 by CE	Sep 2, 1997 17:08 by CE
42			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 13:50		Sep 4, 1997 by MM	Sep 5, 1997 09:26 by LC
43			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 13:50		Sep 3, 1997 by EZ	Sep 4, 1997 15:15 by SA
44			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 13:50		Sep 3, 1997 by EZ	Sep 4, 1997 15:41 by EZ
45	MW-14	172026-012	BTEX	SW-846	ppm	Standard	Aug 28, 1997 14:45		Sep 2, 1997 by CE	Sep 2, 1997 19:49 by CE
46			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 14:45		Sep 4, 1997 by MM	Sep 5, 1997 10:11 by LC
47			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 14:45		Sep 3, 1997 by EZ	Sep 4, 1997 15:33 by SA
48			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 14:45		Sep 3, 1997 by EZ	Sep 4, 1997 15:44 by EZ
49	MW-15	172026-013	BTEX	SW-846	ppm	Standard	Aug 28, 1997 14:25		Sep 2, 1997 by CE	Sep 2, 1997 17:44 by CE
50			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 14:25		Sep 4, 1997 by MM	Sep 5, 1997 11:56 by LC
51			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 14:25		Sep 3, 1997 by EZ	Sep 4, 1997 15:39 by SA
52			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 14:25		Sep 3, 1997 by EZ	Sep 4, 1997 15:46 by EZ
53	MW-16	172026-014	BTEX	SW-846	ppm	Standard	Aug 28, 1997 14:10		Sep 2, 1997 by CE	Sep 2, 1997 18:02 by CE
54			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 14:10		Sep 4, 1997 by MM	Sep 5, 1997 12:41 by LC
55			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 14:10		Sep 3, 1997 by EZ	Sep 4, 1997 15:44 by SA
56			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 14:10		Sep 3, 1997 by EZ	Sep 4, 1997 15:47 by EZ

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 2

Lab. Batch # 172026

Contractor: KEI CONSULTANTS Phone: 210) 680-3767

Address: 5309 WURZBACH STE 100 SAN ANTONIO TX 78238

Project Name: TNMPL Project Director: MIKE HAWTHORN

Project Location: SPSAU Project Manager: MIKE CHAPA

Sampler Signature: Project No.: 610099

No. coolers this shipment: 2 Contractor COC #: ?

Carrier: UPS Quote #: —

Airbill No.: N141 0711 117 F, N141 0711 126 P.O. No.: CALL MIKE HAWTHORN

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P,G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	PAH	METALS EPA 6010	Please Hold	LAB ONLY ID #
1	MW-1	8/28/97	1258			X		X	1LTR VOA	P/G	X	HCL HNO3 NONE	MW-1	4	X		X	X		1
2	MW-2		1235										MW-2							2
3	MW-3		1215										MW-3							3
4	MW-4		1310										MW-4							4
5	MW-6		1200										MW-6							5
6	MW-7		1320										MW-7							6
7	MW-9		1135										MW-9							7
8	MW-10		1550										MW-10							8
9	MW-11		1530										MW-11							9
10	MW-12		1515										MW-12							10

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	8/28/97	2230			
			Received For Laboratory by	08/30/97	09:40

Remarks: PLEASE RUN METALS USING ICP SCAN, EPA METHOD 6010
FAX COPY OF RESULTS TO MIKE HAWTHORN (S.A. OFFICE) FAX 680-3763

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 2 of 2

Lab. Batch # 172026

Contractor: KEI CONSULTANTS Phone: (210) 680-3767

Address: 5309 WURZBACH STE 100 SAN ANTONIO, TX 78238

Project Name: TNMPL Project Director: MIKE HAWTHORN

Project Location: SPS-11 Project Manager: MIKE CHAPA

Sampler Signature: [signature] Project No.: 610099

No. coolers this shipment: 2 Contractor COC #: ?

Carrier: UPS Quote #:

Airbill No.: N141-0711-11-7 / N141-0711-12-6 P.O. No.: CALL MIKE HAWTHORN S.A. OFFICE

Turn-around: * ASAP * 24 hrs 48 hrs Standard

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative: Ice	Preservative: Other	Sample Description	No of CONTAINERS Total	BTEX (8020/8020-602)	TPH (418.1)	PAH	METALS EPA 6010	Please Hold	LAB ONLY ID #
1	MW-13	8/28/97	1360			X		X	LTR VOA	P,G	X	HCL HNO3 NONE	MW-13	4	X		X	X		1
2	MW-14		1445										MW-14							2
3	MW-15		1425										MW-15							3
4	MW-16		1410										MW-16							4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10

Unl Dies Ker Unknown
Waste Oil
PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	8/28/97	2230			
			Received For Laboratory by: [signature]	08/30/97	09:40

Remarks: SEE REMARK PAGE #1

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- EL = Ground Water Elevation (feet) measured on November 17, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

3807 3806 3805 3804 3803 3802

MW-16
EL=3807.01
B=0.053
BTEX=0.170

MW-15
EL=3805.54
B=0.063
BTEX=0.063

B-6 **B-5** **B-4** **B-3**

MW-9
EL=3804.56
B=2.5
BTEX=3.9

PW1

TB-8 **MW-14**
EL=3805.27
B=7.76
BTEX=11.79

MW-6
EL=3805.68
B=0.141
BTEX=0.152

B-2

MW-13
EL=3806.38
B=ND
BTEX=ND

MW-12
EL=3805.31
B=0.237
BTEX=0.478

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2
EL=3803.26
B=ND
BTEX=ND

MW-3
EL=3803.23
B=ND
BTEX=ND

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-11
EL=3802.36
B=3.32
BTEX=3.32

MW-1
EL=3801.87
B=11.8
BTEX=17.9

MW-4
EL=3801.35
B=0.002
BTEX=0.002

B-1

MW-7
EL=3802.00
B=0.288
BTEX=0.461

MW-10
EL=3802.43
B=0.143
BTEX=0.664

BURIED PIPELINE

NOTE:
Ground water samples were collected on November 17, 1997.

03/24/98-RM G:\AD\PT\PROJECTS\TNMPL\610099\MONITOR\(GW-NOV97)

k·e·i

GROUND WATER CONCENTRATION / CONTOUR MAP - NOVEMBER 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (See Note)
- B = Benzene Concentration (mg/l)
- ND = Not Detected

NOTE:
Benzene analyses were run on samples collected on 11/17/97.

PAH analyses were run on samples collected on 08/28/97.

Contour Interval (CI) is 1 mg/l below 5 mg/l and 5 mg/l above 5 mg/l.

MW-16 B=0.053

MW-15 B=0.063

B-6 B-5 B-4 B-3 PW1

MW-14 B=7.76 TB-8

MW-9 B=2.50

MW-6 B=0.141

B-2

MW-13 B=ND

MW-12 B=0.237

Buffalo Wallow

MW-2 B=ND

MW-3 B=ND

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1 B=11.8

MW-11 B=3.32

MW-4 B=0.002

B-1

MW-7 B=0.288

MW-10 B=0.143

ND

5.0 4.0 3.0 2.0 1.0

10.0 5.0 4.0 3.0 2.0 1.0

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

BURIED PIPELINE

03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\BZ-NOV97)

k·e·i	BENZENE ISOPLETH MAP - NOVEMBER 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (See Note)

BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

ND = Not Detected

NOTE:
PAH analyses were run on samples collected on 08/28/97.

Ground water samples were collected on November 17, 1997.

Contour Interval (CI) is 1 mg/l below 5 mg/l and 5 mg/l above 5 mg/l.

MW-16
BTEX=0.170

MW-15
BTEX=0.063

B-6

B-5

MW-14
BTEX=11.79

B-4

B-3

PW1

TB-8

MW-9
BTEX=3.9

10.0

5.0

4.0

3.0

2.0

1.0

ND

MW-6
BTEX=0.152

B-2

MW-13
BTEX=ND

MW-12
BTEX=0.478

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2
BTEX=ND

ND

MW-1
BTEX=17.9

BTEX=3.32

1.0

2.0

3.0

4.0

MW-11

15.0

10.0

5.0

MW-3
BTEX=ND

SPS 11
Well Area

SPS11

Treatment System

PW2

MW-4
BTEX=0.002

B-1

BURIED PIPELINE

MW-7
BTEX=0.461

MW-10
BTEX=0.664

03/24/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\BX-NOV97)

k·e·i	*BTEX ISOPLETH MAP - NOVEMBER 1997*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 3

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: TNMPL SPS-11
Date Received in Lab : Nov 19, 1997 15:15
Project Manager: Theresa Nix
Date Report Faxed: Dec 4, 1997
Project Location: Lea County, NM
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172982-001		172982-002		172982-003		172982-004		172982-005		172982-006	
	Field ID:	MW-1		MW-2		MW-3		MW-4		MW-6		MW-7	
	Depth:												
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	11/17/97-15:59		11/17/97-15:27		11/17/97-15:33		11/17/97-15:40		11/17/97-15:08		11/17/97-15:47	
Metals by ICP EPA 6010	*Analyzed:*	11/25/97	R.L.	11/25/97	R.L.	11/25/97	R.L.	11/25/97	R.L.	11/25/97	R.L.	11/25/97	R.L.
	Units:	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Aluminum		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	0.51	(0.22)	< 0.22	(0.22)
Barium		1.06	(0.02)	0.19	(0.02)	0.080	(0.022)	0.088	(0.022)	0.16	(0.02)	0.80	(0.02)
Beryllium		< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)
Boron		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Cadmium		< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)
Calcium		116	(0.1)	102	(0.2)	59.4	(0.1)	66.7	(0.1)	116	(0.1)	113	(0.1)
Chromium		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Cobalt		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Copper		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Iron		0.24	(0.11)	0.29	(0.06)	< 0.11	(0.11)	< 0.11	(0.11)	0.48	(0.11)	3.55	(0.11)
Magnesium		40.3	(0.1)	16.7	(0.1)	6.71	(0.11)	8.44	(0.11)	15.9	(0.1)	34.4	(0.1)
Manganese		0.31	(0.06)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	0.32	(0.06)
Molybdenum		< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)
Nickel		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Silicon		17.7	(0.2)	18.3	(0.2)	11.9	(0.2)	10.4	(0.1)	13.2	(0.1)	10.4	(0.2)
Silver		< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)
Strontium		0.89	(0.22)	0.60	(0.22)	0.33	(0.22)	0.32	(0.22)	0.52	(0.22)	0.55	(0.22)
Tin		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	0.74	(0.22)
Vanadium		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Zinc		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
BTEX EPA 8020	*Analyzed:*	11/22/97	R.L.	11/22/97	R.L.	11/22/97	R.L.	11/22/97	R.L.	11/22/97	R.L.	11/22/97	R.L.
	Units:	ppm		ppm		ppm		ppm		ppm		ppm	
Benzene		11.8	(0.1)	< 0.001	(0.001)	< 0.001	(0.001)	0.002	(0.001)	0.141	(0.001)	0.288	(0.004)

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: TNMPL SPS-11
Project Manager: Theresa Nix
Project Location: Lea County, NM

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	172982-001 MW-1 Liquid 11/17/97-15:59		172982-002 MW-2 Liquid 11/17/97-15:27		172982-003 MW-3 Liquid 11/17/97-15:33		172982-004 MW-4 Liquid 11/17/97-15:40		172982-005 MW-6 Liquid 11/17/97-15:08		172982-006 MW-7 Liquid 11/17/97-15:47	
	Analyzed: / *Units:*	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.
Toluene		2.5	(0.1)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	0.014	(0.004)
Ethylbenzene		2.2	(0.1)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	0.006	(0.001)	< 0.004	(0.004)
m,p-Xylenes		0.9	(0.2)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	0.003	(0.002)	0.159	(0.008)
o-Xylene		0.5	(0.1)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	0.002	(0.001)	< 0.004	(0.004)
Total BTEX		17.9		N.D.		N.D.		0.002		0.152		0.461	

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Project Location: Lea County, NM

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	172982-007 MW-9 Liquid 11/17/97-14:30		172982-008 MW-10 Liquid 11/17/97-15:52		172982-009 MW-11 Liquid 11/17/97-16:04		172982-010 MW-12 Liquid 11/17/97-15:20		172982-011 MW-13 Liquid 11/17/97-15:13		172982-012 MW-14 Liquid 11/17/97-15:01	
Metals by ICP EPA 6010	Analyzed: / Units:	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.
Aluminum		< 0.22	(0.22)	< 0.22	(0.22)	0.26	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Barium		0.45	(0.02)	0.40	(0.02)	0.16	(0.02)	0.18	(0.02)	0.12	(0.02)	0.66	(0.02)
Beryllium		< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)
Boron		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Cadmium		< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)
Calcium		129	(0.1)	154	(0.1)	149	(0.1)	140	(0.1)	119	(0.1)	204	(0.1)
Chromium		< 0.056	(0.056)	< 0.056	(0.056)	0.18	(0.06)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Cobalt		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Copper		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Iron		6.72	(0.06)	0.55	(0.11)	0.76	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	0.59	(0.11)
Magnesium		34.1	(0.1)	33.0	(0.1)	15.6	(0.1)	19.1	(0.1)	9.35	(0.22)	44.3	(0.1)
Manganese		0.38	(0.06)	0.16	(0.06)	0.14	(0.06)	< 0.056	(0.056)	< 0.056	(0.056)	0.25	(0.06)
Molybdenum		< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)
Nickel		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Silicon		11.4	(0.1)	11.5	(0.1)	22.9	(0.2)	23.4	(0.2)	21.2	(0.1)	25.9	(0.2)
Silver		< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)
Strontium		0.57	(0.22)	0.52	(0.22)	0.73	(0.22)	0.85	(0.22)	0.56	(0.22)	1.20	(0.22)
Tin		1.48	(0.11)	< 0.22	(0.22)	0.33	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	0.26	(0.22)
Vanadium		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Zinc		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	0.092	(0.056)	< 0.056	(0.056)	0.12	(0.06)
BTEX EPA 8020	Analyzed: / Units:	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.
Benzene		2.5	(0.1)	0.143	(0.001)	3.32	(0.02)	0.237	(0.001)	< 0.001	(0.001)	7.76	(0.02)

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Technical Director

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CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: *TNMPL SPS-11*
Project Manager: Theresa Nix
Project Location: Lea County, NM

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	172982-007 MW-9 Liquid 11/17/97-14:30		172982-008 MW-10 Liquid 11/17/97-15:52		172982-009 MW-11 Liquid 11/17/97-16:04		172982-010 MW-12 Liquid 11/17/97-15:20		172982-011 MW-13 Liquid 11/17/97-15:13		172982-012 MW-14 Liquid 11/17/97-15:01	
	Analyzed: / Units:	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.
Toluene		0.2	(0.1)	0.203	(0.001)	< 0.02	(0.02)	0.088	(0.001)	< 0.001	(0.001)	2.36	(0.02)
Ethylbenzene		0.7	(0.1)	0.165	(0.001)	< 0.02	(0.02)	0.047	(0.001)	< 0.001	(0.001)	< 0.02	(0.02)
m,p-Xylenes		0.3	(0.2)	0.102	(0.002)	< 0.04	(0.04)	0.072	(0.002)	< 0.002	(0.002)	1.67	(0.04)
o-Xylene		0.2	(0.1)	0.051	(0.001)	< 0.02	(0.02)	0.034	(0.001)	< 0.001	(0.001)	< 0.02	(0.02)
Total BTEX			3.9		0.664		3.32		0.478		N.D.		11.79

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K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: *TNMPL SPS-11*
Project Manager: Theresa Nix
Project Location: Lea County, NM

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	172982-013 MW-15 Liquid 11/17/97-14:48		172982-014 MW-16 Liquid 11/17/97-14:43				
Metals by ICP EPA 6010	*Analyzed:* / *Units:*	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.			
Aluminum		< 0.22	(0.22)	0.24	(0.22)			
Barium		0.14	(0.02)	0.16	(0.02)			
Beryllium		< 0.022	(0.022)	< 0.022	(0.022)			
Boron		< 0.22	(0.22)	< 0.22	(0.22)			
Cadmium		< 0.044	(0.044)	< 0.044	(0.044)			
Calcium		127	(0.1)	126	(0.1)			
Chromium		< 0.056	(0.056)	< 0.056	(0.056)			
Cobalt		< 0.056	(0.056)	< 0.056	(0.056)			
Copper		< 0.056	(0.056)	< 0.056	(0.056)			
Iron		< 0.11	(0.11)	0.15	(0.11)			
Magnesium		15.5	(0.1)	13.5	(0.1)			
Manganese		< 0.056	(0.056)	< 0.056	(0.056)			
Molybdenum		< 0.56	(0.56)	< 0.56	(0.56)			
Nickel		< 0.22	(0.22)	< 0.22	(0.22)			
Silicon		24.2	(0.2)	23.0	(0.2)			
Silver		< 0.089	(0.089)	< 0.089	(0.089)			
Strontium		0.77	(0.22)	0.69	(0.22)			
Tin		< 0.22	(0.22)	< 0.22	(0.22)			
Vanadium		< 0.056	(0.056)	< 0.056	(0.056)			
Zinc		0.22	(0.06)	0.23	(0.06)			
BTEX EPA 8020	*Analyzed:* / *Units:*	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.			
Benzene		0.063	(0.001)	0.053	(0.001)			

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XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: TNMPL SPS-11
Date Received in Lab : Nov 19, 1997 15:15
Project Manager: Theresa Nix
Date Report Faxed: Dec 4, 1997
Project Location: Lea County, NM
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172982-013	172982-014				
	Field ID:	MW-15	MW-16				
	Depth:						
	Matrix:	Liquid	Liquid				
	Sampled:	11/17/97-14:48	11/17/97-14:43				
	Analyzed:	11/22/97	11/22/97				
	Units:	ppm R.L.	ppm R.L.				
Toluene		< 0.001 (0.001)	0.061 (0.001)				
Ethylbenzene		< 0.001 (0.001)	0.021 (0.001)				
m,p-Xylenes		< 0.002 (0.002)	0.031 (0.002)				
o-Xylene		< 0.001 (0.001)	0.004 (0.001)				
Total BTEX		0.063	0.170				

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

Xenco Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 16:26
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 172982- 001	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
				QC	LIMITS			QC	LIMITS	
Parameter	Sample Result mg/L	Duplicate Result mg/L	Method Detection Limit mg/L	Relative Difference %	Relative Difference %	Matrix Spike Result mg/L	Matrix Spike Amount mg/L	Matrix Spike Recovery %	Recovery Range %	Qualifier
Aluminum	< 0.222	< 0.222	0.222	N.C	25.0	1.682	2.22	75.7	70-125	
Barium	1.062	1.080	0.007	1.7	25.0	1.864	1.11	72.2	70-125	
Beryllium	< 0.0222	< 0.0222	0.0222	N.C	25.0	0.3378	0.444	76.0	70-125	
Cadmium	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.3544	0.444	79.7	70-125	
Calcium	116	122	0.06	5.0	25.0	113	4.4	67.5	70-125	A,B
Chromium	< 0.0556	< 0.0556	0.0556	N.C	25.0	0.8644	1.111	77.8	70-125	
Cobalt	< 0.0111	< 0.0111	0.0111	N.C	25.0	0.8500	1.111	76.5	70-125	
Copper	< 0.0333	< 0.0333	0.0333	N.C	25.0	0.8767	1.111	78.9	70-125	
Iron	0.236	0.243	0.028	2.9	25.0	2.000	2.22	79.4	70-125	
Magnesium	40.31	41.85	0.06	3.7	25.0	40.17	4.4	3.2	70-125	A,B
Manganese	0.312	0.328	0.028	5.0	25.0	1.986	2.22	75.3	70-125	
Molybdenum	< 0.111	< 0.111	0.111	N.C	25.0	0.849	1.11	76.4	70-125	
Nickel	< 0.111	< 0.111	0.111	N.C	25.0	0.858	1.11	77.2	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 16:33
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172982- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Silver	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.6789	0.889	76.4	70-125	
Strontium	0.887	0.889	0.111	0.2	25.0	2.500	2.22	72.7	70-125	
Vanadium	< 0.0133	< 0.0133	0.0133	N.C	25.0	0.8578	1.111	77.2	70-125	
Zinc	< 0.0333	< 0.0333	0.0333	N.C	25.0	0.8267	1.111	74.4	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
(C) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 16:05
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Aluminum	< 0.222	2.029	2.222	0.222	91.3	70-125	
Barium	< 0.0067	1.0411	1.1111	0.0067	93.7	70-125	
Beryllium	< 0.0222	0.3800	0.4444	0.0222	85.5	70-125	
Cadmium	< 0.0444	0.3889	0.4444	0.0444	87.5	70-125	
Calcium	0.073	4.406	4.440	0.056	97.6	70-125	
Chromium	< 0.0556	0.9744	1.1111	0.0556	87.7	70-125	
Cobalt	< 0.0111	1.0156	1.1111	0.0111	91.4	70-125	
Copper	< 0.0333	1.0311	1.1111	0.0333	92.8	70-125	
Iron	0.336	2.129	2.222	0.028	80.7	70-125	
Magnesium	0.059	4.267	4.440	0.056	94.8	70-125	
Manganese	< 0.0278	2.0378	2.2222	0.0278	91.7	70-125	
Molybdenum	< 0.111	0.998	1.111	0.111	89.8	70-125	
Nickel	< 0.111	0.999	1.111	0.111	89.9	70-125	
Silver	< 0.0444	0.6756	0.8889	0.0444	76.0	70-125	
Strontium	< 0.111	2.118	2.220	0.111	95.4	70-125	
Vanadium	< 0.0133	1.0044	1.1111	0.0133	90.4	70-125	
Zinc	< 0.0333	0.9867	1.1111	0.0333	88.8	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. Not calculated, data below detection limit
N.D. Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

Xenco Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 18:10
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 172982- 011	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
				QC	LIMITS			QC	LIMITS	
Parameter	Sample Result	Duplicate Result	Method Detection Limit	Relative Difference	Relative Difference	Matrix Spike Result	Matrix Spike Amount	Matrix Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Aluminum	< 0.222	< 0.222	0.222	N.C	25.0	2.122	2.22	95.5	70-125	
Barium	0.122	0.126	0.007	3.2	25.0	1.154	1.11	92.9	70-125	
Beryllium	< 0.0222	< 0.0222	0.0222	N.C	25.0	0.4144	0.444	93.2	70-125	
Cadmium	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.4233	0.444	95.3	70-125	
Calcium	119	127	0.06	6.5	25.0	130	4.4	247.7	70-125	A
Chromium	< 0.0556	< 0.0556	0.0556	N.C	25.0	1.0167	1.111	91.5	70-125	
Cobalt	< 0.0111	< 0.0111	0.0111	N.C	25.0	1.0400	1.111	93.6	70-125	
Copper	< 0.0333	< 0.0333	0.0333	N.C	25.0	1.0233	1.111	92.1	70-125	
Iron	0.088	0.222	0.028	86.5	25.0	2.254	2.22	97.5	70-125	C
Magnesium	9.350	10.139	0.056	8.1	25.0	14.278	4.44	111.0	70-125	
Manganese	< 0.0278	< 0.0278	0.0278	N.C	25.0	2.0367	2.222	91.7	70-125	
Molybdenum	< 0.111	< 0.111	0.111	N.C	25.0	1.001	1.11	90.1	70-125	
Nickel	< 0.111	< 0.111	0.111	N.C	25.0	1.036	1.11	93.2	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
(C) *Variability in duplicate measurement attributed to sample non-homogeneity.*
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Houston - Dallas - San Antonio

Edward H. Yonemoto, Ph.D.
Technical Director

Xenco Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 18:10
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172982- 011	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G] Qualifier
Parameter				Relative Difference	Relative Difference			Matrix Spike Recovery	Recovery Range	
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Silver	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.6389	0.889	71.9	70-125	
Strontium	0.558	0.654	0.111	15.8	25.0	3.006	2.22	110.3	70-125	
Vanadium	0.0222	0.0222	0.0133	0.0	25.0	1.1056	1.110	97.6	70-125	
Zinc	0.0456	< 0.0333	0.0333	N.C	25.0	1.0178	1.111	87.5	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
(C) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25D71

SW- 846 5030/8020 BTEX

Date Validated: Nov 24, 1997 11:00
Date Analyzed: Nov 22, 1997 10:24
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1000	0.1000	0.0010	100.0	65-135	
Toluene	< 0.0010	0.1010	0.1000	0.0010	101.0	65-135	
Ethylbenzene	< 0.0010	0.1030	0.1000	0.0010	103.0	65-135	
m,p-Xylenes	< 0.0020	0.2090	0.2000	0.0020	104.5	65-135	
o-Xylene	< 0.0010	0.1020	0.1000	0.0010	102.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. Not calculated, data below detection limit
N.D. Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25D71

SW- 846 5030/8020 BTEX

Date Validated: Nov 24, 1997 11:00
Date Analyzed: Nov 22, 1997 11:02
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 172982- 003	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.0951	0.0966	0.1000	0.0010	25.0	1.6	95.1	96.6	65-135	
Toluene	< 0.0010	0.0963	0.0978	0.1000	0.0010	25.0	1.5	96.3	97.8	65-135	
Ethylbenzene	< 0.0010	0.0980	0.0998	0.1000	0.0010	25.0	1.8	98.0	99.8	65-135	
m,p-Xylenes	< 0.0020	0.2000	0.2050	0.2000	0.0020	25.0	2.5	100.0	102.5	65-135	
o-Xylene	< 0.0010	0.0975	0.0993	0.1000	0.0010	25.0	1.8	97.5	99.3	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Manager: Theresa Nix
Project Location: Lea County, NM

Project Name: TNMPL SPS-11

XENCO COC#: 1-72982
Date Received in Lab: Nov 19, 1997 15:15 by LY
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-1	172982-001	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:59		Nov 22, 1997 by HL	Nov 22, 1997 17:41 by HL
2			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:59		Nov 24, 1997 by AO	Nov 25, 1997 16:26 by SA
3	MW-2	172982-002	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:27		Nov 22, 1997 by HL	Nov 22, 1997 11:59 by HL
4			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:27		Nov 24, 1997 by AO	Nov 25, 1997 16:47 by SA
5	MW-3	172982-003	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:33		Nov 22, 1997 by HL	Nov 22, 1997 11:02 by HL
6			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:33		Nov 24, 1997 by AO	Nov 25, 1997 16:54 by SA
7	MW-4	172982-004	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:40		Nov 22, 1997 by HL	Nov 22, 1997 14:28 by HL
8			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:40		Nov 24, 1997 by AO	Nov 25, 1997 17:01 by SA
9	MW-6	172982-005	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:08		Nov 22, 1997 by HL	Nov 22, 1997 14:08 by HL
10			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:08		Nov 24, 1997 by AO	Nov 25, 1997 17:21 by SA
11	MW-7	172982-006	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:47		Nov 22, 1997 by HL	Nov 22, 1997 18:58 by HL
12			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:47		Nov 24, 1997 by AO	Nov 25, 1997 17:28 by SA
13	MW-9	172982-007	BTEX	SW-846	ppm	Standard	Nov 17, 1997 14:30		Nov 22, 1997 by HL	Nov 22, 1997 18:00 by HL
14			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 14:30		Nov 24, 1997 by AO	Nov 25, 1997 17:35 by SA
15	MW-10	172982-008	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:52		Nov 22, 1997 by HL	Nov 22, 1997 16:23 by HL
16			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:52		Nov 24, 1997 by AO	Nov 25, 1997 17:42 by SA
17	MW-11	172982-009	BTEX	SW-846	ppm	Standard	Nov 17, 1997 16:04		Nov 22, 1997 by HL	Nov 22, 1997 19:17 by HL
18			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 16:04		Nov 24, 1997 by AO	Nov 25, 1997 17:49 by SA
19	MW-12	172982-010	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:20		Nov 22, 1997 by HL	Nov 22, 1997 15:06 by HL
20			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:20		Nov 24, 1997 by AO	Nov 25, 1997 17:56 by SA
21	MW-13	172982-011	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:13		Nov 22, 1997 by HL	Nov 22, 1997 18:39 by HL
22			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:13		Nov 24, 1997 by AO	Nov 25, 1997 18:03 by SA
23	MW-14	172982-012	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:01		Nov 22, 1997 by HL	Nov 22, 1997 19:36 by HL
24			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:01		Nov 24, 1997 by AO	Nov 25, 1997 18:23 by SA
25	MW-15	172982-013	BTEX	SW-846	ppm	Standard	Nov 17, 1997 14:48		Nov 22, 1997 by HL	Nov 22, 1997 15:45 by HL
26			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 14:48		Nov 24, 1997 by AO	Nov 25, 1997 18:55 by SA
27	MW-16	172982-014	BTEX	SW-846	ppm	Standard	Nov 17, 1997 14:43		Nov 22, 1997 by HL	Nov 22, 1997 16:04 by HL
28			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 14:43		Nov 24, 1997 by AO	Nov 25, 1997 19:02 by SA

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 172982-SA

Contractor: K.E.I Consultants Phone: (210) 680-3767

Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238

Project Name: TNMPL SPS-11 Project Director: Mike Hawthorn

Project Location: Lea County, NM Project Manager: Theresa Wix

Sampler Signature: Stanley Glover Project No.: 610099-1-0-0

No. coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No.: 8280

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (SW 846-8020 or 602)	TPH (418.1)	ICP Metals EPA method 6010	Please Hold	Remarks	LAB ONLY ID #
1 MW-1	11-17 97	1559			/		/			/	HNO3 HCl		3	/		/		metals HNO3 BTEX HCl	1
2 MW-2	11-17 97	1527			/		/			/	HNO3 HCl		3	/		/			2
3 MW-3	11-17 97	1533			/		/			/	HNO3 HCl		3	/		/			3
4 MW-4	11-17 97	1540			/		/			/	HNO3 HCl		3	/		/			4
5 MW-6	11-17 97	1508			/		/			/	HNO3 HCl		3	/		/			5
6 MW-7	11-17 97	1547			/		/			/	HNO3 HCl		3	/		/			6
7 MW-9	11-17 97	1430			/		/			/	HNO3 HCl		3	/		/			7
8 MW-10	11-17 97	1552			/		/			/	HNO3 HCl		3	/		/			8
9 MW-11	11-17 97	1604			/		/			/	HNO3 HCl		3	/		/			9
10 MW-12	11-17 97	1520			/		/			/	HNO3 HCl		3	/		/			10

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

Waste Oil PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Glover	11-18-97				
			Received For Laboratory by: KEI/UPS		
			I Yockey	11/19/97	1515

Remarks:
BTEX EPA method SW-846-8020
metals EPA method 6010 - ICP SCAN

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories
11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 172982-SA

Contractor: K.E.I. Consultants
Phone ( ): 210-680-3767
Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238
Project Name: TUMPL SPS-11
Project Director: Mike Hawthorn
Project Location: Lea County, NM
Project Manager: Theresa Wix
Sampler Signature: Stanley Turner
Project No.: 61099-1-0-0

No. coolers this shipment:
Carrier: UPS
Airbill No.
Contractor COC #
Quote #:
P.O. No.: 8280

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (EPA method SW-846-8020 602)	TPH (418.1)	TCP metals EPA method 6010	Please Hold	Remarks	LAB ONLY ID #
1	MW-13	11-17 97	1513			X		X			X	HNO3 HCl		3	X		X		metals HNO3 BTEX HCl	1
2	MW-14	11-17 97	1501			X		X			X	HNO3 HCl		3	X		X			2
3	MW-15	11-17 97	1448			X		X			X	HNO3 HCl		3	X		X			3
4	MW-16	11-17 97	1443			X		X			X	HNO3 HCl		3	X		X			4
5	~~PW-1~~	11-17 97				X		X			X	HNO3 HCl		3	X		X			5
6	~~PW-2~~	11-17 97				X		X			X	HNO3 HCl		3	X		X			6
7																				7
8																				8
9																				9
10																				10

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

Unl Dies Ker Unknown
Waste Oil
PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Turner	11-18-97				
			Received For Laboratory by: KEY/UPS	11/19/97	1515

Remarks
BTEX: EPA method SW-846-8020
metals: EPA method 6010 - ICP SCAN

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (1.0 foot)

B = Benzene Concentration (mg/l)

BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

ND = Not Detected

NOTES:
Ground water elevation at MW-4 appears to be an anamoly and was not used when preparing ground water contours.

Ground water samples were collected on January 21-22, 1998.

3808 3807 3806 3805 3804 3803 3802 3801

MW-25 EL=3808.83 B=ND BTEX=ND

EL=3806.53 B=ND BTEX=ND MW-23

EL=3807.62 B=1.40 BTEX=1.89 MW-24

MW-16 EL=3806.24 B=ND BTEX=ND

B-6 B-5 B-4 B-3 PW-1 MW-9

EL=3804.63 B=11.2 BTEX=16.70 MW-14

MW-15 EL=3804.65 B=0.237 BTEX=0.237

TB-8

EL=3804.00 B=1.692 BTEX=3.066

EL=3804.92 B=ND BTEX=ND MW-6

B-2

EL=3806.69 B=ND BTEX=ND MW-22

MW-13 EL=3805.62 B=ND BTEX=ND

MW-12 EL=3804.66 B=0.73 BTEX=0.229

B-9

Texas New Mexico Buried Pipeline

Influent Line from PW1

SPS Water Line

EL=3803.25 B=0.932 BTEX=0.932 MW-21

MW-20 EL=3802.57 B=ND BTEX=ND

B-8

Buffalo Wallow

EL=3802.92 B=ND BTEX=ND MW-2

Treatment System

SPS-11 Well Area

EL=3801.39 B=7.54 BTEX=12.00 MW-1

EL=3801.75 B=2.116 BTEX=2.12 MW-11

PW-2

Buried Pipeline

MW-3 EL=3802.81 B=ND BTEX=ND

B-7

EL=3801.52 B=0.154 BTEX=0.226 MW-7

B-1

MW-4 EL=3803.24 B=ND BTEX=ND

MW-10 DRY

MW-19 EL=3802.64 B=ND BTEX=ND

MW-18 EL=3801.79 B=ND BTEX=ND

MW-17 EL=3800.74 B=0.158 BTEX=0.38

03/24/98-RM G:\GIS\ADFT\PROJECTS\TNMPL\610099\MONITOR\6199GWC.MXD

k·e·i

GROUND WATER CONCENTRATION / CONTOUR MAP - JANUARY 1998			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.154 Benzene Concentration (mg/l)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line

NOTE:

Ground water samples were collected on January 21-22, 1998.

MW-25 ND

MW-23 ND

MW-24 1.40

ND

MW-16 1.40

B-6 B-5 B-4 B-3

PW-1

MW-15 0.237

TB-8

MW-14 11.2

MW-9 1.692

MW-6 ND

B-2

MW-12 0.73

MW-13 ND

MW-22 ND

Texas New Mexico Buried Pipeline

SPS Water Line

Influent Line from PW1

B-9

MW-21 0.932

MW-20 ND

B-8

Buffalo Wallow

ND

MW-1 7.54

Treatment System

MW-2 ND

SPS-11 Well Area

MW-3 ND

Buried Pipeline

PW-2

MW-11 2.116

MW-4 ND

B-7

B-1

MW-10

MW-7 0.154

MW-19 ND

MW-18 ND

ND

MW-17 0.158

04/01/98--JB G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\610199EGW)

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BENZENE ISOPLETH MAP - JANUARY 1998			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=200'

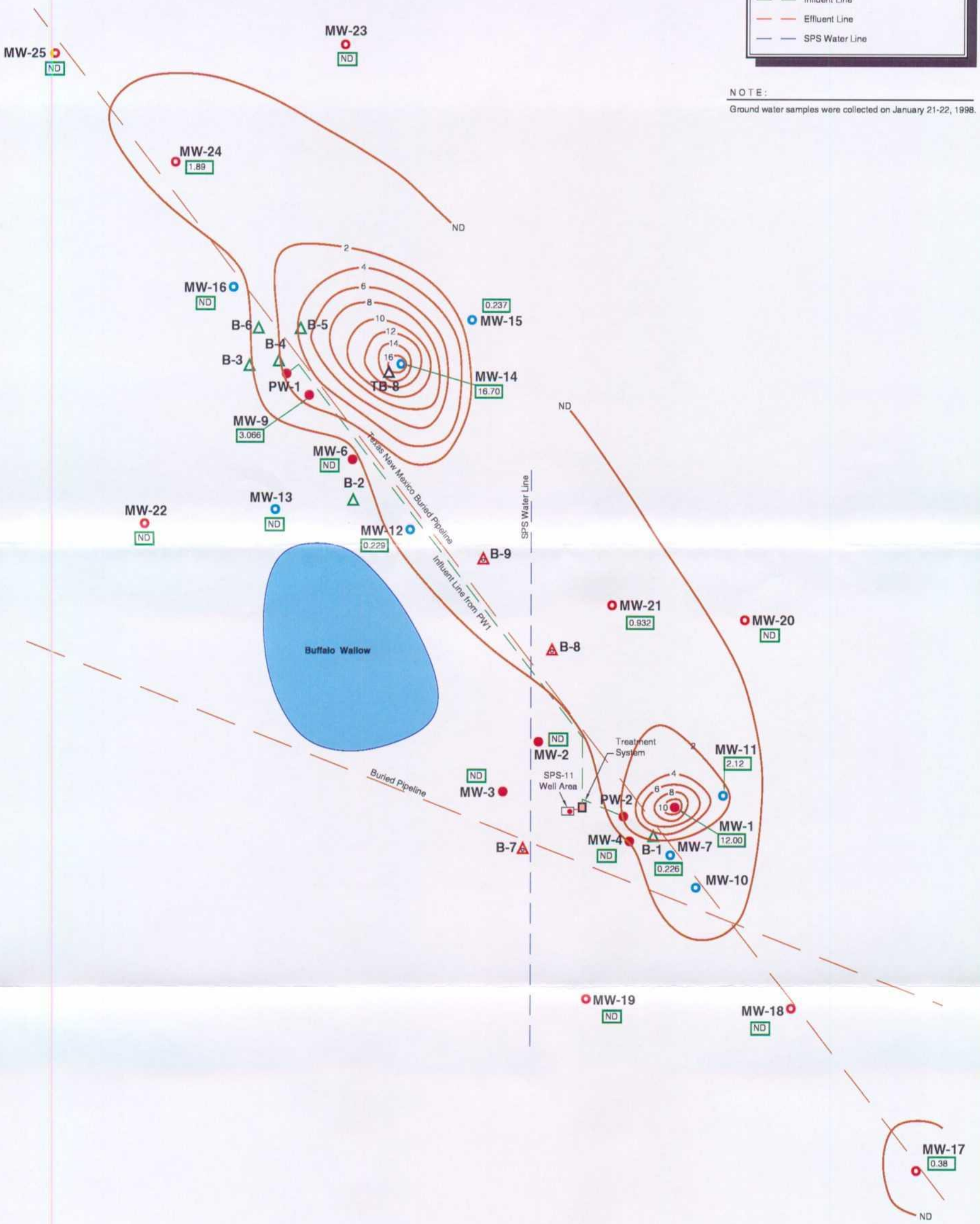
0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.237 — BTEX Concentration (mg/l)
- ND — Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line

NOTE:

Ground water samples were collected on January 21-22, 1998.



k·e·i	*BTEX ISOPLETH MAP - JANUARY 1998*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 3

03/16/98-RM G:\SAD\FT\PROJECTS\TNMPL\610099\MONITOR\6199BTGW)

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80255

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Theresa Nix
Project Location: SPS-11

Project Name: SPS-11

Date Received in Lab : Jan 23, 1998 09:20
Date Report Faxed: Jan 27, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180255 001 MW-1 Liquid 01/21/98 14:05		180255 002 MW-2 Liquid 01/21/98 14:23		180255 003 MW-3 Liquid 01/21/98 14:58		180255 004 MW-4 Liquid 01/21/98 13:49		180255 005 MW-6 Liquid 01/22/98 10:50		180255 006 MW-7 Liquid 01/21/98 13:39	
BTEX EPA 8020	*Analyzed:* / *Units:*	01/25/98 ppm	R.L.	01/25/98 ppm	R.L.	01/25/98 ppm	R.L.	01/25/98 ppm	R.L.	01/25/98 ppm	R.L.	01/25/98 ppm	R.L.
Benzene		7.54	(0.02)	< 0.001	(0.001)	< 0.004	(0.004)	< 0.004	(0.004)	< 0.004	(0.004)	0.154	(0.004)
Toluene		1.11	(0.02)	< 0.001	(0.001)	< 0.004	(0.004)	< 0.004	(0.004)	< 0.004	(0.004)	0.013	(0.004)
Ethylbenzene		1.76	(0.02)	< 0.001	(0.001)	< 0.004	(0.004)	< 0.004	(0.004)	< 0.004	(0.004)	0.045	(0.004)
m,p-Xylenes		1.13	(0.04)	< 0.002	(0.002)	< 0.008	(0.008)	< 0.008	(0.008)	< 0.008	(0.008)	0.009	(0.008)
o-Xylene		0.46	(0.02)	< 0.001	(0.001)	< 0.004	(0.004)	< 0.004	(0.004)	< 0.004	(0.004)	0.005	(0.004)
Total BTEX		12.00		N.D.		N.D.		N.D.		N.D.		0.226	

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The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80255

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Theresa Nix
Project Location: SPS-11

Project Name: SPS-11

Date Received in Lab : Jan 23, 1998 09:20
Date Report Faxed: Jan 27, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	180255 007	180255 008	180255 009	180255 010	180255 011	180255 012
	Field ID:	MW-9	MW-11	MW-12	MW-13	MW-14	MW-15
	Depth:						
	Matrix:	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sampled:	01/22/98 11:18	01/21/98 13:58	01/22/98 10:43	01/22/98 11:00	01/22/98 11:58	01/22/98 12:06
BTEX	*Analyzed:*	01/25/98	01/25/98	01/25/98	01/25/98	01/25/98	01/25/98
EPA 8020	*Units:*	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.
Benzene		1.692 (0.004)	2.116 (0.004)	0.173 (0.004)	< 0.004 (0.004)	11.2 (0.1)	0.237 (0.004)
Toluene		0.015 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	1.5 (0.1)	< 0.004 (0.004)
Ethylbenzene		0.836 (0.004)	0.004 (0.004)	0.035 (0.004)	< 0.004 (0.004)	2.4 (0.1)	< 0.004 (0.004)
m,p-Xylenes		0.385 (0.008)	< 0.008 (0.008)	0.015 (0.008)	< 0.008 (0.008)	1.0 (0.2)	< 0.008 (0.008)
o-Xylene		0.138 (0.004)	< 0.004 (0.004)	0.006 (0.004)	< 0.004 (0.004)	0.6 (0.1)	< 0.004 (0.004)
Total BTEX		3.066	2.120	0.229	N.D.	16.7	0.237

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CERTIFICATE OF ANALYSIS SUMMARY 1-80255

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Theresa Nix
Project Location: SPS-11

Project Name: SPS-11

Date Received in Lab : Jan 23, 1998 09:20
Date Report Faxed: Jan 27, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180255 013 MW-16 Liquid 01/22/98 11:25	180255 014 MW-17 Liquid 01/21/98 13:10	180255 015 MW-18 Liquid 01/21/98 13:21	180255 016 MW-19 Liquid 01/21/98 13:28	180255 017 MW-20 Liquid 01/22/98 10:16	180255 018 MW-21 Liquid 01/22/98 10:30
BTEX **EPA 8020**	*Analyzed:* / *Units:*	01/25/98 ppm R.L.	01/25/98 ppm R.L.	01/25/98 ppm R.L.	01/25/98 ppm R.L.	01/25/98 ppm R.L.	01/25/98 ppm R.L.
Benzene		< 0.004 (0.004)	0.158 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	0.932 (0.004)
Toluene		< 0.004 (0.004)	0.156 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)
Ethylbenzene		< 0.004 (0.004)	0.026 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)
m,p-Xylenes		< 0.008 (0.008)	0.027 (0.008)	< 0.008 (0.008)	< 0.008 (0.008)	< 0.008 (0.008)	< 0.008 (0.008)
o-Xylene		< 0.004 (0.004)	0.013 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)
Total BTEX		N.D.	0.380	N.D.	N.D.	N.D.	0.932

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-80255

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Theresa Nix
Project Location: SPS-11

Project Name: SPS-11

Date Received in Lab : Jan 23, 1998 09:20
Date Report Faxed: Jan 27, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	180255 019 MW-22 Liquid 01/22/98 11:11	180255 020 MW-23 Liquid 01/22/98 11:58	180255 021 MW-24 Liquid 01/22/98 11:32	180255 022 MW-25 Liquid 01/22/98 11:41		
BTEX **EPA 8020**	*Analyzed:* / *Units:*	01/25/98 ppm R.L.	01/25/98 ppm R.L.	01/26/98 ppm R.L.	01/26/98 ppm R.L.		
Benzene		< 0.004 (0.004)	< 0.004 (0.004)	1.40 (0.02)	< 0.001 (0.001)		
Toluene		< 0.004 (0.004)	< 0.004 (0.004)	0.23 (0.02)	< 0.001 (0.001)		
Ethylbenzene		< 0.004 (0.004)	< 0.004 (0.004)	0.15 (0.02)	< 0.001 (0.001)		
m,p-Xylenes		< 0.008 (0.008)	< 0.008 (0.008)	0.07 (0.04)	< 0.002 (0.002)		
o-Xylene		< 0.004 (0.004)	< 0.004 (0.004)	0.04 (0.02)	< 0.001 (0.001)		
Total BTEX		N.D.	N.D.	1.89	N.D.		

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25A24

SW- 846 5030/8020 BTEX

Date Validated: Jan 26, 1998 14:00
Date Analyzed: Jan 25, 1998 11:19
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 180255- 002 / **Parameter**	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.0956	0.0975	0.1000	0.0010	20.0	2.0	95.6	97.5	65-135	
Toluene	< 0.0010	0.0964	0.0980	0.1000	0.0010	20.0	1.6	96.4	98.0	65-135	
Ethylbenzene	< 0.0010	0.0995	0.1010	0.1000	0.0010	20.0	1.5	99.5	101.0	65-135	
m,p-Xylenes	< 0.0020	0.2150	0.2190	0.2000	0.0020	20.0	1.8	107.5	109.5	65-135	
o-Xylene	< 0.0010	0.0997	0.1020	0.1000	0.0010	20.0	2.3	99.7	102.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25A24

SW- 846 5030/8020 BTEX

Date Validated: Jan 26, 1998 14:00
Date Analyzed: Jan 25, 1998 10:04
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Method Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.1050	0.0942	0.1000	0.0010	20.0	10.8	104.9	94.2	65-135	
Toluene	< 0.0010	0.1030	0.0946	0.1000	0.0010	20.0	8.5	102.9	94.6	65-135	
Ethylbenzene	< 0.0010	0.1080	0.0981	0.1000	0.0010	20.0	9.6	107.9	98.1	65-135	
m,p-Xylenes	< 0.0020	0.2330	0.2100	0.2000	0.0020	20.0	10.4	116.4	104.9	65-135	
o-Xylene	< 0.0010	0.1070	0.0961	0.1000	0.0010	20.0	10.7	106.9	96.1	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25A25

SW- 846 5030/8020 BTEX

Date Validated: Jan 26, 1998 15:00
Date Analyzed: Jan 25, 1998 22:14
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Method Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.1110	0.1070	0.1000	0.0010	20.0	3.7	110.3	106.3	65-135	
Toluene	< 0.0010	0.1070	0.1030	0.1000	0.0010	20.0	3.8	106.9	102.9	65-135	
Ethylbenzene	< 0.0010	0.1120	0.1080	0.1000	0.0010	20.0	3.6	111.9	107.9	65-135	
m,p-Xylenes	< 0.0020	0.2410	0.2300	0.2000	0.0020	20.0	4.7	120.4	114.9	65-135	
o-Xylene	< 0.0010	0.1110	0.1060	0.1000	0.0010	20.0	4.6	110.9	105.9	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Theresa Nix
Project Location: SPS-11

Project Name: SPS-11

XENCO COC#: 1-80255
Date Received in Lab: Jan 23, 1998 09:20 by LY
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
							Sample Collected	Addition Requested	Extraction	Analysis
1	MW-1	180255-001	BTEX	SW-846	ppm	5 days	Jan 21, 1998 14:05		Jan 25, 1998 by HL	Jan 25, 1998 11:57 by HL
2	MW-2	180255-002	BTEX	SW-846	ppm	5 days	Jan 21, 1998 14:23		Jan 25, 1998 by HL	Jan 25, 1998 11:00 by HL
3	MW-3	180255-003	BTEX	SW-846	ppm	5 days	Jan 21, 1998 14:58		Jan 25, 1998 by HL	Jan 25, 1998 12:16 by HL
4	MW-4	180255-004	BTEX	SW-846	ppm	5 days	Jan 21, 1998 13:49		Jan 25, 1998 by HL	Jan 25, 1998 12:35 by HL
5	MW-6	180255-005	BTEX	SW-846	ppm	5 days	Jan 22, 1998 10:50		Jan 25, 1998 by HL	Jan 25, 1998 12:53 by HL
6	MW-7	180255-006	BTEX	SW-846	ppm	5 days	Jan 21, 1998 13:39		Jan 25, 1998 by HL	Jan 25, 1998 13:12 by HL
7	MW-9	180255-007	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:18		Jan 25, 1998 by HL	Jan 25, 1998 13:31 by HL
8	MW-11	180255-008	BTEX	SW-846	ppm	5 days	Jan 21, 1998 13:58		Jan 25, 1998 by HL	Jan 25, 1998 13:50 by HL
9	MW-12	180255-009	BTEX	SW-846	ppm	5 days	Jan 22, 1998 10:43		Jan 25, 1998 by HL	Jan 25, 1998 14:09 by HL
10	MW-13	180255-010	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:00		Jan 25, 1998 by HL	Jan 25, 1998 14:28 by HL
11	MW-14	180255-011	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:58		Jan 25, 1998 by HL	Jan 25, 1998 18:17 by HL
12	MW-15	180255-012	BTEX	SW-846	ppm	5 days	Jan 22, 1998 12:06		Jan 25, 1998 by HL	Jan 25, 1998 15:25 by HL
13	MW-16	180255-013	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:25		Jan 25, 1998 by HL	Jan 25, 1998 15:44 by HL
14	MW-17	180255-014	BTEX	SW-846	ppm	5 days	Jan 21, 1998 13:10		Jan 25, 1998 by HL	Jan 25, 1998 16:03 by HL
15	MW-18	180255-015	BTEX	SW-846	ppm	5 days	Jan 21, 1998 13:21		Jan 25, 1998 by HL	Jan 25, 1998 16:22 by HL
16	MW-19	180255-016	BTEX	SW-846	ppm	5 days	Jan 21, 1998 13:28		Jan 25, 1998 by HL	Jan 25, 1998 16:41 by HL
17	MW-20	180255-017	BTEX	SW-846	ppm	5 days	Jan 22, 1998 10:16		Jan 25, 1998 by HL	Jan 25, 1998 17:01 by HL
18	MW-21	180255-018	BTEX	SW-846	ppm	5 days	Jan 22, 1998 10:30		Jan 25, 1998 by HL	Jan 25, 1998 17:20 by HL
19	MW-22	180255-019	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:11		Jan 25, 1998 by HL	Jan 25, 1998 17:39 by HL
20	MW-23	180255-020	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:58		Jan 25, 1998 by HL	Jan 25, 1998 17:58 by HL
21	MW-24	180255-021	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:32		Jan 26, 1998 by HL	Jan 26, 1998 07:58 by HL
22	MW-25	180255-022	BTEX	SW-846	ppm	5 days	Jan 22, 1998 11:41		Jan 25, 1998 by HL	Jan 26, 1998 00:27 by HL

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 3

Lab. Batch # 180255-8A

Contractor: Kiei Consultants Phone (210) 680-3767

Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238

Project Name: SPS-11 Project Director: Mike Hawthorne

Project Location: Project Manager: Theresa Nix

Sampler Signature: Stanley Grover Project No.: 610099

No. coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No.: 8652

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1	MW-1	1-21-98	1405			/			40ml		/	HCl		2	/				1
2	MW-2	1-21-98	1423			/			40ml		/	HCl		2	/				2
3	MW-3	1-21-98	1458			/			40ml		/	HCl		2	/				3
4	MW-4	1-21-98	1349			/			40ml		/	HCl		2	/				4
5	MW-6	1-22-98	1050			/			40ml		/	HCl		2	/				5
6	MW-7	1-21-98	1339			/			40ml		/	HCl		2	/				6
7	MW-9	1-22-98	11:18			/			40ml		/	HCl		2	/				7
8	MW-11	1-21-98	1358			/			40ml		/	HCl		2	/				8
9	MW-12	1-22-98	1043			/			40ml		/	HCl		2	/				9
10	MW-13	1-22-98	11:08			/			40ml		/	HCl		2	/				10

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Grover	1-22-98	1600			
			Received For Laboratory by: UPS	1/23/98	930

Remarks

BTEX EPA method SW846-8020

Fax analytical to theresa Nix at 210-680-3763

Fax analytical to Stan Grover at 505-392-2065

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 180255-SA

Contractor: Kiei Consultants Phone (210) 680-3767

Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238

Project Name: SPS-11 Project Director: Mike Hawthorne

Project Location: SPS-11 Project Manager: Theresa Nix

Sampler Signature: Stanley Grover Project No.: 610099

No. coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No: 8652

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Turn-around * ASAP * 24 hrs 48 hrs Standard	Remarks	LAB ONLY ID #
1	MW-14	1-22-98	11:58			/			40ml		/	HCl		2	/					1
2	MW-15	1-22-98	1206			/			40ml		/	HCl		2	/					2
3	MW-16	1-22-98	11:25			/			40ml		/	HCl		2	/					3
4	MW-17	1-21-98	1310			/			40ml		/	HCl		2	/					4
5	MW-18	1-21-98	13:21			/			40ml		/	HCl		2	/					5
6	MW-19	1-21-98	1328			/			40ml		/	HCl		2	/					6
7	MW-20	1-22-98	1016			/			40ml		/	HCl		2	/					7
8	MW-21	1-22-98	1030			/			40ml		/	HCl		2	/					8
9	MW-22	1-22-98	11:11			/			40ml		/	HCl		2	/					9
10	MW-23	1-22-98	11:56			/			40ml		/	HCl		2	/					10

Waste Oil PIT No: Tank No:

Unl Dies Ker Unknown

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Grover	1-22-98				
			Received For Laboratory by: UPS		
			[signature]	1/23/98	920

Remarks

BTEX: EPA method SW846-8020

Fax Analytical to Theresa Nix 210-680-3763

Fax Analytical to - Stan Grover 505-392-2065

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 180255-SA

Contractor: K.e.i Consultants
Phone: (210) 680-3767
Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238
Project Name: SPS-11
Project Director: Mike Hawthorne
Project Location: SPS-11
Project Manager: Theresa Nix
Sampler Signature: Stanley Grover
Project No.: 610099

No. coolers this shipment:
Carrier: UPS
Airbill No.
Contractor COC #
Quote #:
P.O. No.: 8652

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	No of CONTAINERS Total	BTEX (8030/8020-602)	TPH (418.1)	Please Hold	LAB ONLY ID #
1	MW-24	1-22-98	11:32			/			40ml		/	HCl	2	/			1
2	MW-25	1-22-98	11:41			/			40ml		/	HCl	2	/			2
3																	3
4																	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10

Unl Dies Ker Unknown
Waste Oil
PIT No: Tank No:
Sample Description

Turn-around
* ASAP
* 24 hrs
48 hrs
Standard

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Grover	1-22-98	1600			
			Received For Laboratory by: UPS		
			J Yockey	1/23/98	920

Remarks
BTEX EPA Method SW 846-8020
Fax Analytical to Theresa Nix at 210-680-3763
Fax Analytical to STAN Grouer at 505-392-2065

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

5309 Wurzbach, Suite 100
San Antonio, Texas 78238
(210) 680-3767
(210) 680-3763 FAX

May 14, 1998

Mr. Tony Savoie
TEXAS - NEW MEXICO PIPE LINE COMPANY
P. O. Box 1030
Jal, New Mexico 88252

Re: Groundwater Monitoring Event
Texas - New Mexico Pipe Line Company
SPS-11
Lea County, New Mexico
Job No. 610099-1

Dear Mr. Savoie:

Transmitted with this letter is the ground water binder update packet for the second quarter of 1998 ground water monitoring event conducted at SPS-11 located in Lea County, New Mexico.

The packet contains the following:

- Updated gauging tables
- Updated ground water laboratory results tables
- Updated figures
- A copy of the laboratory ground water results and chain-of-custody documentation
- A dated "tab" for the new event

Please remove and replace the former tables. Add the new dated tab and place the updated figures, laboratory reports, and chain-of-custody documentation behind this tab.

Please call me at (210) 680-3767 if you have any questions or comments.

Respectfully,

Theresa Nix

Theresa Nix
Project Manager

Enclosure

cc OCD - Hobbs
OCD - Sante Fe ✓
Marc Oler, TTTI
Mike Hawthorne, KEI

tln\p:\tnmpl\610099\monitor\cgwb2q98.doc

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (1.0 foot)

EL = Ground water elevation (ft) calculated from measurements obtained on April 13, 1998.

B = Benzene Concentration (mg/l)

BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mgl)

ND = Not Detected

NOTES:
Ground water elevation at MW-4 appears to be an anamoly and was not used when preparing ground water contours.

Ground water samples were collected on April 14-15, 1998.

3808 3808 3806 3805 3804 3803 3802 3801

MW-25 EL=3808.77 B=ND BTEX=ND

MW-23 EL=3806.73 B=0.001 BTEX=0.013

MW-24 EL=3807.60 B=1.192 BTEX=1.467

MW-16 EL=3806.67 B=0.015 BTEX=0.050

B-6 B-5 B-4 EL=NM B-3

PW-1 MW-9 EL=3805.18 B=0.912 BTEX=1.020

MW-15 EL=3805.12 B=5.46 BTEX=6.95

MW-14 EL=3804.98 B=0.180 BTEX=0.180

TB-8

EL=3805.16 B=0.026 BTEX=0.026 MW-6

B-2

EL=3806.93 B=ND BTEX=ND MW-22

MW-13 EL=3805.83 B=ND BTEX=ND

MW-12 EL=3804.87 B=0.002 BTEX=0.005

B-9

Texas New Mexico Buried Pipeline

Influent Line from PW1

SPS Water Line

EL=3803.44 B=0.844 BTEX=0.844 MW-21

MW-20 EL=3802.65 B=ND BTEX=ND

B-8

Buffalo Wallow

EL=3803.73 B=ND BTEX=ND MW-2

Buried Pipeline

Treatment System

SPS-11 Well Area

EL=3802.06 B=4.36 BTEX=5.81 MW-1

EL=3802.19 B=1.112 BTEX=1.112 MW-11

PW-2

MW-3 EL=3803.42 B=ND BTEX=ND

B-7

B-1 MW-7 EL=3802.24 B=0.053 BTEX=0.079

MW-4 EL=3802.11 B=0.003 BTEX=0.003

MW-10 DRY

MW-19 EL=3802.82 B=ND BTEX=ND

MW-18 EL=3801.58 B=ND BTEX=ND

MW-17 EL=3800.56 B=0.247 BTEX=0.722

05/06/98--JB G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\(GW-APR98)

k·e·i

GROUND WATER CONCENTRATION / CONTOUR MAP - APRIL 1998			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.154 Benzene Concentration (mg/l)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval = 1 foot

NOTE:

Ground water samples were collected on April 14-15, 1998.

MW-25 ND

MW-23 0.001

MW-24 1.192

MW-16 0.015

MW-15 0.180

MW-14 5.46

B-6 B-5 B-4 B-3 PW-1 TB-8

MW-9 0.912

0.026 MW-6

MW-12 0.002

B-2

MW-13 ND

MW-22 ND

B-9

MW-21 0.844

MW-20 ND

B-8

Buffalo Wallow

MW-1 4.36

MW-2 ND

Treatment System

SPS-11 Well Area

MW-3 ND

PW-2

MW-11 1.112

MW-4 0.003

B-7 B-1

MW-10

MW-7 0.059

MW-19 ND

MW-18 ND

MW-17 0.247

Texas New Mexico Buried Pipeline

Influent Line from PW1

SPS Water Line

Buried Pipeline

05/06/98--JB G:\SADFT\PROJECTS\TNMPL\610099.MONITOR\(BZ_APR98)

k·e·i	*BENZENE ISOPLETH MAP - APRIL 1998*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=200'

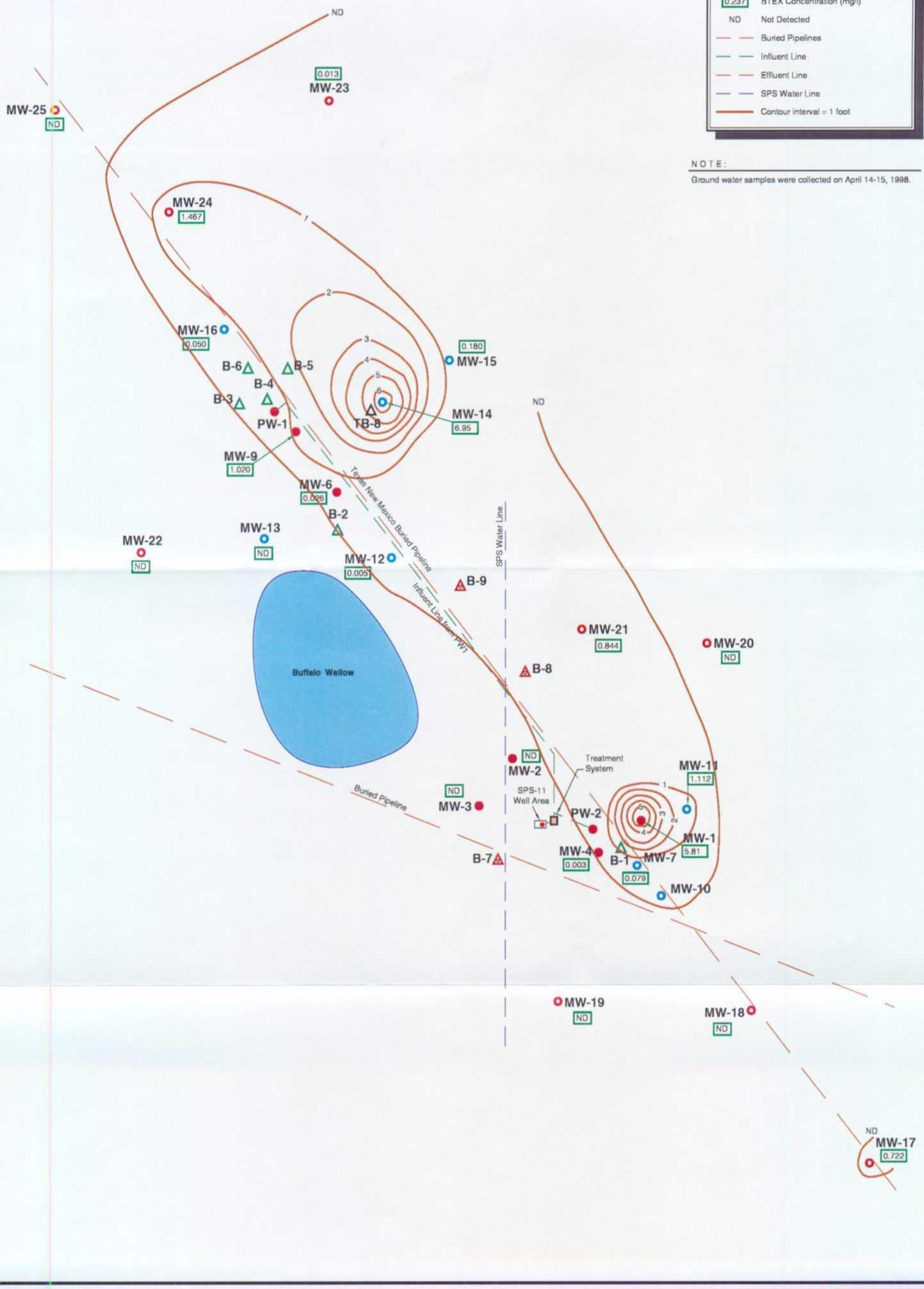
0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.237 BTEX Concentration (mg/l)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour interval = 1 foot

NOTE:

Ground water samples were collected on April 14-15, 1998.



05/06/98-JB G:\SADFT\PROJECT\3.TNMPL\610099.MONITOR\BTX-AP.fh9

k·e·i	*BTEX ISOPLETH MAP - APRIL 1998*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 3

ANALYTICAL REPORT 1-81391

for

K.E.I. Consultants, Inc.

Project Manager: Theresa Nix

Project Name: SPS-11

Project Id: 610099-1-0-0

April 21, 1998

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories

11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio - Latin America

April 21, 1998

Project Manager: Theresa Nix
K.E.I. Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: **XENCO Report No.: 1-81391**
Project Name: SPS-11
Project ID: 610099-1-0-0
Project Address: Lea County, NM

Dear Theresa Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-81391. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-81391 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie Yonemoto, Ph.D.
Technical Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-81391

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0 | ***Project Name: SPS-11*** | **Date Received in Lab :** Apr 16, 1998 09:30

Project Manager: Theresa Nix | **Date Report Faxed:** Apr 21, 1998

Project Location: Lea County, NM | **XENCO contact :** Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	181391 001		181391 002		181391 003		181391 004		181391 005		181391 006	
	Field ID:	MW-1		MW-2		MW-3		MW-4		MW-6		MW-7	
	Depth:												
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	04/15/98 07:17		04/15/98 07:41		04/15/98 07:30		04/15/98 07:05		04/14/98 14:30		04/15/98 06:55	
BTEX EPA 8020	*Analyzed:*	04/17/98	R.L.	04/16/98	R.L.	04/16/98	R.L.	04/16/98	R.L.	04/16/98	R.L.	04/16/98	R.L.
	Units:	ppm		ppm		ppm		ppm		ppm		ppm	
Benzene		4.36	(0.02)	< 0.001	(0.001)	< 0.001	(0.001)	0.003	(0.001)	0.026	(0.001)	0.053	(0.001)
Toluene		0.07	(0.02)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	0.013	(0.001)
Ethylbenzene		1.06	(0.02)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	0.006	(0.001)
m,p-Xylenes		0.24	(0.04)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	0.004	(0.002)
o-Xylene		0.08	(0.02)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	< 0.001	(0.001)	0.003	(0.001)
Total BTEX		5.81		N.D.		N.D.		0.003		0.026		0.079	

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-81391

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: *SPS-11*
Project Manager: Theresa Nix
Project Location: Lea County, NM

Date Received in Lab : Apr 16, 1998 09:30
Date Report Faxed: Apr 21, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	181391 007 MW-9 Liquid 04/14/98 14:03	181391 008 MW-11 Liquid 04/14/98 12:06	181391 009 MW-12 Liquid 04/15/98 08:04	181391 010 MW-13 Liquid 04/15/98 08:20	181391 011 MW-14 Liquid 04/14/98 13:50	181391 012 MW-15 Liquid 04/14/98 13:40
BTEX EPA 8020	Analyzed: / Units:	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.
Benzene		0.912 (0.004)	1.112 (0.004)	0.002 (0.001)	< 0.001 (0.001)	5.46 (0.02)	0.180 (0.001)
Toluene		< 0.004 (0.004)	< 0.004 (0.004)	0.001 (0.001)	< 0.001 (0.001)	< 0.02 (0.02)	< 0.001 (0.001)
Ethylbenzene		0.108 (0.004)	< 0.004 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	1.22 (0.02)	< 0.001 (0.001)
m,p-Xylenes		< 0.008 (0.008)	< 0.008 (0.008)	0.002 (0.002)	< 0.002 (0.002)	0.14 (0.04)	< 0.002 (0.002)
o-Xylene		< 0.004 (0.004)	< 0.004 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	0.13 (0.02)	< 0.001 (0.001)
Total BTEX		1.020	1.112	0.005	N.D.	6.95	0.180

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-81391

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: SPS-11
Project Manager: Theresa Nix
Project Location: Lea County, NM

Date Received in Lab : Apr 16, 1998 09:30
Date Report Faxed: Apr 21, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	181391 013 MW-16 Liquid 04/14/98 13:22	181391 014 MW-17 Liquid 04/14/98 11:10	181391 015 MW-18 Liquid 04/14/98 11:25	181391 016 MW-19 Liquid 04/14/98 11:35	181391 017 MW-20 Liquid 04/14/98 12:18	181391 018 MW-21 Liquid 04/14/98 12:28
BTEX **EPA 8020**	*Analyzed:* / *Units:*	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.	04/17/98 ppm R.L.
Benzene		0.015 (0.001)	0.247 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.844 (0.004)
Toluene		0.024 (0.001)	0.278 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
Ethylbenzene		0.005 (0.001)	0.089 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
m,p-Xylenes		0.004 (0.002)	0.080 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.008 (0.008)
o-Xylene		0.002 (0.001)	0.028 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
Total BTEX		0.050	0.722	N.D.	N.D.	N.D.	0.844

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XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-81391

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0 | ***Project Name: SPS-11*** | **Date Received in Lab :** Apr 16, 1998 09:30

Project Manager: Theresa Nix | **Date Report Faxed:** Apr 21, 1998

Project Location: Lea County, NM | **XENCO contact :** Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	181391 019	181391 020	181391 021	181391 022		
	Field ID:	MW-22	MW-23	MW-24	MW-25		
	Depth:						
	Matrix:	Liquid	Liquid	Liquid	Liquid		
	Sampled:	04/15/98 08:45	04/14/98 13:08	04/14/98 12:57	04/14/98 12:44		
BTEX	*Analyzed:*	04/17/98	04/17/98	04/17/98	04/17/98		
EPA 8020	*Units:*	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.		
Benzene		< 0.001 (0.001)	0.001 (0.001)	1.192 (0.004)	< 0.001 (0.001)		
Toluene		< 0.001 (0.001)	0.004 (0.001)	0.074 (0.004)	< 0.001 (0.001)		
Ethylbenzene		< 0.001 (0.001)	0.002 (0.001)	0.152 (0.004)	< 0.001 (0.001)		
m,p-Xylenes		< 0.002 (0.002)	0.004 (0.002)	0.039 (0.008)	< 0.002 (0.002)		
o-Xylene		< 0.001 (0.001)	0.002 (0.001)	0.010 (0.004)	< 0.001 (0.001)		
Total BTEX		N.D.	0.013	1.467	N.D.		

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25B20

SW- 846 5030/8020 BTEX

Date Validated: Apr 19, 1998 19:00
Date Analyzed: Apr 16, 1998 18:39
QA/QC Manager: Sunil Ajai, M.S.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.0911	0.0971	0.1000	0.0010	20.0	6.4	91.1	97.1	65-135	
Toluene	< 0.0010	0.0959	0.0985	0.1000	0.0010	20.0	2.7	95.9	98.5	65-135	
Ethylbenzene	< 0.0010	0.0956	0.1010	0.1000	0.0010	20.0	5.5	95.6	101.0	65-135	
m,p-Xylenes	< 0.0020	0.1980	0.2100	0.2000	0.0020	20.0	5.9	99.0	105.0	65-135	
o-Xylene	< 0.0010	0.0967	0.1030	0.1000	0.0010	20.0	6.3	96.7	103.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward T. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25B22

SW- 846 5030/8020 BTEX

Date Validated: Apr 19, 1998 19:30
Date Analyzed: Apr 17, 1998 09:45
QA/QC Manager: Sunil Ajai, M.S.

Analyst: HL
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Duplicate Result ppm	[D] Blank Spike Amount ppm	[E] Detection Limit ppm	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.0944	0.0948	0.1000	0.0010	20.0	0.4	94.4	94.8	65-135	
Toluene	< 0.0010	0.1110	0.0975	0.1000	0.0010	20.0	12.9	110.8	97.5	65-135	
Ethylbenzene	< 0.0010	0.1060	0.0978	0.1000	0.0010	20.0	8.0	105.9	97.8	65-135	
m,p-Xylenes	< 0.0020	0.2210	0.2050	0.2000	0.0020	20.0	7.5	110.4	102.4	65-135	
o-Xylene	< 0.0010	0.1080	0.1010	0.1000	0.0010	20.0	6.7	107.9	100.9	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25B22

SW- 846 5030/8020 BTEX

Date Validated: Apr 19, 1998 19:30
Date Analyzed: Apr 17, 1998 10:43
QA/QC Manager: Sunil Ajai, M.S.

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 181391- 009	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	0.0022	0.1010	0.1020	0.1000	0.0010	20.0	1.0	98.8	99.8	65-135	
Toluene	0.0012	0.1040	0.1050	0.1000	0.0010	20.0	1.0	102.8	103.8	65-135	
Ethylbenzene	< 0.0010	0.1050	0.1050	0.1000	0.0010	20.0	0.0	105.0	105.0	65-135	
m,p-Xylenes	< 0.0020	0.2200	0.2200	0.2000	0.0020	20.0	0.0	110.0	110.0	65-135	
o-Xylene	< 0.0010	0.1080	0.1090	0.1000	0.0010	20.0	0.9	108.0	109.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Manager: Theresa Nix
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-81391
Date Received in Lab: Apr 16, 1998 09:30 by LY
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-1	181391-001	BTEX	SW-846	ppm	3 days	Apr 15, 1998 07:17		Apr 17, 1998 by HL	Apr 17, 1998 17:34 by HL
2	MW-2	181391-002	BTEX	SW-846	ppm	3 days	Apr 15, 1998 07:41		Apr 16, 1998 by HL	Apr 16, 1998 20:34 by HL
3	MW-3	181391-003	BTEX	SW-846	ppm	3 days	Apr 15, 1998 07:30		Apr 16, 1998 by HL	Apr 16, 1998 21:51 by HL
4	MW-4	181391-004	BTEX	SW-846	ppm	3 days	Apr 15, 1998 07:05		Apr 16, 1998 by HL	Apr 16, 1998 21:13 by HL
5	MW-6	181391-005	BTEX	SW-846	ppm	3 days	Apr 14, 1998 14:30		Apr 16, 1998 by HL	Apr 16, 1998 21:32 by HL
6	MW-7	181391-006	BTEX	SW-846	ppm	3 days	Apr 15, 1998 06:55		Apr 16, 1998 by HL	Apr 16, 1998 20:53 by HL
7	MW-9	181391-007	BTEX	SW-846	ppm	3 days	Apr 14, 1998 14:03		Apr 17, 1998 by HL	Apr 17, 1998 16:12 by HL
8	MW-11	181391-008	BTEX	SW-846	ppm	3 days	Apr 14, 1998 12:06		Apr 17, 1998 by HL	Apr 17, 1998 19:37 by HL
9	MW-12	181391-009	BTEX	SW-846	ppm	3 days	Apr 15, 1998 08:04		Apr 17, 1998 by HL	Apr 17, 1998 10:43 by HL
10	MW-13	181391-010	BTEX	SW-846	ppm	3 days	Apr 15, 1998 08:20		Apr 17, 1998 by HL	Apr 17, 1998 11:59 by HL
11	MW-14	181391-011	BTEX	SW-846	ppm	3 days	Apr 14, 1998 13:50		Apr 17, 1998 by HL	Apr 17, 1998 19:17 by HL
12	MW-15	181391-012	BTEX	SW-846	ppm	3 days	Apr 14, 1998 13:40		Apr 17, 1998 by HL	Apr 17, 1998 12:19 by HL
13	MW-16	181391-013	BTEX	SW-846	ppm	3 days	Apr 14, 1998 13:22		Apr 17, 1998 by HL	Apr 17, 1998 12:38 by HL
14	MW-17	181391-014	BTEX	SW-846	ppm	3 days	Apr 14, 1998 11:10		Apr 17, 1998 by HL	Apr 17, 1998 12:57 by HL
15	MW-18	181391-015	BTEX	SW-846	ppm	3 days	Apr 14, 1998 11:25		Apr 17, 1998 by HL	Apr 17, 1998 13:17 by HL
16	MW-19	181391-016	BTEX	SW-846	ppm	3 days	Apr 14, 1998 11:35		Apr 17, 1998 by HL	Apr 17, 1998 13:36 by HL
17	MW-20	181391-017	BTEX	SW-846	ppm	3 days	Apr 14, 1998 12:18		Apr 17, 1998 by HL	Apr 17, 1998 13:56 by HL
18	MW-21	181391-018	BTEX	SW-846	ppm	3 days	Apr 14, 1998 12:28		Apr 17, 1998 by HL	Apr 17, 1998 18:39 by HL
19	MW-22	181391-019	BTEX	SW-846	ppm	3 days	Apr 15, 1998 08:45		Apr 17, 1998 by HL	Apr 17, 1998 14:54 by HL
20	MW-23	181391-020	BTEX	SW-846	ppm	3 days	Apr 14, 1998 13:08		Apr 17, 1998 by HL	Apr 17, 1998 15:13 by HL
21	MW-24	181391-021	BTEX	SW-846	ppm	3 days	Apr 14, 1998 12:57		Apr 17, 1998 by HL	Apr 17, 1998 18:58 by HL
22	MW-25	181391-022	BTEX	SW-846	ppm	3 days	Apr 14, 1998 12:44		Apr 17, 1998 by HL	Apr 17, 1998 15:52 by HL

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

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Lab. Batch # 181391-SA

Contractor: K.E.I. Consultants Phone: (210) 680-3767

Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238

Project Name: SPS-11 Project Director: Mike Hawthorne

Project Location: Lea County, NM Project Manager: Theresa Nix

Sampler Signature: Stanley Sawyer Project No.: 610099-1-0-0

No. coolers this shipment: Carrier: UPS Airbill No.

Contractor COC # Quote #: P.O. No.: CALL T. NIX FOR P.O.

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	No of Containers Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Remarks	Lab ID #
1	MW-1	15 Apr 98	7:17			/		/	40mL		/	HCl	2	/			Please call Theresa Nix for Analysis.	1
2	MW-2	15 Apr 98	7:41														"	2
3	MW-3	15 Apr 98	7:30														"	3
4	MW-4	15 Apr 98	7:05														"	4
5	MW-6	14 Apr 98	14:30														"	5
6	MW-7	15 Apr 98	6:55														"	6
7	MW-9	14 Apr 98	14:03														"	7
8	MW-11	14 Apr 98	12:06														"	8
9	MW-12	15 Apr 98	8:04														"	9
10	MW-13	15 Apr 98	8:20			↓		↓	↓		↓	↓	↓	↓			"	10

Unl Dies Ker Unknown
Waste Oil
PIT No: Tank No:
Sample Description

Turn-around
* ASAP
* 24 hrs
48 hrs
Standard

LAB ONLY

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Sawyer	4/15/98	1300			
			Received For Laboratory by: UPS	4/16/98	930

Remarks
Fax Analytical Results to Theresa Nix 210-680-3763
• BTEX: EPA METHOD 5030/8020C

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 181391-8A

Contractor: K.E.I. Consultants Phone: (210) 680-3767

Address: 5309 Wurzbach, Suite 100 San Antonio, TX 78238

Project Name: SRS-11 Project Director: Mike Hawthorne

Project Location: Lea County, NM Project Manager: Theresa Nix

Sampler Signature: Stanley Stevens Project No.: 610099-1-0-0

No. coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No.: CALL T. NIX FOR PO

SAMPLE CHARACTERIZATION

Preservative: Ice, Other

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Ice	Other	Sample Description	No of Containers Total	5W-846-8020 BTEX (8260/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1	MW-14	14 Apr 98	13:50			/		/	40ml		/	HCl		2	/			Please Call Theresa Nix for Analysis	1
2	MW-15	14 Apr 98	13:40															"	2
3	MW-16	14 Apr 98	13:22															"	3
4	MW-17	14 Apr 98	11:10															"	4
5	MW-18	14 Apr 98	11:25															"	5
6	MW-19	14 Apr 98	11:35															"	6
7	MW-20	14 Apr 98	12:18															"	7
8	MW-21	14 Apr 98	12:28															"	8
9	MW-22	15 Apr 98	8:15															"	9
10	MW-23	14 Apr 98	13:08			↓		↓	↓		↓	↓		↓	↓	↓		"	10

Turn-around: * ASAP * 24 hrs 48 hrs Standard

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Stevens	4-15-98	1300			
			Received For Laboratory by: UPS L Yorkey	4/16/98	930

Remarks: Please Fax Analytical Results To Theresa Nix: 210-680-3763

* BTEX: EDA METHOD SW846-8020

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 3 of 3

Lab. Batch # 181391-8A

Contractor: K·e·i Consultants Phone: (210) 680-3767

Address: 5309 Wurzbach, Suite 100, San Antonio, TX 78238

Project Name: SPS-11 Project Director: Mike Hawthorne

Project Location: Lea County, NM Project Manager: Theresa Nix

Sampler Signature: Project No.: 610099-1-0-0

No. coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No.: CALL T. NIX FOR P.O

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	SW846-8020 BTEX (EPA 602/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1	MW-24	14 APR 98	12:57			/		/	40 ml		/	HCl		2	/			Please call Theresa Nix for analyses	1
2	MW-25	14 APR 98	12:44			/		/	40 mL		/	HCl		2	/			"	2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10

Turn-around: ASAP · 24 hrs · 48 hrs · (Standard)

SAMPLE CHARACTERIZATION: Soil / Water / Comp / Grab

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	4-15-98	1300			
			Received For Laboratory by: UPS	4/16/98	920

Remarks

Fax Analytical Results to Theresa Nix @ 210-680-3763

• BTEX EPA METHOD SW 846-8020

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

5309 Wurzbach, Suite 100
San Antonio, Texas 78238
(210) 680-3767
(210) 680-3763 FAX

October 29, 1998

Mr. Tony Savoie
TEXAS - NEW MEXICO PIPE LINE COMPANY
P. O. Box 1030
Jal, New Mexico 88252

RECEIVED
DEC 07 1998
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Re: Groundwater Monitoring Event
Texas - New Mexico Pipe Line Company
SPS-11
Section 18, Township 18 South, Range 36 East
Lea County, New Mexico
Job No. 610099-1

Dear Mr. Savoie:

Transmitted with this letter is the ground water binder update packet for the third quarter of 1998 ground water monitoring event conducted at SPS-11 located in Lea County, New Mexico. A copy has been submitted to the OCD Hobbs and Santa Fe offices.

The packet contains the following:

- Revised Table of Contents
- Updated gauging tables and general notes
- Updated ground water laboratory results tables
- Updated figures
- A copy of the laboratory ground water results and chain-of-custody documentation
- A dated "tab" for the new event

Please remove and replace the former Table of Contents and tables. Add the new dated tab and place the updated figures, laboratory reports, and chain-of-custody documentation behind this tab.

Please call me at (210) 680-3767 if you have any questions or comments.

Respectfully,

Theresa Nix

Theresa Nix
Project Manager

Enclosure

cc: Marc Oler, Equilon
OCD Hobbs
OCD Santa Fe, William Olson
J. Michael Hawthorne, KEI

tln\p:\tnmp\\610099\monitor\cgwb3q98.doc

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TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-1	04/10/92	4.92	2.06	1.20	1.13	9.31
MW-1	10/15/96	6.445	1.132	1.184	0.913	9.674
MW-1	05/01/97	7.788	0.778	1.282	0.810	10.658
MW-1	08/28/97	3.76	0.25	0.63	0.45	5.09
MW-1	11/17/97	11.8	2.5	2.2	1.4	17.9
MW-1	01/21/98	7.54	1.11	1.76	1.59	12.00
MW-1	04/15/98	4.36	0.07	1.06	0.32	5.810
MW-1	07/11/98	1.31	0.11	0.420	0.105	1.948
MW-2	04/10/92	0.005	0.014	ND	ND	0.019
MW-2	10/15/96	ND	ND	ND	ND	ND
MW-2	05/01/97	ND	ND	ND	ND	ND
MW-2	08/28/97	ND	ND	ND	ND	ND
MW-2	11/17/97	ND	ND	ND	ND	ND
MW-2	01/21/98	ND	ND	ND	ND	ND
MW-2	04/15/98	ND	ND	ND	ND	ND
MW-2	07/11/98	ND	ND	ND	ND	ND
MW-3	04/10/92	ND	0.010	ND	ND	0.010
MW-3	10/15/96	0.003	ND	ND	ND	0.003
MW-3	05/01/97	ND	ND	ND	0.001	0.001
MW-3	08/28/97	ND	ND	ND	ND	ND
MW-3	11/17/97	ND	ND	ND	ND	ND
MW-3	01/21/98	ND	ND	ND	ND	ND
MW-3	04/15/98	ND	ND	ND	ND	ND
MW-3	07/11/98	ND	ND	ND	ND	ND
MW-4	04/10/92	ND	0.008	ND	ND	0.008
MW-4	10/15/96	0.005	ND	ND	ND	0.005
MW-4	05/01/97	ND	ND	ND	ND	ND
MW-4	08/28/97	0.009	ND	ND	ND	0.009
MW-4	11/17/97	0.002	ND	ND	ND	0.002
MW-4	01/21/98	ND	ND	ND	ND	ND
MW-4	04/15/98	0.003	ND	ND	ND	0.003
MW-4	07/11/98	0.003	ND	0.001	ND	0.004

TABLE I
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-6	04/10/92	0.130	0.011	ND	ND	0.141
MW-6	10/15/96	0.210	0.002	0.021	0.006	0.239
MW-6	05/01/97	ND	0.001	0.002	0.004	0.007
MW-6	08/28/97	0.082	ND	0.002	0.003	1.038
MW-6	11/17/97	0.141	ND	0.006	0.005	0.152
MW-6	01/22/98	ND	ND	ND	ND	ND
MW-6	04/14/98	0.026	ND	ND	ND	0.026
MW-6	07/11/98	0.005	ND	ND	ND	0.005
MW-7	04/10/92	1.590	0.590	0.470	0.310	2.960
MW-7	10/15/96	0.211	0.016	0.095	0.066	0.388
MW-7	05/01/97	0.368	0.034	0.206	0.124	0.732
MW-7	08/28/97	0.502	0.064	0.302	0.170	1.038
MW-7	11/17/97	0.288	0.014	ND	0.159	0.461
MW-7	01/21/98	0.154	0.013	0.045	0.014	0.226
MW-7	04/15/98	0.053	0.013	0.006	0.007	0.079
MW-7	07/11/98	0.038	0.021	0.017	0.014	0.090
MW-9	04/10/92	5.270	4.650	1.380	1.660	12.960
MW-9	10/15/96	4.224	0.056	1.252	0.865	6.397
MW-9	05/01/97	6.180	0.019	2.056	1.383	9.638
MW-9	08/28/97	2.930	ND	0.930	0.360	4.220
MW-9	11/17/97	2.5	0.2	0.7	0.5	3.9
MW-9	01/22/98	1.692	0.015	0.836	0.523	3.066
MW-9	04/14/98	0.912	ND	0.108	ND	1.020
MW-9	07/11/98	0.412	ND	0.080	ND	0.492
MW-10	05/01/97	0.184	0.292	0.124	0.180	0.776
MW-10	08/28/97	0.123	0.146	0.162	0.158	0.589
MW-10	11/17/97	0.143	0.203	0.165	0.153	0.664
MW-10	07/11/98	0.083	0.030	0.014	0.024	0.151
MW-11	05/01/97	1.177	ND	0.011	0.027	1.215
MW-11	08/28/97	2.74	ND	0.11	0.04	2.89
MW-11	11/17/97	3.32	ND	ND	ND	3.32

TABLE I
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-11	01/21/98	2.116	ND	0.004	ND	2.120
MW-11	04/14/98	1.112	ND	ND	ND	1.112
MW-11	07/11/98	0.458	0.001	ND	ND	0.459
MW-12	05/01/97	ND	0.003	0.001	0.027	0.031
MW-12	08/28/97	0.099	0.032	0.030	0.043	0.204
MW-12	11/17/97	0.237	0.088	0.047	0.106	0.478
MW-12	01/22/98	0.173	ND	0.035	0.021	0.229
MW-12	04/15/98	0.002	0.001	ND	0.002	0.005
MW-12	07/11/98	0.088	0.028	0.018	0.027	0.161
MW-13	05/01/97	ND	ND	ND	ND	ND
MW-13	08/28/97	ND	ND	ND	ND	ND
MW-13	11/17/97	ND	ND	ND	ND	ND
MW-13	01/22/98	ND	ND	ND	ND	ND
MW-13	04/15/98	ND	ND	ND	ND	ND
MW-13	07/11/98	ND	ND	ND	ND	ND
MW-14	05/01/97	9.639	2.414	2.626	2.769	17.448
MW-14	08/28/97	8.62	2.04	1.91	2.04	14.61
MW-14	11/17/97	7.76	2.36	ND	1.67	11.79
MW-14	01/22/98	11.2	1.50	2.40	1.60	16.700
MW-14	04/14/98	5.46	ND	1.22	0.27	6.950
MW-14	07/11/98	6.70	0.10	0.83	0.28	7.910
MW-15	05/01/97	0.004	0.002	0.002	0.003	0.011
MW-15	08/28/97	0.441	ND	ND	ND	0.441
MW-15	11/17/97	0.063	ND	ND	ND	0.063
MW-15	01/22/98	0.237	ND	ND	ND	0.237
MW-15	04/14/98	0.180	ND	ND	ND	0.180
MW-15	07/11/98	ND	ND	ND	ND	ND
MW-16	05/01/97	0.101	0.090	0.015	0.012	0.218
MW-16	08/28/97	0.112	0.119	0.060	0.036	0.327
MW-16	11/17/97	0.053	0.061	0.021	0.035	0.170
MW-16	01/22/98	ND	ND	ND	ND	ND

TABLE I
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-16	04/14/98	0.015	0.024	0.005	0.006	0.050
MW-16	07/11/98	0.035	0.044	0.012	0.011	0.102
MW-17	01/21/98	0.158	0.156	0.026	0.040	0.380
MW-17	04/14/98	0.247	0.278	0.089	0.108	0.722
MW-17	07/11/98	0.086	0.069	0.010	0.079	0.244
MW-18	01/21/98	ND	ND	ND	ND	ND
MW-18	04/14/98	ND	ND	ND	ND	ND
MW-18	07/11/98	ND	ND	ND	ND	ND
MW-19	01/21/98	ND	ND	ND	ND	ND
MW-19	04/14/98	ND	ND	ND	ND	ND
MW-19	07/11/98	ND	ND	ND	ND	ND
MW-20	01/22/98	ND	ND	ND	ND	ND
MW-20	04/14/98	ND	ND	ND	ND	ND
MW-20	07/11/98	ND	ND	ND	ND	ND
MW-21	01/22/98	0.932	ND	ND	ND	0.932
MW-21	04/14/98	0.844	ND	ND	ND	0.844
MW-21	07/11/98	0.275	ND	ND	ND	0.275
MW-22	01/22/98	ND	ND	ND	ND	ND
MW-22	04/15/98	ND	ND	ND	ND	ND
MW-22	07/11/98	ND	ND	ND	ND	ND
MW-23	01/22/98	ND	ND	ND	ND	ND
MW-23	04/14/98	0.001	0.004	0.002	0.006	0.013
MW-23	07/11/98	ND	ND	ND	ND	ND
MW-24	01/22/98	1.40	0.23	0.15	0.11	1.890
MW-24	04/14/98	1.192	0.074	0.152	0.049	1.467
MW-24	07/11/98	0.370	0.018	0.041	0.011	0.440
MW-25	01/22/98	ND	ND	ND	ND	ND

TABLE I
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-25	04/14/98	ND	ND	ND	ND	ND
MW-25	07/11/98	ND	ND	ND	ND	ND
PW-1	10/15/96	0.007	ND	ND	ND	0.007
PW-2	05/07/92	0.048	0.054	0.022	0.024	0.148
PW-2	10/15/96	ND	0.001	0.001	0.013	0.015

TABLE I
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - TPH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	TPH (mg/l)
MW-1	10/15/96	4
MW-2	10/15/96	ND
MW-3	10/15/96	ND
MW-4	10/15/96	ND
MW-6	10/15/96	ND
MW-7	10/15/96	2.000
MW-9	10/15/96	17.000
PW-1	10/15/96	ND
PW-2	10/15/96	ND

TABLE II

SUMMARY OF GROUND WATER LABORATORY RESULTS - PAH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97
PARAMETER:	CONCENTRATION (mg/l)													
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.012	ND	ND	ND	ND	0.009	0.031	ND	ND	ND	ND	0.061	0.002	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - RCRA METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97
PARAMETER:	CONCENTRATION (mg/l)													
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.81	0.17	0.17	0.10	0.17	0.90	0.68	0.67	0.41	0.28	0.29	0.85	0.21	0.19
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	0.30	ND	ND	ND	ND	ND	0.07	ND	ND	0.08	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - ICP METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97
PARAMETER:	CONCENTRATION (mg/l)													
Aluminum	ND	ND	ND	ND	0.51	ND	ND	ND	0.26	ND	ND	ND	ND	0.24
Barium	1.06	0.19	0.080	0.088	0.16	0.80	0.45	0.40	0.16	0.18	0.12	0.12	0.14	0.16
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	116	102	59.4	66.7	116	113	129	154	149	140	119	204	127	126
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	0.24	0.29	ND	ND	0.48	3.55	6.72	0.55	0.76	ND	ND	0.59	ND	0.15
Magnesium	40.3	16.7	6.71	8.44	15.9	34.4	34.1	33.0	15.6	19.1	9.35	44.3	15.5	13.5
Manganese	0.31	ND	ND	ND	ND	0.32	0.38	0.16	0.14	ND	ND	0.25	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silicon	17.7	18.3	11.9	10.4	13.2	10.4	11.4	11.5	22.9	23.4	21.2	25.9	24.2	23.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	0.89	0.60	0.33	0.32	0.52	0.55	0.57	0.52	0.73	0.85	0.56	1.20	0.77	0.69
Tin	ND	ND	ND	ND	ND	0.74	1.48	ND	0.33	ND	ND	0.26	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.22	0.23

TABLE IV

MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.61	55.37	3792.24	---	---
07/13/92	3847.61	55.93	3791.68	---	---
10/15/96	3859.20	54.96	3804.24	---	---
05/01/97	3859.20	55.20	3804.00	---	---
08/27/97	3859.20	55.28	3803.92	---	---
10/16/97	3859.20	56.55	3802.65	---	---
10/17/97	3859.20	56.64	3802.56	---	---
10/18/97	3859.20	56.72	3802.48	---	---
10/19/97	3859.20	56.79	3802.41	---	---
10/20/97	3859.20	56.87	3802.33	---	---
10/22/97	3859.20	57.00	3802.20	---	---
10/29/97	3859.20	57.11	3802.09	---	---
11/05/97	3859.20	56.77	3802.43	---	---
11/12/97	3859.20	57.00	3802.20	---	---
11/17/97	3859.20	57.33	3801.87	---	---
11/19/97	3859.20	57.34	3801.86	---	---
12/08/97	3859.20	57.59	3801.61	---	---
01/07/98	3859.20	56.81	3802.39	---	---
01/21/98	3859.08	57.69	3801.39	---	---
02/12/98	3859.08	57.83	3801.25	---	---
03/23/98	3859.08	56.92	3802.16	---	---
04/13/98	3859.08	57.02	3802.06	---	---
04/20/98	3859.08	56.41	3802.67	---	---
04/27/98	3859.08	56.29	3802.79	---	---
05/04/98	3859.08	56.21	3802.87	---	---
05/11/98	3859.08	57.48	3801.60	---	---
05/18/98	3859.08	57.59	3801.49	---	---
05/26/98	3859.08	56.69	3802.39	---	---
06/02/98	3859.08	56.98	3802.10	---	---
06/08/98	3859.08	57.02	3802.06	---	---
06/15/98	3859.08	56.64	3802.44	---	---
06/22/98	3859.08	56.36	3802.72	---	---
06/29/98	3859.08	56.27	3802.81	---	---
07/10/98	3859.08	56.23	3802.85	---	---
07/14/98	3859.08	56.32	3802.76	---	---

TABLE IV
(continued)

MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3859.08	56.48	3802.60	---	---
07/27/98	3859.08	57.17	3801.91	---	---
08/04/98	3859.08	57.53	3801.55	---	---
08/10/98	3859.08	56.48	3802.60	---	---
08/18/98	3859.08	56.48	3802.60	---	---
08/26/98	3859.08	56.41	3802.67	---	---
09/02/98	3859.08	56.32	3802.76	---	---
09/10/98	3859.08	56.23	3802.85	---	---
09/18/98	3859.08	56.18	3802.90	---	---
09/24/98	3859.08	56.59	3802.49	---	---

TABLE IV
(continued)

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3848.68	56.06	3792.62	---	---
07/13/92	3848.68	56.43	3792.25	---	---
10/15/96	3860.90	55.65	3805.25	---	---
05/01/97	3860.90	55.85	3805.05	---	---
08/27/97	3860.90	56.22	3804.68	---	---
10/16/97	3860.90	56.80	3804.10	---	---
10/17/97	3860.90	56.86	3804.04	---	---
10/18/97	3860.90	56.93	3803.97	---	---
10/19/97	3860.90	56.98	3803.92	---	---
10/20/97	3860.90	57.04	3803.86	---	---
10/22/97	3860.90	57.11	3803.79	---	---
10/29/97	3860.90	57.21	3803.69	---	---
11/05/97	3860.90	57.01	3803.89	---	---
11/12/97	3860.90	57.16	3803.74	---	---
11/17/97	3860.90	57.64	3803.26	---	---
11/19/97	3860.90	57.66	3803.24	---	---
12/08/97	3860.90	57.69	3803.21	---	---
01/07/98	3860.90	57.36	3803.54	---	---
01/21/98	3860.76	57.84	3802.92	---	---
02/12/98	3860.76	57.99	3802.77	---	---
03/23/98	3860.76	57.21	3803.55	---	---
04/13/98	3860.76	57.29	3803.47	---	---
04/20/98	3860.76	57.03	3803.73	---	---
04/27/98	3860.76	57.00	3803.76	---	---
05/04/98	3860.76	56.94	3803.82	---	---
05/11/98	3860.76	57.76	3803.00	---	---
05/18/98	3860.76	57.83	3802.93	---	---
05/26/98	3860.76	57.21	3803.55	---	---
06/02/98	3860.76	57.37	3803.39	---	---
06/08/98	3860.76	57.64	3803.12	---	---
06/15/98	3860.76	57.27	3803.49	---	---
06/22/98	3860.76	57.03	3803.73	---	---
06/29/98	3860.76	56.94	3803.82	---	---
07/10/98	3860.76	57.14	3803.62	---	---
07/14/98	3860.76	56.95	3803.81	---	---

TABLE IV
(continued)

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3860.76	57.12	3803.64	---	---
07/27/98	3860.76	57.47	3803.29	---	---
08/04/98	3860.76	57.79	3802.97	---	---
08/10/98	3860.76	57.44	3803.32	---	---
08/18/98	3860.76	57.14	3803.62	---	---
08/26/98	3860.76	57.07	3803.69	---	---
09/02/98	3860.76	57.01	3803.75	---	---
09/10/98	3860.76	56.92	3803.84	---	---
09/18/98	3860.76	56.85	3803.91	---	---
09/24/98	3860.76	56.98	3803.78	---	---

TABLE IV
(continued)

MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.23	56.48	3792.75	---	---
07/13/92	3849.23	56.86	3792.37	---	---
10/15/96	3861.30	56.07	3805.23	---	---
05/01/97	3861.30	56.28	3805.02	---	---
08/27/97	3861.30	56.57	3804.73	---	---
10/16/97	3861.30	57.30	3804.00	---	---
10/17/97	3861.30	57.36	3803.94	---	---
10/18/97	3861.30	57.42	3803.88	---	---
10/19/97	3861.30	57.48	3803.82	---	---
10/20/97	3861.30	57.53	3803.77	---	---
10/22/97	3861.30	57.63	3803.67	---	---
10/29/97	3861.30	57.72	3803.58	---	---
11/05/97	3861.30	57.48	3803.82	---	---
11/12/97	3861.30	57.64	3803.66	---	---
11/17/97	3861.30	58.07	3803.23	---	---
11/19/97	3861.30	58.07	3803.23	---	---
12/08/97	3861.30	58.25	3803.05	---	---
01/07/98	3861.30	57.79	3803.51	---	---
01/21/98	3861.15	58.34	3802.81	---	---
02/12/98	3861.15	58.47	3802.68	---	---
03/23/98	3861.15	57.66	3803.49	---	---
04/13/98	3861.15	57.73	3803.42	---	---
04/20/98	3861.15	57.41	3803.74	---	---
04/27/98	3861.15	57.39	3803.76	---	---
05/04/98	3861.15	57.33	3803.82	---	---
05/11/98	3861.15	58.24	3802.91	---	---
05/18/98	3861.15	58.31	3802.84	---	---
05/26/98	3861.15	57.63	3803.52	---	---
06/02/98	3861.15	57.79	3803.36	---	---
06/08/98	3861.15	58.08	3803.07	---	---
06/15/98	3861.15	57.70	3803.45	---	---
06/22/98	3861.15	57.44	3803.71	---	---
06/29/98	3861.15	57.36	3803.79	---	---
07/10/98	3861.15	57.52	3803.63	---	---
07/14/98	3861.15	57.39	3803.76	---	---

TABLE IV
(continued)

MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3861.15	57.53	3803.62	---	---
07/27/98	3861.15	57.96	3803.19	---	---
08/04/98	3861.15	58.27	3802.88	---	---
08/10/98	3861.15	57.84	3803.31	---	---
08/18/98	3861.15	57.55	3803.60	---	---
08/26/98	3861.15	57.50	3803.65	---	---
09/02/98	3861.15	57.71	3803.44	---	---
09/10/98	3861.15	57.34	3803.81	---	---
09/18/98	3861.15	57.27	3803.88	---	---
09/24/98	3861.15	57.46	3803.69	---	---

TABLE IV
(continued)

MONITORING WELL MW-4
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.58	55.36	3792.22	---	---
07/13/92	3847.58	55.83	3791.75	---	---
10/15/96	3859.40	55.14	3804.26	---	---
05/01/97	3859.40	55.27	3804.13	---	---
08/27/97	3859.40	55.44	3803.96	---	---
10/16/97	3859.40	57.44	3801.96	---	---
10/17/97	3859.40	57.54	3801.86	---	---
10/18/97	3859.40	57.59	3801.81	---	---
10/19/97	3859.40	57.69	3801.71	---	---
10/20/97	3859.40	57.75	3801.65	---	---
10/22/97	3859.40	57.86	3801.54	---	---
10/29/97	3859.40	57.93	3801.47	---	---
11/05/97	3859.40	57.28	3802.12	---	---
11/12/97	3859.40	57.72	3801.68	---	---
11/17/97	3859.40	58.05	3801.35	---	---
11/19/97	3859.40	58.06	3801.34	---	---
12/08/97	3859.40	58.22	3801.18	---	---
01/07/98	3859.40	57.15	3802.25	---	---
01/21/98	3859.62	56.38	3803.24	---	---
02/12/98	3859.62	58.50	3801.12	---	---
03/23/98	3859.62	57.40	3802.22	---	---
04/13/98	3859.62	57.51	3802.11	---	---
04/20/98	3859.62	56.55	3803.07	---	---
04/27/98	3859.62	56.46	3803.16	---	---
05/04/98	3859.62	56.39	3803.23	---	---
05/11/98	3859.62	58.26	3801.36	---	---
05/18/98	3859.62	58.33	3801.29	---	---
05/26/98	3859.62	56.76	3802.86	---	---
06/02/98	3859.62	57.27	3802.35	---	---
06/08/98	3859.62	57.30	3802.32	---	---
06/15/98	3859.62	56.84	3802.78	---	---
06/22/98	3859.62	56.55	3803.07	---	---
06/29/98	3859.62	56.44	3803.18	---	---
07/10/98	3859.62	56.33	3803.29	---	---
07/14/98	3859.62	56.64	3802.98	---	---

TABLE IV
(continued)

MONITORING WELL MW-4
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3859.62	56.66	3802.96	---	---
07/27/98	3859.62	57.67	3801.95	---	---
08/04/98	3859.62	58.19	3801.43	---	---
08/10/98	3859.62	56.97	3802.65	---	---
08/18/98	3859.62	56.62	3803.00	---	---
08/26/98	3859.62	56.59	3803.03	---	---
09/02/98	3859.62	56.49	3803.13	---	---
09/10/98	3859.62	56.41	3803.21	---	---
09/18/98	3859.62	56.38	3803.24	---	---
09/24/98	3859.62	56.61	3803.01	---	---

TABLE IV
(continued)

MONITORING WELL MW-5
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/13/92	Unknown	26.48	NA	---	---
10/15/96	Unknown	DRY	NA	---	---

TABLE IV
(continued)

MONITORING WELL MW-6
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3850.28	55.78	3794.50	---	---
07/13/92	3850.28	56.23	3794.05	---	---
10/15/96	3862.70	55.54	3807.16	---	---
05/01/97	3862.70	55.73	3806.97	---	---
08/27/97	3862.70	55.84	3806.86	---	---
10/16/97	3862.70	56.36	3806.34	---	---
10/17/97	3862.70	56.43	3806.27	---	---
10/18/97	3862.70	56.48	3806.22	---	---
10/19/97	3862.70	56.56	3806.14	---	---
10/20/97	3862.70	56.61	3806.09	---	---
10/22/97	3862.70	56.69	3806.01	---	---
10/29/97	3862.70	56.84	3805.86	---	---
11/05/97	3862.70	56.80	3805.90	---	---
11/12/97	3862.70	56.87	3805.83	---	---
11/17/97	3862.70	57.02	3805.68	---	---
11/19/97	3862.70	57.05	3805.65	---	---
12/08/97	3862.70	57.25	3805.45	---	---
01/07/98	3862.70	57.23	3805.47	---	---
01/22/98	3862.47	57.55	3804.92	---	---
02/12/98	3862.47	57.71	3804.76	---	---
03/23/98	3862.47	57.09	3805.38	---	---
04/13/98	3862.47	57.31	3805.16	---	---
04/20/98	3862.47	57.15	3805.32	---	---
04/27/98	3862.47	57.56	3804.91	---	---
05/04/98	3862.47	57.37	3805.10	---	---
05/11/98	3862.47	57.71	3804.76	---	---
05/18/98	3862.47	57.76	3804.71	---	---
05/26/98	3862.47	57.31	3805.16	---	---
06/02/98	3862.47	57.46	3805.01	---	---
06/08/98	3862.47	57.21	3805.26	---	---
06/15/98	3862.47	57.12	3805.35	---	---
06/22/98	3862.47	56.97	3805.50	---	---
06/29/98	3862.47	56.86	3805.61	---	---
07/10/98	3862.47	56.83	3805.64	---	---
07/14/98	3862.47	56.77	3805.70	---	---

TABLE IV
(continued)

MONITORING WELL MW-6
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3862.47	56.99	3805.48	---	---
07/27/98	3862.47	57.33	3805.14	---	---
08/04/98	3862.47	57.64	3804.83	---	---
08/10/98	3862.47	57.37	3805.10	---	---
08/18/98	3862.47	57.06	3805.41	---	---
08/26/98	3862.47	57.04	3805.43	---	---
09/02/98	3862.47	56.94	3805.53	---	---
09/10/98	3862.47	56.85	3805.62	---	---
09/18/98	3862.47	56.79	3805.68	---	---
09/24/98	3862.47	56.87	3805.60	---	---

TABLE IV
(continued)

MONITORING WELL MW-7
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.13	55.65	3791.48	---	---
07/13/92	3847.13	56.15	3790.98	---	---
10/15/96	3859.40	55.25	3804.15	---	---
05/01/97	3859.40	55.45	3803.95	---	---
08/27/97	3859.40	55.55	3803.85	---	---
10/16/97	3859.40	56.69	3802.71	---	---
10/17/97	3859.40	56.78	3802.62	---	---
10/18/97	3859.40	56.84	3802.56	---	---
10/19/97	3859.40	56.91	3802.49	---	---
10/20/97	3859.40	57.00	3802.40	---	---
10/22/97	3859.40	57.10	3802.30	---	---
10/29/97	3859.40	57.21	3802.19	---	---
11/05/97	3859.40	56.86	3802.54	---	---
11/12/97	3859.40	57.06	3802.34	---	---
11/17/97	3859.40	57.40	3802.00	---	---
11/19/97	3859.40	57.42	3801.98	---	---
12/08/97	3859.40	57.61	3801.79	---	---
01/07/98	3859.40	57.12	3802.28	---	---
01/21/98	3859.31	57.79	3801.52	---	---
02/12/98	3859.31	57.95	3801.36	---	---
03/23/98	3859.31	57.00	3802.31	---	---
04/13/98	3859.31	57.07	3802.24	---	---
04/20/98	3859.31	56.69	3802.62	---	---
04/27/98	3859.31	56.54	3802.77	---	---
05/04/98	3859.31	56.48	3802.83	---	---
05/11/98	3859.31	57.60	3801.71	---	---
05/18/98	3859.31	57.70	3801.61	---	---
05/26/98	3859.31	56.90	3802.41	---	---
06/02/98	3859.31	57.09	3802.22	---	---
06/08/98	3859.31	57.37	3801.94	---	---
06/15/98	3859.31	56.93	3802.38	---	---
06/22/98	3859.31	56.57	3802.74	---	---
06/29/98	3859.31	56.54	3802.77	---	---
07/10/98	3859.31	56.52	3802.79	---	---
07/14/98	3859.31	56.67	3802.64	---	---

TABLE IV
(continued)

MONITORING WELL MW-7
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3859.31	56.80	3802.51	---	---
07/27/98	3859.31	57.30	3802.01	---	---
08/04/98	3859.31	57.65	3801.66	---	---
08/10/98	3859.31	57.13	3802.18	---	---
08/18/98	3859.31	56.77	3802.54	---	---
08/26/98	3859.31	56.73	3802.58	---	---
09/02/98	3859.31	56.61	3802.70	---	---
09/10/98	3859.31	56.54	3802.77	---	---
09/18/98	3859.31	56.47	3802.84	---	---
09/24/98	3859.31	56.69	3802.62	---	---

TABLE IV
(continued)

MONITORING WELL MW-9
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3856.60	54.69	3801.91	---	---
07/13/92	3856.60	55.18	3801.42	---	---
10/15/96	3862.10	54.52	3807.58	---	---
05/01/97	3862.10	54.74	3807.36	---	---
08/27/97	3862.10	54.78	3807.32	---	---
10/16/97	3862.10	56.70	3805.40	---	---
10/17/97	3862.10	56.84	3805.26	---	---
10/18/97	3862.10	56.96	3805.14	---	---
10/19/97	3862.10	57.08	3805.02	---	---
10/20/97	3862.10	57.13	3804.97	---	---
10/22/97	3862.10	57.30	3804.80	---	---
10/29/97	3862.10	57.40	3804.70	---	---
11/05/97	3862.10	56.62	3805.48	---	---
11/12/97	3862.10	57.18	3804.92	---	---
11/17/97	3862.10	57.54	3804.56	---	---
11/19/97	3862.10	57.58	3804.52	---	---
12/08/97	3862.10	57.70	3804.40	---	---
01/07/98	3862.10	56.60	3805.50	---	---
01/22/98	3861.88	57.88	3804.00	---	---
02/12/98	3861.88	58.06	3803.82	---	---
03/23/98	3861.88	56.65	3805.23	---	---
04/13/98	3861.88	56.70	3805.18	---	---
04/20/98	3861.88	56.54	3805.34	---	---
04/27/98	3861.88	57.68	3804.20	---	---
05/04/98	3861.88	56.68	3805.20	---	---
05/11/98	3861.88	57.79	3804.09	---	---
05/18/98	3861.88	57.85	3804.03	---	---
05/26/98	3861.88	56.50	3805.38	---	---
06/02/98	3861.88	56.75	3805.13	---	---
06/08/98	3861.88	56.20	3805.68	---	---
06/15/98	3861.88	56.20	3805.68	---	---
06/22/98	3861.88	55.87	3806.01	---	---
06/29/98	3861.88	55.79	3806.09	---	---
07/10/98	3861.88	55.68	3806.20	---	---
07/14/98	3861.88	55.93	3805.95	---	---

TABLE IV
(continued)

MONITORING WELL MW-9
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/24/98	3861.88	56.06	3805.82	---	---
07/27/98	3861.88	56.89	3804.99	---	---
08/04/98	3861.88	57.61	3804.27	---	---
08/10/98	3861.88	56.48	3805.40	---	---
08/18/98	3861.88	56.03	3805.85	---	---
08/26/98	3861.88	55.99	3805.89	---	---
09/02/98	3861.88	55.87	3806.01	---	---
09/10/98	3861.88	55.73	3806.15	---	---
09/18/98	3861.88	55.65	3806.23	---	---
09/24/98	3861.88	55.97	3805.91	---	---

TABLE IV
(continued)

MONITORING WELL MW-10
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.60	56.96	3803.64	---	---
08/27/97	3860.60	57.04	3803.56	---	---
10/16/97	3860.60	57.61	3802.99	---	---
10/17/97	3860.60	57.67	3802.93	---	---
10/18/97	3860.60	57.73	3802.87	---	---
10/19/97	3860.60	57.79	3802.81	---	---
10/20/97	3860.60	57.86	3802.74	---	---
10/22/97	3860.60	57.94	3802.66	---	---
10/29/97	3860.60	58.04	3802.56	---	---
11/05/97	3860.60	57.97	3802.63	---	---
11/12/97	3860.60	58.04	3802.56	---	---
11/17/97	3860.60	58.17	3802.43	---	---
11/19/97	3860.60	58.42	3802.18	---	---
12/08/97	3860.60	58.41	3802.19	---	---
01/07/98	3860.60	58.43	3802.17	---	---
01/21/98	3860.58	DRY	---	---	---
02/12/98	3860.58	DRY	---	---	---
03/23/98	3860.58	58.20	3802.38	---	---
04/13/98	3860.58	DRY	---	---	---
04/20/98	3860.58	DRY	---	---	---
04/27/98	3860.58	DRY	---	---	---
05/04/98	3860.58	DRY	---	---	---
05/11/98	3860.58	DRY	---	---	---
05/18/98	3860.58	DRY	---	---	---
05/26/98	3860.58	DRY	---	---	---
06/02/98	3860.58	DRY	---	---	---
06/08/98	3860.58	DRY	---	---	---
06/15/98	3860.58	DRY	---	---	---
06/22/98	3860.58	DRY	---	---	---
06/29/98	3860.58	DRY	---	---	---
07/10/98	3860.58	57.94	3802.64	---	---
07/14/98	3860.58	57.99	3802.59	---	---
07/24/98	3860.58	58.20	3802.38	---	---
07/27/98	3860.58	58.46	3802.12	---	---
08/04/98	3860.58	58.68	3801.90	---	---

TABLE IV
(continued)

MONITORING WELL MW-10
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/10/98	3860.58	58.53	3802.05	---	---
08/18/98	3860.58	58.25	3802.33	---	---
08/26/98	3860.58	58.20	3802.38	---	---
09/02/98	3860.58	58.13	3802.45	---	---
09/10/98	3860.58	58.04	3802.54	---	---
09/18/98	3860.58	57.98	3802.60	---	---
09/24/98	3860.58	58.10	3802.48	---	---

TABLE IV
(continued)

MONITORING WELL MW-11
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.10	56.43	3803.67	---	---
08/27/97	3860.10	56.49	3803.61	---	---
10/16/97	3860.10	57.24	3802.86	---	---
10/17/97	3860.10	57.38	3802.72	---	---
10/18/97	3860.10	57.36	3802.74	---	---
10/19/97	3860.10	57.42	3802.68	---	---
10/20/97	3860.10	57.46	3802.64	---	---
10/22/97	3860.10	57.56	3802.54	---	---
11/05/97	3860.10	57.49	3802.61	---	---
11/12/97	3860.10	57.62	3802.48	---	---
11/17/97	3860.10	57.74	3802.36	---	---
11/19/97	3860.10	57.91	3802.19	---	---
12/08/97	3860.10	57.95	3802.15	---	---
01/07/98	3860.10	57.86	3802.24	---	---
01/21/98	3860.00	58.25	3801.75	---	---
02/12/98	3860.00	58.39	3801.61	---	---
03/23/98	3860.00	57.67	3802.33	---	---
04/13/98	3860.00	57.81	3802.19	---	---
04/20/98	3860.00	57.52	3802.48	---	---
04/27/98	3860.00	57.48	3802.52	---	---
05/04/98	3860.00	57.41	3802.59	---	---
05/11/98	3860.00	58.11	3801.89	---	---
05/18/98	3860.00	58.21	3801.79	---	---
05/26/98	3860.00	57.76	3802.24	---	---
06/02/98	3860.00	57.89	3802.11	---	---
06/08/98	3860.00	58.10	3801.90	---	---
06/15/98	3860.00	57.80	3802.20	---	---
06/22/98	3860.00	57.57	3802.43	---	---
06/29/98	3860.00	57.47	3802.53	---	---
07/10/98	3860.00	57.37	3802.63	---	---
07/14/98	3860.00	57.46	3802.54	---	---
07/24/98	3860.00	57.65	3802.35	---	---
07/27/98	3860.00	57.96	3802.04	---	---
08/04/98	3860.00	58.22	3801.78	---	---
08/10/98	3860.00	57.94	3802.06	---	---

TABLE IV
(continued)

MONITORING WELL MW-11
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/18/98	3860.00	57.67	3802.33	---	---
08/26/98	3860.00	57.11	3802.89	---	---
09/02/98	3860.00	57.52	3802.48	---	---
09/10/98	3860.00	57.48	3802.52	---	---
09/18/98	3860.00	57.40	3802.60	---	---
09/24/98	3860.00	57.57	3802.43	---	---

TABLE IV
(continued)

MONITORING WELL MW-12
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.20	56.91	3806.29	---	---
08/27/97	3863.20	56.98	3806.22	---	---
10/16/97	3863.20	57.42	3805.78	---	---
10/17/97	3863.20	57.48	3805.72	---	---
10/18/97	3863.20	57.54	3805.66	---	---
10/19/97	3863.20	57.59	3805.61	---	---
10/20/97	3863.20	57.60	3805.60	---	---
10/22/97	3863.20	57.65	3805.55	---	---
10/29/97	3863.20	57.74	3805.46	---	---
11/05/97	3863.20	57.75	3805.45	---	---
11/12/97	3863.20	57.82	3805.38	---	---
11/17/97	3863.20	57.89	3805.31	---	---
11/19/97	3863.20	58.24	3804.96	---	---
12/08/97	3863.20	58.14	3805.06	---	---
01/07/98	3863.20	58.20	3805.00	---	---
01/21/98	3863.10	58.44	3804.66	---	---
02/12/98	3863.10	58.56	3804.54	---	---
03/23/98	3863.10	58.04	3805.06	---	---
04/13/98	3863.10	58.23	3804.87	---	---
04/20/98	3863.10	58.12	3804.98	---	---
04/27/98	3863.10	58.33	3804.77	---	---
05/04/98	3863.10	58.28	3804.82	---	---
05/11/98	3863.10	58.51	3804.59	---	---
05/18/98	3863.10	58.56	3804.54	---	---
05/26/98	3863.10	58.26	3804.84	---	---
06/02/98	3863.10	58.38	3804.72	---	---
06/08/98	3863.10	58.29	3804.81	---	---
06/15/98	3863.10	58.21	3804.89	---	---
06/22/98	3863.10	58.08	3805.02	---	---
06/29/98	3863.10	57.99	3805.11	---	---
07/10/98	3863.10	57.86	3805.24	---	---
07/14/98	3863.10	57.88	3805.22	---	---
07/24/98	3863.10	58.07	3805.03	---	---
07/27/98	3863.10	58.29	3804.81	---	---
08/04/98	3863.10	58.52	3804.58	---	---

TABLE IV
(continued)

MONITORING WELL MW-12
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/10/98	3863.10	58.40	3804.70	---	---
08/18/98	3863.10	58.15	3804.95	---	---
08/26/98	3863.10	58.12	3804.98	---	---
09/02/98	3863.10	58.03	3805.07	---	---
09/10/98	3863.10	58.97	3804.13	---	---
09/18/98	3863.10	57.89	3805.21	---	---
09/24/98	3863.10	57.97	3805.13	---	---

TABLE IV
(continued)

MONITORING WELL MW-13
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3862.60	55.23	3807.37	---	---
08/27/97	3862.60	55.32	3807.28	---	---
10/16/97	3862.60	55.75	3806.85	---	---
10/17/97	3862.60	55.82	3806.78	---	---
10/18/97	3862.60	55.88	3806.72	---	---
10/19/97	3862.60	55.96	3806.64	---	---
10/20/97	3862.60	55.96	3806.64	---	---
10/22/97	3862.60	56.03	3806.57	---	---
10/29/97	3862.60	56.10	3806.50	---	---
11/05/97	3862.60	56.11	3806.49	---	---
11/12/97	3862.60	56.17	3806.43	---	---
11/17/97	3862.60	56.22	3806.38	---	---
11/19/97	3862.60	56.38	3806.22	---	---
12/08/97	3862.60	56.55	3806.05	---	---
01/07/98	3862.60	56.56	3806.04	---	---
01/22/98	3862.44	56.82	3805.62	---	---
02/12/98	3862.44	56.93	3805.51	---	---
03/23/98	3862.44	56.35	3806.09	---	---
04/13/98	3862.44	56.61	3805.83	---	---
04/20/98	3862.44	56.47	3805.97	---	---
04/27/98	3862.44	52.57	3809.87	---	---
05/04/98	3862.44	56.77	3805.67	---	---
05/11/98	3862.44	56.92	3805.52	---	---
05/18/98	3862.44	56.95	3805.49	---	---
05/26/98	3862.44	56.64	3805.80	---	---
06/02/98	3862.44	56.78	3805.66	---	---
06/08/98	3862.44	56.64	3805.80	---	---
06/15/98	3862.44	56.57	3805.87	---	---
06/22/98	3862.44	56.42	3806.02	---	---
06/29/98	3862.44	56.34	3806.10	---	---
07/10/98	3862.44	56.21	3806.23	---	---
07/14/98	3862.44	56.21	3806.23	---	---
07/24/98	3862.44	56.42	3806.02	---	---
07/27/98	3862.44	56.63	3805.81	---	---
08/04/98	3862.44	56.90	3805.54	---	---

TABLE IV
(continued)

MONITORING WELL MW-13
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/10/98	3862.44	56.80	3805.64	---	---
08/18/98	3862.44	56.54	3805.90	---	---
08/26/98	3862.44	56.48	3805.96	---	---
09/02/98	3862.44	56.39	3806.05	---	---
09/10/98	3862.44	56.30	3806.14	---	---
09/18/98	3862.44	56.21	3806.23	---	---
09/24/98	3862.44	56.30	3806.14	---	---

TABLE IV
(continued)

MONITORING WELL MW-14
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.10	56.40	3806.70	---	---
08/27/97	3863.10	56.50	3806.60	---	---
10/16/97	3863.10	57.34	3805.76	---	---
10/17/97	3863.10	57.39	3805.71	---	---
10/18/97	3863.10	57.48	3805.62	---	---
10/19/97	3863.10	57.56	3805.54	---	---
10/20/97	3863.10	57.56	3805.54	---	---
10/22/97	3863.10	57.63	3805.47	---	---
10/29/97	3863.10	57.71	3805.39	---	---
01/05/97	3863.10	57.42	3805.68	---	---
11/12/97	3863.10	57.73	3805.37	---	---
11/17/97	3863.10	57.83	3805.27	---	---
12/08/97	3863.10	58.12	3804.98	---	---
01/07/98	3863.10	57.73	3805.37	---	---
01/22/98	3862.95	58.32	3804.63	---	---
02/12/98	3862.95	58.40	3804.55	---	---
03/23/98	3862.95	57.71	3805.24	---	---
04/13/98	3862.95	57.83	3805.12	---	---
04/20/98	3862.95	57.72	3805.23	---	---
04/27/98	3862.95	58.24	3804.71	---	---
05/04/98	3862.95	56.80	3806.15	---	---
05/11/98	3862.95	58.37	3804.58	---	---
05/18/98	3862.95	58.41	3804.54	---	---
05/26/98	3862.95	57.79	3805.16	---	---
06/02/98	3862.95	57.97	3804.98	---	---
06/08/98	3862.95	57.66	3805.29	---	---
06/15/98	3862.95	57.63	3805.32	---	---
06/22/98	3862.95	57.47	3805.48	---	---
06/29/98	3862.95	57.39	3805.56	---	---
07/10/98	3862.95	57.30	3805.65	---	---
07/14/98	3862.95	57.38	3805.57	---	---
07/24/98	3862.95	57.52	3805.43	---	---
07/27/98	3862.95	57.95	3805.00	---	---
08/04/98	3862.95	58.34	3804.61	---	---
08/10/98	3862.95	57.80	3805.15	---	---

TABLE IV
(continued)

MONITORING WELL MW-14
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/18/98	3862.95	57.55	3805.40	---	---
08/26/98	3862.95	57.53	3805.42	---	---
09/02/98	3862.95	57.44	3805.51	---	---
09/10/98	3862.95	57.58	3805.37	---	---
09/18/98	3862.95	57.33	3805.62	---	---
09/24/98	3862.95	57.61	3805.34	---	---

TABLE IV
(continued)

MONITORING WELL MW-15
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3861.90	55.57	3806.33	---	---
08/27/97	3861.90	55.64	3806.26	---	---
10/16/97	3861.90	56.04	3805.86	---	---
10/17/97	3861.90	56.08	3805.82	---	---
10/18/97	3861.90	56.13	3805.77	---	---
10/19/97	3861.90	56.18	3805.72	---	---
10/20/97	3861.90	56.15	3805.75	---	---
10/22/97	3861.90	56.20	3805.70	---	---
10/29/97	3861.90	56.26	3805.64	---	---
11/05/97	3861.90	56.23	3805.67	---	---
11/12/97	3861.90	56.32	3805.58	---	---
11/17/97	3861.90	56.36	3805.54	---	---
11/19/97	3861.90	56.66	3805.24	---	---
12/05/97	3861.90	56.74	3805.16	---	---
01/07/98	3861.90	56.69	3805.21	---	---
01/22/98	3861.70	57.05	3804.65	---	---
02/12/98	3861.70	56.94	3804.76	---	---
03/23/98	3861.70	56.57	3805.13	---	---
04/13/98	3861.70	56.72	3804.98	---	---
04/20/98	3861.70	56.62	3805.08	---	---
04/27/98	3861.70	56.86	3804.84	---	---
05/04/98	3861.70	56.83	3804.87	---	---
05/11/98	3861.70	56.97	3804.73	---	---
05/18/98	3861.70	57.00	3804.70	---	---
05/26/98	3861.70	56.74	3804.96	---	---
06/02/98	3861.70	56.87	3804.83	---	---
06/08/98	3861.70	56.75	3804.95	---	---
06/15/98	3861.70	56.71	3804.99	---	---
06/22/98	3861.70	56.61	3805.09	---	---
06/29/98	3861.70	56.54	3805.16	---	---
07/10/98	3861.70	56.44	3805.26	---	---
07/14/98	3861.70	56.43	3805.27	---	---
07/24/98	3861.70	56.63	3805.07	---	---
07/27/98	3861.70	56.80	3804.90	---	---
08/04/98	3861.70	57.00	3804.70	---	---

TABLE IV
(continued)

MONITORING WELL MW-15
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/10/98	3861.70	56.88	3804.82	---	---
08/18/98	3861.70	56.69	3805.01	---	---
08/26/98	3861.70	56.66	3805.04	---	---
09/02/98	3861.70	56.58	3805.12	---	---
09/10/98	3861.70	56.55	3805.15	---	---
09/18/98	3861.70	56.46	3805.24	---	---
09/24/98	3861.70	56.56	3805.14	---	---

TABLE IV
(continued)

MONITORING WELL MW-16
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.40	55.30	3808.10	---	---
08/27/97	3863.40	55.33	3808.07	---	---
10/16/97	3863.40	55.91	3807.49	---	---
10/17/97	3863.40	55.98	3807.42	---	---
10/18/97	3863.40	56.06	3807.34	---	---
10/19/97	3863.40	56.12	3807.28	---	---
10/20/97	3863.40	56.14	3807.26	---	---
10/22/97	3863.40	56.21	3807.19	---	---
10/29/97	3863.40	56.29	3807.11	---	---
11/05/97	3863.40	56.18	3807.22	---	---
11/12/97	3863.40	56.30	3807.10	---	---
11/17/97	3863.40	56.39	3807.01	---	---
11/19/97	3863.40	56.65	3806.75	---	---
12/08/97	3863.40	56.84	3806.56	---	---
01/07/98	3863.40	56.61	3806.79	---	---
01/22/98	3863.15	56.91	3806.24	---	---
02/12/98	3863.15	57.21	3805.94	---	---
03/23/98	3863.15	56.36	3806.79	---	---
04/13/98	3863.15	56.48	3806.67	---	---
04/20/98	3863.15	56.33	3806.82	---	---
04/27/98	3863.15	56.86	3806.29	---	---
05/04/98	3863.15	56.74	3806.41	---	---
05/11/98	3863.15	56.98	3806.17	---	---
05/18/98	3863.15	57.02	3806.13	---	---
05/26/98	3863.15	56.51	3806.64	---	---
06/02/98	3863.15	56.65	3806.50	---	---
06/08/98	3863.15	56.61	3806.54	---	---
06/15/98	3863.15	56.48	3806.67	---	---
06/22/98	3863.15	56.30	3806.85	---	---
06/29/98	3863.15	56.23	3806.92	---	---
07/10/98	3863.15	56.12	3807.03	---	---
07/14/98	3863.15	56.18	3806.97	---	---
07/24/98	3863.15	56.37	3806.78	---	---
07/27/98	3863.15	56.65	3806.50	---	---
08/04/98	3863.15	56.92	3806.23	---	---

TABLE IV
(continued)

MONITORING WELL MW-16
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/10/98	3863.15	56.68	3806.47	---	---
08/18/98	3863.15	56.40	3806.75	---	---
08/26/98	3863.15	56.38	3806.77	---	---
09/02/98	3863.15	56.29	3806.86	---	---
09/10/98	3863.15	56.21	3806.94	---	---
09/18/98	3863.15	56.14	3807.01	---	---
09/24/98	3863.15	56.25	3806.90	---	---

TABLE IV
(continued)

MONITORING WELL MW-17
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/21/98	3859.17	58.43	3800.74	---	---
02/12/98	3859.17	58.51	3800.66	---	---
03/23/98	3859.17	58.56	3800.61	---	---
04/13/98	3859.17	58.61	3800.56	---	---
04/20/98	3859.17	58.60	3800.57	---	---
04/27/98	3859.17	58.62	3800.55	---	---
05/04/98	3859.17	58.62	3800.55	---	---
05/11/98	3859.17	58.64	3800.53	---	---
05/18/98	3859.17	58.64	3800.53	---	---
05/26/98	3859.17	58.64	3800.53	---	---
06/02/98	3859.17	58.69	3800.48	---	---
06/08/98	3859.17	58.71	3800.46	---	---
06/15/98	3859.17	58.72	3800.45	---	---
06/22/98	3859.17	58.71	3800.46	---	---
06/29/98	3859.17	58.73	3800.44	---	---
07/10/98	3859.17	58.69	3800.48	---	---
07/14/98	3859.17	58.68	3800.49	---	---
07/24/98	3859.17	58.74	3800.43	---	---
07/27/98	3859.17	58.75	3800.42	---	---
08/04/98	3859.17	58.80	3800.37	---	---
08/10/98	3859.17	58.79	3800.38	---	---
08/18/98	3859.17	58.80	3800.37	---	---
08/26/98	3859.17	58.76	3800.41	---	---
09/02/98	3859.17	58.77	3800.40	---	---
09/10/98	3859.17	58.77	3800.40	---	---
09/18/98	3859.17	58.76	3800.41	---	---
09/24/98	3859.17	58.78	3800.39	---	---

TABLE IV
(continued)

MONITORING WELL MW-18
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/21/98	3859.98	58.19	3801.79	---	---
02/12/98	3859.98	58.31	3801.67	---	---
03/23/98	3859.98	58.28	3801.70	---	---
04/13/98	3859.98	58.40	3801.58	---	---
04/20/98	3859.98	58.40	3801.58	---	---
04/27/98	3859.98	58.38	3801.60	---	---
05/04/98	3859.98	58.34	3801.64	---	---
05/11/98	3859.98	58.38	3801.60	---	---
05/18/98	3859.98	58.41	3801.57	---	---
05/26/98	3859.98	58.42	3801.56	---	---
06/02/98	3859.98	58.46	3801.52	---	---
06/08/98	3859.98	58.48	3801.50	---	---
06/15/98	3859.98	58.51	3801.47	---	---
06/22/98	3859.98	58.47	3801.51	---	---
06/29/98	3859.98	58.44	3801.54	---	---
07/10/98	3859.98	58.36	3801.62	---	---
07/14/98	3859.98	58.34	3801.64	---	---
07/24/98	3859.98	58.44	3801.54	---	---
07/27/98	3859.98	58.48	3801.50	---	---
08/04/98	3859.98	58.55	3801.43	---	---
08/10/98	3859.98	58.54	3801.44	---	---
08/18/98	3859.98	58.54	3801.44	---	---
08/26/98	3859.98	58.49	3801.49	---	---
09/02/98	3859.98	58.48	3801.50	---	---
09/10/98	3859.98	58.45	3801.53	---	---
09/18/98	3859.98	58.43	3801.55	---	---
09/24/98	3859.98	58.41	3801.57	---	---

TABLE IV
(continued)

MONITORING WELL MW-19
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.30	59.66	3802.64	---	---
02/12/98	3862.30	59.79	3802.51	---	---
03/23/98	3862.30	59.34	3802.96	---	---
04/13/98	3862.30	59.48	3802.82	---	---
04/20/98	3862.30	59.33	3802.97	---	---
04/27/98	3862.30	59.25	3803.05	---	---
05/04/98	3862.30	59.21	3803.09	---	---
05/11/98	3862.30	59.61	3802.69	---	---
05/18/98	3862.30	59.70	3802.60	---	---
05/26/98	3862.30	59.49	3802.81	---	---
06/02/98	3862.30	59.58	3802.72	---	---
06/08/98	3862.30	59.73	3802.57	---	---
06/15/98	3862.30	59.53	3802.77	---	---
06/22/98	3862.30	59.36	3802.94	---	---
06/29/98	3862.30	59.29	3803.01	---	---
07/10/98	3862.30	59.18	3803.12	---	---
07/14/98	3862.30	59.20	3803.10	---	---
07/24/98	3862.30	59.42	3802.88	---	---
07/27/98	3862.30	59.59	3802.71	---	---
08/04/98	3862.30	59.75	3802.55	---	---
08/10/98	3862.30	59.67	3802.63	---	---
08/18/98	3862.30	59.44	3802.86	---	---
08/26/98	3862.30	59.40	3802.90	---	---
09/02/98	3862.30	59.34	3802.96	---	---
09/10/98	3862.30	59.27	3803.03	---	---
09/18/98	3862.30	59.24	3803.06	---	---
09/24/98	3862.30	59.31	3802.99	---	---

TABLE IV
(continued)

MONITORING WELL MW-20
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3861.30	58.73	3802.57	---	---
02/12/98	3861.30	59.03	3802.27	---	---
03/23/98	3861.30	58.51	3802.79	---	---
04/13/98	3861.30	58.65	3802.65	---	---
04/20/98	3861.30	58.52	3802.78	---	---
04/27/98	3861.30	58.51	3802.79	---	---
05/04/98	3861.30	58.49	3802.81	---	---
05/11/98	3861.30	58.79	3802.51	---	---
05/18/98	3861.30	58.85	3802.45	---	---
05/26/98	3861.30	58.66	3802.64	---	---
06/02/98	3861.30	58.75	3802.55	---	---
06/08/98	3861.30	58.84	3802.46	---	---
06/15/98	3861.30	58.86	3802.44	---	---
06/22/98	3861.30	58.55	3802.75	---	---
06/29/98	3861.30	58.49	3802.81	---	---
07/10/98	3861.30	58.39	3802.91	---	---
07/14/98	3861.30	58.44	3802.86	---	---
07/24/98	3861.30	58.59	3802.71	---	---
07/27/98	3861.30	59.73	3801.57	---	---
08/04/98	3861.30	58.89	3802.41	---	---
08/10/98	3861.30	58.81	3802.49	---	---
08/18/98	3861.30	58.64	3802.66	---	---
08/26/98	3861.30	58.59	3802.71	---	---
09/02/98	3861.30	58.54	3802.76	---	---
09/10/98	3861.30	58.49	3802.81	---	---
09/18/98	3861.30	58.46	3802.84	---	---
09/24/98	3861.30	58.51	3802.79	---	---

TABLE IV
(continued)

MONITORING WELL MW-21
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.30	59.05	3803.25	---	---
02/12/98	3862.30	59.16	3803.14	---	---
03/23/98	3862.30	58.69	3803.61	---	---
04/13/98	3862.30	58.86	3803.44	---	---
04/20/98	3862.30	58.71	3803.59	---	---
04/27/98	3862.30	58.71	3803.59	---	---
05/04/98	3862.30	56.70	3805.60	---	---
05/11/98	3862.30	59.05	3803.25	---	---
05/18/98	3862.30	59.12	3803.18	---	---
05/26/98	3862.30	58.87	3803.43	---	---
06/02/98	3862.30	58.98	3803.32	---	---
06/08/98	3862.30	59.05	3803.25	---	---
06/15/98	3862.30	58.89	3803.41	---	---
06/22/98	3862.30	58.71	3803.59	---	---
06/29/98	3862.30	58.63	3803.67	---	---
07/10/98	3862.30	58.53	3803.77	---	---
07/14/98	3862.30	58.58	3803.72	---	---
07/24/98	3862.30	58.75	3803.55	---	---
07/27/98	3862.30	58.95	3803.35	---	---
08/04/98	3862.30	59.12	3803.18	---	---
08/10/98	3862.30	59.03	3803.27	---	---
08/18/98	3862.30	58.81	3803.49	---	---
08/26/98	3862.30	58.77	3803.53	---	---
09/02/98	3862.30	58.69	3803.61	---	---
09/10/98	3862.30	58.63	3803.67	---	---
09/18/98	3862.30	58.59	3803.71	---	---
09/24/98	3862.30	58.65	3803.65	---	---

TABLE IV
(continued)

MONITORING WELL MW-22
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.01	57.32	3806.69	---	---
02/12/98	3864.01	57.59	3806.42	---	---
03/23/98	3864.01	56.93	3807.08	---	---
04/13/98	3864.01	57.08	3806.93	---	---
04/20/98	3864.01	56.97	3807.04	---	---
04/27/98	3864.01	57.24	3806.77	---	---
05/04/98	3864.01	57.16	3806.85	---	---
05/11/98	3864.01	57.34	3806.67	---	---
05/18/98	3864.01	57.35	3806.66	---	---
05/26/98	3864.01	57.09	3806.92	---	---
06/02/98	3864.01	57.19	3806.82	---	---
06/08/98	3864.01	57.12	3806.89	---	---
06/15/98	3864.01	57.08	3806.93	---	---
06/22/98	3864.01	56.96	3807.05	---	---
06/29/98	3864.01	56.92	3807.09	---	---
07/10/98	3864.01	56.82	3807.19	---	---
07/14/98	3864.01	56.86	3807.15	---	---
07/24/98	3864.01	57.00	3807.01	---	---
07/27/98	3864.01	57.17	3806.84	---	---
08/04/98	3864.01	57.38	3806.63	---	---
08/10/98	3864.01	57.22	3806.79	---	---
08/18/98	3864.01	57.04	3806.97	---	---
08/26/98	3864.01	57.02	3806.99	---	---
09/02/98	3864.01	56.97	3807.04	---	---
09/10/98	3864.01	56.91	3807.10	---	---
09/18/98	3864.01	56.86	3807.15	---	---
09/24/98	3864.01	56.93	3807.08	---	---

TABLE IV
(continued)

MONITORING WELL MW-23
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.44	55.91	3806.53	---	---
02/12/98	3862.44	56.02	3806.42	---	---
03/23/98	3862.44	55.71	3806.73	---	---
04/13/98	3862.44	55.75	3806.69	---	---
04/20/98	3862.44	55.71	3806.73	---	---
04/27/98	3862.44	55.86	3806.58	---	---
05/04/98	3862.44	55.79	3806.65	---	---
05/11/98	3862.44	55.90	3806.54	---	---
05/18/98	3862.44	55.91	3806.53	---	---
05/26/98	3862.44	55.78	3806.66	---	---
06/02/98	3862.44	55.84	3806.60	---	---
06/08/98	3862.44	55.81	3806.63	---	---
06/15/98	3862.44	55.81	3806.63	---	---
06/22/98	3862.44	55.78	3806.66	---	---
06/29/98	3862.44	55.76	3806.68	---	---
07/10/98	3862.44	55.67	3806.77	---	---
07/14/98	3862.44	55.71	3806.73	---	---
07/24/98	3862.44	55.77	3806.67	---	---
07/27/98	3862.44	55.88	3806.56	---	---
08/04/98	3862.44	55.99	3806.45	---	---
08/10/98	3862.44	55.90	3806.54	---	---
08/18/98	3862.44	55.80	3806.64	---	---
08/26/98	3862.44	55.80	3806.64	---	---
09/02/98	3862.44	55.78	3806.66	---	---
09/10/98	3862.44	55.76	3806.68	---	---
09/18/98	3862.44	55.74	3806.70	---	---
09/24/98	3862.44	55.78	3806.66	---	---

TABLE IV
(continued)

MONITORING WELL MW-24
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.36	56.74	3807.62	---	---
02/12/98	3864.36	56.81	3807.55	---	---
03/23/98	3864.36	56.64	3807.72	---	---
04/13/98	3864.36	56.76	3807.60	---	---
04/20/98	3864.36	56.71	3807.65	---	---
04/27/98	3864.36	56.87	3807.49	---	---
05/04/98	3864.36	56.81	3807.55	---	---
05/11/98	3864.36	56.93	3807.43	---	---
05/18/98	3864.36	56.95	3807.41	---	---
05/26/98	3864.36	56.76	3807.60	---	---
06/02/98	3864.36	56.89	3807.47	---	---
06/08/98	3864.36	56.82	3807.54	---	---
06/15/98	3864.36	56.82	3807.54	---	---
06/22/98	3864.36	56.74	3807.62	---	---
06/29/98	3864.36	56.76	3807.60	---	---
07/10/98	3864.36	56.62	3807.74	---	---
07/14/98	3864.36	56.63	3807.73	---	---
07/24/98	3864.36	56.77	3807.59	---	---
07/27/98	3864.36	56.86	3807.50	---	---
08/04/98	3864.36	57.01	3807.35	---	---
08/10/98	3864.36	56.90	3807.46	---	---
08/18/98	3864.36	56.78	3807.58	---	---
08/26/98	3864.36	56.78	3807.58	---	---
09/02/98	3864.36	56.75	3807.61	---	---
09/10/98	3864.36	56.71	3807.65	---	---
09/18/98	3864.36	56.66	3807.70	---	---
09/24/98	3864.36	56.72	3807.64	---	---

TABLE IV
(continued)

MONITORING WELL MW-25
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.16	55.33	3808.83	---	---
02/12/98	3864.16	55.39	3808.77	---	---
03/23/98	3864.16	55.35	3808.81	---	---
04/13/98	3864.16	55.39	3808.77	---	---
04/20/98	3864.16	55.37	3808.79	---	---
04/27/98	3864.16	55.47	3808.69	---	---
05/04/98	3864.16	55.45	3808.71	---	---
05/11/98	3864.16	55.52	3808.64	---	---
05/18/98	3864.16	55.53	3808.63	---	---
05/26/98	3864.16	55.44	3808.72	---	---
06/02/98	3864.16	55.51	3808.65	---	---
06/08/98	3864.16	55.54	3808.62	---	---
06/15/98	3864.16	55.49	3808.67	---	---
06/22/98	3864.16	55.46	3808.70	---	---
06/29/98	3864.16	55.44	3808.72	---	---
07/10/98	3864.16	55.38	3808.78	---	---
07/14/98	3864.16	55.39	3808.77	---	---
07/24/98	3864.16	55.48	3808.68	---	---
07/27/98	3864.16	55.52	3808.64	---	---
08/04/98	3864.16	55.61	3808.55	---	---
08/10/98	3864.16	55.57	3808.59	---	---
08/18/98	3864.16	55.50	3808.66	---	---
08/26/98	3864.16	55.49	3808.67	---	---
09/02/98	3864.16	55.47	3808.69	---	---
09/10/98	3864.16	55.46	3808.70	---	---
09/18/98	3864.16	55.46	3808.70	---	---
09/24/98	3864.16	55.47	3808.69	---	---

TABLE IV
(continued)

PUMPING WELL PW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.08	54.28	3794.80	---	---
07/13/92	3849.08	54.46	3794.62	---	---
04/15/98	3849.08	52.58	3796.50	---	---
04/20/98	3849.08	72.02	3777.06	---	---
04/27/98	3849.08	72.73	3776.35	---	---
05/04/98	3849.08	52.76	3796.32	---	---
05/11/98	3849.08	72.37	3776.71	---	---
05/18/98	3849.08	72.60	3776.48	---	---
05/26/98	3849.08	71.59	3777.49	---	---
06/02/98	3849.08	71.94	3777.14	---	---
06/10/98	3849.08	52.61	3796.47	---	---
06/15/98	3849.08	52.68	3796.40	---	---
06/22/98	3849.08	52.51	3796.57	---	---
06/29/98	3849.08	52.44	3796.64	---	---
07/10/98	3849.08	52.35	3796.73	---	---
07/14/98	3849.08	52.41	3796.67	---	---
07/24/98	3849.08	52.60	3796.48	---	---
07/27/98	3849.08	66.70	3782.38	---	---
08/04/98	3849.08	72.04	3777.04	---	---
08/10/98	3849.08	52.83	3796.25	---	---
08/18/98	3849.08	52.58	3796.50	---	---
08/26/98	3849.08	52.53	3796.55	---	---
09/02/98	3849.08	52.50	3796.58	---	---
09/10/98	3849.08	52.48	3796.60	---	---
09/18/98	3849.08	52.28	3796.80	---	---
09/24/98	3849.08	52.54	3796.54	---	---

TABLE IV
(continued)

PUMPING WELL PW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.23	55.27	3791.96	---	---
07/13/92	3847.23	55.76	3791.47	---	---
04/15/98	3847.23	55.09	3792.14	3792.55	0.48
04/20/98	3847.23	54.90	3792.33	3792.81	0.56
04/27/98	3847.23	54.80	3792.43	3792.99	0.65
04/30/98	3847.23	54.75	3792.48	3792.93	0.52
05/04/98	3847.23	54.69	3792.54	3792.96	0.49
05/06/98	3847.23	83.90	3763.33	3764.02	0.80
05/07/98	3847.23	83.95	3763.28	3763.90	0.72
05/08/98	3847.23	81.14	3766.09	3766.10	0.01
05/11/98	3847.23	81.09	3766.14	3766.16	0.02
05/13/98	3847.23	80.58	3766.65	---	sheen
05/15/98	3847.23	80.22	3767.01	3767.03	0.02
05/18/98	3847.23	80.80	3766.43	3766.44	0.01
05/26/98	3847.23	80.77	3766.46	3766.62	0.19
06/02/98	3847.23	81.12	3766.11	3766.47	0.42
06/05/98	3847.23	84.55	3762.68	3763.13	0.52
06/08/98	3847.23	55.28	3791.95	3792.17	0.26
06/12/98	3847.23	80.54	3766.69	3767.18	0.57
06/15/98	3847.23	55.05	3792.18	3792.59	0.48
06/22/98	3847.23	54.89	3792.34	3792.84	0.58
06/29/98	3847.23	54.82	3792.41	3792.92	0.59
07/10/98	3847.23	54.90	3792.33	3793.00	0.78
07/14/98	3847.23	54.83	3792.40	3792.83	0.50
07/24/98	3847.23	55.23	3792.00	3792.75	0.87
07/27/98	3847.23	80.66	3766.57	3767.27	0.81
08/04/98	3847.23	81.15	3766.08	3767.33	1.45
08/10/98	3847.23	55.86	3791.37	3792.46	1.26
08/18/98	3847.23	54.75	3792.48	3792.76	0.33
08/26/98	3847.23	54.96	3792.27	3792.78	0.59
09/02/98	3847.23	54.73	3792.50	3792.89	0.45
09/10/98	3847.23	54.91	3792.32	3792.95	0.73
09/18/98	3847.23	54.94	3792.29	3792.98	0.80
09/24/98	3847.23	79.45	3767.78	3768.77	1.15

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (1.0 foot)

EL= Ground water elevation (ft) calculated from measurements obtained on July 10, 1998.

PSH = Phase-separate hydrocarbon thickness (feet) measured on July 10, 1998.

B = Benzene Concentration (mg/l)

BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

ND = Not Detected

NOTE:

1. Ground water samples were collected on July 11, 1998.
2. System was not operating from July 3, 1998 through July 13, 1998.
3. The ground water elevations in PW-1 and PW-2 were not used to generate contours due to the system being down.

MW-25 EL=3808.78 B=ND BTEX=ND

MW-24 EL=3807.74 B=0.370 BTEX=0.440

MW-23 EL=3806.77 B=ND BTEX=ND

MW-16 EL=3807.03 B=0.035 BTEX=0.102

MW-9 EL=3806.20 B=0.412 BTEX=0.492

MW-15 EL=3805.26 B=ND BTEX=ND

MW-14 EL=3805.65 B=6.70 BTEX=7.910

PW-1 EL=3796.73

MW-6 EL=3805.64 B=0.005 BTEX=0.005

MW-22 EL=3807.19 B=ND BTEX=ND

MW-13 EL=3806.23 B=ND BTEX=ND

MW-12 EL=3805.24 B=0.088 BTEX=0.161

MW-21 EL=3803.77 B=0.275 BTEX=0.275

MW-20 EL=3802.91 B=ND BTEX=ND

MW-2 EL=3803.62 B=ND BTEX=ND

MW-3 EL=3803.63 B=ND BTEX=ND

MW-1 EL=3802.85 B=1.312 BTEX=1.948

MW-11 EL=3802.63 B=0.458 BTEX=0.459

MW-7 EL=3802.79 B=0.038 BTEX=0.090

PW-2 EL=3793.00 PSH=0.78

MW-4 EL=3803.29 B=0.003 BTEX=0.004

MW-10 EL=3802.64 B=0.083 BTEX=0.151

MW-19 EL=3803.12 B=ND BTEX=ND

MW-18 EL=3801.62 B=ND BTEX=ND

MW-17 EL=3800.48 B=0.086 BTEX=0.244

TB-8

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9

3808 3807 3806 3805 3804 3803 3802 3801 3800 3796 3798 3800 3802 3804 3806 3793 3795 3797 3799 3801 3803

Buffalo Wallow

Texas New Mexico Buried Pipeline

Influent Line from PW1

SPS Water Line

Buried Pipeline

Treatment System

SPS-11 Well Area

06/17/98-RM G:\GIS\ADFT\PROJECT\S\TNMPL\610099\MONITOR\(GW-JUL98)

k·e·i	GROUND WATER CONCENTRATION / CONTOUR MAP - JULY 1998	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=200'

0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.154 Benzene Concentration (mg/l)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval = 1 mg/l

NOTE:

Ground water samples were collected on July 11, 1998.

MW-25 ND

MW-23 ND

MW-24 0.370

MW-16 0.035

MW-15 ND

B-6 B-5 B-4 B-3

PW-1

MW-9 0.412

TB-8

MW-14 6.70

MW-6 0.005

Texas New Mexico Buried Pipeline

Influent Line from PW1

SPS Water Line

MW-22 ND

MW-13 ND

B-2

MW-12 0.088

B-9

MW-21 0.275

MW-20 ND

B-8

Buffalo Wallow

ND MW-2

Treatment System

SPS-11 Well Area

MW-1 1.312

MW-11 0.458

MW-3 ND

Buried Pipeline

PW-2

B-1

B-7

MW-4 0.003

MW-7 0.038

0.083 MW-10

ND

MW-19 ND

MW-18 ND

ND MW-17 0.086

06172798-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\SZ_JUL98)

k·e·i	*BENZENE ISOPLETH MAP - JULY 1998*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=200'

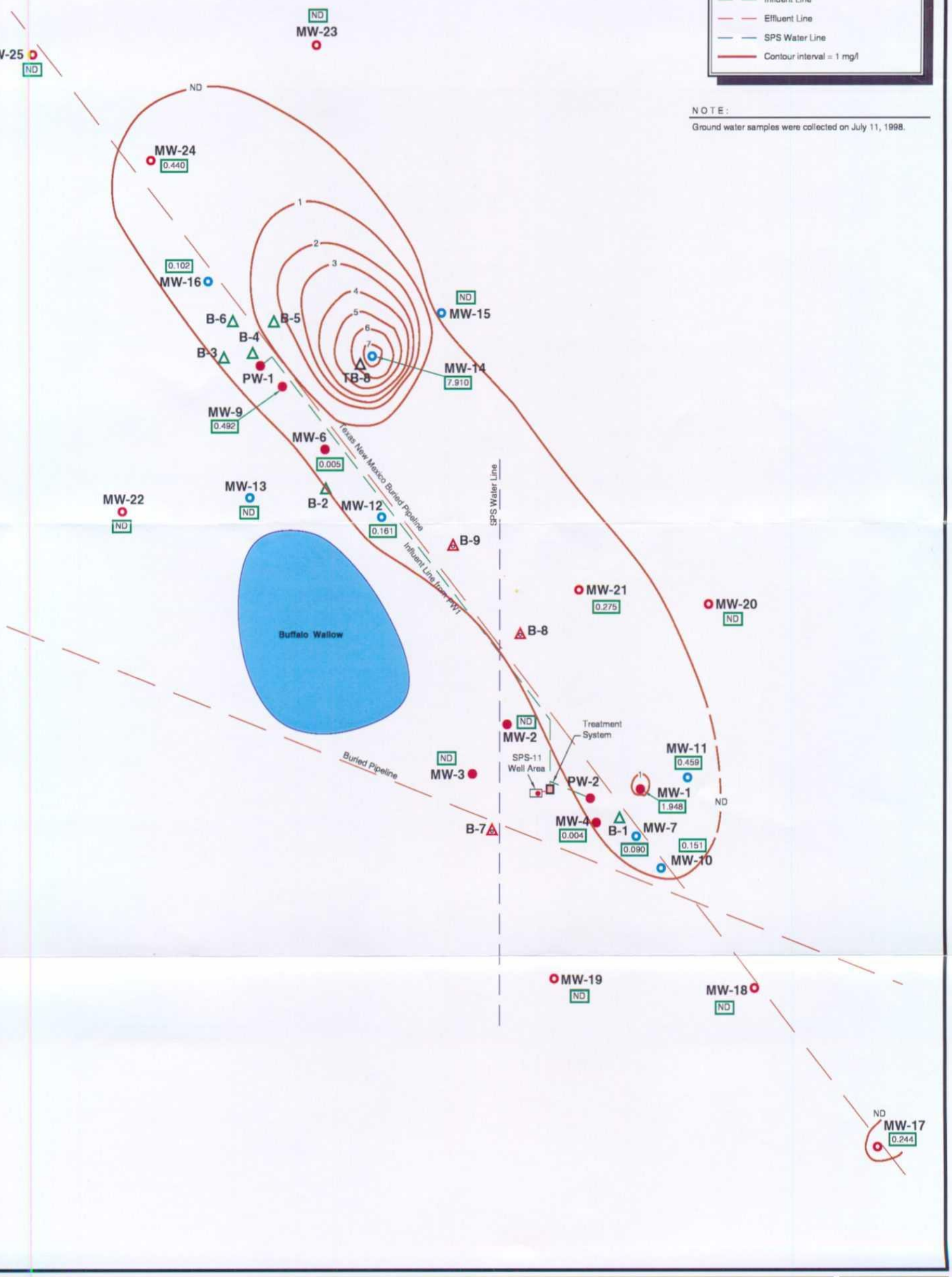
0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.237 — BTEX Concentration (mg/l)
- ND — Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour interval = 1 mg/l

NOTE:

Ground water samples were collected on July 11, 1998.

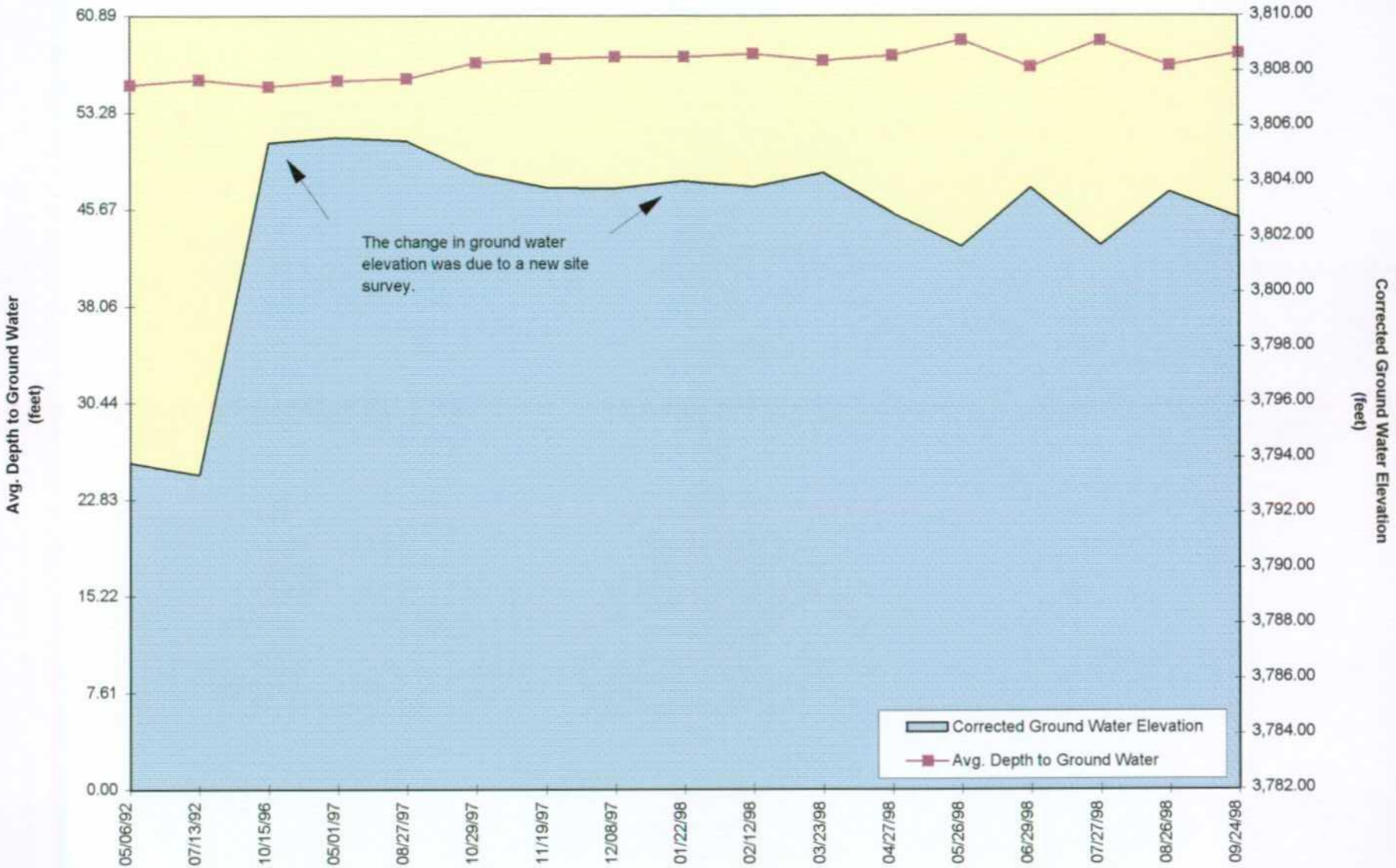


BTEX ISOPLETH MAP - JULY 1998		610099
TNMPL	SPS-11 LEA COUNTY, NEW MEXICO	FIG 3

k·e·i

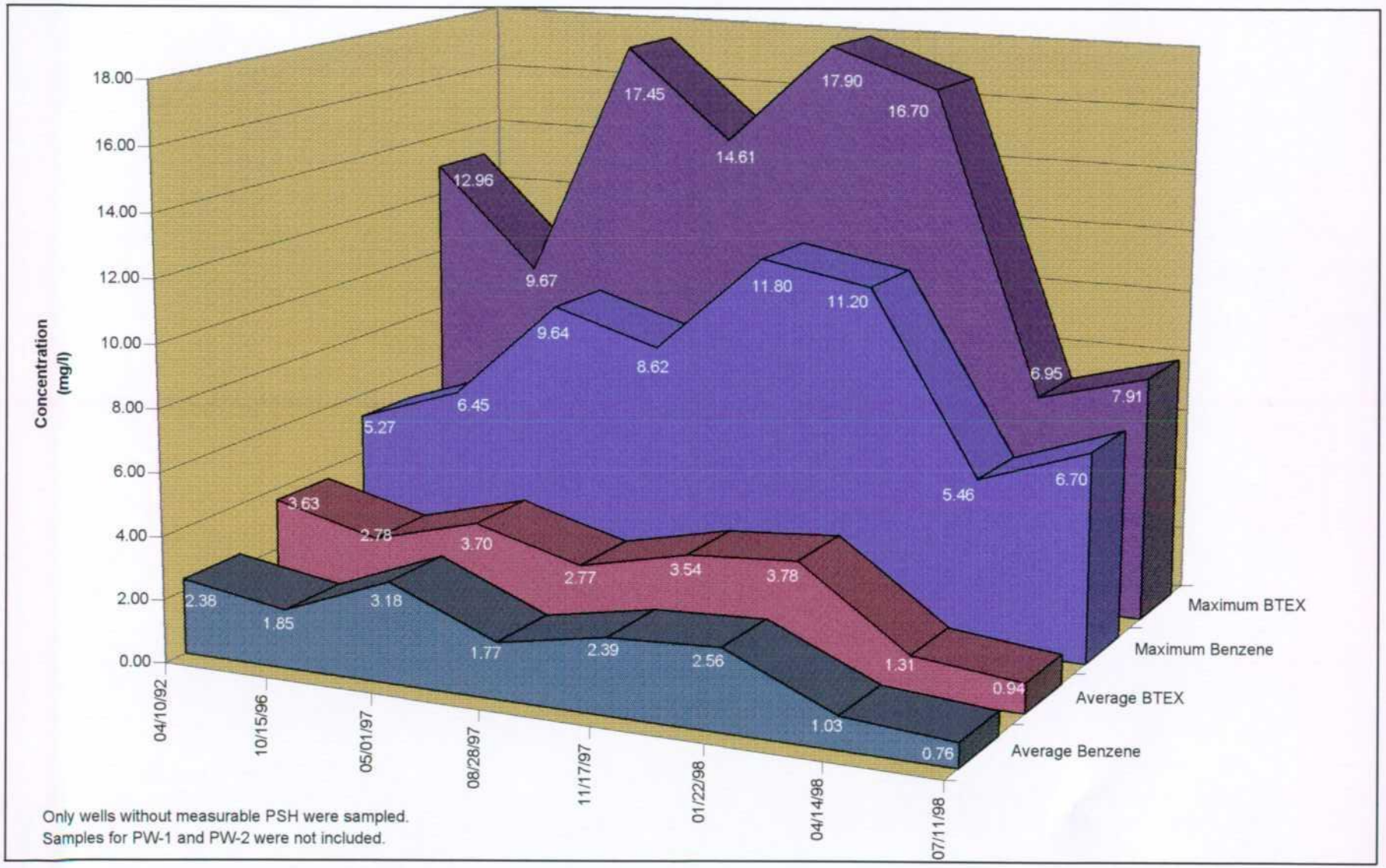
06/17/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\(BTX-JUL98)

FIGURE 4
AVERAGE GROUND WATER DATA



SPS-11
Lea County, New Mexico
KEI Job No. 610099-1
p:\tnmpl\610099\monitor\sumaverg.xls

FIGURE 5
DISSOLVED PHASE CONCENTRATIONS



SPS-11
Lea County, New Mexico
KEI Job No. 610099-1
p:\tnmpl\610099\monitor\sumaverg.xls

ANALYTICAL REPORT 1-82651

for

K.E.I. Consultants, Inc.

Project Manager: P. Hartnett/T. Nix

Project Name: SPS-11

Project Id: 610099-1-0

July 20, 1998

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
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Houston - Dallas - San Antonio - Latin America

July 20, 1998

Project Manager: P. Hartnett/T. Nix
K.E.I. Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: **XENCO Report No.: 1-82651**
Project Name: SPS-11
Project ID: 610099-1-0
Project Address: Lea County, NM

Dear P. Hartnett/T. Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-82651. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-82651 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82651

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: P. Hartnett/T. Nix
Project Location: Lea County, NM

Date Received in Lab : Jul 14, 1998 10:00
Date Report Faxed: Jul 20, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	182651 001 MW-1 Liquid 07/11/98 10:23	182651 002 MW-2 Liquid 07/11/98 11:00	182651 003 MW-3 Liquid 07/11/98 10:53	182651 004 MW-4 Liquid 07/11/98 09:58	182651 005 MW-6 Liquid 07/11/98 11:37	182651 006 MW-7 Liquid 07/11/98 10:07
BTEX EPA 8020	Analyzed: / Units:	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.
Benzene		1.312 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)	0.003 (0.001)	0.005 (0.004)	0.038 (0.004)
Toluene		0.111 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)	0.021 (0.004)
Ethylbenzene		0.420 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)	0.001 (0.001)	< 0.004 (0.004)	0.017 (0.004)
m,p-Xylenes		0.079 (0.008)	< 0.002 (0.002)	< 0.008 (0.008)	< 0.002 (0.002)	< 0.008 (0.008)	0.008 (0.008)
o-Xylene		0.026 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)	< 0.001 (0.001)	< 0.004 (0.004)	0.006 (0.004)
Total BTEX		1.948	N.D.	N.D.	0.004	0.005	0.090

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82651

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: P. Hartnett/T. Nix
Project Location: Lea County, NM

Date Received in Lab : Jul 14, 1998 10:00
Date Report Faxed: Jul 20, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	182651 007 MW-9 Liquid 07/11/98 11:31		182651 008 MW-10 Liquid 07/11/98 10:17		182651 009 MW-11 Liquid 07/11/98 10:30		182651 010 MW-12 Liquid 07/11/98 11:10		182651 011 MW-14 Liquid 07/11/98 11:45		182651 012 MW-15 Liquid 07/11/98 11:52	
BTEX EPA 8020	Analyzed: / Units:	07/16/98 ppm	R.L.	07/16/98 ppm	R.L.	07/16/98 ppm	R.L.	07/16/98 ppm	R.L.	07/16/98 ppm	R.L.	07/16/98 ppm	R.L.
Benzene		0.412	(0.004)	0.083	(0.004)	0.458	(0.001)	0.088	(0.001)	6.70	(0.02)	< 0.001	(0.001)
Toluene		< 0.004	(0.004)	0.030	(0.004)	0.001	(0.001)	0.028	(0.001)	0.10	(0.02)	< 0.001	(0.001)
Ethylbenzene		0.080	(0.004)	0.014	(0.004)	< 0.001	(0.001)	0.018	(0.001)	0.83	(0.02)	< 0.001	(0.001)
m,p-Xylenes		< 0.008	(0.008)	0.014	(0.008)	< 0.002	(0.002)	0.018	(0.002)	0.18	(0.04)	< 0.002	(0.002)
o-Xylene		< 0.004	(0.004)	0.010	(0.004)	< 0.001	(0.001)	0.009	(0.001)	0.10	(0.02)	< 0.001	(0.001)
Total BTEX		0.492		0.151		0.459		0.161		7.910		N.D.	

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CERTIFICATE OF ANALYSIS SUMMARY 1-82651

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: P. Hartnett/T. Nix
Project Location: Lea County, NM

Date Received in Lab : Jul 14, 1998 10:00
Date Report Faxed: Jul 20, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	182651 013 MW-16 Liquid 07/11/98 12:25	182651 014 MW-17 Liquid 07/11/98 09:34	182651 015 MW-18 Liquid 07/11/98 09:42	182651 016 MW-19 Liquid 07/11/98 09:50	182651 017 MW-20 Liquid 07/11/98 10:40	182651 018 MW-21 Liquid 07/11/98 10:45
BTEX EPA 8020	Analyzed: / Units:	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/16/98 ppm R.L.	07/15/98 ppm R.L.
Benzene		0.035 (0.001)	0.086 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.275 (0.001)
Toluene		0.044 (0.001)	0.069 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Ethylbenzene		0.012 (0.001)	0.010 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylenes		0.007 (0.002)	0.055 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
o-Xylene		0.004 (0.001)	0.024 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Total BTEX		0.102	0.244	N.D.	N.D.	N.D.	0.275

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-82651

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: P. Hartnett/T. Nix
Project Location: Lea County, NM

Date Received in Lab : Jul 14, 1998 10:00
Date Report Faxed: Jul 20, 1998
XENCO contact : Carlos Castro/Eddie Clemons

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	182651 019 MW-22 Liquid 07/11/98 11:23	182651 020 MW-23 Liquid 07/11/98 12:00	182651 021 MW-24 Liquid 07/11/98 12:10	182651 022 MW-25 Liquid 07/11/98 12:19	182651 023 MW-13 Liquid 07/11/98 11:18
BTEX EPA 8020	Analyzed: / Units:	07/15/98 ppm R.L.	07/15/98 ppm R.L.	07/15/98 ppm R.L.	07/15/98 ppm R.L.	07/15/98 ppm R.L.
Benzene		< 0.001 (0.001)	< 0.001 (0.001)	0.370 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Toluene		< 0.001 (0.001)	< 0.001 (0.001)	0.018 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Ethylbenzene		< 0.001 (0.001)	< 0.001 (0.001)	0.041 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylenes		< 0.002 (0.002)	< 0.002 (0.002)	0.008 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
o-Xylene		< 0.001 (0.001)	< 0.001 (0.001)	0.003 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Total BTEX		N.D.	N.D.	0.440	N.D.	N.D.

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C31

SW- 846 5030/8020 BTEX

Date Validated: Jul 17, 1998 15:00
Date Analyzed: Jul 16, 1998 17:15

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1030	0.1000	0.0010	103.0	70-125	
Toluene	< 0.0010	0.0906	0.1000	0.0010	90.6	70-125	
Ethylbenzene	< 0.0010	0.0905	0.1000	0.0010	90.5	70-125	
m,p-Xylenes	< 0.0020	0.1870	0.2000	0.0020	93.5	70-125	
o-Xylene	< 0.0010	0.0932	0.1000	0.0010	93.2	70-125	

Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25031

SW- 846 5030/8020 BTEX

Date Validated: Jul 17, 1998 15:00
Date Analyzed: Jul 16, 1998 18:03

Analyst: HL
Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 182651- 002 / Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.1090	0.1070	0.1000	0.0010	20.0	1.9	109.0	107.0	70-125	
Toluene	< 0.0010	0.1010	0.1030	0.1000	0.0010	20.0	2.0	101.0	103.0	70-125	
Ethylbenzene	< 0.0010	0.1010	0.1030	0.1000	0.0010	20.0	2.0	101.0	103.0	70-125	
m,p-Xylenes	< 0.0020	0.2100	0.2130	0.2000	0.0020	20.0	1.4	105.0	106.5	70-125	
o-Xylene	< 0.0010	0.1040	0.1060	0.1000	0.0010	20.0	1.9	104.0	106.0	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C29

SW- 846 5030/8020 BTEX

Date Validated: Jul 16, 1998 15:00
Date Analyzed: Jul 15, 1998 15:44

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
	[A]	[B]	[C]	[D]	[E]	[F]	[G]
					QC	LIMITS	
Parameter	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	ppm	ppm	ppm	ppm	%	%	
Benzene	< 0.0010	0.1080	0.1000	0.0010	108.0	70-125	
Toluene	< 0.0010	0.1030	0.1000	0.0010	103.0	70-125	
Ethylbenzene	< 0.0010	0.1030	0.1000	0.0010	103.0	70-125	
m,p-Xylenes	< 0.0020	0.2140	0.2000	0.0020	107.0	70-125	
o-Xylene	< 0.0010	0.1060	0.1000	0.0010	106.0	70-125	

nk Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25C29

SW- 846 5030/8020 BTEX

Date Validated: Jul 16, 1998 15:00
Date Analyzed: Jul 15, 1998 16:32

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 182651- 022	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.0960	0.0995	0.1000	0.0010	20.0	3.6	96.0	99.5	70-125	
Toluene	< 0.0010	0.0993	0.0985	0.1000	0.0010	20.0	0.8	99.3	98.5	70-125	
Ethylbenzene	< 0.0010	0.0988	0.0979	0.1000	0.0010	20.0	0.9	98.8	97.9	70-125	
m,p-Xylenes	< 0.0020	0.2050	0.2050	0.2000	0.0020	20.0	0.0	102.5	102.5	70-125	
o-Xylene	< 0.0010	0.1020	0.1020	0.1000	0.0010	20.0	0.0	102.0	102.0	70-125	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Manager: P. Hartnett/T. Nix
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-82651
Date Received in Lab: Jul 14, 1998 10:00 by LY
XENCO contact : Carlos Castro/Eddie Clemons

	Field ID	Lab, ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-1	182651-001	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:23		Jul 16, 1998 by HL	Jul 16, 1998 18:35 by HL
2	MW-2	182651-002	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:00		Jul 16, 1998 by HL	Jul 16, 1998 17:47 by HL
3	MW-3	182651-003	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:53		Jul 16, 1998 by HL	Jul 16, 1998 18:51 by HL
4	MW-4	182651-004	BTEX	SW-846	ppm	10 days	Jul 11, 1998 09:58		Jul 16, 1998 by HL	Jul 16, 1998 20:27 by HL
5	MW-6	182651-005	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:37		Jul 16, 1998 by HL	Jul 16, 1998 19:07 by HL
6	MW-7	182651-006	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:07		Jul 16, 1998 by HL	Jul 16, 1998 19:23 by HL
7	MW-9	182651-007	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:31		Jul 16, 1998 by HL	Jul 16, 1998 19:39 by HL
8	MW-10	182651-008	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:17		Jul 16, 1998 by HL	Jul 16, 1998 19:55 by HL
9	MW-11	182651-009	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:30		Jul 16, 1998 by HL	Jul 16, 1998 20:43 by HL
10	MW-12	182651-010	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:10		Jul 16, 1998 by HL	Jul 16, 1998 21:15 by HL
11	MW-14	182651-011	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:45		Jul 16, 1998 by HL	Jul 16, 1998 22:51 by HL
12	MW-15	182651-012	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:52		Jul 16, 1998 by HL	Jul 16, 1998 21:31 by HL
13	MW-16	182651-013	BTEX	SW-846	ppm	10 days	Jul 11, 1998 12:25		Jul 16, 1998 by HL	Jul 16, 1998 21:47 by HL
14	MW-17	182651-014	BTEX	SW-846	ppm	10 days	Jul 11, 1998 09:34		Jul 16, 1998 by HL	Jul 16, 1998 22:03 by HL
15	MW-18	182651-015	BTEX	SW-846	ppm	10 days	Jul 11, 1998 09:42		Jul 16, 1998 by HL	Jul 16, 1998 22:19 by HL
16	MW-19	182651-016	BTEX	SW-846	ppm	10 days	Jul 11, 1998 09:50		Jul 16, 1998 by HL	Jul 16, 1998 22:35 by HL
17	MW-20	182651-017	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:40		Jul 16, 1998 by HL	Jul 16, 1998 23:07 by HL
18	MW-21	182651-018	BTEX	SW-846	ppm	10 days	Jul 11, 1998 10:45		Jul 15, 1998 by HL	Jul 15, 1998 17:36 by HL
19	MW-22	182651-019	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:23		Jul 15, 1998 by HL	Jul 15, 1998 17:52 by HL
20	MW-23	182651-020	BTEX	SW-846	ppm	10 days	Jul 11, 1998 12:00		Jul 15, 1998 by HL	Jul 15, 1998 18:08 by HL
21	MW-24	182651-021	BTEX	SW-846	ppm	10 days	Jul 11, 1998 12:10		Jul 15, 1998 by HL	Jul 15, 1998 17:04 by HL
22	MW-25	182651-022	BTEX	SW-846	ppm	10 days	Jul 11, 1998 12:19		Jul 15, 1998 by HL	Jul 15, 1998 16:16 by HL
23	MW-13	182651-023	BTEX	SW-846	ppm	10 days	Jul 11, 1998 11:18		Jul 15, 1998 by HL	Jul 15, 1998 17:20 by HL

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 18265I-SA

Contractor: K·E·I Consultants | Phone: (210) 680-3767

Address: 5309 Wurzbach, Ste 100 San Antonio, TX 78238

Project Name: SPS-11 | Project Director: Mike Hawthorne

Project Location: Lea County, NM | Project Manager: Paul Hartnett/Theresa Nix

Sampler Signature: [signature] | Project No.: 610099-1-0

No. coolers this shipment: | Contractor COC # 157

Carrier: UPS | Quote #:

Airbill No. | P.O. No: 610099-1-0

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	LAB ONLY ID #
1	MW-1	11 July 98	10:23			/		/	40 ML		/	HCl		2				
2	MW-2		11:00															
3	MW-3		10:53															
4	MW-4		9:58															
5	MW-5		11:37															
6	MW-7		10:07															
7	MW-9		11:31															
8	MW-10		10:17															
9	MW-11		10:30															
10	MW-12	▼	11:10			▼		▼	▼		▼	▼		▼	▼			

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

Remarks: Please call Theresa I IF you have any Question on the Analyses

Unl Dies Ker Unknown | Waste Oil | PIT No: | Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
[signature]	7-13-98	1500	by UPS		
			Received For Laboratory by: [signature]	7/14/98	1000

Remarks:
Please Fax Analytical Results to Theresa Nix at 210-680-3763
• BTEX: EPA METHOD SW846-8020

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 182651-5A

Contractor: K·E·I Consultants | Phone: (210) 680-3767
Address: 5309 Wurzbach, Ste 100 San Antonio, TX 78238
Project Name: SPS-11 | Project Director: Mike Hendrhorne
Project Location: Lea County, NM | Project Manager: Bud Hartnett / Theresa Wilk
Sampler Signature: Stanley Sievers | Project No.: 610099-1-0

No. coolers this shipment:
Carrier: UPS
Airbill No.
Contractor COC # 157
Quote #:
P.O. No: 610099-1-0

SAMPLE CHARACTERIZATION

Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1 mw-14	11 July 98	11:45			X		X	40 ML		X	HCL	2	X			Call Theresa if you have any Question on the Analyses.	1
2 mw-15		11:52															2
3 mw-16		12:25															3
4 mw-17		9:34															4
5 mw-18		9:42															5
6 mw-19		9:50															6
7 mw-20		10:40															7
8 mw-21		10:45															8
9 mw-22		11:23															9
10 mw-23	▼	12:00			▼		▼	▼		▼	▼	▼	▼				10

Turn-around
* ASAP
* 24 hrs
48 hrs
Standard

Waste Oil
PIT No: Tank No:
Sample Description
Unl Dies Ker Unknown

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Sievers	7-13-98	1500			
			Received For Laboratory by: T. Yochem (by UPS)	7/14/98	1000

Remarks
Please fax Analytical Results to Theresa at 210-680-3763
• BTEX : EPA METHOD SW846-8020

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 18265-SA

Contractor: K·E·I Consultants — Phone: (210) 680-3767
Address: 5309 Wurzbach Ste 100, San Antonio, TX 78238
Project Name: SPS-11 — Project Director: Mike Hawthorne
Project Location: Lea County, NM — Project Manager: Paul Hartnett/Theresa Nix
Sampler Signature: Stanley Groves — Project No.: 610099-1-0

No. coolers this shipment:
Carrier: UPS
Airbill No.
Contractor COC # 157
Quote #:
P.O. No.: 610099-1-0

Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of Containers Total	BTEX (8020/8020-602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1 MW-24	11 July 98	12:10			/		/	40 mL		/	HCL		2	/				1
2 MW-25	11 July 98	12:19			/		/	40 mL		/	HCL		2	/				2
3 MW-13	July-11 98	11:18			/		/	/		/	HCL		2	/				3
4																		4
5																		5
6																		6
7																		7
8																		8
9																		9
10																		10

Turn-around: * ASAP * 24 hrs 48 hrs (Standard)

SAMPLE CHARACTERIZATION: Unl Dies Ker Unknown; Waste Oil; PIT No: Tank No:

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Groves	7-13-98	1500			
			Received For Laboratory by: by UPS Laurie Yorley	7/14/98	1000

Remarks: Please fax Analytical Results to Theresa at 210-680-3763
* BTEX: EPA Method SW846-8020

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

k·e·i
5309 Wurzbach, Suite 100
San Antonio, Texas 78238
(210) 680-3767
(210) 680-3763 FAX

January 4, 1999

Mr. Tony Savoie
TEXAS - NEW MEXICO PIPE LINE COMPANY
P. O. Box 1030
Jal, New Mexico 88252

RECEIVED
JAN 22 1999
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Re: Groundwater Monitoring Event
Texas - New Mexico Pipe Line Company
SPS-11
Section 18, Township 18 South, Range 36 East
Lea County, New Mexico
Job No. 610099-1

Dear Mr. Savoie:

Transmitted with this letter is the ground water binder update packet for the fourth quarter of 1998 ground water monitoring event conducted at SPS-11 located in Lea County, New Mexico. A copy has been submitted to the OCD Hobbs and Santa Fe offices.

The packet contains the following:

- Updated gauging tables
- Updated ground water laboratory results tables
- Updated figures
- A copy of the laboratory ground water results and chain-of-custody documentation
- A dated "tab" for the new event
- A revised Table of Contents

Please remove and replace the former tables and Table of Contents. Add the new dated tab and place the updated figures, laboratory reports, and chain-of-custody documentation behind this tab.

Please call me at (210) 680-3767 if you have any questions or comments.

Respectfully,

Theresa Nix

Theresa Nix
Project Manager

Enclosure

cc: Marc Oler, Equilon
OCD Hobbs
OCD Santa Fe, William Olson
J. Michael Hawthorne, KEI

p:\tnmpl\610099\monitor\cgwb4q98.doc

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TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-6	04/10/92	0.130	0.011	ND	ND	0.141
MW-6	10/15/96	0.210	0.002	0.021	0.006	0.239
MW-6	05/01/97	ND	0.001	0.002	0.004	0.007
MW-6	08/28/97	0.082	ND	0.002	0.003	1.038
MW-6	11/17/97	0.141	ND	0.006	0.005	0.152
MW-6	01/22/98	ND	ND	ND	ND	ND
MW-6	04/14/98	0.026	ND	ND	ND	0.026
MW-6	07/11/98	0.005	ND	ND	ND	0.005
MW-6	10/28/98	0.018	ND	0.005	0.003	0.026
MW-7	04/10/92	1.590	0.590	0.470	0.310	2.960
MW-7	10/15/96	0.211	0.016	0.095	0.066	0.388
MW-7	05/01/97	0.368	0.034	0.206	0.124	0.732
MW-7	08/28/97	0.502	0.064	0.302	0.170	1.038
MW-7	11/17/97	0.288	0.014	ND	0.159	0.461
MW-7	01/21/98	0.154	0.013	0.045	0.014	0.226
MW-7	04/15/98	0.053	0.013	0.006	0.007	0.079
MW-7	07/11/98	0.038	0.021	0.017	0.014	0.090
MW-7	10/28/98	0.042	0.023	0.024	0.045	0.134
MW-9	04/10/92	5.270	4.650	1.380	1.660	12.960
MW-9	10/15/96	4.224	0.056	1.252	0.865	6.397
MW-9	05/01/97	6.180	0.019	2.056	1.383	9.638
MW-9	08/28/97	2.930	ND	0.930	0.360	4.220
MW-9	11/17/97	2.5	0.2	0.7	0.5	3.9
MW-9	01/22/98	1.692	0.015	0.836	0.523	3.066
MW-9	04/14/98	0.912	ND	0.108	ND	1.020
MW-9	07/11/98	0.412	ND	0.080	ND	0.492
MW-9	10/28/98	1.232	ND	0.147	0.042	1.421
MW-10	05/01/97	0.184	0.292	0.124	0.180	0.776
MW-10	08/28/97	0.123	0.146	0.162	0.158	0.589
MW-10	11/17/97	0.143	0.203	0.165	0.153	0.664
MW-10	07/11/98	0.083	0.030	0.014	0.024	0.151
MW-10	10/28/98	0.33	0.31	0.25	0.44	1.330

TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-11	05/01/97	1.177	ND	0.011	0.027	1.215
MW-11	08/28/97	2.74	ND	0.11	0.04	2.89
MW-11	11/17/97	3.32	ND	ND	ND	3.32
MW-11	01/21/98	2.116	ND	0.004	ND	2.120
MW-11	04/14/98	1.112	ND	ND	ND	1.112
MW-11	07/11/98	0.458	0.001	ND	ND	0.459
MW-11	10/28/98	3.61	ND	ND	ND	3.610
MW-12	05/01/97	ND	0.003	0.001	0.027	0.031
MW-12	08/28/97	0.099	0.032	0.030	0.043	0.204
MW-12	11/17/97	0.237	0.088	0.047	0.106	0.478
MW-12	01/22/98	0.173	ND	0.035	0.021	0.229
MW-12	04/15/98	0.002	0.001	ND	0.002	0.005
MW-12	07/11/98	0.088	0.028	0.018	0.027	0.161
MW-12	10/28/98	0.135	0.036	0.028	0.051	0.250
MW-13	05/01/97	ND	ND	ND	ND	ND
MW-13	08/28/97	ND	ND	ND	ND	ND
MW-13	11/17/97	ND	ND	ND	ND	ND
MW-13	01/22/98	ND	ND	ND	ND	ND
MW-13	04/15/98	ND	ND	ND	ND	ND
MW-13	07/11/98	ND	ND	ND	ND	ND
MW-13	10/28/98	ND	ND	ND	ND	ND
MW-14	05/01/97	9.639	2.414	2.626	2.769	17.448
MW-14	08/28/97	8.62	2.04	1.91	2.04	14.61
MW-14	11/17/97	7.76	2.36	ND	1.67	11.79
MW-14	01/22/98	11.2	1.50	2.40	1.60	16.700
MW-14	04/14/98	5.46	ND	1.22	0.27	6.950
MW-14	07/11/98	6.70	0.10	0.83	0.28	7.910
MW-14	10/28/98	12.3	0.1	2.3	2.4	17.100
MW-15	05/01/97	0.004	0.002	0.002	0.003	0.011
MW-15	08/28/97	0.441	ND	ND	ND	0.441
MW-15	11/17/97	0.063	ND	ND	ND	0.063
MW-15	01/22/98	0.237	ND	ND	ND	0.237
MW-15	04/14/98	0.180	ND	ND	ND	0.180

TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-15	07/11/98	ND	ND	ND	ND	ND
MW-15	10/28/98	ND	ND	ND	ND	ND
MW-16	05/01/97	0.101	0.090	0.015	0.012	0.218
MW-16	08/28/97	0.112	0.119	0.060	0.036	0.327
MW-16	11/17/97	0.053	0.061	0.021	0.035	0.170
MW-16	01/22/98	ND	ND	ND	ND	ND
MW-16	04/14/98	0.015	0.024	0.005	0.006	0.050
MW-16	07/11/98	0.035	0.044	0.012	0.011	0.102
MW-16	10/28/98	0.046	0.051	0.015	0.025	0.137
MW-17	01/21/98	0.158	0.156	0.026	0.040	0.380
MW-17	04/14/98	0.247	0.278	0.089	0.108	0.722
MW-17	07/11/98	0.086	0.069	0.010	0.079	0.244
MW-17	10/28/98	0.89	0.61	0.16	0.34	2.000
MW-18	01/21/98	ND	ND	ND	ND	ND
MW-18	04/14/98	ND	ND	ND	ND	ND
MW-18	07/11/98	ND	ND	ND	ND	ND
MW-18	10/28/98	ND	ND	ND	ND	ND
MW-19	01/21/98	ND	ND	ND	ND	ND
MW-19	04/14/98	ND	ND	ND	ND	ND
MW-19	07/11/98	ND	ND	ND	ND	ND
MW-19	10/28/98	ND	ND	ND	ND	ND
MW-20	01/22/98	ND	ND	ND	ND	ND
MW-20	04/14/98	ND	ND	ND	ND	ND
MW-20	07/11/98	ND	ND	ND	ND	ND
MW-20	10/28/98	ND	ND	ND	ND	ND
MW-21	01/22/98	0.932	ND	ND	ND	0.932
MW-21	04/14/98	0.844	ND	ND	ND	0.844
MW-21	07/11/98	0.275	ND	ND	ND	0.275
MW-21	10/28/98	1.25	ND	ND	ND	1.250
MW-22	01/22/98	ND	ND	ND	ND	ND

TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-22	04/15/98	ND	ND	ND	ND	ND
MW-22	07/11/98	ND	ND	ND	ND	ND
MW-22	10/28/98	ND	ND	ND	ND	ND
MW-23	01/22/98	ND	ND	ND	ND	ND
MW-23	04/14/98	0.001	0.004	0.002	0.006	0.013
MW-23	07/11/98	ND	ND	ND	ND	ND
MW-23	10/28/98	ND	ND	ND	ND	ND
MW-24	01/22/98	1.40	0.23	0.15	0.11	1.890
MW-24	04/14/98	1.192	0.074	0.152	0.049	1.467
MW-24	07/11/98	0.370	0.018	0.041	0.011	0.440
MW-24	10/28/98	2.84	0.12	0.19	0.32	3.470
MW-25	01/22/98	ND	ND	ND	ND	ND
MW-25	04/14/98	ND	ND	ND	ND	ND
MW-25	07/11/98	ND	ND	ND	ND	ND
MW-25	10/28/98	ND	ND	ND	ND	ND
PW-1	10/15/96	0.007	ND	ND	ND	0.007
PW-2	05/07/92	0.048	0.054	0.022	0.024	0.148
PW-2	10/15/96	ND	0.001	0.001	0.013	0.015

TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - TPH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	TPH (mg/l)
MW-1	10/15/96	4
MW-2	10/15/96	ND
MW-3	10/15/96	ND
MW-4	10/15/96	ND
MW-6	10/15/96	ND
MW-7	10/15/96	2.000
MW-9	10/15/96	17.000
PW-1	10/15/96	ND
PW-2	10/15/96	ND

TABLE II

SUMMARY OF GROUND WATER LABORATORY RESULTS - PAH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97
PARAMETER:	CONCENTRATION (mg/l)													
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.012	ND	ND	ND	ND	0.009	0.031	ND	ND	ND	ND	0.061	0.002	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE II

SUMMARY OF GROUND WATER LABORATORY RESULTS - PAH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98
PARAMETER:	CONCENTRATION (mg/l)													
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.037	ND	ND	ND	ND	ND	0.011	ND	ND	ND	0.040	0.040	ND	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE II

SUMMARY OF GROUND WATER LABORATORY RESULTS - PAH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25
DATE SAMPLED:	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98
PARAMETER:									
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	ND	ND	ND	ND	0.008	ND	ND	0.004	ND
Phenanthrene	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - RCRA METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97
PARAMETER:	CONCENTRATION (mg/l)													
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.81	0.17	0.17	0.10	0.17	0.90	0.68	0.67	0.41	0.28	0.29	0.85	0.21	0.19
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	0.30	ND	ND	ND	ND	ND	0.07	ND	ND	0.08	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - RCRA METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98
PARAMETER:	CONCENTRATION (mg/l)													
Arsenic	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	1.20	0.18	0.11	0.10	0.15	0.76	0.49	0.42	0.17	0.18	0.12	0.55	0.16	0.15
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - RCRA METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25
DATE SAMPLED:	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98
PARAMETER:									
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.14	0.16	0.12	0.13	0.19	0.11	0.13	0.22	0.13
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - ICP METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97
PARAMETER:	CONCENTRATION (mg/l)													
Aluminum	ND	ND	ND	ND	0.51	ND	ND	ND	0.26	ND	ND	ND	ND	0.24
Barium	1.06	0.19	0.080	0.088	0.16	0.80	0.45	0.40	0.16	0.18	0.12	0.12	0.14	0.16
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	116	102	59.4	66.7	116	113	129	154	149	140	119	204	127	126
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	0.24	0.29	ND	ND	0.48	3.55	6.72	0.55	0.76	ND	ND	0.59	ND	0.15
Magnesium	40.3	16.7	6.71	8.44	15.9	34.4	34.1	33.0	15.6	19.1	9.35	44.3	15.5	13.5
Manganese	0.31	ND	ND	ND	ND	0.32	0.38	0.16	0.14	ND	ND	0.25	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silicon	17.7	18.3	11.9	10.4	13.2	10.4	11.4	11.5	22.9	23.4	21.2	25.9	24.2	23.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	0.89	0.60	0.33	0.32	0.52	0.55	0.57	0.52	0.73	0.85	0.56	1.20	0.77	0.69
Tin	ND	ND	ND	ND	ND	0.74	1.48	ND	0.33	ND	ND	0.26	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.22	0.23

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - ICP METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED:	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98
PARAMETER:	CONCENTRATION (mg/l)													
Aluminum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	ND	ND
Barium	1.20	0.18	0.110	0.100	0.15	0.76	0.49	0.42	0.17	0.18	0.12	0.55	0.16	0.15
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	0.26	0.13	ND	ND	0.15	0.13	0.18	0.14	0.16	0.15	0.13	0.41	0.19	0.15
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	126	123	67.4	65.9	116	111	140	192	190	130	89.3	196	158	117
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	0.08	ND	ND	ND	ND	ND	ND	ND
Iron	7.61	ND	ND	ND	ND	2.94	4.83	0.89	ND	ND	ND	3.56	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	53.8	19.3	8.6	9.50	15.4	39.7	37.6	51.8	17.8	19.1	10.2	49.2	16.4	15.3
Manganese	0.37	ND	ND	ND	ND	0.34	0.40	0.22	0.08	ND	ND	0.45	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silicon	24.1	25.0	17.4	17.3	22.4	21	23.1	25.4	24.1	24.3	20.6	27.6	24.5	23.1
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	ND	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	1.24	ND	ND
Tin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	0.04	ND	ND	ND	ND	ND	ND	0.03	ND	ND	ND
Zinc	0.11	ND	0.15	ND	ND	ND	0.57	ND	ND	ND	0.09	0.16	0.22	0.10

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - ICP METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID:	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25
DATE SAMPLED:	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98	10/28/98
PARAMETER:									
Aluminum	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.14	0.16	0.12	0.13	0.19	0.11	0.13	0.22	0.13
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	0.15	0.12	0.11	0.16	0.14	0.12	0.15	0.17	0.14
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	170	172	197	184	153	110	127	278	152
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND
Magnesium	16.3	18.8	14	16.7	21	8.8	11.7	23.6	13.5
Manganese	ND	ND	ND	ND	ND	ND	ND	0.07	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silicon	23.3	25.2	23.6	27.4	26.9	19.9	22.3	26.5	22.8
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tin	ND	0.94	ND	ND	ND	ND	ND	ND	ND
Vanadium	ND	ND	ND	ND	ND	0.04	ND	ND	ND
Zinc	ND	0.12	ND	ND	ND	ND	0.06	ND	ND

TABLE IV

MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.61	55.37	3792.24	---	---
07/13/92	3847.61	55.93	3791.68	---	---
10/15/96	3859.20	54.96	3804.24	---	---
05/01/97	3859.20	55.20	3804.00	---	---
08/27/97	3859.20	55.28	3803.92	---	---
10/16/97	3859.20	56.55	3802.65	---	---
10/17/97	3859.20	56.64	3802.56	---	---
10/18/97	3859.20	56.72	3802.48	---	---
10/19/97	3859.20	56.79	3802.41	---	---
10/20/97	3859.20	56.87	3802.33	---	---
10/22/97	3859.20	57.00	3802.20	---	---
10/29/97	3859.20	57.11	3802.09	---	---
11/05/97	3859.20	56.77	3802.43	---	---
11/12/97	3859.20	57.00	3802.20	---	---
11/17/97	3859.20	57.33	3801.87	---	---
11/19/97	3859.20	57.34	3801.86	---	---
12/08/97	3859.20	57.59	3801.61	---	---
01/07/98	3859.20	56.81	3802.39	---	---
01/21/98	3859.08	57.69	3801.39	---	---
02/12/98	3859.08	57.83	3801.25	---	---
03/23/98	3859.08	56.92	3802.16	---	---
04/13/98	3859.08	57.02	3802.06	---	---
04/20/98	3859.08	56.41	3802.67	---	---
04/27/98	3859.08	56.29	3802.79	---	---
05/04/98	3859.08	56.21	3802.87	---	---
05/11/98	3859.08	57.48	3801.60	---	---
05/18/98	3859.08	57.59	3801.49	---	---
05/26/98	3859.08	56.69	3802.39	---	---
06/02/98	3859.08	56.98	3802.10	---	---
06/08/98	3859.08	57.02	3802.06	---	---
06/15/98	3859.08	56.64	3802.44	---	---
06/22/98	3859.08	56.36	3802.72	---	---
06/29/98	3859.08	56.27	3802.81	---	---
07/10/98	3859.08	56.23	3802.85	---	---
07/14/98	3859.08	56.32	3802.76	---	---
07/24/98	3859.08	56.48	3802.60	---	---

TABLE IV

MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/27/98	3859.08	57.17	3801.91	---	---
08/04/98	3859.08	57.53	3801.55	---	---
08/10/98	3859.08	56.48	3802.60	---	---
08/18/98	3859.08	56.48	3802.60	---	---
08/26/98	3859.08	56.41	3802.67	---	---
09/02/98	3859.08	56.32	3802.76	---	---
09/10/98	3859.08	56.23	3802.85	---	---
09/18/98	3859.08	56.18	3802.90	---	---
09/24/98	3859.08	56.59	3802.49	---	---
10/02/98	3859.08	57.33	3801.75	---	---
10/06/98	3859.08	57.36	3801.72	---	---
10/15/98	3859.08	57.53	3801.55	---	---
10/26/98	3859.08	57.16	3801.92	---	---
11/02/98	3859.08	57.24	3801.84	---	---
11/09/98	3859.08	57.81	3801.27	---	---
11/16/98	3859.08	57.40	3801.68	---	---
11/23/98	3859.08	57.02	3802.06	---	---
12/01/98	3859.08	57.24	3801.84	---	---
12/07/98	3859.08	56.56	3802.52	---	---
12/26/98	3859.08	56.36	3802.72	---	---

TABLE IV

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3848.68	56.06	3792.62	---	---
07/13/92	3848.68	56.43	3792.25	---	---
10/15/96	3860.90	55.65	3805.25	---	---
05/01/97	3860.90	55.85	3805.05	---	---
08/27/97	3860.90	56.22	3804.68	---	---
10/16/97	3860.90	56.80	3804.10	---	---
10/17/97	3860.90	56.86	3804.04	---	---
10/18/97	3860.90	56.93	3803.97	---	---
10/19/97	3860.90	56.98	3803.92	---	---
10/20/97	3860.90	57.04	3803.86	---	---
10/22/97	3860.90	57.11	3803.79	---	---
10/29/97	3860.90	57.21	3803.69	---	---
11/05/97	3860.90	57.01	3803.89	---	---
11/12/97	3860.90	57.16	3803.74	---	---
11/17/97	3860.90	57.64	3803.26	---	---
11/19/97	3860.90	57.66	3803.24	---	---
12/08/97	3860.90	57.69	3803.21	---	---
01/07/98	3860.90	57.36	3803.54	---	---
01/21/98	3860.76	57.84	3802.92	---	---
02/12/98	3860.76	57.99	3802.77	---	---
03/23/98	3860.76	57.21	3803.55	---	---
04/13/98	3860.76	57.29	3803.47	---	---
04/20/98	3860.76	57.03	3803.73	---	---
04/27/98	3860.76	57.00	3803.76	---	---
05/04/98	3860.76	56.94	3803.82	---	---
05/11/98	3860.76	57.76	3803.00	---	---
05/18/98	3860.76	57.83	3802.93	---	---
05/26/98	3860.76	57.21	3803.55	---	---
06/02/98	3860.76	57.37	3803.39	---	---
06/08/98	3860.76	57.64	3803.12	---	---
06/15/98	3860.76	57.27	3803.49	---	---
06/22/98	3860.76	57.03	3803.73	---	---
06/29/98	3860.76	56.94	3803.82	---	---
07/10/98	3860.76	57.14	3803.62	---	---
07/14/98	3860.76	56.95	3803.81	---	---
07/24/98	3860.76	57.12	3803.64	---	---
07/27/98	3860.76	57.47	3803.29	---	---

TABLE IV

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/04/98	3860.76	57.79	3802.97	---	---
08/10/98	3860.76	57.44	3803.32	---	---
08/18/98	3860.76	57.14	3803.62	---	---
08/26/98	3860.76	57.07	3803.69	---	---
09/02/98	3860.76	57.01	3803.75	---	---
09/10/98	3860.76	56.92	3803.84	---	---
09/18/98	3860.76	56.85	3803.91	---	---
09/24/98	3860.76	56.98	3803.78	---	---
10/02/98	3860.76	57.55	3803.21	---	---
10/06/98	3860.76	57.77	3802.99	---	---
10/15/98	3860.76	57.78	3802.98	---	---
10/26/98	3860.76	57.46	3803.30	---	---
11/02/98	3860.76	57.56	3803.20	---	---
11/09/98	3860.76	58.04	3802.72	---	---
11/16/98	3860.76	57.61	3803.15	---	---
11/23/98	3860.76	57.53	3803.23	---	---
12/01/98	3860.76	57.52	3803.24	---	---
12/07/98	3860.76	57.21	3803.55	---	---
12/26/98	3860.76	57.01	3803.75	---	---

TABLE IV

MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.23	56.48	3792.75	---	---
07/13/92	3849.23	56.86	3792.37	---	---
10/15/96	3861.30	56.07	3805.23	---	---
05/01/97	3861.30	56.28	3805.02	---	---
08/27/97	3861.30	56.57	3804.73	---	---
10/16/97	3861.30	57.30	3804.00	---	---
10/17/97	3861.30	57.36	3803.94	---	---
10/18/97	3861.30	57.42	3803.88	---	---
10/19/97	3861.30	57.48	3803.82	---	---
10/20/97	3861.30	57.53	3803.77	---	---
10/22/97	3861.30	57.63	3803.67	---	---
10/29/97	3861.30	57.72	3803.58	---	---
11/05/97	3861.30	57.48	3803.82	---	---
11/12/97	3861.30	57.64	3803.66	---	---
11/17/97	3861.30	58.07	3803.23	---	---
11/19/97	3861.30	58.07	3803.23	---	---
12/08/97	3861.30	58.25	3803.05	---	---
01/07/98	3861.30	57.79	3803.51	---	---
01/21/98	3861.15	58.34	3802.81	---	---
02/12/98	3861.15	58.47	3802.68	---	---
03/23/98	3861.15	57.66	3803.49	---	---
04/13/98	3861.15	57.73	3803.42	---	---
04/20/98	3861.15	57.41	3803.74	---	---
04/27/98	3861.15	57.39	3803.76	---	---
05/04/98	3861.15	57.33	3803.82	---	---
05/11/98	3861.15	58.24	3802.91	---	---
05/18/98	3861.15	58.31	3802.84	---	---
05/26/98	3861.15	57.63	3803.52	---	---
06/02/98	3861.15	57.79	3803.36	---	---
06/08/98	3861.15	58.08	3803.07	---	---
06/15/98	3861.15	57.70	3803.45	---	---
06/22/98	3861.15	57.44	3803.71	---	---
06/29/98	3861.15	57.36	3803.79	---	---
07/10/98	3861.15	57.52	3803.63	---	---
07/14/98	3861.15	57.39	3803.76	---	---
07/24/98	3861.15	57.53	3803.62	---	---
07/27/98	3861.15	57.96	3803.19	---	---

TABLE IV

MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/04/98	3861.15	58.27	3802.88	---	---
08/10/98	3861.15	57.84	3803.31	---	---
08/18/98	3861.15	57.55	3803.60	---	---
08/26/98	3861.15	57.50	3803.65	---	---
09/02/98	3861.15	57.71	3803.44	---	---
09/10/98	3861.15	57.34	3803.81	---	---
09/18/98	3861.15	57.27	3803.88	---	---
09/24/98	3861.15	57.46	3803.69	---	---
10/02/98	3861.15	58.05	3803.10	---	---
10/06/98	3861.15	58.22	3802.93	---	---
10/15/98	3861.15	58.22	3802.93	---	---
10/26/98	3861.15	57.87	3803.28	---	---
11/02/98	3861.15	58.04	3803.11	---	---
11/09/98	3861.15	58.52	3802.63	---	---
11/16/98	3861.15	58.09	3803.06	---	---
11/23/98	3861.15	57.96	3803.19	---	---
12/01/98	3861.15	58.02	3803.13	---	---
12/07/98	3861.15	57.63	3803.52	---	---
12/26/98	3861.15	57.46	3803.69	---	---

TABLE IV

MONITORING WELL MW-4
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.58	55.36	3792.22	---	---
07/13/92	3847.58	55.83	3791.75	---	---
10/15/96	3859.40	55.14	3804.26	---	---
05/01/97	3859.40	55.27	3804.13	---	---
08/27/97	3859.40	55.44	3803.96	---	---
10/16/97	3859.40	57.44	3801.96	---	---
10/17/97	3859.40	57.54	3801.86	---	---
10/18/97	3859.40	57.59	3801.81	---	---
10/19/97	3859.40	57.69	3801.71	---	---
10/20/97	3859.40	57.75	3801.65	---	---
10/22/97	3859.40	57.86	3801.54	---	---
10/29/97	3859.40	57.93	3801.47	---	---
11/05/97	3859.40	57.28	3802.12	---	---
11/12/97	3859.40	57.72	3801.68	---	---
11/17/97	3859.40	58.05	3801.35	---	---
11/19/97	3859.40	58.06	3801.34	---	---
12/08/97	3859.40	58.22	3801.18	---	---
01/07/98	3859.40	57.15	3802.25	---	---
01/21/98	3859.62	56.38	3803.24	---	---
02/12/98	3859.62	58.50	3801.12	---	---
03/23/98	3859.62	57.40	3802.22	---	---
04/13/98	3859.62	57.51	3802.11	---	---
04/20/98	3859.62	56.55	3803.07	---	---
04/27/98	3859.62	56.46	3803.16	---	---
05/04/98	3859.62	56.39	3803.23	---	---
05/11/98	3859.62	58.26	3801.36	---	---
05/18/98	3859.62	58.33	3801.29	---	---
05/26/98	3859.62	56.76	3802.86	---	---
06/02/98	3859.62	57.27	3802.35	---	---
06/08/98	3859.62	57.30	3802.32	---	---
06/15/98	3859.62	56.84	3802.78	---	---
06/22/98	3859.62	56.55	3803.07	---	---
06/29/98	3859.62	56.44	3803.18	---	---
07/10/98	3859.62	56.33	3803.29	---	---
07/14/98	3859.62	56.64	3802.98	---	---
07/24/98	3859.62	56.66	3802.96	---	---
07/27/98	3859.62	57.67	3801.95	---	---

TABLE IV

MONITORING WELL MW-4
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/04/98	3859.62	58.19	3801.43	---	---
08/10/98	3859.62	56.97	3802.65	---	---
08/18/98	3859.62	56.62	3803.00	---	---
08/26/98	3859.62	56.59	3803.03	---	---
09/02/98	3859.62	56.49	3803.13	---	---
09/10/98	3859.62	56.41	3803.21	---	---
09/18/98	3859.62	56.38	3803.24	---	---
09/24/98	3859.62	56.61	3803.01	---	---
10/02/98	3859.62	57.97	3801.65	---	---
10/06/98	3859.62	57.96	3801.66	---	---
10/15/98	3859.62	57.82	3801.80	---	---
10/26/98	3859.62	57.42	3802.20	---	---
11/02/98	3859.62	57.64	3801.98	---	---
11/09/98	3859.62	58.48	3801.14	---	---
11/16/98	3859.62	57.75	3801.87	---	---
11/23/98	3859.62	57.14	3802.48	---	---
12/01/98	3859.62	57.83	3801.79	---	---
12/07/98	3859.62	56.70	3802.92	---	---
12/26/98	3859.62	56.54	3803.08	---	---

TABLE IV

MONITORING WELL MW-5
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/13/92	Unknown	26.48	NA	---	---
10/15/96	Unknown	DRY	NA	---	---

TABLE IV

MONITORING WELL MW-6
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3850.28	55.78	3794.50	---	---
07/13/92	3850.28	56.23	3794.05	---	---
10/15/96	3862.70	55.54	3807.16	---	---
05/01/97	3862.70	55.73	3806.97	---	---
08/27/97	3862.70	55.84	3806.86	---	---
10/16/97	3862.70	56.36	3806.34	---	---
10/17/97	3862.70	56.43	3806.27	---	---
10/18/97	3862.70	56.48	3806.22	---	---
10/19/97	3862.70	56.56	3806.14	---	---
10/20/97	3862.70	56.61	3806.09	---	---
10/22/97	3862.70	56.69	3806.01	---	---
10/29/97	3862.70	56.84	3805.86	---	---
11/05/97	3862.70	56.80	3805.90	---	---
11/12/97	3862.70	56.87	3805.83	---	---
11/17/97	3862.70	57.02	3805.68	---	---
11/19/97	3862.70	57.05	3805.65	---	---
12/08/97	3862.70	57.25	3805.45	---	---
01/07/98	3862.70	57.23	3805.47	---	---
01/22/98	3862.47	57.55	3804.92	---	---
02/12/98	3862.47	57.71	3804.76	---	---
03/23/98	3862.47	57.09	3805.38	---	---
04/13/98	3862.47	57.31	3805.16	---	---
04/20/98	3862.47	57.15	3805.32	---	---
04/27/98	3862.47	57.56	3804.91	---	---
05/04/98	3862.47	57.37	3805.10	---	---
05/11/98	3862.47	57.71	3804.76	---	---
05/18/98	3862.47	57.76	3804.71	---	---
05/26/98	3862.47	57.31	3805.16	---	---
06/02/98	3862.47	57.46	3805.01	---	---
06/08/98	3862.47	57.21	3805.26	---	---
06/15/98	3862.47	57.12	3805.35	---	---
06/22/98	3862.47	56.97	3805.50	---	---
06/29/98	3862.47	56.86	3805.61	---	---
07/10/98	3862.47	56.83	3805.64	---	---
07/14/98	3862.47	56.77	3805.70	---	---
07/24/98	3862.47	56.99	3805.48	---	---
07/27/98	3862.47	57.33	3805.14	---	---

TABLE IV

MONITORING WELL MW-6
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/04/98	3862.47	57.64	3804.83	---	---
08/10/98	3862.47	57.37	3805.10	---	---
08/18/98	3862.47	57.06	3805.41	---	---
08/26/98	3862.47	57.04	3805.43	---	---
09/02/98	3862.47	56.94	3805.53	---	---
09/10/98	3862.47	56.85	3805.62	---	---
09/18/98	3862.47	56.79	3805.68	---	---
09/24/98	3862.47	56.87	3805.60	---	---
10/02/98	3862.47	57.38	3805.09	---	---
10/06/98	3862.47	57.56	3804.91	---	---
10/15/98	3862.47	57.72	3804.75	---	---
10/26/98	3862.47	57.52	3804.95	---	---
11/02/98	3862.47	57.56	3804.91	---	---
11/09/98	3862.47	57.79	3804.68	---	---
11/16/98	3862.47	57.68	3804.79	---	---
11/23/98	3862.47	57.63	3804.84	---	---
12/01/98	3862.47	57.42	3805.05	---	---
12/07/98	3862.47	57.16	3805.31	---	---
12/26/98	3862.47	56.94	3805.53	---	---

TABLE IV

MONITORING WELL MW-7
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.13	55.65	3791.48	---	---
07/13/92	3847.13	56.15	3790.98	---	---
10/15/96	3859.40	55.25	3804.15	---	---
05/01/97	3859.40	55.45	3803.95	---	---
08/27/97	3859.40	55.55	3803.85	---	---
10/16/97	3859.40	56.69	3802.71	---	---
10/17/97	3859.40	56.78	3802.62	---	---
10/18/97	3859.40	56.84	3802.56	---	---
10/19/97	3859.40	56.91	3802.49	---	---
10/20/97	3859.40	57.00	3802.40	---	---
10/22/97	3859.40	57.10	3802.30	---	---
10/29/97	3859.40	57.21	3802.19	---	---
11/05/97	3859.40	56.86	3802.54	---	---
11/12/97	3859.40	57.06	3802.34	---	---
11/17/97	3859.40	57.40	3802.00	---	---
11/19/97	3859.40	57.42	3801.98	---	---
12/08/97	3859.40	57.61	3801.79	---	---
01/07/98	3859.40	57.12	3802.28	---	---
01/21/98	3859.31	57.79	3801.52	---	---
02/12/98	3859.31	57.95	3801.36	---	---
03/23/98	3859.31	57.00	3802.31	---	---
04/13/98	3859.31	57.07	3802.24	---	---
04/20/98	3859.31	56.69	3802.62	---	---
04/27/98	3859.31	56.54	3802.77	---	---
05/04/98	3859.31	56.48	3802.83	---	---
05/11/98	3859.31	57.60	3801.71	---	---
05/18/98	3859.31	57.70	3801.61	---	---
05/26/98	3859.31	56.90	3802.41	---	---
06/02/98	3859.31	57.09	3802.22	---	---
06/08/98	3859.31	57.37	3801.94	---	---
06/15/98	3859.31	56.93	3802.38	---	---
06/22/98	3859.31	56.57	3802.74	---	---
06/29/98	3859.31	56.54	3802.77	---	---
07/10/98	3859.31	56.52	3802.79	---	---
07/14/98	3859.31	56.67	3802.64	---	---
07/24/98	3859.31	56.80	3802.51	---	---
07/27/98	3859.31	57.30	3802.01	---	---

TABLE IV

MONITORING WELL MW-7
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/04/98	3859.31	57.65	3801.66	---	---
08/10/98	3859.31	57.13	3802.18	---	---
08/18/98	3859.31	56.77	3802.54	---	---
08/26/98	3859.31	56.73	3802.58	---	---
09/02/98	3859.31	56.61	3802.70	---	---
09/10/98	3859.31	56.54	3802.77	---	---
09/18/98	3859.31	56.47	3802.84	---	---
09/24/98	3859.31	56.69	3802.62	---	---
10/02/98	3859.31	57.42	3801.89	---	---
10/06/98	3859.31	57.59	3801.72	---	---
10/15/98	3859.31	57.59	3801.72	---	---
10/26/98	3859.31	57.19	3802.12	---	---
11/02/98	3859.31	57.37	3801.94	---	---
11/09/98	3859.31	57.97	3801.34	---	---
11/16/98	3859.31	57.50	3801.81	---	---
11/23/98	3859.31	57.21	3802.10	---	---
12/01/98	3859.31	57.32	3801.99	---	---
12/07/98	3859.31	56.84	3802.47	---	---
12/26/98	3859.31	56.66	3802.65	---	---

TABLE IV

MONITORING WELL MW-9
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3856.60	54.69	3801.91	---	---
07/13/92	3856.60	55.18	3801.42	---	---
10/15/96	3862.10	54.52	3807.58	---	---
05/01/97	3862.10	54.74	3807.36	---	---
08/27/97	3862.10	54.78	3807.32	---	---
10/16/97	3862.10	56.70	3805.40	---	---
10/17/97	3862.10	56.84	3805.26	---	---
10/18/97	3862.10	56.96	3805.14	---	---
10/19/97	3862.10	57.08	3805.02	---	---
10/20/97	3862.10	57.13	3804.97	---	---
10/22/97	3862.10	57.30	3804.80	---	---
10/29/97	3862.10	57.40	3804.70	---	---
11/05/97	3862.10	56.62	3805.48	---	---
11/12/97	3862.10	57.18	3804.92	---	---
11/17/97	3862.10	57.54	3804.56	---	---
11/19/97	3862.10	57.58	3804.52	---	---
12/08/97	3862.10	57.70	3804.40	---	---
01/07/98	3862.10	56.60	3805.50	---	---
01/22/98	3861.88	57.88	3804.00	---	---
02/12/98	3861.88	58.06	3803.82	---	---
03/23/98	3861.88	56.65	3805.23	---	---
04/13/98	3861.88	56.70	3805.18	---	---
04/20/98	3861.88	56.54	3805.34	---	---
04/27/98	3861.88	57.68	3804.20	---	---
05/04/98	3861.88	56.68	3805.20	---	---
05/11/98	3861.88	57.79	3804.09	---	---
05/18/98	3861.88	57.85	3804.03	---	---
05/26/98	3861.88	56.50	3805.38	---	---
06/02/98	3861.88	56.75	3805.13	---	---
06/08/98	3861.88	56.20	3805.68	---	---
06/15/98	3861.88	56.20	3805.68	---	---
06/22/98	3861.88	55.87	3806.01	---	---
06/29/98	3861.88	55.79	3806.09	---	---
07/10/98	3861.88	55.68	3806.20	---	---
07/14/98	3861.88	55.93	3805.95	---	---
07/24/98	3861.88	56.06	3805.82	---	---
07/27/98	3861.88	56.89	3804.99	---	---

TABLE IV

MONITORING WELL MW-9
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/04/98	3861.88	57.61	3804.27	---	---
08/10/98	3861.88	56.48	3805.40	---	---
08/18/98	3861.88	56.03	3805.85	---	---
08/26/98	3861.88	55.99	3805.89	---	---
09/02/98	3861.88	55.87	3806.01	---	---
09/10/98	3861.88	55.73	3806.15	---	---
09/18/98	3861.88	55.65	3806.23	---	---
09/24/98	3861.88	55.97	3805.91	---	---
10/02/98	3861.88	57.26	3804.62	---	---
10/06/98	3861.88	57.29	3804.59	---	---
10/15/98	3861.88	57.26	3804.62	---	---
10/26/98	3861.88	56.73	3805.15	---	---
11/02/98	3861.88	56.88	3805.00	---	---
11/09/98	3861.88	57.93	3803.95	---	---
11/16/98	3861.88	57.01	3804.87	---	---
11/23/98	3861.88	56.80	3805.08	---	---
12/01/98	3861.88	57.08	3804.80	---	---
12/07/98	3861.88	56.09	3805.79	---	---
12/26/98	3861.88	55.87	3806.01	---	---

TABLE IV

MONITORING WELL MW-10
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.60	56.96	3803.64	---	---
08/27/97	3860.60	57.04	3803.56	---	---
10/16/97	3860.60	57.61	3802.99	---	---
10/17/97	3860.60	57.67	3802.93	---	---
10/18/97	3860.60	57.73	3802.87	---	---
10/19/97	3860.60	57.79	3802.81	---	---
10/20/97	3860.60	57.86	3802.74	---	---
10/22/97	3860.60	57.94	3802.66	---	---
10/29/97	3860.60	58.04	3802.56	---	---
11/05/97	3860.60	57.97	3802.63	---	---
11/12/97	3860.60	58.04	3802.56	---	---
11/17/97	3860.60	58.17	3802.43	---	---
11/19/97	3860.60	58.42	3802.18	---	---
12/08/97	3860.60	58.41	3802.19	---	---
01/07/98	3860.60	58.43	3802.17	---	---
01/21/98	3860.58	DRY	---	---	---
02/12/98	3860.58	DRY	---	---	---
03/23/98	3860.58	58.20	3802.38	---	---
04/13/98	3860.58	DRY	---	---	---
04/20/98	3860.58	DRY	---	---	---
04/27/98	3860.58	DRY	---	---	---
05/04/98	3860.58	DRY	---	---	---
05/11/98	3860.58	DRY	---	---	---
05/18/98	3860.58	DRY	---	---	---
05/26/98	3860.58	DRY	---	---	---
06/02/98	3860.58	DRY	---	---	---
06/08/98	3860.58	DRY	---	---	---
06/15/98	3860.58	DRY	---	---	---
06/22/98	3860.58	DRY	---	---	---
06/29/98	3860.58	DRY	---	---	---
07/10/98	3860.58	57.94	3802.64	---	---
07/14/98	3860.58	57.99	3802.59	---	---
07/24/98	3860.58	58.20	3802.38	---	---
07/27/98	3860.58	58.46	3802.12	---	---
08/04/98	3860.58	58.68	3801.90	---	---
08/10/98	3860.58	58.53	3802.05	---	---
08/18/98	3860.58	58.25	3802.33	---	---

TABLE IV

MONITORING WELL MW-10
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/26/98	3860.58	58.20	3802.38	---	---
09/02/98	3860.58	58.13	3802.45	---	---
09/10/98	3860.58	58.04	3802.54	---	---
09/18/98	3860.58	57.98	3802.60	---	---
09/24/98	3860.58	58.10	3802.48	---	---
10/02/98	3860.58	58.63	3801.95	---	---
10/06/98	3860.58	58.70	3801.88	---	---
10/15/98	3860.58	58.79	3801.79	---	---
10/26/98	3860.58	58.55	3802.03	---	---
11/02/98	3860.58	58.64	3801.94	---	---
11/09/98	3860.58	58.90	3801.68	---	---
11/16/98	3860.58	58.76	3801.82	---	---
11/23/98	3860.58	58.63	3801.95	---	---
12/01/98	3860.58	58.54	3802.04	---	---
12/07/98	3860.58	58.32	3802.26	---	---
12/26/98	3860.58	58.14	3802.44	---	---

TABLE IV

MONITORING WELL MW-11
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.10	56.43	3803.67	---	---
08/27/97	3860.10	56.49	3803.61	---	---
10/16/97	3860.10	57.24	3802.86	---	---
10/17/97	3860.10	57.38	3802.72	---	---
10/18/97	3860.10	57.36	3802.74	---	---
10/19/97	3860.10	57.42	3802.68	---	---
10/20/97	3860.10	57.46	3802.64	---	---
10/22/97	3860.10	57.56	3802.54	---	---
11/05/97	3860.10	57.49	3802.61	---	---
11/12/97	3860.10	57.62	3802.48	---	---
11/17/97	3860.10	57.74	3802.36	---	---
11/19/97	3860.10	57.91	3802.19	---	---
12/08/97	3860.10	57.95	3802.15	---	---
01/07/98	3860.10	57.86	3802.24	---	---
01/21/98	3860.00	58.25	3801.75	---	---
02/12/98	3860.00	58.39	3801.61	---	---
03/23/98	3860.00	57.67	3802.33	---	---
04/13/98	3860.00	57.81	3802.19	---	---
04/20/98	3860.00	57.52	3802.48	---	---
04/27/98	3860.00	57.48	3802.52	---	---
05/04/98	3860.00	57.41	3802.59	---	---
05/11/98	3860.00	58.11	3801.89	---	---
05/18/98	3860.00	58.21	3801.79	---	---
05/26/98	3860.00	57.76	3802.24	---	---
06/02/98	3860.00	57.89	3802.11	---	---
06/08/98	3860.00	58.10	3801.90	---	---
06/15/98	3860.00	57.80	3802.20	---	---
06/22/98	3860.00	57.57	3802.43	---	---
06/29/98	3860.00	57.47	3802.53	---	---
07/10/98	3860.00	57.37	3802.63	---	---
07/14/98	3860.00	57.46	3802.54	---	---
07/24/98	3860.00	57.65	3802.35	---	---
07/27/98	3860.00	57.96	3802.04	---	---
08/04/98	3860.00	58.22	3801.78	---	---
08/10/98	3860.00	57.94	3802.06	---	---
08/18/98	3860.00	57.67	3802.33	---	---
08/26/98	3860.00	57.11	3802.89	---	---

TABLE IV

MONITORING WELL MW-11
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
09/02/98	3860.00	57.52	3802.48	---	---
09/10/98	3860.00	57.48	3802.52	---	---
09/18/98	3860.00	57.40	3802.60	---	---
09/24/98	3860.00	57.57	3802.43	---	---
10/02/98	3860.00	58.05	3801.95	---	---
10/06/98	3860.00	58.17	3801.83	---	---
10/15/98	3860.00	58.24	3801.76	---	---
10/26/98	3860.00	58.00	3802.00	---	---
11/02/98	3860.00	58.09	3801.91	---	---
11/09/98	3860.00	58.43	3801.57	---	---
11/16/98	3860.00	58.22	3801.78	---	---
11/23/98	3860.00	58.06	3801.94	---	---
12/01/98	3860.00	58.01	3801.99	---	---
12/07/98	3860.00	57.74	3802.26	---	---
12/26/98	3860.00	57.57	3802.43	---	---

TABLE IV

MONITORING WELL MW-12
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.20	56.91	3806.29	---	---
08/27/97	3863.20	56.98	3806.22	---	---
10/16/97	3863.20	57.42	3805.78	---	---
10/17/97	3863.20	57.48	3805.72	---	---
10/18/97	3863.20	57.54	3805.66	---	---
10/19/97	3863.20	57.59	3805.61	---	---
10/20/97	3863.20	57.60	3805.60	---	---
10/22/97	3863.20	57.65	3805.55	---	---
10/29/97	3863.20	57.74	3805.46	---	---
11/05/97	3863.20	57.75	3805.45	---	---
11/12/97	3863.20	57.82	3805.38	---	---
11/17/97	3863.20	57.89	3805.31	---	---
11/19/97	3863.20	58.24	3804.96	---	---
12/08/97	3863.20	58.14	3805.06	---	---
01/07/98	3863.20	58.20	3805.00	---	---
01/21/98	3863.10	58.44	3804.66	---	---
02/12/98	3863.10	58.56	3804.54	---	---
03/23/98	3863.10	58.04	3805.06	---	---
04/13/98	3863.10	58.23	3804.87	---	---
04/20/98	3863.10	58.12	3804.98	---	---
04/27/98	3863.10	58.33	3804.77	---	---
05/04/98	3863.10	58.28	3804.82	---	---
05/11/98	3863.10	58.51	3804.59	---	---
05/18/98	3863.10	58.56	3804.54	---	---
05/26/98	3863.10	58.26	3804.84	---	---
06/02/98	3863.10	58.38	3804.72	---	---
06/08/98	3863.10	58.29	3804.81	---	---
06/15/98	3863.10	58.21	3804.89	---	---
06/22/98	3863.10	58.08	3805.02	---	---
06/29/98	3863.10	57.99	3805.11	---	---
07/10/98	3863.10	57.86	3805.24	---	---
07/14/98	3863.10	57.88	3805.22	---	---
07/24/98	3863.10	58.07	3805.03	---	---
07/27/98	3863.10	58.29	3804.81	---	---
08/04/98	3863.10	58.52	3804.58	---	---
08/10/98	3863.10	58.40	3804.70	---	---
08/18/98	3863.10	58.15	3804.95	---	---

TABLE IV

MONITORING WELL MW-12
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/26/98	3863.10	58.12	3804.98	---	---
09/02/98	3863.10	58.03	3805.07	---	---
09/10/98	3863.10	58.97	3804.13	---	---
09/18/98	3863.10	57.89	3805.21	---	---
09/24/98	3863.10	57.97	3805.13	---	---
10/02/98	3863.10	58.34	3804.76	---	---
10/06/98	3863.10	58.50	3804.60	---	---
10/15/98	3863.10	58.56	3804.54	---	---
10/26/98	3863.10	58.46	3804.64	---	---
11/02/98	3863.10	58.51	3804.59	---	---
11/09/98	3863.10	58.67	3804.43	---	---
11/16/98	3863.10	58.58	3804.52	---	---
11/23/98	3863.10	58.54	3804.56	---	---
12/01/98	3863.10	58.41	3804.69	---	---
12/07/98	3863.10	58.23	3804.87	---	---
12/26/98	3863.10	58.07	3805.03	---	---

TABLE IV

MONITORING WELL MW-13
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3862.60	55.23	3807.37	---	---
08/27/97	3862.60	55.32	3807.28	---	---
10/16/97	3862.60	55.75	3806.85	---	---
10/17/97	3862.60	55.82	3806.78	---	---
10/18/97	3862.60	55.88	3806.72	---	---
10/19/97	3862.60	55.96	3806.64	---	---
10/20/97	3862.60	55.96	3806.64	---	---
10/22/97	3862.60	56.03	3806.57	---	---
10/29/97	3862.60	56.10	3806.50	---	---
11/05/97	3862.60	56.11	3806.49	---	---
11/12/97	3862.60	56.17	3806.43	---	---
11/17/97	3862.60	56.22	3806.38	---	---
11/19/97	3862.60	56.38	3806.22	---	---
12/08/97	3862.60	56.55	3806.05	---	---
01/07/98	3862.60	56.56	3806.04	---	---
01/22/98	3862.44	56.82	3805.62	---	---
02/12/98	3862.44	56.93	3805.51	---	---
03/23/98	3862.44	56.35	3806.09	---	---
04/13/98	3862.44	56.61	3805.83	---	---
04/20/98	3862.44	56.47	3805.97	---	---
04/27/98	3862.44	52.57	3809.87	---	---
05/04/98	3862.44	56.77	3805.67	---	---
05/11/98	3862.44	56.92	3805.52	---	---
05/18/98	3862.44	56.95	3805.49	---	---
05/26/98	3862.44	56.64	3805.80	---	---
06/02/98	3862.44	56.78	3805.66	---	---
06/08/98	3862.44	56.64	3805.80	---	---
06/15/98	3862.44	56.57	3805.87	---	---
06/22/98	3862.44	56.42	3806.02	---	---
06/29/98	3862.44	56.34	3806.10	---	---
07/10/98	3862.44	56.21	3806.23	---	---
07/14/98	3862.44	56.21	3806.23	---	---
07/24/98	3862.44	56.42	3806.02	---	---
07/27/98	3862.44	56.63	3805.81	---	---
08/04/98	3862.44	56.90	3805.54	---	---
08/10/98	3862.44	56.80	3805.64	---	---
08/18/98	3862.44	56.54	3805.90	---	---

TABLE IV

MONITORING WELL MW-13
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/26/98	3862.44	56.48	3805.96	---	---
09/02/98	3862.44	56.39	3806.05	---	---
09/10/98	3862.44	56.30	3806.14	---	---
09/18/98	3862.44	56.21	3806.23	---	---
09/24/98	3862.44	56.30	3806.14	---	---
10/02/98	3862.44	56.72	3805.72	---	---
10/06/98	3862.44	56.86	3805.58	---	---
10/15/98	3862.44	56.94	3805.50	---	---
10/26/98	3862.44	56.85	3805.59	---	---
11/02/98	3862.44	56.89	3805.55	---	---
11/09/98	3862.44	57.03	3805.41	---	---
11/16/98	3862.44	56.99	3805.45	---	---
11/23/98	3862.44	56.96	3805.48	---	---
12/01/98	3862.44	56.78	3805.66	---	---
12/07/98	3862.44	56.61	3805.83	---	---
12/26/98	3862.44	56.44	3806.00	---	---

TABLE IV

MONITORING WELL MW-14
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.10	56.40	3806.70	---	---
08/27/97	3863.10	56.50	3806.60	---	---
10/16/97	3863.10	57.34	3805.76	---	---
10/17/97	3863.10	57.39	3805.71	---	---
10/18/97	3863.10	57.48	3805.62	---	---
10/19/97	3863.10	57.56	3805.54	---	---
10/20/97	3863.10	57.56	3805.54	---	---
10/22/97	3863.10	57.63	3805.47	---	---
10/29/97	3863.10	57.71	3805.39	---	---
01/05/97	3863.10	57.42	3805.68	---	---
11/12/97	3863.10	57.73	3805.37	---	---
11/17/97	3863.10	57.83	3805.27	---	---
12/08/97	3863.10	58.12	3804.98	---	---
01/07/98	3863.10	57.73	3805.37	---	---
01/22/98	3862.95	58.32	3804.63	---	---
02/12/98	3862.95	58.40	3804.55	---	---
03/23/98	3862.95	57.71	3805.24	---	---
04/13/98	3862.95	57.83	3805.12	---	---
04/20/98	3862.95	57.72	3805.23	---	---
04/27/98	3862.95	58.24	3804.71	---	---
05/04/98	3862.95	56.80	3806.15	---	---
05/11/98	3862.95	58.37	3804.58	---	---
05/18/98	3862.95	58.41	3804.54	---	---
05/26/98	3862.95	57.79	3805.16	---	---
06/02/98	3862.95	57.97	3804.98	---	---
06/08/98	3862.95	57.66	3805.29	---	---
06/15/98	3862.95	57.63	3805.32	---	---
06/22/98	3862.95	57.47	3805.48	---	---
06/29/98	3862.95	57.39	3805.56	---	---
07/10/98	3862.95	57.30	3805.65	---	---
07/14/98	3862.95	57.38	3805.57	---	---
07/24/98	3862.95	57.52	3805.43	---	---
07/27/98	3862.95	57.95	3805.00	---	---
08/04/98	3862.95	58.34	3804.61	---	---
08/10/98	3862.95	57.80	3805.15	---	---
08/18/98	3862.95	57.55	3805.40	---	---
08/26/98	3862.95	57.53	3805.42	---	---

TABLE IV

MONITORING WELL MW-14
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
09/02/98	3862.95	57.44	3805.51	---	---
09/10/98	3862.95	57.58	3805.37	---	---
09/18/98	3862.95	57.33	3805.62	---	---
09/24/98	3862.95	57.61	3805.34	---	---
10/02/98	3862.95	58.12	3804.83	---	---
10/06/98	3862.95	58.16	3804.79	---	---
10/15/98	3862.95	58.19	3804.76	---	---
10/26/98	3862.95	58.02	3804.93	---	---
11/02/98	3862.95	58.07	3804.88	---	---
11/09/98	3862.95	58.47	3804.48	---	---
11/16/98	3862.95	58.14	3804.81	---	---
11/23/98	3862.95	58.08	3804.87	---	---
12/01/98	3862.95	58.14	3804.81	---	---
12/07/98	3862.95	57.65	3805.30	---	---
12/26/98	3862.95	57.52	3805.43	---	---

TABLE IV

MONITORING WELL MW-15
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3861.90	55.57	3806.33	---	---
08/27/97	3861.90	55.64	3806.26	---	---
10/16/97	3861.90	56.04	3805.86	---	---
10/17/97	3861.90	56.08	3805.82	---	---
10/18/97	3861.90	56.13	3805.77	---	---
10/19/97	3861.90	56.18	3805.72	---	---
10/20/97	3861.90	56.15	3805.75	---	---
10/22/97	3861.90	56.20	3805.70	---	---
10/29/97	3861.90	56.26	3805.64	---	---
11/05/97	3861.90	56.23	3805.67	---	---
11/12/97	3861.90	56.32	3805.58	---	---
11/17/97	3861.90	56.36	3805.54	---	---
11/19/97	3861.90	56.66	3805.24	---	---
12/05/97	3861.90	56.74	3805.16	---	---
01/07/98	3861.90	56.69	3805.21	---	---
01/22/98	3861.70	57.05	3804.65	---	---
02/12/98	3861.70	56.94	3804.76	---	---
03/23/98	3861.70	56.57	3805.13	---	---
04/13/98	3861.70	56.72	3804.98	---	---
04/20/98	3861.70	56.62	3805.08	---	---
04/27/98	3861.70	56.86	3804.84	---	---
05/04/98	3861.70	56.83	3804.87	---	---
05/11/98	3861.70	56.97	3804.73	---	---
05/18/98	3861.70	57.00	3804.70	---	---
05/26/98	3861.70	56.74	3804.96	---	---
06/02/98	3861.70	56.87	3804.83	---	---
06/08/98	3861.70	56.75	3804.95	---	---
06/15/98	3861.70	56.71	3804.99	---	---
06/22/98	3861.70	56.61	3805.09	---	---
06/29/98	3861.70	56.54	3805.16	---	---
07/10/98	3861.70	56.44	3805.26	---	---
07/14/98	3861.70	56.43	3805.27	---	---
07/24/98	3861.70	56.63	3805.07	---	---
07/27/98	3861.70	56.80	3804.90	---	---
08/04/98	3861.70	57.00	3804.70	---	---
08/10/98	3861.70	56.88	3804.82	---	---
08/18/98	3861.70	56.69	3805.01	---	---

TABLE IV

MONITORING WELL MW-15
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/26/98	3861.70	56.66	3805.04	---	---
09/02/98	3861.70	56.58	3805.12	---	---
09/10/98	3861.70	56.55	3805.15	---	---
09/18/98	3861.70	56.46	3805.24	---	---
09/24/98	3861.70	56.56	3805.14	---	---
10/02/98	3861.70	56.85	3804.85	---	---
10/06/98	3861.70	56.97	3804.73	---	---
10/15/98	3861.70	56.99	3804.71	---	---
10/26/98	3861.70	56.93	3804.77	---	---
11/02/98	3861.70	56.97	3804.73	---	---
11/09/98	3861.70	57.08	3804.62	---	---
11/16/98	3861.70	57.04	3804.66	---	---
11/23/98	3861.70	57.03	3804.67	---	---
12/01/98	3861.70	56.93	3804.77	---	---
12/07/98	3861.70	56.79	3804.91	---	---
12/26/98	3861.70	56.63	3805.07	---	---

TABLE IV

MONITORING WELL MW-16
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.40	55.30	3808.10	---	---
08/27/97	3863.40	55.33	3808.07	---	---
10/16/97	3863.40	55.91	3807.49	---	---
10/17/97	3863.40	55.98	3807.42	---	---
10/18/97	3863.40	56.06	3807.34	---	---
10/19/97	3863.40	56.12	3807.28	---	---
10/20/97	3863.40	56.14	3807.26	---	---
10/22/97	3863.40	56.21	3807.19	---	---
10/29/97	3863.40	56.29	3807.11	---	---
11/05/97	3863.40	56.18	3807.22	---	---
11/12/97	3863.40	56.30	3807.10	---	---
11/17/97	3863.40	56.39	3807.01	---	---
11/19/97	3863.40	56.65	3806.75	---	---
12/08/97	3863.40	56.84	3806.56	---	---
01/07/98	3863.40	56.61	3806.79	---	---
01/22/98	3863.15	56.91	3806.24	---	---
02/12/98	3863.15	57.21	3805.94	---	---
03/23/98	3863.15	56.36	3806.79	---	---
04/13/98	3863.15	56.48	3806.67	---	---
04/20/98	3863.15	56.33	3806.82	---	---
04/27/98	3863.15	56.86	3806.29	---	---
05/04/98	3863.15	56.74	3806.41	---	---
05/11/98	3863.15	56.98	3806.17	---	---
05/18/98	3863.15	57.02	3806.13	---	---
05/26/98	3863.15	56.51	3806.64	---	---
06/02/98	3863.15	56.65	3806.50	---	---
06/08/98	3863.15	56.61	3806.54	---	---
06/15/98	3863.15	56.48	3806.67	---	---
06/22/98	3863.15	56.30	3806.85	---	---
06/29/98	3863.15	56.23	3806.92	---	---
07/10/98	3863.15	56.12	3807.03	---	---
07/14/98	3863.15	56.18	3806.97	---	---
07/24/98	3863.15	56.37	3806.78	---	---
07/27/98	3863.15	56.65	3806.50	---	---
08/04/98	3863.15	56.92	3806.23	---	---
08/10/98	3863.15	56.68	3806.47	---	---
08/18/98	3863.15	56.40	3806.75	---	---

TABLE IV

MONITORING WELL MW-16
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
08/26/98	3863.15	56.38	3806.77	---	---
09/02/98	3863.15	56.29	3806.86	---	---
09/10/98	3863.15	56.21	3806.94	---	---
09/18/98	3863.15	56.14	3807.01	---	---
09/24/98	3863.15	56.25	3806.90	---	---
10/02/98	3863.15	56.78	3806.37	---	---
10/06/98	3863.15	56.93	3806.22	---	---
10/15/98	3863.15	56.95	3806.20	---	---
10/26/98	3863.15	56.71	3806.44	---	---
11/02/98	3863.15	56.79	3806.36	---	---
11/09/98	3863.15	57.09	3806.06	---	---
11/16/98	3863.15	56.87	3806.28	---	---
11/23/98	3863.15	56.81	3806.34	---	---
12/01/98	3863.15	56.72	3806.43	---	---
12/07/98	3863.15	56.49	3806.66	---	---
12/26/98	3863.15	56.33	3806.82	---	---

TABLE IV

MONITORING WELL MW-17
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/21/98	3859.17	58.43	3800.74	---	---
02/12/98	3859.17	58.51	3800.66	---	---
03/23/98	3859.17	58.56	3800.61	---	---
04/13/98	3859.17	58.61	3800.56	---	---
04/20/98	3859.17	58.60	3800.57	---	---
04/27/98	3859.17	58.62	3800.55	---	---
05/04/98	3859.17	58.62	3800.55	---	---
05/11/98	3859.17	58.64	3800.53	---	---
05/18/98	3859.17	58.64	3800.53	---	---
05/26/98	3859.17	58.64	3800.53	---	---
06/02/98	3859.17	58.69	3800.48	---	---
06/08/98	3859.17	58.71	3800.46	---	---
06/15/98	3859.17	58.72	3800.45	---	---
06/22/98	3859.17	58.71	3800.46	---	---
06/29/98	3859.17	58.73	3800.44	---	---
07/10/98	3859.17	58.69	3800.48	---	---
07/14/98	3859.17	58.68	3800.49	---	---
07/24/98	3859.17	58.74	3800.43	---	---
07/27/98	3859.17	58.75	3800.42	---	---
08/04/98	3859.17	58.80	3800.37	---	---
08/10/98	3859.17	58.79	3800.38	---	---
08/18/98	3859.17	58.80	3800.37	---	---
08/26/98	3859.17	58.76	3800.41	---	---
09/02/98	3859.17	58.77	3800.40	---	---
09/10/98	3859.17	58.77	3800.40	---	---
09/18/98	3859.17	58.76	3800.41	---	---
09/24/98	3859.17	58.78	3800.39	---	---
10/02/98	3859.17	58.77	3800.40	---	---
10/06/98	3859.17	58.80	3800.37	---	---
10/15/98	3859.17	58.83	3800.34	---	---
10/26/98	3859.17	58.84	3800.33	---	---
11/02/98	3859.17	58.87	3800.30	---	---
11/09/98	3859.17	58.87	3800.30	---	---
11/16/98	3859.17	58.90	3800.27	---	---
11/23/98	3859.17	58.92	3800.25	---	---
12/01/98	3859.17	58.94	3800.23	---	---
12/07/98	3859.17	58.93	3800.24	---	---
12/26/98	3859.17	58.97	3800.20	---	---

TABLE IV

MONITORING WELL MW-18
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/21/98	3859.98	58.19	3801.79	---	---
02/12/98	3859.98	58.31	3801.67	---	---
03/23/98	3859.98	58.28	3801.70	---	---
04/13/98	3859.98	58.40	3801.58	---	---
04/20/98	3859.98	58.40	3801.58	---	---
04/27/98	3859.98	58.38	3801.60	---	---
05/04/98	3859.98	58.34	3801.64	---	---
05/11/98	3859.98	58.38	3801.60	---	---
05/18/98	3859.98	58.41	3801.57	---	---
05/26/98	3859.98	58.42	3801.56	---	---
06/02/98	3859.98	58.46	3801.52	---	---
06/08/98	3859.98	58.48	3801.50	---	---
06/15/98	3859.98	58.51	3801.47	---	---
06/22/98	3859.98	58.47	3801.51	---	---
06/29/98	3859.98	58.44	3801.54	---	---
07/10/98	3859.98	58.36	3801.62	---	---
07/14/98	3859.98	58.34	3801.64	---	---
07/24/98	3859.98	58.44	3801.54	---	---
07/27/98	3859.98	58.48	3801.50	---	---
08/04/98	3859.98	58.55	3801.43	---	---
08/10/98	3859.98	58.54	3801.44	---	---
08/18/98	3859.98	58.54	3801.44	---	---
08/26/98	3859.98	58.49	3801.49	---	---
09/02/98	3859.98	58.48	3801.50	---	---
09/10/98	3859.98	58.45	3801.53	---	---
09/18/98	3859.98	58.43	3801.55	---	---
09/24/98	3859.98	58.41	3801.57	---	---
10/02/98	3859.98	58.47	3801.51	---	---
10/06/98	3859.98	58.51	3801.47	---	---
10/15/98	3859.98	58.54	3801.44	---	---
10/26/98	3859.98	58.57	3801.41	---	---
11/02/98	3859.98	58.16	3801.82	---	---
11/09/98	3859.98	58.62	3801.36	---	---
11/16/98	3859.98	58.67	3801.31	---	---
11/23/98	3859.98	58.68	3801.30	---	---
12/01/98	3859.98	58.66	3801.32	---	---
12/07/98	3859.98	58.64	3801.34	---	---
12/26/98	3859.98	58.59	3801.39	---	---

TABLE IV

MONITORING WELL MW-19
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.30	59.66	3802.64	---	---
02/12/98	3862.30	59.79	3802.51	---	---
03/23/98	3862.30	59.34	3802.96	---	---
04/13/98	3862.30	59.48	3802.82	---	---
04/20/98	3862.30	59.33	3802.97	---	---
04/27/98	3862.30	59.25	3803.05	---	---
05/04/98	3862.30	59.21	3803.09	---	---
05/11/98	3862.30	59.61	3802.69	---	---
05/18/98	3862.30	59.70	3802.60	---	---
05/26/98	3862.30	59.49	3802.81	---	---
06/02/98	3862.30	59.58	3802.72	---	---
06/08/98	3862.30	59.73	3802.57	---	---
06/15/98	3862.30	59.53	3802.77	---	---
06/22/98	3862.30	59.36	3802.94	---	---
06/29/98	3862.30	59.29	3803.01	---	---
07/10/98	3862.30	59.18	3803.12	---	---
07/14/98	3862.30	59.20	3803.10	---	---
07/24/98	3862.30	59.42	3802.88	---	---
07/27/98	3862.30	59.59	3802.71	---	---
08/04/98	3862.30	59.75	3802.55	---	---
08/10/98	3862.30	59.67	3802.63	---	---
08/18/98	3862.30	59.44	3802.86	---	---
08/26/98	3862.30	59.40	3802.90	---	---
09/02/98	3862.30	59.34	3802.96	---	---
09/10/98	3862.30	59.27	3803.03	---	---
09/18/98	3862.30	59.24	3803.06	---	---
09/24/98	3862.30	59.31	3802.99	---	---
10/02/98	3862.30	59.64	3802.66	---	---
10/06/98	3862.30	59.78	3802.52	---	---
10/15/98	3862.30	59.84	3802.46	---	---
10/26/98	3862.30	59.69	3802.61	---	---
11/02/98	3862.30	59.75	3802.55	---	---
11/09/98	3862.30	59.92	3802.38	---	---
11/16/98	3862.30	59.92	3802.38	---	---
11/23/98	3862.30	59.76	3802.54	---	---
12/01/98	3862.30	59.64	3802.66	---	---
12/07/98	3862.30	59.53	3802.77	---	---
12/26/98	3862.30	59.39	3802.91	---	---

TABLE IV

MONITORING WELL MW-20
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3861.30	58.73	3802.57	---	---
02/12/98	3861.30	59.03	3802.27	---	---
03/23/98	3861.30	58.51	3802.79	---	---
04/13/98	3861.30	58.65	3802.65	---	---
04/20/98	3861.30	58.52	3802.78	---	---
04/27/98	3861.30	58.51	3802.79	---	---
05/04/98	3861.30	58.49	3802.81	---	---
05/11/98	3861.30	58.79	3802.51	---	---
05/18/98	3861.30	58.85	3802.45	---	---
05/26/98	3861.30	58.66	3802.64	---	---
06/02/98	3861.30	58.75	3802.55	---	---
06/08/98	3861.30	58.84	3802.46	---	---
06/15/98	3861.30	58.86	3802.44	---	---
06/22/98	3861.30	58.55	3802.75	---	---
06/29/98	3861.30	58.49	3802.81	---	---
07/10/98	3861.30	58.39	3802.91	---	---
07/14/98	3861.30	58.44	3802.86	---	---
07/24/98	3861.30	58.59	3802.71	---	---
07/27/98	3861.30	59.73	3801.57	---	---
08/04/98	3861.30	58.89	3802.41	---	---
08/10/98	3861.30	58.81	3802.49	---	---
08/18/98	3861.30	58.64	3802.66	---	---
08/26/98	3861.30	58.59	3802.71	---	---
09/02/98	3861.30	58.54	3802.76	---	---
09/10/98	3861.30	58.49	3802.81	---	---
09/18/98	3861.30	58.46	3802.84	---	---
09/24/98	3861.30	58.51	3802.79	---	---
10/02/98	3861.30	58.78	3802.52	---	---
10/06/98	3861.30	58.88	3802.42	---	---
10/15/98	3861.30	58.94	3802.36	---	---
10/26/98	3861.30	58.85	3802.45	---	---
11/02/98	3861.30	58.87	3802.43	---	---
11/09/98	3861.30	59.02	3802.28	---	---
11/16/98	3861.30	58.99	3802.31	---	---
11/23/98	3861.30	58.91	3802.39	---	---
12/01/98	3861.30	58.84	3802.46	---	---
12/07/98	3861.30	58.74	3802.56	---	---
12/26/98	3861.30	58.65	3802.65	---	---

TABLE IV

MONITORING WELL MW-21
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.30	59.05	3803.25	---	---
02/12/98	3862.30	59.16	3803.14	---	---
03/23/98	3862.30	58.69	3803.61	---	---
04/13/98	3862.30	58.86	3803.44	---	---
04/20/98	3862.30	58.71	3803.59	---	---
04/27/98	3862.30	58.71	3803.59	---	---
05/04/98	3862.30	56.70	3805.60	---	---
05/11/98	3862.30	59.05	3803.25	---	---
05/18/98	3862.30	59.12	3803.18	---	---
05/26/98	3862.30	58.87	3803.43	---	---
06/02/98	3862.30	58.98	3803.32	---	---
06/08/98	3862.30	59.05	3803.25	---	---
06/15/98	3862.30	58.89	3803.41	---	---
06/22/98	3862.30	58.71	3803.59	---	---
06/29/98	3862.30	58.63	3803.67	---	---
07/10/98	3862.30	58.53	3803.77	---	---
07/14/98	3862.30	58.58	3803.72	---	---
07/24/98	3862.30	58.75	3803.55	---	---
07/27/98	3862.30	58.95	3803.35	---	---
08/04/98	3862.30	59.12	3803.18	---	---
08/10/98	3862.30	59.03	3803.27	---	---
08/18/98	3862.30	58.81	3803.49	---	---
08/26/98	3862.30	58.77	3803.53	---	---
09/02/98	3862.30	58.69	3803.61	---	---
09/10/98	3862.30	58.63	3803.67	---	---
09/18/98	3862.30	58.59	3803.71	---	---
09/24/98	3862.30	58.65	3803.65	---	---
10/02/98	3862.30	58.98	3803.32	---	---
10/06/98	3862.30	59.14	3803.16	---	---
10/15/98	3862.30	59.19	3803.11	---	---
10/26/98	3862.30	59.05	3803.25	---	---
11/02/98	3862.30	59.11	3803.19	---	---
11/09/98	3862.30	59.29	3803.01	---	---
11/16/98	3862.30	59.20	3803.10	---	---
11/23/98	3862.30	59.12	3803.18	---	---
12/01/98	3862.30	59.02	3803.28	---	---
12/07/98	3862.30	58.89	3803.41	---	---
12/26/98	3862.30	58.72	3803.58	---	---

TABLE IV

MONITORING WELL MW-22
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.01	57.32	3806.69	---	---
02/12/98	3864.01	57.59	3806.42	---	---
03/23/98	3864.01	56.93	3807.08	---	---
04/13/98	3864.01	57.08	3806.93	---	---
04/20/98	3864.01	56.97	3807.04	---	---
04/27/98	3864.01	57.24	3806.77	---	---
05/04/98	3864.01	57.16	3806.85	---	---
05/11/98	3864.01	57.34	3806.67	---	---
05/18/98	3864.01	57.35	3806.66	---	---
05/26/98	3864.01	57.09	3806.92	---	---
06/02/98	3864.01	57.19	3806.82	---	---
06/08/98	3864.01	57.12	3806.89	---	---
06/15/98	3864.01	57.08	3806.93	---	---
06/22/98	3864.01	56.96	3807.05	---	---
06/29/98	3864.01	56.92	3807.09	---	---
07/10/98	3864.01	56.82	3807.19	---	---
07/14/98	3864.01	56.86	3807.15	---	---
07/24/98	3864.01	57.00	3807.01	---	---
07/27/98	3864.01	57.17	3806.84	---	---
08/04/98	3864.01	57.38	3806.63	---	---
08/10/98	3864.01	57.22	3806.79	---	---
08/18/98	3864.01	57.04	3806.97	---	---
08/26/98	3864.01	57.02	3806.99	---	---
09/02/98	3864.01	56.97	3807.04	---	---
09/10/98	3864.01	56.91	3807.10	---	---
09/18/98	3864.01	56.86	3807.15	---	---
09/24/98	3864.01	56.93	3807.08	---	---
10/02/98	3864.01	57.26	3806.75	---	---
10/06/98	3864.01	57.33	3806.68	---	---
10/15/98	3864.01	57.35	3806.66	---	---
10/26/98	3864.01	57.29	3806.72	---	---
11/02/98	3864.01	57.32	3806.69	---	---
11/09/98	3864.01	57.46	3806.55	---	---
11/16/98	3864.01	57.35	3806.66	---	---
11/23/98	3864.01	57.39	3806.62	---	---
12/01/98	3864.01	57.32	3806.69	---	---
12/07/98	3864.01	57.15	3806.86	---	---
12/26/98	3864.01	57.01	3807.00	---	---

TABLE IV

MONITORING WELL MW-23
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3862.44	55.91	3806.53	---	---
02/12/98	3862.44	56.02	3806.42	---	---
03/23/98	3862.44	55.71	3806.73	---	---
04/13/98	3862.44	55.75	3806.69	---	---
04/20/98	3862.44	55.71	3806.73	---	---
04/27/98	3862.44	55.86	3806.58	---	---
05/04/98	3862.44	55.79	3806.65	---	---
05/11/98	3862.44	55.90	3806.54	---	---
05/18/98	3862.44	55.91	3806.53	---	---
05/26/98	3862.44	55.78	3806.66	---	---
06/02/98	3862.44	55.84	3806.60	---	---
06/08/98	3862.44	55.81	3806.63	---	---
06/15/98	3862.44	55.81	3806.63	---	---
06/22/98	3862.44	55.78	3806.66	---	---
06/29/98	3862.44	55.76	3806.68	---	---
07/10/98	3862.44	55.67	3806.77	---	---
07/14/98	3862.44	55.71	3806.73	---	---
07/24/98	3862.44	55.77	3806.67	---	---
07/27/98	3862.44	55.88	3806.56	---	---
08/04/98	3862.44	55.99	3806.45	---	---
08/10/98	3862.44	55.90	3806.54	---	---
08/18/98	3862.44	55.80	3806.64	---	---
08/26/98	3862.44	55.80	3806.64	---	---
09/02/98	3862.44	55.78	3806.66	---	---
09/10/98	3862.44	55.76	3806.68	---	---
09/18/98	3862.44	55.74	3806.70	---	---
09/24/98	3862.44	55.78	3806.66	---	---
10/02/98	3862.44	55.93	3806.51	---	---
10/06/98	3862.44	55.96	3806.48	---	---
10/15/98	3862.44	55.98	3806.46	---	---
10/26/98	3862.44	55.96	3806.48	---	---
11/02/98	3862.44	55.97	3806.47	---	---
11/09/98	3862.44	56.07	3806.37	---	---
11/16/98	3862.44	55.99	3806.45	---	---
11/23/98	3862.44	56.02	3806.42	---	---
12/01/98	3862.44	56.04	3806.40	---	---
12/07/98	3862.44	55.94	3806.50	---	---
12/26/98	3862.44	55.87	3806.57	---	---

TABLE IV

MONITORING WELL MW-24
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.36	56.74	3807.62	---	---
02/12/98	3864.36	56.81	3807.55	---	---
03/23/98	3864.36	56.64	3807.72	---	---
04/13/98	3864.36	56.76	3807.60	---	---
04/20/98	3864.36	56.71	3807.65	---	---
04/27/98	3864.36	56.87	3807.49	---	---
05/04/98	3864.36	56.81	3807.55	---	---
05/11/98	3864.36	56.93	3807.43	---	---
05/18/98	3864.36	56.95	3807.41	---	---
05/26/98	3864.36	56.76	3807.60	---	---
06/02/98	3864.36	56.89	3807.47	---	---
06/08/98	3864.36	56.82	3807.54	---	---
06/15/98	3864.36	56.82	3807.54	---	---
06/22/98	3864.36	56.74	3807.62	---	---
06/29/98	3864.36	56.76	3807.60	---	---
07/10/98	3864.36	56.62	3807.74	---	---
07/14/98	3864.36	56.63	3807.73	---	---
07/24/98	3864.36	56.77	3807.59	---	---
07/27/98	3864.36	56.86	3807.50	---	---
08/04/98	3864.36	57.01	3807.35	---	---
08/10/98	3864.36	56.90	3807.46	---	---
08/18/98	3864.36	56.78	3807.58	---	---
08/26/98	3864.36	56.78	3807.58	---	---
09/02/98	3864.36	56.75	3807.61	---	---
09/10/98	3864.36	56.71	3807.65	---	---
09/18/98	3864.36	56.66	3807.70	---	---
09/24/98	3864.36	56.72	3807.64	---	---
10/02/98	3864.36	56.93	3807.43	---	---
10/06/98	3864.36	56.94	3807.42	---	---
10/15/98	3864.36	556.61	3307.75	---	---
10/26/98	3864.36	56.95	3807.41	---	---
11/02/98	3864.36	56.97	3807.39	---	---
11/09/98	3864.36	57.04	3807.32	---	---
11/16/98	3864.36	57.01	3807.35	---	---
11/23/98	3864.36	57.06	3807.30	---	---
12/01/98	3864.36	57.02	3807.34	---	---
12/07/98	3864.36	56.92	3807.44	---	---
12/26/98	3864.36	56.82	3807.54	---	---

TABLE IV

MONITORING WELL MW-25
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
01/22/98	3864.16	55.33	3808.83	---	---
02/12/98	3864.16	55.39	3808.77	---	---
03/23/98	3864.16	55.35	3808.81	---	---
04/13/98	3864.16	55.39	3808.77	---	---
04/20/98	3864.16	55.37	3808.79	---	---
04/27/98	3864.16	55.47	3808.69	---	---
05/04/98	3864.16	55.45	3808.71	---	---
05/11/98	3864.16	55.52	3808.64	---	---
05/18/98	3864.16	55.53	3808.63	---	---
05/26/98	3864.16	55.44	3808.72	---	---
06/02/98	3864.16	55.51	3808.65	---	---
06/08/98	3864.16	55.54	3808.62	---	---
06/15/98	3864.16	55.49	3808.67	---	---
06/22/98	3864.16	55.46	3808.70	---	---
06/29/98	3864.16	55.44	3808.72	---	---
07/10/98	3864.16	55.38	3808.78	---	---
07/14/98	3864.16	55.39	3808.77	---	---
07/24/98	3864.16	55.48	3808.68	---	---
07/27/98	3864.16	55.52	3808.64	---	---
08/04/98	3864.16	55.61	3808.55	---	---
08/10/98	3864.16	55.57	3808.59	---	---
08/18/98	3864.16	55.50	3808.66	---	---
08/26/98	3864.16	55.49	3808.67	---	---
09/02/98	3864.16	55.47	3808.69	---	---
09/10/98	3864.16	55.46	3808.70	---	---
09/18/98	3864.16	55.46	3808.70	---	---
09/24/98	3864.16	55.47	3808.69	---	---
10/02/98	3864.16	55.58	3808.58	---	---
10/06/98	3864.16	55.58	3808.58	---	---
10/15/98	3864.16	55.61	3808.55	---	---
10/26/98	3864.16	55.62	3808.54	---	---
11/02/98	3864.16	55.63	3808.53	---	---
11/09/98	3864.16	55.66	3808.50	---	---
11/16/98	3864.16	55.68	3808.48	---	---
11/23/98	3864.16	55.69	3808.47	---	---
12/01/98	3864.16	55.69	3808.47	---	---
12/07/98	3864.16	55.63	3808.53	---	---
12/26/98	3864.16	55.58	3808.58	---	---

TABLE IV

PUMPING WELL PW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.08	54.28	3794.80	---	---
07/13/92	3849.08	54.46	3794.62	---	---
04/15/98	3849.08	52.58	3796.50	---	---
04/20/98	3849.08	72.02	3777.06	---	---
04/27/98	3849.08	72.73	3776.35	---	---
05/04/98	3849.08	52.76	3796.32	---	---
05/11/98	3849.08	72.37	3776.71	---	---
05/18/98	3849.08	72.60	3776.48	---	---
05/26/98	3849.08	71.59	3777.49	---	---
06/02/98	3849.08	71.94	3777.14	---	---
06/10/98	3849.08	52.61	3796.47	---	---
06/15/98	3849.08	52.68	3796.40	---	---
06/22/98	3849.08	52.51	3796.57	---	---
06/29/98	3849.08	52.44	3796.64	---	---
07/10/98	3849.08	52.35	3796.73	---	---
07/14/98	3849.08	52.41	3796.67	---	---
07/24/98	3849.08	52.60	3796.48	---	---
07/27/98	3849.08	66.70	3782.38	---	---
08/04/98	3849.08	72.04	3777.04	---	---
08/10/98	3849.08	52.83	3796.25	---	---
08/18/98	3849.08	52.58	3796.50	---	---
08/26/98	3849.08	52.53	3796.55	---	---
09/02/98	3849.08	52.50	3796.58	---	---
09/10/98	3849.08	52.48	3796.60	---	---
09/18/98	3849.08	52.28	3796.80	---	---
09/24/98	3849.08	52.54	3796.54	---	---
10/02/98	3849.08	69.95	3779.13	---	---
10/06/98	3849.08	70.27	3778.81	---	---
10/15/98	3849.08	70.54	3778.54	---	---
10/26/98	3849.08	70.70	3778.38	---	---
11/02/98	3849.08	70.46	3778.62	---	---
11/09/98	3849.08	70.86	3778.22	---	---
11/16/98	3849.08	53.00	3796.08	---	---
11/23/98	3849.08	70.74	3778.34	---	---
12/01/98	3849.08	70.83	3778.25	---	---
12/07/98	3849.08	52.71	3796.37	---	---
12/26/98	3849.08	52.57	3796.51	---	---

TABLE IV

PUMPING WELL PW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.23	55.27	3791.96	---	---
07/13/92	3847.23	55.76	3791.47	---	---
04/15/98	3847.23	55.09	3792.14	3792.55	0.48
04/20/98	3847.23	54.90	3792.33	3792.81	0.56
04/27/98	3847.23	54.80	3792.43	3792.99	0.65
04/30/98	3847.23	54.75	3792.48	3792.93	0.52
05/04/98	3847.23	54.69	3792.54	3792.96	0.49
05/06/98	3847.23	83.90	3763.33	3764.02	0.80
05/07/98	3847.23	83.95	3763.28	3763.90	0.72
05/08/98	3847.23	81.14	3766.09	3766.10	0.01
05/11/98	3847.23	81.09	3766.14	3766.16	0.02
05/13/98	3847.23	80.58	3766.65	---	0.01
05/15/98	3847.23	80.22	3767.01	3767.03	0.02
05/18/98	3847.23	80.80	3766.43	3766.44	0.01
05/26/98	3847.23	80.77	3766.46	3766.62	0.19
06/02/98	3847.23	81.12	3766.11	3766.47	0.42
06/05/98	3847.23	84.55	3762.68	3763.13	0.52
06/08/98	3847.23	55.28	3791.95	3792.17	0.26
06/12/98	3847.23	80.54	3766.69	3767.18	0.57
06/15/98	3847.23	55.05	3792.18	3792.59	0.48
06/22/98	3847.23	54.89	3792.34	3792.84	0.58
06/29/98	3847.23	54.82	3792.41	3792.92	0.59
07/10/98	3847.23	54.90	3792.33	3793.00	0.78
07/14/98	3847.23	54.83	3792.40	3792.83	0.50
07/24/98	3847.23	55.23	3792.00	3792.75	0.87
07/27/98	3847.23	80.66	3766.57	3767.27	0.81
08/04/98	3847.23	81.15	3766.08	3767.33	1.45
08/10/98	3847.23	55.86	3791.37	3792.46	1.26
08/18/98	3847.23	54.75	3792.48	3792.76	0.33
08/26/98	3847.23	54.96	3792.27	3792.78	0.59
09/02/98	3847.23	54.73	3792.50	3792.89	0.45
09/10/98	3847.23	54.91	3792.32	3792.95	0.73
09/18/98	3847.23	54.94	3792.29	3792.98	0.80
09/24/98	3847.23	79.45	3767.78	3768.77	1.15
09/29/98	3847.23	54.55	3792.68	3792.71	0.04
10/02/98	3847.23	78.55	3768.68	---	0.00
10/06/98	3847.23	78.33	3768.90	---	0.00

TABLE IV

PUMPING WELL PW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
10/15/98	3847.23	78.38	3768.85	---	0.01
10/26/98	3847.23	78.70	3768.53	---	0.01
11/02/98	3847.23	80.09	3767.14	3767.82	0.79
11/09/98	3847.23	79.74	3767.49	3768.34	0.99
11/12/98	3847.23	79.74	3767.49	3768.34	0.99
11/16/98	3847.23	79.22	3768.01	3768.46	0.52
11/23/98	3847.23	55.42	3791.81	3792.34	0.61
12/01/98	3847.23	79.95	3767.28	3768.01	0.85
12/03/98	3847.23	79.95	3767.28	3768.01	0.85
12/07/98	3847.23	54.70	3792.53	3792.64	0.13
12/19/98	3847.23	54.69	3792.54	3792.82	0.33
12/26/98	3847.23	54.69	3792.54	3792.82	0.32

Approximate Scale: 1"=200'
0 50 100 200

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (1.0 foot)
- EL= Ground water elevation (ft) calculated from measurements obtained on October 26, 27 and 28, 1998.
- PSH = Phase-separate hydrocarbon thickness (feet) measured on October 26, 1998.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

NOTE:
1. Ground water samples were collected on October 26, 27, and 28, 1998.

MW-25
EL=3808.54
B=ND
BTEX=ND

MW-23
EL=3806.48
B=ND
BTEX=ND

MW-24
EL=3807.41
B=2.840
BTEX=3.470

MW-16
EL=3806.44
B=0.046
BTEX=0.137

MW-15
EL=3804.77
B=ND
BTEX=ND

MW-9
EL=3805.15
B=1.232
BTEX=1.421

MW-14
EL=3804.93
B=12.30
BTEX=17.100

PW-1
EL=3796.73

MW-6
EL=3804.95
B=0.018
BTEX=0.026

MW-22
EL=3806.72
B=ND
BTEX=ND

MW-13
EL=3805.59
B=ND
BTEX=ND

MW-12
EL=3804.64
B=0.135
BTEX=0.250

MW-21
EL=3803.25
B=1.250
BTEX=1.250

MW-20
EL=3802.45
B=ND
BTEX=ND

MW-2
EL=3803.30
B=ND
BTEX=ND

MW-3
EL=3803.28
B=ND
BTEX=ND

PW-2
EL=3768.53
PSH=Sheen

MW-1
EL=3801.92
B=9.30
BTEX=13.5

MW-11
EL=3802.11
B=3.610
BTEX=3.610

MW-7
EL=3802.12
B=0.042
BTEX=0.134

MW-4
EL=3802.20
B=0.015
BTEX=0.036

MW-10
EL=3802.03
B=0.330
BTEX=1.330

MW-19
EL=3802.61
B=ND
BTEX=ND

MW-18
EL=3801.41
B=ND
BTEX=ND

MW-17
EL=3800.33
B=0.890
BTEX=2.000

B-1 B-2 B-3 B-4 B-5 B-6 B-7 B-8 B-9 TB-8

3808.0 3807.0 3806.0 3805.0 3804.0 3803.0 3802.0 3801.0

Texas New Mexico Buried Pipeline
Influent Line from PW1
SPS Water Line
Buried Pipeline
Buffalo Wallow
Treatment System
SPS-11 Well Area

11/04/98-RM G:\SAD\PTV\PROJECTS\TNMPL\610099\MONITOR\GW2-OT.tif

k·e·i	GROUND WATER CONCENTRATION / CONTOUR MAP - OCTOBER 1998	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=200'

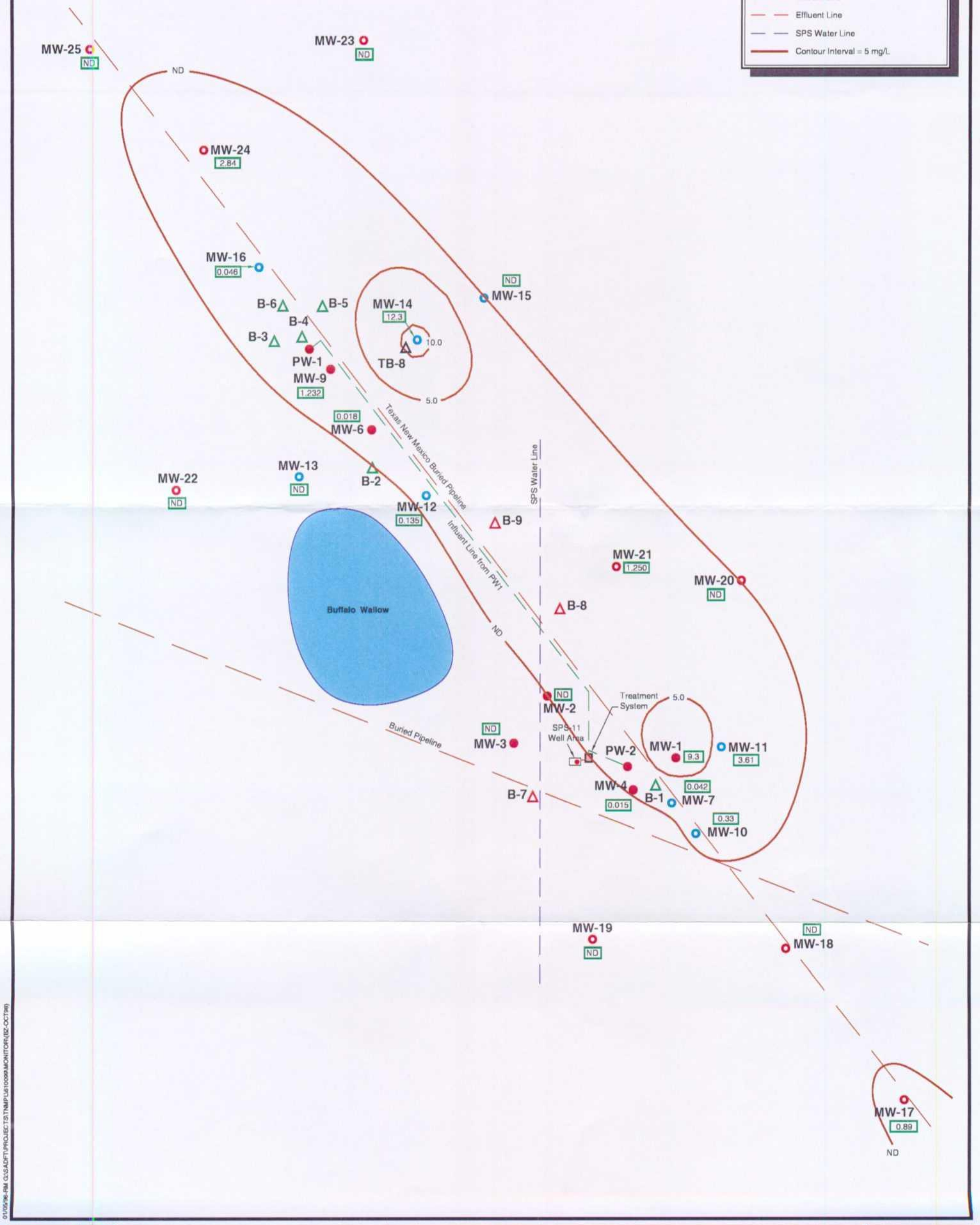
0 50 100 200

NOTE:

Ground water samples were collected on October 26, 27 and 28, 1998.

LEGEND

- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.154 Benzene Concentration (mg/l)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval = 5 mg/L



01/05/98-RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\BZ-OCT98)

k·e·i

BENZENE ISOPLETH MAP - OCTOBER 1998			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=200'

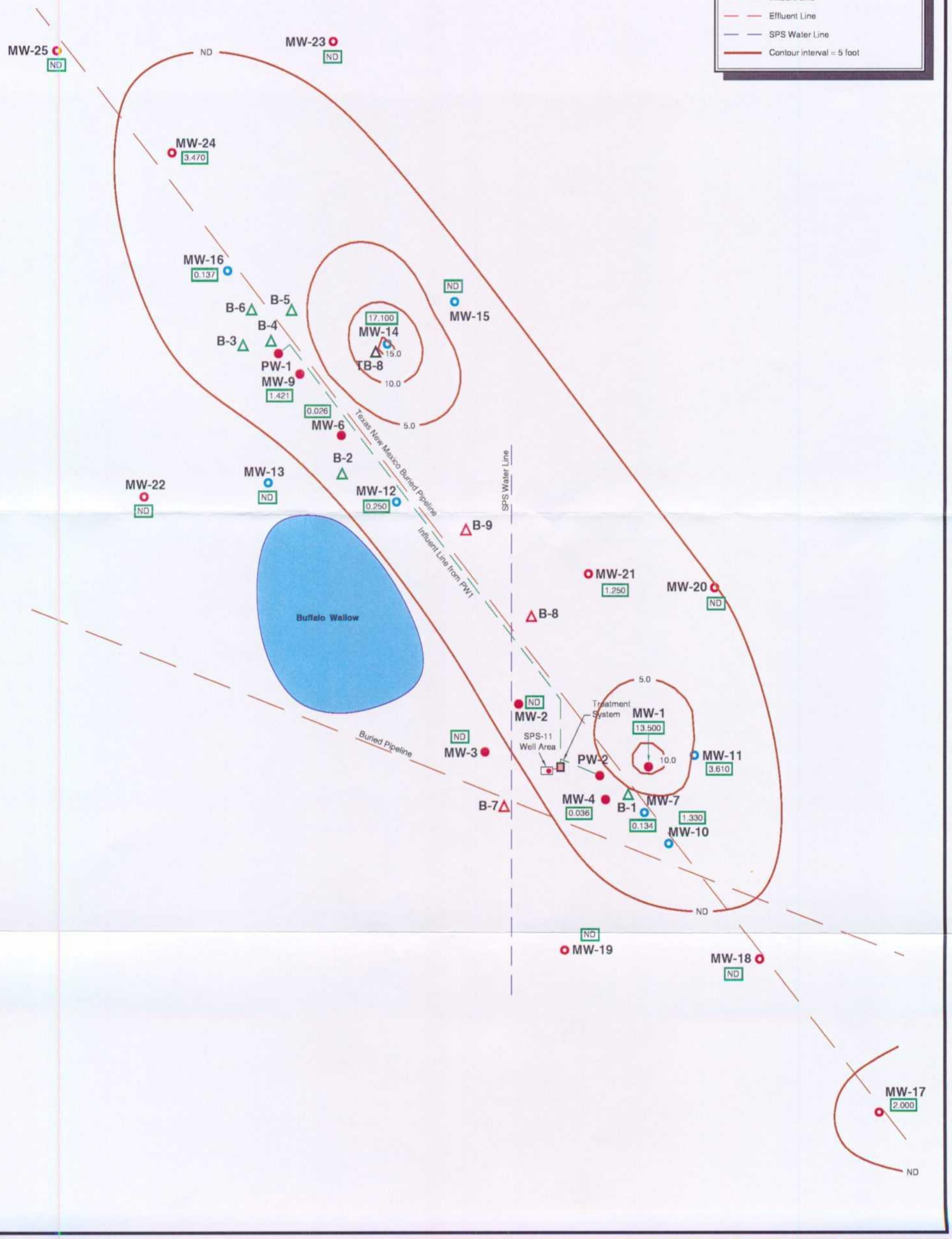
0 50 100 200

NOTE:

Ground water samples were collected on October 26, 27, and 28, 1998.

LEGEND

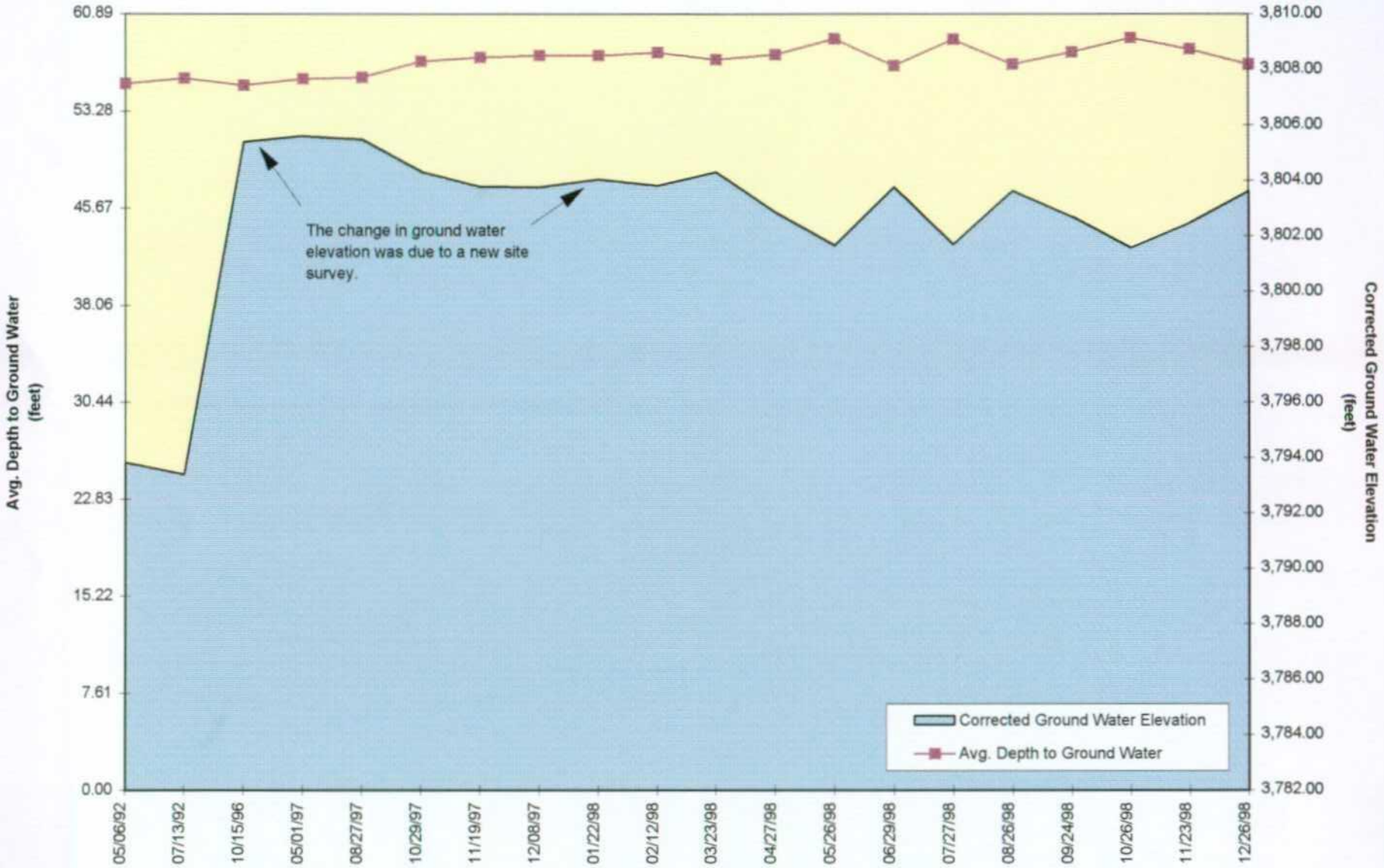
- Monitoring Well installed by KEI on December 16-22,1997.
- Soil Boring advanced by KEI on January 6, 1998.
- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- 0.237 BTEX Concentration (mg/l)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour interval = 5 foot



01/05/98- RM G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\(BTX-OT98)

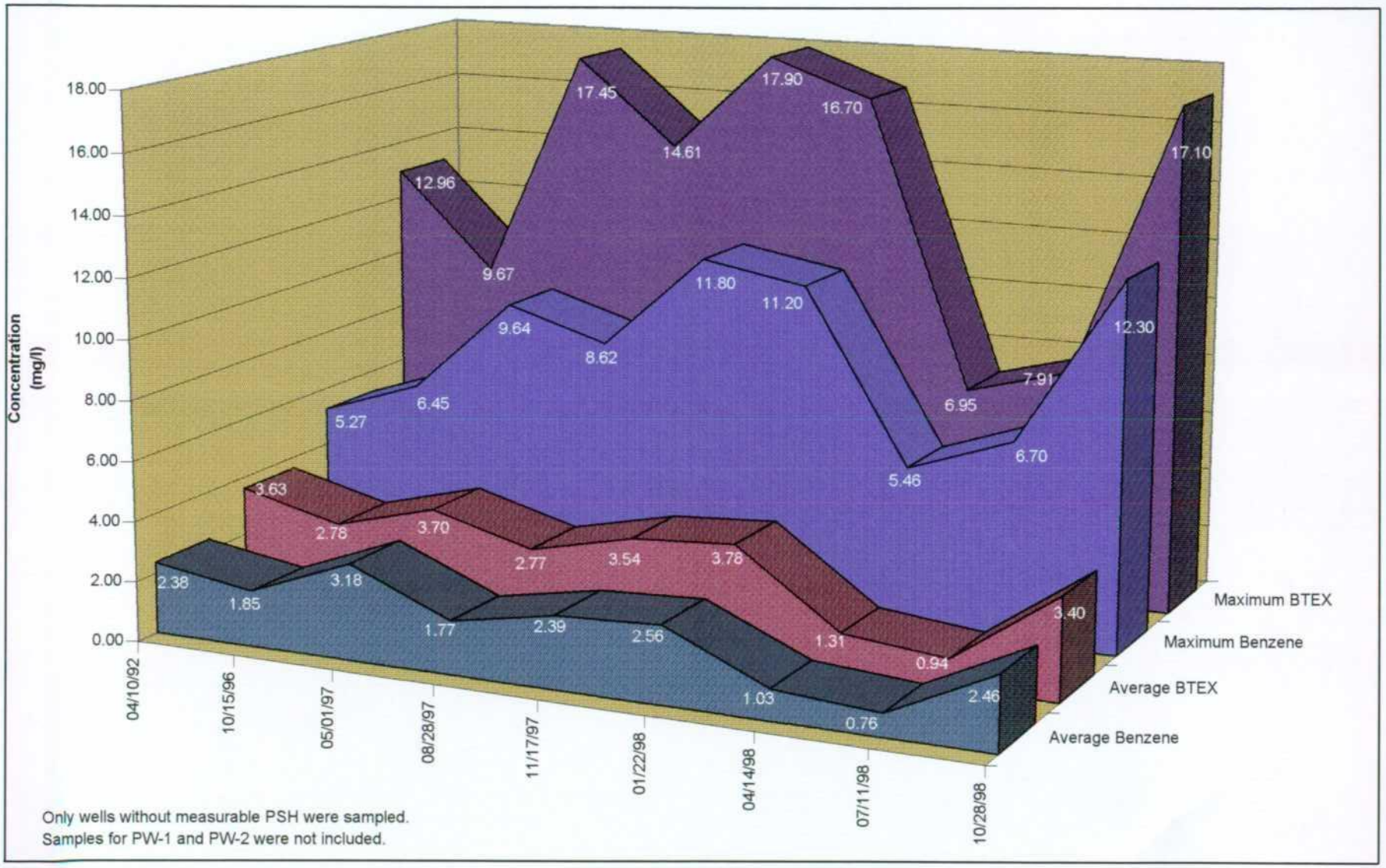
k·e·i	BTEX ISOPLETH MAP - OCTOBER 1998	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 3

FIGURE 4
AVERAGE GROUND WATER DATA



SPS-11
Lea County, New Mexico
KEI Job No. 610099-1
p:\tnmpl\610099\monitor\sumaverg.xls

FIGURE 5
DISSOLVED PHASE CONCENTRATIONS



SPS-11
Lea County, New Mexico
KEI Job No. 610099-1
p:\tnmp\i\610099\monitor\sumaverg.xls

ANALYTICAL REPORT 1-84188

for

K.E.I. Consultants, Inc.

Project Manager: S.Grover

Project Name: SPS-11

Project Id: 610099-1-0

November 20, 1998

XENCO Laboratories

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November 20, 1998

Project Manager: S.Grover
K.E.I. Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: **XENCO Report No.: 1-84188**
Project Name: SPS-11
Project ID: 610099-1-0
Project Address: Lea County, NM

Dear S.Grover:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-84188. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-84188 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,

Eddie L. Clemons, II
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-84188
Date Received in Lab: Oct 29, 1998 10:00 by SE
XENCO contact : Carlos Castro/Karen Olson

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	MW-1	184188-001	Mercury, Tot	SW846-7470	mg/L	7 days	Oct 28, 1998 08:00		Nov 6, 1998 by AO	Nov 11, 1998 14:43 by CG
2			Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 08:00		Nov 6, 1998 by AO	Nov 13, 1998 15:11 by CG
3			BTEX	SW-846	ppm	10 days	Oct 28, 1998 08:00		Oct 30, 1998 by HL	Oct 30, 1998 21:21 by HL
4			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 08:00		Oct 30, 1998 by SS	Nov 3, 1998 14:10 by LC
5			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 08:00		Nov 6, 1998 by ALO	Nov 9, 1998 13:34 by MAB
6	MW-2	184188-002	Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 09:04		Nov 6, 1998 by AO	Nov 13, 1998 15:20 by CG
7			BTEX	SW-846	ppm	10 days	Oct 28, 1998 09:04		Oct 29, 1998 by HL	Oct 29, 1998 13:11 by HL
8			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 09:04		Oct 30, 1998 by SS	Nov 3, 1998 14:55 by LC
9			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 09:04		Nov 6, 1998 by ALO	Nov 9, 1998 13:50 by MAB
10			Mercury, Tot	SW846-7470	mg/L	7 days	Oct 28, 1998 09:04		Nov 6, 1998 by AO	Nov 11, 1998 14:52 by CG
11	MW-3	184188-003	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 08:45		Nov 6, 1998 by AO	Nov 13, 1998 15:23 by CG
12			BTEX	SW-846	ppm	10 days	Oct 28, 1998 08:45		Oct 29, 1998 by HL	Oct 29, 1998 14:07 by HL
13			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 08:45		Oct 30, 1998 by SS	Nov 3, 1998 15:40 by LC
14			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 08:45		Nov 6, 1998 by ALO	Nov 9, 1998 13:55 by MAB
15			Mercury, Tot	SW846-7470	mg/L	10 days	Oct 28, 1998 08:45		Nov 6, 1998 by AO	Nov 11, 1998 14:53 by CG
16	MW-4	184188-004	Tot. Boron	EPA	mg/L	48 hours	Oct 28, 1998 08:30	Oct22,1998 15:30	Nov 6, 1998 by AO	Nov 13, 1998 15:26 by CG
17			BTEX	SW-846	*ppm*	*10 days*	*Oct 28, 1998 08:30*		*Oct 29, 1998 by HL*	*Oct 29, 1998 14:26 by HL*
18			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 08:30		Oct 30, 1998 by SS	Nov 3, 1998 16:27 by LC
19			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 08:30		Nov 6, 1998 by ALO	Nov 9, 1998 14:00 by MAB
20			Mercury, Tot	SW846-7470	mg/L	10 days	Oct 28, 1998 08:30		Nov 6, 1998 by AO	Nov 11, 1998 14:53 by CG
21	MW-6	184188-005	Mercury, Tot	SW846-7470	mg/L	3 days	Oct 28, 1998 09:15		Nov 6, 1998 by AO	Nov 11, 1998 14:54 by CG
22			Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 09:15		Nov 6, 1998 by AO	Nov 13, 1998 15:31 by CG
23			BTEX	SW-846	ppm	10 days	Oct 28, 1998 09:15		Oct 29, 1998 by HL	Oct 29, 1998 14:44 by HL
24			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 09:15		Oct 30, 1998 by SS	Nov 3, 1998 18:17 by LC
25			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 09:15		Nov 6, 1998 by ALO	Nov 9, 1998 14:21 by MAB
26	MW-7	184188-006	Mercury, Tot	SW846-7470	mg/L	24 hours	Oct 28, 1998 08:15		Nov 6, 1998 by AO	Nov 11, 1998 14:55 by CG
27			Tot. Boron	EPA	mg/L	48 hours	Oct 28, 1998 08:15		Nov 6, 1998 by AO	Nov 13, 1998 15:37 by CG
28			BTEX	SW-846	ppm	10 days	Oct 28, 1998 08:15		Oct 30, 1998 by HL	Oct 30, 1998 18:19 by HL

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-84188
Date Received in Lab: Oct 29, 1998 10:00 by SE
XENCO contact : Carlos Castro/Karen Olson

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
29			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 08:15		Oct 30, 1998 by SS	Nov 3, 1998 19:02 by LC
30			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 08:15		Nov 6, 1998 by ALO	Nov 9, 1998 14:26 by MAB
31	MW-9	184188-007	Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 09:30		Nov 6, 1998 by AO	Nov 13, 1998 15:10 by CG
32			BTEX	SW-846	ppm	10 days	Oct 28, 1998 09:30		Oct 30, 1998 by HL	Oct 30, 1998 18:37 by HL
33			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 09:30		Oct 30, 1998 by SS	Nov 3, 1998 19:47 by LC
34			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 09:30		Nov 6, 1998 by ALO	Nov 9, 1998 14:32 by MAB
35			Mercury, Tot	SW846-7470	mg/L	7 days	Oct 28, 1998 09:30		Nov 6, 1998 by AO	Nov 11, 1998 14:57 by CG
36	MW-10	184188-008	BTEX	SW-846	ppm	10 days	Oct 28, 1998 13:10		Oct 30, 1998 by HL	Oct 30, 1998 20:24 by HL
37			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 13:10		Oct 30, 1998 by SS	Nov 3, 1998 20:32 by LC
38			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 13:10		Nov 6, 1998 by ALO	Nov 9, 1998 14:37 by MAB
39			Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 13:10		Nov 6, 1998 by AO	Nov 11, 1998 14:58 by CG
40			Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 13:10		Nov 6, 1998 by AO	Nov 13, 1998 15:13 by CG
41	MW-11	184188-009	BTEX	SW-846	ppm	10 days	Oct 28, 1998 12:30		Oct 30, 1998 by HL	Oct 30, 1998 21:02 by HL
42			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 12:30		Oct 30, 1998 by SS	Nov 3, 1998 21:18 by LC
43			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 12:30		Nov 6, 1998 by ALO	Nov 9, 1998 14:42 by MAB
44			Tot. Boron	EPA	mg/L	14 days	Oct 28, 1998 12:30		Nov 6, 1998 by AO	Nov 13, 1998 15:16 by CG
45			Mercury, Tot	SW846-7470	mg/L	7 days	Oct 28, 1998 12:30		Nov 6, 1998 by AO	Nov 11, 1998 14:59 by CG
46	MW-12	184188-010	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 11:45		Nov 6, 1998 by AO	Nov 13, 1998 15:19 by CG
47			BTEX	SW-846	ppm	10 days	Oct 28, 1998 11:45		Oct 30, 1998 by HL	Oct 30, 1998 18:00 by HL
48			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:45		Oct 30, 1998 by SS	Nov 3, 1998 22:03 by LC
49			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:45		Nov 6, 1998 by ALO	Nov 9, 1998 14:47 by MAB
50			Mercury, Tot	SW846-7470	mg/L	48 hours	Oct 28, 1998 11:45	Nov 2,1998 14:00	Nov 6, 1998 by AO	Nov 11, 1998 14:59 by CG
51	MW-13	184188-011	BTEX	SW-846	ppm	10 days	Oct 28, 1998 11:15		Oct 29, 1998 by HL	Oct 29, 1998 15:40 by HL
52			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:15		Oct 30, 1998 by SS	Nov 3, 1998 22:48 by LC
53			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:15		Nov 6, 1998 by ALO	Nov 9, 1998 14:52 by MAB
54			Mercury, Tot	SW846-7470	mg/L	48 hours	Oct 28, 1998 11:15	Nov 3,1998 14:00	Nov 6, 1998 by AO	Nov 11, 1998 15:00 by CG
55			Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 11:15		Nov 6, 1998 by AO	Nov 13, 1998 15:51 by CG
56	MW-14	184188-012	BTEX	SW-846	ppm	10 days	Oct 28, 1998 11:00		Oct 29, 1998 by HL	Oct 29, 1998 16:36 by HL

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-84188
Date Received in Lab: Oct 29, 1998 10:00 by SE
XENCO contact : Carlos Castro/Karen Olson

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
57			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:00		Oct 30, 1998 by SS	Nov 3, 1998 23:33 by LC
58			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:00		Nov 6, 1998 by ALO	Nov 9, 1998 15:08 by MAB
59			Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 11:00		Nov 6, 1998 by AO	Nov 11, 1998 15:05 by CG
60			Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 11:00		Nov 6, 1998 by AO	Nov 13, 1998 16:03 by CG
61	MW-15	184188-013	BTEX	SW-846	ppm	10 days	Oct 28, 1998 10:45		Oct 29, 1998 by HL	Oct 29, 1998 15:59 by HL
62			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:45		Nov 3, 1998 by SS	Nov 4, 1998 02:35 by LC
63			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:45		Nov 6, 1998 by ALO	Nov 9, 1998 16:05 by MAB
64			Mercury, Tot	SW846-7470	mg/L	7 days	Oct 28, 1998 10:45		Nov 6, 1998 by AO	Nov 11, 1998 15:06 by CG
65			Tot. Boron	EPA	mg/L	5 days	Oct 28, 1998 10:45		Nov 6, 1998 by AO	Nov 13, 1998 16:12 by CG
66	MW-16	184188-014	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 10:30		Nov 6, 1998 by AO	Nov 13, 1998 16:15 by CG
67			BTEX	SW-846	ppm	10 days	Oct 28, 1998 10:30		Oct 29, 1998 by HL	Oct 29, 1998 16:18 by HL
68			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:30		Nov 3, 1998 by SS	Nov 4, 1998 03:20 by LC
69			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:30		Nov 6, 1998 by ALO	Nov 9, 1998 16:11 by MAB
70			Mercury, Tot	SW846-7470	mg/L	14 days	Oct 28, 1998 10:30		Nov 6, 1998 by AO	Nov 11, 1998 15:07 by CG
71	MW-17	184188-015	Mercury, Tot	SW846-7470	mg/L	10 days	Oct 28, 1998 13:20		Nov 6, 1998 by AO	Nov 11, 1998 15:12 by CG
72			Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 13:20		Nov 6, 1998 by AO	Nov 13, 1998 16:17 by CG
73			BTEX	SW-846	ppm	10 days	Oct 28, 1998 13:20		Oct 30, 1998 by HL	Oct 30, 1998 18:56 by HL
74			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 13:20		Nov 3, 1998 by SS	Nov 4, 1998 04:05 by LC
75			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 13:20		Nov 6, 1998 by ALO	Nov 9, 1998 16:16 by MAB
76	MW-18	184188-016	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 13:40		Nov 6, 1998 by AO	Nov 13, 1998 16:20 by CG
77			BTEX	SW-846	ppm	10 days	Oct 28, 1998 13:40		Oct 29, 1998 by HL	Oct 29, 1998 17:32 by HL
78			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 13:40		Nov 3, 1998 by SS	Nov 4, 1998 05:54 by LC
79			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 13:40		Nov 6, 1998 by ALO	Nov 9, 1998 16:21 by MAB
80			Mercury, Tot	SW846-7470	mg/L	5 days	Oct 28, 1998 13:40		Nov 6, 1998 by AO	Nov 11, 1998 15:12 by CG
81	MW-19	184188-017	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 13:55		Nov 6, 1998 by AO	Nov 13, 1998 16:23 by CG
82			BTEX	SW-846	ppm	10 days	Oct 28, 1998 13:55		Oct 29, 1998 by HL	Oct 29, 1998 17:51 by HL
83			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 13:55		Nov 3, 1998 by SS	Nov 4, 1998 06:39 by LC
84			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 13:55		Nov 6, 1998 by ALO	Nov 9, 1998 16:27 by MAB

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-84188
Date Received in Lab: Oct 29, 1998 10:00 by SE
XENCO contact : Carlos Castro/Karen Olson

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
85			Mercury, Tot	SW846-7470	mg/L	5 days	Oct 28, 1998 13:55		Nov 6, 1998 by AO	Nov 11, 1998 15:13 by CG
86	MW-20	184188-018	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 12:15		Nov 6, 1998 by AO	Nov 13, 1998 16:26 by CG
87			Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 12:15		Nov 6, 1998 by AO	Nov 11, 1998 15:14 by CG
88			BTEX	SW-846	ppm	10 days	Oct 28, 1998 12:15		Oct 29, 1998 by HL	Oct 29, 1998 18:32 by HL
89			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 12:15		Nov 3, 1998 by SS	Nov 4, 1998 07:25 by LC
90			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 12:15		Nov 6, 1998 by ALO	Nov 9, 1998 16:32 by MAB
91	MW-21	184188-019	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 12:00		Nov 6, 1998 by AO	Nov 13, 1998 16:29 by CG
92			BTEX	SW-846	ppm	10 days	Oct 28, 1998 12:00		Oct 30, 1998 by HL	Oct 30, 1998 20:06 by HL
93			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 12:00		Nov 3, 1998 by SS	Nov 4, 1998 08:10 by LC
94			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 12:00		Nov 6, 1998 by ALO	Nov 9, 1998 16:37 by MAB
95			Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 12:00		Nov 6, 1998 by AO	Nov 11, 1998 15:16 by CG
96	MW-22	184188-020	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 11:30		Nov 6, 1998 by AO	Nov 13, 1998 16:32 by CG
97			BTEX	SW-846	ppm	10 days	Oct 28, 1998 11:30		Oct 29, 1998 by HL	Oct 29, 1998 19:28 by HL
98			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:30		Nov 3, 1998 by SS	Nov 4, 1998 08:55 by LC
99			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:30		Nov 6, 1998 by ALO	Nov 9, 1998 16:43 by MAB
**			Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 11:30		Nov 6, 1998 by AO	Nov 11, 1998 15:16 by CG
**	MW-23	184188-021	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 10:00		Nov 6, 1998 by AO	Nov 13, 1998 16:46 by CG
**			BTEX	SW-846	ppm	10 days	Oct 28, 1998 10:00		Oct 30, 1998 by HL	Oct 30, 1998 17:23 by HL
**			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:00		Nov 3, 1998 by SS	Nov 4, 1998 09:41 by LC
**			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:00		Nov 6, 1998 by ALO	Nov 9, 1998 17:15 by MAB
**			Mercury, Tot	SW846-7470	mg/L	5 days	Oct 28, 1998 10:00		Nov 6, 1998 by AO	Nov 11, 1998 15:19 by CG
**	MW-24	184188-022	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 10:15		Nov 6, 1998 by AO	Nov 13, 1998 16:54 by CG
**			Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 10:15		Nov 6, 1998 by AO	Nov 11, 1998 15:21 by CG
**			BTEX	SW-846	ppm	10 days	Oct 28, 1998 10:15		Oct 30, 1998 by HL	Oct 30, 1998 21:39 by HL
**			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:15		Nov 3, 1998 by SS	Nov 4, 1998 10:27 by LC
**			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:15		Nov 6, 1998 by ALO	Nov 9, 1998 17:31 by MAB
**	MW-25	184188-023	Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 09:45		Nov 6, 1998 by AO	Nov 13, 1998 16:57 by CG
**			BTEX	SW-846	ppm	10 days	Oct 28, 1998 09:45		Oct 30, 1998 by HL	Oct 30, 1998 16:27 by HL

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: 1-84188
Date Received in Lab: Oct 29, 1998 10:00 by SE
XENCO contact : Carlos Castro/Karen Olson

							Date and Time			
	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
**			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 09:45		Nov 3, 1998 by SS	Nov 4, 1998 11:13 by LC
**			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 09:45		Nov 6, 1998 by ALO	Nov 9, 1998 17:37 by MAB
**			Mercury, Tot	SW846-7470	mg/L	7 days	Oct 28, 1998 09:45		Nov 6, 1998 by AO	Nov 11, 1998 15:22 by CG

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	184188 001 MW-1 Liquid 10/28/98 08:00	184188 002 MW-2 Liquid 10/28/98 09:04	184188 003 MW-3 Liquid 10/28/98 08:45	184188 004 MW-4 Liquid 10/28/98 08:30	184188 005 MW-6 Liquid 10/28/98 09:15	184188 006 MW-7 Liquid 10/28/98 08:15
Total Boron EPA 6010	Analyzed: / Units:	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.
Boron		0.26 (0.11)	0.13 (0.11)	< 0.11 (0.11)	< 0.11 (0.11)	0.15 (0.11)	0.13 (0.11)
Total Mercury EPA 7470	Analyzed: / Units:	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.
Mercury		< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)
BTEX EPA 8021B	Analyzed: / Units:	10/30/98 ppm R.L.	10/29/98 ppm R.L.	10/29/98 ppm R.L.	10/29/98 ppm R.L.	10/29/98 ppm R.L.	10/30/98 ppm R.L.
Benzene		9.3 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	0.015 (0.001)	0.018 (0.001)	0.042 (0.004)
Toluene		< 0.1 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	0.005 (0.001)	< 0.001 (0.001)	0.023 (0.004)
Ethylbenzene		2.1 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	0.007 (0.001)	0.005 (0.001)	0.024 (0.004)
m,p-Xylene		1.5 (0.2)	< 0.002 (0.002)	< 0.002 (0.002)	0.005 (0.002)	0.003 (0.002)	0.025 (0.008)
o-Xylene		0.6 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	0.004 (0.001)	< 0.001 (0.001)	0.020 (0.004)
Total BTEX		13.500	N.D.	N.D.	0.036	0.026	0.134
PAHs by GC-MS EPA 8270	Analyzed: / Units:	11/03/98 mg/L R.L.	11/03/98 mg/L R.L.	11/03/98 mg/L R.L.	11/03/98 mg/L R.L.	11/03/98 mg/L R.L.	11/03/98 mg/L R.L.
Acenaphthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Acenaphthylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benz(a)anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(a)pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(b)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(g,h,i)perylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(k)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Chrysene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.
Project Name: SPS-11

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	*Lab ID:*	184188 001	184188 002	184188 003	184188 004	184188 005	184188 006
	Field ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7
	Depth:						
	Matrix:	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sampled:	10/28/98 08:00	10/28/98 09:04	10/28/98 08:45	10/28/98 08:30	10/28/98 09:15	10/28/98 08:15
PAHs by GC-MS	*Analyzed:*	11/03/98	11/03/98	11/03/98	11/03/98	11/03/98	11/03/98
EPA 8270	*Units:*	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Dibenz(a,h)anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Fluorene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Indeno(1,2,3-cd)pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Naphthalene		0.037 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Phenanthrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Total Metals by ICP-MS	*Analyzed:*	11/09/98	11/09/98	11/09/98	11/09/98	11/09/98	11/09/98
ICP-MS Metal	*Units:*	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Aluminum		< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)
Arsenic		0.07 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Barium		1.20 (0.03)	0.18 (0.03)	0.11 (0.03)	0.10 (0.03)	0.15 (0.03)	0.76 (0.03)
Beryllium		< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)
Cadmium		< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)
Calcium		126 (0.6)	123 (0.6)	67.4 (0.6)	65.9 (0.6)	116 (0.6)	111 (0.6)
Chromium		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Cobalt		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Copper		< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.03 (0.03)	< 0.06 (0.06)	< 0.06 (0.06)
Iron		7.61 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	2.94 (0.56)
Lead		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Magnesium		53.8 (0.6)	19.3 (0.6)	8.6 (0.6)	9.50 (0.56)	15.4 (0.6)	39.7 (0.6)
Manganese		0.37 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	0.34 (0.06)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0 | ***Project Name: SPS-11*** | **Date Received in Lab :** Oct 29, 1998 10:00

Project Manager: S.Grover | **Date Report Faxed:** Nov 20, 1998

Project Location: Lea County, NM | **XENCO contact :** Carlos Castro/Karen Olson

Analysis Requested	*Lab ID:*	184188 001		184188 002		184188 003		184188 004		184188 005		184188 006	
	Field ID:	MW-1		MW-2		MW-3		MW-4		MW-6		MW-7	
	Depth:												
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	10/28/98 08:00		10/28/98 09:04		10/28/98 08:45		10/28/98 08:30		10/28/98 09:15		10/28/98 08:15	
Total Metals by ICP-MS	*Analyzed:*	11/09/98		11/09/98		11/09/98		11/09/98		11/09/98		11/09/98	
ICP-MS Metal	*Units:*	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.
Molybdenum		< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)
Nickel		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)
Selenium		< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)
Silicon		24.1	(1.1)	25.0	(1.1)	17.4	(1.1)	17.3	(1.1)	22.4	(1.1)	21.0	(1.1)
Silver		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Strontium		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Tin		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Vanadium		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	0.04	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Zinc		0.11	(0.06)	< 0.06	(0.06)	0.15	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)

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QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: S.Grover
Project Location: Lea County, NM
Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	184188 007 MW-9 Liquid 10/28/98 09:30	184188 008 MW-10 Liquid 10/28/98 13:10	184188 009 MW-11 Liquid 10/28/98 12:30	184188 010 MW-12 Liquid 10/28/98 11:45	184188 011 MW-13 Liquid 10/28/98 11:15	184188 012 MW-14 Liquid 10/28/98 11:00
Total Boron EPA 6010	Analyzed:	11/13/98	11/13/98	11/13/98	11/13/98	11/13/98	11/13/98
	Units:	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Boron		0.18 (0.11)	0.14 (0.11)	0.16 (0.11)	0.15 (0.11)	0.13 (0.11)	0.41 (0.11)
Total Mercury EPA 7470	Analyzed:	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98	11/11/98
	Units:	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Mercury		< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)
BTEX EPA 8021B	Analyzed:	10/30/98	10/30/98	10/30/98	10/30/98	10/29/98	10/29/98
	Units:	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.
Benzene		1.232 (0.004)	0.33 (0.02)	3.61 (0.05)	0.135 (0.001)	< 0.001 (0.001)	12.3 (0.1)
Toluene		< 0.004 (0.004)	0.31 (0.02)	< 0.05 (0.05)	0.036 (0.001)	< 0.001 (0.001)	0.1 (0.1)
Ethylbenzene		0.147 (0.004)	0.25 (0.02)	< 0.05 (0.05)	0.028 (0.001)	< 0.001 (0.001)	2.3 (0.1)
m,p-Xylene		0.042 (0.008)	0.30 (0.04)	< 0.10 (0.10)	0.037 (0.002)	< 0.002 (0.002)	1.6 (0.2)
o-Xylene		< 0.004 (0.004)	0.14 (0.02)	< 0.05 (0.05)	0.014 (0.001)	< 0.001 (0.001)	0.8 (0.1)
Total BTEX		1.421	1.330	3.610	0.250	N.D.	17.100
PAHs by GC-MS EPA 8270	Analyzed:	11/03/98	11/03/98	11/03/98	11/03/98	11/03/98	11/03/98
	Units:	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Acenaphthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Acenaphthylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benz(a)anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(a)pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(b)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(g,h,i)perylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(k)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Chrysene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)

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QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	184188 007 MW-9 Liquid 10/28/98 09:30		184188 008 MW-10 Liquid 10/28/98 13:10		184188 009 MW-11 Liquid 10/28/98 12:30		184188 010 MW-12 Liquid 10/28/98 11:45		184188 011 MW-13 Liquid 10/28/98 11:15		184188 012 MW-14 Liquid 10/28/98 11:00	
PAHs by GC-MS EPA 8270	Analyzed: / Units:	11/03/98 mg/L	R.L.	11/03/98 mg/L	R.L.	11/03/98 mg/L	R.L.	11/03/98 mg/L	R.L.	11/03/98 mg/L	R.L.	11/03/98 mg/L	R.L.
Dibenz(a,h)anthracene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Fluoranthene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Fluorene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Indeno(1,2,3-cd)pyrene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Naphthalene		0.011	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	0.040	(0.002)	0.040	(0.002)
Phenanthrene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Pyrene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Total Metals by ICP-MS ICP-MS Metal	Analyzed: / Units:	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.
Aluminum		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Arsenic		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	0.06	(0.06)
Barium		0.49	(0.03)	0.42	(0.03)	0.17	(0.03)	0.18	(0.03)	0.12	(0.03)	0.55	(0.03)
Beryllium		< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	<.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)
Cadmium		< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)
Calcium		140	(0.6)	192	(0.6)	190	(0.6)	130	(0.6)	89.3	(0.6)	196	(0.6)
Chromium		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Cobalt		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Copper		0.08	(0.06)	< 0.03	(0.03)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)
Iron		4.83	(0.56)	0.89	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	3.56	(0.56)
Lead		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Magnesium		37.6	(0.6)	51.8	(0.6)	17.8	(0.6)	19.1	(0.6)	10.2	(0.6)	49.2	(0.6)
Manganese		0.40	(0.06)	0.22	(0.06)	0.08	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	0.45	(0.06)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: SPS-11
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	*Lab ID:*	184188 007		184188 008		184188 009		184188 010		184188 011		184188 012	
	Field ID:	MW-9		MW-10		MW-11		MW-12		MW-13		MW-14	
	Depth:												
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	10/28/98 09:30		10/28/98 13:10		10/28/98 12:30		10/28/98 11:45		10/28/98 11:15		10/28/98 11:00	
Total Metals by ICP-MS	*Analyzed:*	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.
ICP-MS Metal	*Units:*	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Molybdenum		< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)
Nickel		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)
Selenium		< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)
Silicon		23.1	(1.1)	25.4	(1.1)	24.1	(1.1)	24.3	(1.1)	20.6	(1.1)	27.6	(1.1)
Silver		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Strontium		< 1.1	(1.1)	1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	1.24	(1.11)
Tin		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Vanadium		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	0.03	(0.03)	< 0.03	(0.03)
Zinc		0.57	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	0.09	(0.06)	0.16	(0.06)

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QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	184188 013 MW-15 Liquid 10/28/98 10:45	184188 014 MW-16 Liquid 10/28/98 10:30	184188 015 MW-17 Liquid 10/28/98 13:20	184188 016 MW-18 Liquid 10/28/98 13:40	184188 017 MW-19 Liquid 10/28/98 13:55	184188 018 MW-20 Liquid 10/28/98 12:15
Total Boron EPA 6010	Analyzed: / Units:	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.
Boron		0.19 (0.11)	0.15 (0.11)	0.15 (0.11)	0.12 (0.11)	0.11 (0.11)	0.16 (0.11)
Total Mercury EPA 7470	Analyzed: / Units:	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.
Mercury		< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)
BTEX EPA 8021B	Analyzed: / Units:	10/29/98 ppm R.L.	10/29/98 ppm R.L.	10/30/98 ppm R.L.	10/29/98 ppm R.L.	10/29/98 ppm R.L.	10/29/98 ppm R.L.
Benzene		< 0.001 (0.001)	0.046 (0.001)	0.89 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Toluene		< 0.001 (0.001)	0.051 (0.001)	0.61 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Ethylbenzene		< 0.001 (0.001)	0.015 (0.001)	0.16 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylene		< 0.002 (0.002)	0.017 (0.002)	0.24 (0.02)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
o-Xylene		< 0.001 (0.001)	0.008 (0.001)	0.10 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Total BTEX		N.D.	0.137	2.000	N.D.	N.D.	N.D.
PAHs by GC-MS EPA 8270	Analyzed: / Units:	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.
Acenaphthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Acenaphthylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benz(a)anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(a)pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0 002)	< 0.002 (0.002)
Benzo(b)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(g,h,i)perylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(k)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Chrysene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

Project ID: 610099-1-0
Project Manager: S.Grover
Project Location: Lea County, NM

K.E.I. Consultants, Inc.
Project Name: SPS-11

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	184188 013 MW-15 Liquid 10/28/98 10:45	184188 014 MW-16 Liquid 10/28/98 10:30	184188 015 MW-17 Liquid 10/28/98 13:20	184188 016 MW-18 Liquid 10/28/98 13:40	184188 017 MW-19 Liquid 10/28/98 13:55	184188 018 MW-20 Liquid 10/28/98 12:15
PAHs by GC-MS	*Analyzed:*	11/04/98	11/04/98	11/04/98	11/04/98	11/04/98	11/04/98
EPA 8270	*Units:*	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Dibenz(a,h)anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Fluorene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Indeno(1,2,3-cd)pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Naphthalene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Phenanthrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Total Metals by ICP-MS	*Analyzed:*	11/09/98	11/09/98	11/09/98	11/09/98	11/09/98	11/09/98
ICP-MS Metal	*Units:*	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.	mg/L R.L.
Aluminum		< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)
Arsenic		< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Barium		0.16 (0.03)	0.15 (0.03)	0.14 (0.03)	0.16 (0.03)	0.12 (0.03)	0.13 (0.03)
Beryllium		< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)
Cadmium		< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)
Calcium		158 (0.6)	117 (0.6)	170 (0.6)	172 (0.6)	197 (0.6)	184 (0.6)
Chromium		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Cobalt		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Copper		< 0.06 (0.06)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Iron		< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)
Lead		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Magnesium		16.4 (0.6)	15.3 (0.6)	16.3 (0.6)	18.8 (0.6)	14.0 (0.6)	16.7 (0.6)
Manganese		< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: SPS-11
Date Received in Lab : Oct 29, 1998 10:00
Project Manager: S.Grover
Date Report Faxed: Nov 20, 1998
Project Location: Lea County, NM
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	*Lab ID:*	184188 013		184188 014		184188 015		184188 016		184188 017		184188 018	
	Field ID:	MW-15		MW-16		MW-17		MW-18		MW-19		MW-20	
	Depth:												
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	10/28/98 10:45		10/28/98 10:30		10/28/98 13:20		10/28/98 13:40		10/28/98 13:55		10/28/98 12:15	
Total Metals by ICP-MS	*Analyzed:*	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.	11/09/98	R.L.
ICP-MS Metal	*Units:*	mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
Molybdenum		< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)
Nickel		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.03	(0.03)	< 0.06	(0.06)
Selenium		< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)
Silicon		24.5	(1.1)	23.1	(1.1)	23.3	(1.1)	25.2	(1.1)	23.6	(1.1)	27.4	(1.1)
Silver		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Strontium		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Tin		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	0.94	(0.56)	< 1.1	(1.1)	< 1.1	(1.1)
Vanadium		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Zinc		< 0.06	(0.06)	0.10	(0.06)	< 0.06	(0.06)	0.12	(0.06)	< 0.03	(0.03)	< 0.06	(0.06)

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QA/QC Manager

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K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	184188 019 MW-21 Liquid 10/28/98 12:00	184188 020 MW-22 Liquid 10/28/98 11:30	184188 021 MW-23 Liquid 10/28/98 10:00	184188 022 MW-24 Liquid 10/28/98 10:15	184188 023 MW-25 Liquid 10/28/98 09:45
Total Boron EPA 6010	Analyzed: / Units:	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.	11/13/98 mg/L R.L.
Boron		0.14 (0.11)	0.12 (0.11)	0.15 (0.11)	0.17 (0.11)	0.14 (0.11)
Total Mercury EPA 7470	Analyzed: / Units:	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.	11/11/98 mg/L R.L.
Mercury		< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)	< 0.0011 (0.0011)
BTEX EPA 8021B	Analyzed: / Units:	10/30/98 ppm R.L.	10/29/98 ppm R.L.	10/30/98 ppm R.L.	10/30/98 ppm R.L.	10/30/98 ppm R.L.
Benzene		1.25 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	2.84 (0.02)	< 0.001 (0.001)
Toluene		< 0.01 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	0.12 (0.02)	< 0.001 (0.001)
Ethylbenzene		< 0.01 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	0.19 (0.02)	< 0.001 (0.001)
m,p-Xylene		< 0.02 (0.02)	< 0.002 (0.002)	< 0.002 (0.002)	0.21 (0.04)	< 0.002 (0.002)
o-Xylene		< 0.01 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	0.11 (0.02)	< 0.001 (0.001)
Total BTEX		1.250	N.D.	N.D.	3.470	N.D.
PAHs by GC-MS EPA 8270	Analyzed: / Units:	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.	11/04/98 mg/L R.L.
Acenaphthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Acenaphthylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benz(a)anthracene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(a)pyrene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(b)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(g,h,i)perylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Benzo(k)fluoranthene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Chrysene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: *SPS-11*
Project Manager: S.Grover
Project Location: Lea County, NM

Date Received in Lab : Oct 29, 1998 10:00
Date Report Faxed: Nov 20, 1998
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: / Field ID: / Depth: / Matrix: / Sampled:	184188 019 MW-21 Liquid 10/28/98 12:00		184188 020 MW-22 Liquid 10/28/98 11:30		184188 021 MW-23 Liquid 10/28/98 10:00		184188 022 MW-24 Liquid 10/28/98 10:15		184188 023 MW-25 Liquid 10/28/98 09:45	
PAHs by GC-MS **EPA 8270**	*Analyzed:* / *Units:*	11/04/98 mg/L	R.L.	11/04/98 mg/L	R.L.	11/04/98 mg/L	R.L.	11/04/98 mg/L	R.L.	11/04/98 mg/L	R.L.
Dibenz(a,h)anthracene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Fluoranthene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Fluorene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Indeno(1,2,3-cd)pyrene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Naphthalene		0.008	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	0.004	(0.002)	< 0.002	(0.002)
Phenanthrene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Pyrene		< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)	< 0.002	(0.002)
Total Metals by ICP-MS **ICP-MS Metal**	*Analyzed:* / *Units:*	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.	11/09/98 mg/L	R.L.
Aluminum		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Arsenic		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	<.056	(0.056)	< 0.06	(0.06)
Barium		0.19	(0.03)	0.11	(0.03)	0.13	(0.03)	0.22	(0.03)	0.13	(0.03)
Beryllium		< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)
Cadmium		< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)	< 0.006	(0.006)
Calcium		153	(0.6)	110	(0.6)	127	(0.6)	278	(0.6)	152	(0.6)
Chromium		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Cobalt		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Copper		< 0.03	(0.03)	< 0.03	(0.03)	< 0.06	(0.06)	< 0.03	(0.03)	< 0.03	(0.03)
Iron		< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)
Lead		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Magnesium		21.0	(0.6)	8.8	(0.6)	11.7	(0.6)	23.6	(0.6)	13.5	(0.6)
Manganese		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	0.07	(0.06)	< 0 06	(0.06)

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XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-84188

K.E.I. Consultants, Inc.

Project ID: 610099-1-0
Project Name: SPS-11
Date Received in Lab : Oct 29, 1998 10:00
Project Manager: S.Grover
Date Report Faxed: Nov 20, 1998
Project Location: Lea County, NM
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	*Lab ID:*	184188 019		184188 020		184188 021		184188 022		184188 023	
	Field ID:	MW-21		MW-22		MW-23		MW-24		MW-25	
	Depth:										
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	10/28/98 12:00		10/28/98 11:30		10/28/98 10:00		10/28/98 10:15		10/28/98 09:45	
Total Metals by ICP-MS	*Analyzed:*	11/09/98		11/09/98		11/09/98		11/09/98		11/09/98	
ICP-MS Metal	*Units:*	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.	mg/L	R.L.
Molybdenum		< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)
Nickel		< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)
Selenium		< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)	< 0.05	(0.05)
Silicon		26.9	(1.1)	19.9	(1.1)	22.3	(1.1)	26.5	(1.1)	22.8	(1.1)
Silver		< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Strontium		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Tin		< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)	< 1.1	(1.1)
Vanadium		< 0.03	(0.03)	0.04	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)	< 0.03	(0.03)
Zinc		< 0.06	(0.06)	< 0.06	(0.06)	0.06	(0.06)	< 0.06	(0.06)	< 0.06	(0.06)

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Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A46A56

EPA SW846/6010 Total Boron

Date Validated: Nov 16, 1998 13:09
Date Analyzed: Nov 13, 1998 16:34

Analyst: CG
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Boron	< 0.111	1.992	2.220	0.111	89.7	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
[redacted] Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A46A56

EPA SW846/6010 Total Boron

Date Validated: Nov 16, 1998 13:09
Date Analyzed: Nov 13, 1998 15:11

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 001	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Boron	0.260	0.248	0.111	4.7	25.0	2.341	2.22	93.7	70-125	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A46A56

EPA SW846/6010 Total Boron

Date Validated: Nov 16, 1998 13:09
Date Analyzed: Nov 13, 1998 15:51

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 011	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Boron	0.132	0.136	0.111	3.0	25.0	2.236	2.22	94.8	70-125	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A05E01

SW846- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04
Date Analyzed: Nov 11, 1998 15:20

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 021	[A] Sample Result	[B] Duplicate Result	[C]	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G] Qualifier
Parameter			Detection Limit	Relative Difference	Relative Difference			Matrix Spike Recovery	Recovery Range	
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0011	< 0.0011	0.0011	N.C	25.0	0.0029	0.0028	103.6	70-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C = Not calculated, data below detection limit
N.D = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XEN Laboratories

Certificate Of Quality Control for Batch : 18A05E01

SW846- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04
Date Analyzed: Nov 11, 1998 14:43

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 001	[A] Sample Result	[B] Duplicate Result	[C]	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G] Qualifier
Parameter			Detection Limit	Relative Difference	Relative Difference			Matrix Spike Recovery	Recovery Range	
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0011	< 0.0011	0.0011	N.C	25 0	0.0028	0.0028	100 0	70-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N C. = Not calculated, data below detection limit
N D = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A05E01

SW846- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04
Date Analyzed: Nov 11, 1998 15:01

Analyst: CG
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 011	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC LIMITS Relative Difference	[E] Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0 0011	< 0.0011	0.0011	N.C	25.0	0.0029	0.0028	103.6	70-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25D83

SW- 846 5030/8021B BTEX

Date Validated: Nov 2, 1998 09:45
Date Analyzed: Oct 30, 1998 15:49

Analyst: HL
Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	
Toluene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	
Ethylbenzene	< 0.0010	0.1030	0.1000	0.0010	103.0	65-135	
m,p-Xylene	< 0.0020	0.2070	0.2000	0.0020	103.5	65-135	
o-Xylene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	

Bla[redacted]pike Recovery [E] = 100*(B-A)/(C)
N.[redacted]ot calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25D81

SW- 846 5030/8021B BTEX

Date Validated: Oct 30, 1998 16:30
Date Analyzed: Oct 29, 1998 13:11

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 184188- 002 / Parameter	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.1080	0.0971	0.1000	0.0010	20.0	10.6	108.0	97.1	65-135	
Toluene	< 0.0010	0.1050	0.0968	0.1000	0.0010	20.0	8.1	105.0	96.8	65-135	
Ethylbenzene	< 0.0010	0.1040	0.0987	0.1000	0.0010	20.0	5.2	104.0	98.7	65-135	
m,p-Xylene	< 0.0020	0.2100	0.1960	0.2000	0.0020	20.0	6.9	105.0	98.0	65-135	
o-Xylene	< 0.0010	0.1060	0.1020	0.1000	0.0010	20.0	3.8	106.0	102.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25D81

SW- 846 5030/8021B BTEX

Date Validated: Oct 30, 1998 16:30
Date Analyzed: Oct 29, 1998 12:34

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] QC LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1200	0.1000	0.0010	120.0	65-135	
Toluene	< 0.0010	0.1180	0.1000	0.0010	118.0	65-135	
Ethylbenzene	< 0.0010	0.1180	0.1000	0.0010	118.0	65-135	
m,p-Xylene	< 0.0020	0.2380	0.2000	0.0020	119.0	65-135	
o-Xylene	< 0.0010	0.1190	0.1000	0.0010	119.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A05E01

SW846- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04
Date Analyzed: Nov 11, 1998 15:17

Analyst: CG
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Mercury	< 0.0011	0.0029	0.0028	0.0011	103.6	70-120	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = *Not calculated, data below detection limit*
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A05E01

SW846- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04
Date Analyzed: Nov 11, 1998 14:37

Analyst: CG
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Mercury	< 0.0011	0.0030	0.0028	0.0011	107.1	70-120	

Spike Recovery [E] = 100(B-A)/(C)*
= Not calculated. data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A25D83

SW- 846 5030/8021B BTEX

Date Validated: Nov 2, 1998 09:45
Date Analyzed: Oct 30, 1998 16:27

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 184188- 023	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.1070	0.1110	0.1000	0.0010	20.0	3.7	107.0	111.0	65-135	
Toluene	< 0.0010	0.1040	0.1070	0.1000	0.0010	20.0	2.8	104.0	107.0	65-135	
Ethylbenzene	< 0.0010	0.1020	0.1050	0.1000	0.0010	20.0	2.9	102.0	105.0	65-135	
m,p-Xylene	< 0.0020	0.2050	0.2140	0.2000	0.0020	20.0	4.3	102.5	107.0	65-135	
o-Xylene	< 0.0010	0.1030	0.1080	0.1000	0.0010	20.0	4.7	103.0	108.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A02D42

SW846-8270 PAHs by GC-MS

Date Validated: Nov 5, 1998 13:36
Date Analyzed: Nov 4, 1998 00:19

Analyst: LC
Matrix: Liquid

Parameter	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0020	0.0462	0.0470	0.0500	0.0020	31.0	1.7	92.4	94.0	46-118	
4-Chloro-3-methylphenol	< 0.0020	0.0358	0.0370	0.0500	0.0020	42.0	3.3	71.6	74.0	23-97	
2-Chlorophenol	< 0.0020	0.0358	0.0363	0.0500	0.0020	40.0	1.4	71.6	72.6	27-123	
1,4-Dichlorobenzene	< 0.0020	0.0391	0.0408	0.0500	0.0020	28.0	4.3	78.2	81.6	36-97	
2,4-Dinitrotoluene	< 0.0020	0.0388	0.0411	0.0500	0.0020	38.0	5.8	77.6	82.2	24-96	
N-Nitrosodi-n-propylamine	< 0.0040	0.0425	0.0438	0.0500	0.0040	38.0	3.0	85.0	87.6	41-116	
4-Nitrophenol	< 0.0040	0.0112	0.0120	0.0500	0.0040	50.5	6.9	22.4	24.0	10-80	
Pentachlorophenol	< 0.0010	0.0158	0.0166	0.0500	0.0010	50.0	4.9	31.6	33.2	9-103	
Phenol	< 0.0010	0.0104	0.0103	0.0500	0.0010	42.0	1.0	20.8	20.6	12-89	
Pyrene	< 0.0020	0.0567	0.0585	0.0500	0.0020	31.0	3.1	113.2	116.8	26-127	
1,2,4-Trichlorobenzene	< 0.0010	0.0418	0.0417	0.0500	0.0010	28.0	0.2	83.6	83.4	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A02D31

SW846-8270 PAHs by GC-MS

Date Validated: Nov 3, 1998 14:35
Date Analyzed: Nov 3, 1998 06:37

Analyst: LC
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0020	0.0463	0.0495	0.0500	0.0020	31.0	6.7	92.6	99.0	46-118	
4-Chloro-3-methylphenol	< 0.0020	0.0362	0.0417	0.0500	0.0020	42.0	14.1	72.4	83.4	23-97	
2-Chlorophenol	< 0.0020	0.0341	0.0378	0.0500	0.0020	40.0	10.3	68.2	75.6	27-123	
1,4-Dichlorobenzene	< 0.0020	0.0408	0.0426	0.0500	0.0020	28.0	4.3	81.6	85.2	36-97	
2,4-Dinitrotoluene	< 0.0020	0.0425	0.0452	0.0500	0.0020	38.0	6.2	85.0	90.4	24-96	
N-Nitrosodi-n-propylamine	< 0.0040	0.0446	0.0490	0.0500	0.0040	38.0	9.4	89.2	98.0	41-116	
4-Nitrophenol	< 0.0040	0.0121	0.0138	0.0500	0.0040	50.5	13.1	24.2	27.6	10-80	
Pentachlorophenol	< 0.0010	0.0221	0.0237	0.0500	0.0010	50.0	7.0	44.2	47.4	9-103	
Phenol	< 0.0010	0.0121	0.0133	0.0500	0.0010	42.0	9.4	24.2	26.6	12-89	
Pyrene	< 0.0020	0.0544	0.0586	0.0500	0.0020	31.0	7.4	108.8	117.2	26-127	
1,2,4-Trichlorobenzene	< 0.0010	0.0422	0.0445	0.0500	0.0010	28.0	5.3	84.4	89.0	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Houston Dallas San Antonio

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A20

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 16:48

Analyst: MAB
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Aluminum	< 0.56	2.13	2.22	0.56	95.9	70-125	
Arsenic	< 0.028	2.050	2.220	0.028	92.3	70-125	
Barium	< 0.028	0.884	1.110	0.028	79.6	70-125	
Beryllium	< 0.0056	0.3972	0.4440	0.0056	89.5	70-125	
Cadmium	< 0.0056	0.4433	0.4440	0.0056	99.8	75-125	
Chromium	< 0.011	1.047	1.110	0.011	94.3	70-125	
Cobalt	< 0.028	1.043	1.110	0.028	94.0	70-125	
C[illegible]	< 0.028	1.027	1.110	0.028	92.5	70-125	
Iron	< 0.556	1.889	2.220	0.556	85.1	70-125	
Lead	< 0.011	2.025	2.220	0.011	91.2	70-125	
Magnesium	< 0.56	4.00	4.44	0.56	90.1	70-125	
Manganese	< 0.056	2.121	2.220	0.056	95.5	70-125	
Nickel	< 0.028	1.015	1.110	0.028	91.4	70-125	
Selenium	< 0.056	2.164	2.220	0.056	97.5	70-125	
Silver	< 0.028	0.446	0.556	0.028	80.2	70-125	
Strontium	< 0.56	1.69	2.22	0.56	76.1	70-125	
Vanadium	< 0.028	1.012	1.110	0.028	91.2	70-125	
Zinc	< 0.028	1.005	1.110	0.028	90.5	70-125	

Bla[illegible]pike Recovery [E] = 100*(B-A)/(C)
N.C[illegible] Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A20

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 17:20

Analyst: MAB
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 021	[A] Sample Result	[B] Duplicate Result	[C]	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G]
Parameter			Detection Limit	Relative Difference	Relative Difference			Matrix Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Aluminum	< 0.56	< 0.56	0.56	N.C	25.0	2.58	2.2	117.3	70-125	
Arsenic	< 0.028	< 0.028	0.028	N.C	25.0	2.143	2.20	97.4	70-125	
Barium	0.133	0.131	0.028	1.5	25.0	1.012	1.10	79.9	70-125	
Beryllium	< 0.0056	< 0.0056	0.0056	N.C	25.0	0.4189	0.444	94.3	70-125	
Cadmium	< 0.0056	< 0.0056	0.0056	N.C	20.0	0.4483	0.444	101.0	75-125	
Chromium	< 0.011	< 0.011	0.011	N.C	25.0	1.062	1.10	96.5	70-125	
Cobalt	< 0.028	< 0.028	0.028	N.C	25.0	1.077	1.10	97.9	70-125	
Copper	< 0.028	< 0.028	0.028	N.C	25.0	1.064	1.10	96.7	70-125	
Iron	< 0.556	< 0.556	0.556	N.C	25.0	2.500	2.22	112.6	70-125	
Lead	< 0.011	< 0.011	0.011	N.C	25.0	2.141	2.22	96.4	70-125	
Magnesium	11.67	12.17	0.56	4.2	25.0	14.89	4.4	72.5	70-125	
Manganese	< 0.056	< 0.056	0.056	N.C	25.0	2.141	2.22	96.4	70-125	
Nickel	< 0.028	< 0.028	0.028	N.C	25.0	1.046	1.10	95.1	70-125	

(A) LCS within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Houston Dallas San Antonio

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A20

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 17:20

Analyst: MAB
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 021	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Selenium	< 0.056	< 0.056	0.056	N.C	25.0	2.194	2.20	99.7	70-125	
Silver	< 0.028	< 0.028	0.028	N.C	25.0	0.410	1.10	37.3	70-125	A
Strontium	0.58	0.58	0.56	0.0	25.0	2.62	2.2	92.7	70-125	
Vanadium	< 0.028	< 0.028	0.028	N.C	25.0	1.046	1.10	95.1	70-125	
Zinc	0.064	0.056	0.028	13.3	25.0	1.112	1.10	95.3	70-125	

(A) LCS within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D = Below detection limit
All results are based on MDL and validated for QC purposes only

Eldie L. Clemons, II
QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A19

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 13:23

Analyst: MAB
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Aluminum	3.03	11.52	10.00	2.78	84.9	70-125	
Arsenic	< 0.139	10.083	10.000	0.139	100.8	70-125	
Barium	< 0.139	4.281	5.000	0.139	85.6	70-125	
Beryllium	< 0.028	1.794	2.000	0.028	89.7	70-125	
Cadmium	< 0.028	2.025	2.000	0.028	101.3	75-125	
Chromium	< 0.056	5.217	5.000	0.056	104.3	70-125	
Cobalt	< 0.139	5.406	5.000	0.139	108.1	70-125	
C[illegible]	< 0.139	5.378	5.000	0.139	107.6	70-125	
Iron	< 2.78	11.94	10.00	2.78	119.4	70-125	
Lead	< 0.056	9.972	10.000	0.056	99.7	70-125	
Magnesium	< 2.78	20.83	20.00	2.78	104.2	70-125	
Manganese	< 0.278	10.325	10.000	0.278	103.3	70-125	
Nickel	< 0.139	5.283	5.000	0.139	105.7	70-125	
Selenium	< 0.278	10.261	10.000	0.278	102.6	70-125	
Silver	< 0.139	1.825	2.500	0.139	73.0	70-125	
Strontium	< 2.78	9.66	10.00	2.78	96.6	70-125	
Vanadium	< 0.139	4.986	5.000	0.139	99.7	70-125	
Zinc	< 0.139	5.031	5.000	0.139	100.6	70-125	

Bla[illegible]pike Recovery [E] = 100*(B-A)/(C)
N.C[illegible]Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A19

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 13:39

Analyst: MAB
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 001	[A] Sample Result	[B] Duplicate Result	[C]	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G]
Parameter	mg/L	mg/L	Detection Limit mg/L	Relative Difference %	Relative Difference %	mg/L	mg/L	Matrix Spike Recovery %	Recovery Range %	Qualifier
Aluminum	< 0.56	< 0.56	0.56	N.C	25.0	2.39	2.2	107.7	70-125	
Arsenic	0.068	0.070	0.028	2.9	25.0	2.215	2.22	96.7	70-125	
Barium	1.199	1.238	0.028	3.2	25.0	2.022	1.10	74.8	70-125	
Beryllium	< 0.0056	< 0.0056	0.0056	N.C	25.0	0.4128	0.444	93.0	70-125	
Cadmium	< 0.0056	< 0.0056	0.0056	N.C	20.0	0.4294	0.444	96.7	75-125	
Chromium	< 0.011	< 0.011	0.011	N.C	25.0	1.089	1.10	99.0	70-125	
Cobalt	< 0.028	< 0.028	0.028	N.C	25.0	1.134	1.10	103.1	70-125	
Copper	< 0.028	< 0.028	0.028	N.C	25.0	1.117	1.10	101.5	70-125	
Iron	7.611	7.778	0.556	2.2	25.0	9.444	2.22	82.6	70-125	
Lead	< 0.011	< 0.011	0.011	N.C	25.0	2.259	2.22	101.8	70-125	
Magnesium	53.78	55.33	0.56	2.8	25.0	52.44	4.4	30.2	70-125	A,B
Manganese	0.373	0.381	0.056	2.1	25.0	2.546	2.22	97.9	70-125	
Nickel	< 0.028	< 0.028	0.028	N.C	25.0	1.099	1.10	99.9	70-125	

(A) High analyte concentration affects spike recovery.
(B) LCS within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N C. = Not calculated, data below detection limit
N D = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A19

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 13:39

Analyst: MAB
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 001	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Selenium	< 0.056	< 0.056	0.056	N.C	25.0	2.148	2.20	97.6	70-125	
Silver	< 0.028	< 0.028	0.028	N.C	25.0	0.550	0.56	98.2	70-125	
Strontium	0.97	0.98	0.56	1.0	25.0	2.98	2.2	91.4	70-125	
Vanadium	< 0.028	< 0.028	0.028	N.C	25.0	1.072	1.10	97.5	70-125	
Zinc	0.105	< 0.028	0.028	N.C	25.0	1.094	1.10	89.9	70-125	

(A) High analyte concentration affects spike recovery.
(B) LCS within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A19

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 14:52

Analyst: MAB
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 011	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Aluminum	< 0.56	< 0.56	0.56	N.C	25.0	2.50	2.2	113.6	70-125	
Arsenic	< 0.028	< 0.028	0.028	N.C	25.0	2.078	2.20	94.5	70-125	
Barium	0.123	0.124	0.028	0.8	25.0	0.978	1.10	77.7	70-125	
Beryllium	< 0.0056	< 0.0056	0.0056	N.C	25.0	0.4106	0.444	92.5	70-125	
Cadmium	< 0.0056	< 0.0056	0.0056	N.C	20.0	0.4328	0.444	97.5	75-125	
Chromium	< 0.011	88.944	0.011	N.C	25.0	1.026	1.10	93.3	70-125	
Cobalt	< 0.028	< 0.028	0.028	N.C	25.0	1.032	1.10	93.8	70-125	
Copper	< 0.028	< 0.028	0.028	N.C	25.0	1.052	1.10	95.6	70-125	
Iron	< 0.556	< 0.556	0.556	N.C	25.0	2.444	2.22	110.1	70-125	
Lead	< 0.011	< 0.011	0.011	N.C	25.0	2.066	2.22	93.1	70-125	
Magnesium	10.22	10.39	0.56	1.6	25.0	13.83	4.4	81.3	70-125	
Manganese	< 0.056	< 0.056	0.056	N.C	25.0	2.053	2.22	92.5	70-125	
Nickel	< 0.028	< 0.028	0.028	N.C	25.0	1.010	1.10	91.8	70-125	

(B) LCS within acceptance limits.
(C) Variability in duplicate measurment attributed to sample non-homogneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 18A48A19

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17
Date Analyzed: Nov 9, 1998 14:52

Analyst: MAB
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 184188- 011	[A] Sample Result	[B] Duplicate Result	[C] Detection Limit	[D] QC LIMITS Relative Difference	[E] QC LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] QC LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Selenium	< 0.056	< 0.056	0.056	N.C	25.0	2.104	2.20	95.6	70-125	
Silver	< 0.028	< 0.028	0.028	N.C	25.0	0.237	1.10	21.5	70-125	B
Strontium	< 0.56	< 0.56	0.56	N.C	25.0	2.48	2.2	112.7	70-125	
Vanadium	0.030	0.030	0.028	0.0	25.0	1.020	1.10	90.0	70-125	
Zinc	0.095	0.067	0.028	34.6	25.0	1.086	1.10	90.1	70-125	C

(B) LCS within acceptance limits.
(C) Variability in duplicate measurment attributed to sample non-homogneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Eddie L. Clemons, II
QA/QC Manager

XENCO Laboratories

☐ 11381 Meadowglen, Suite L, Houston TX 77082 281-589-0692
☒ 5309 Wurzbach Road, Suite 104, San Antonio, TX 78238 210-509-3334
☐ 11078 Morrison Road, Suite D, Dallas, TX 75229 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

On-LINE Help & Technical Services at XENCO.com

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Company COC No: 188 Work Order No: 610099-1-0 Page 1 of 3

Company	XEI	Phone	(210) 680-3767
Project Name	SPS-11 ☒ Previously done at XENCO	Project ID	610099-1-0
Location	LEA COUNTY NM		
Project Manager (PM)	S. GROVER	Project Director (PD)	M. HAWTHORNE
Fax Results to	☒ PM and / or	Fax	(210) 680-3763

Invoice to ☐ Accounting ☐ Include Invoice with Final Report Attn PM ☐ Invoice must have a P.O Bill to:

Quote No. P.O No 610099-1-0 ☐ Call for a P.O.

Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)

Specifications

Sampler Name Ken Dutton Signature Ken Dutton

Lab Only: 184188-SA

TAT: 5h 12h 20h 24h 48h 3d 5d 7d 14d 21d (Standard TAT is 10 Working Days) unless otherwise agreed in writing. But often reported in 5-7 Working Days

Lab Only Additions: From: Rcv by: Date

	Sample ID	Sampling Date	Time	Depth ft" In" m	Matrix A P S W	Composite	Grab	# Containers	Container Size	Type	Preservatives	BTEX by 8020	BTEX-MTBE by 8020	TPH by TX1005	PAHs by 8270	METALS by 6010	VOAs by 8260	SVOAs by 8270	TAT 5h 12h 20h 24h 48h 3d 5d 7d 10d 14d 21d	Addn: PAH above mg/L W. mg/Kg S Highest Hit	Hold Analysis
1	MW-1	28 Oct 98	0800				X	4	V,1,1	P,GA	C4,H HNO3	X			X	X					
2	MW-2		0900																		
3	MW-3		0845																		
4	MW-4		0830																		
5	MW-6		0915																		
6	MW-7		0815																		
7	MW-9		0930																		
8	MW-10		1310																		
9	MW-11		1230																		
10	MW-12		1145																		

Remarks: CALL S. GROVER IF QUESTIONS @ (210) 680-3767

VIA UPS

Relinquished by (Initials and Signature)	Relinquished to (Initials and Signature)	Date & Time
1 KD Ken Dutton		28 Oct 98 1500
2		
3	Lab: Cortez	10/29/98 10:00

Total Containers per COC: 92

Rush TATs Fax Due: Final Fax Due:

Final Report Data Package Due Date:

Rush Charges are Pre-Approved upon Requesting them. All Terms Apply

Preservatives - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO4 pH<2 (N), NaOH+Ascorbic Acid (NAA), ZnAc+NaOH (ZA), (Cool,<4C) (C4), None (N), See Label (SL), Other (O) _____

SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (.5), Tedlar Bag (B), Wipe (W), Other _____ **TYPE** Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O) _____

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☐ 11078 Morrison Road, Suite D, Dallas, TX 75229 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

On-LINE Help & Technical Services at XENCO.com

Company COC No: 188 **Work Order No:** 1

177

Company **Phone**

Project Name ☐ Previously done at XENCO **Project ID**

Location

Project Manager (PM) ***Project Director (PD)***

Fax Results to ☐ PM and / or **Fax**

Invoice to ☐ Accounting ☐ Include Invoice with Final Report Attn PM ☐ Invoice must have a P.O Bill to:

Quote No. **P.O No** ☐ Call for a P.O.

Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)

Specifications

Sampler Name Signature

Lab Only: 184188-SA

Lab Only Additions

TAT: 5h 12h 20h 24h 48h 3d 5d 7d 14d 21d Standard TAT is 10 Working Days unless otherwise agreed in writing. But often reported in 5-7 Working Days

	Sample ID	Sampling Date	Time	Depth ft' In" m	Matrix A P S W	Composite	Grab	# Containers	Container Size	Type	Preservatives	BTEX by 8020	BTEX-MTBE by 8020	TPH by TX1005	PAHs by 8270	METALS by 6010	VOAs by 8260	SVOAs by 8270	TAT 5h 12h 20h 24h 48h 3d 5d 7d 10d 14d 21d	Addn: PAH above mg/L W. mg/Kg S Highest Hit	Hold Analysis	Remarks
1	MW-13	21 oct 98	1115				X	4	V,1,1	P,G	C4,H #NO3	X			X	X						
2	MW-14		1100																			
3	MW-15		1045																			
4	MW-16		1030																			
5	MW-17		1320																			
6	MW-18		1340																			
7	MW-19		1355																			
8	MW-20		1215																			
9	MW-21		1200																			
10	MW-22		1130																			

Lab Only Additions: From: / Rcv by: / Date

Relinquished by (Initials and Signature)	Relinquished to (Initials and Signature)	Date & Time
1		
2		
3	Lab: Courtney	10/29/98 10:00

Total Containers per COC: 92

Rush TATs Fax Due: Final Fax Due:

Final Report Data Package Due Date:

Rush Charges are Pre-Approved upon Requesting them. All Terms Apply

VIA UPS

Preservatives - Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO4 pH<2 (**N**), NaOH+Ascorbic Acid (**NAA**), ZnAc+NaOH (**ZA**), (Cool,<4C) (**C4**), None (**N**), See Label (**SL**), Other (**O**) _____

SIZE: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**V**), 1L (**1**), 500ml (**.5**), Tedlar Bag (**B**), Wipe (**W**), Other _____ **TYPE** Glass Amb (**GA**), Glass Clear (**GC**), Plastic (**P**), Other (**O**) _____

XENCO Laboratories

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☐ 5309 Wurzbach Road, Suite 104, San Antonio, TX 78238 210-509-3334
☐ 11078 Morrison Road, Suite D, Dallas, TX 75229 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

On-LINE Help & Technical Services at XENCO.com

Company COC No: 188 **Work Order No:** 178

Company	**Phone**
Project Name ☐ Previously done at XENCO	**Project ID**
Location	
Project Manager (PM)	**Project Director (PD)**
Fax Results to ☐ PM and / or	**Fax**
Invoice to ☐ Accounting ☐ Include Invoice with Final Report Attn PM ☐ Invoice must have a P.O Bill to:	
Quote No.	**P.O No** ☐ Call for a P.O.
Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)	
Specifications	
Sampler Name	Signature

Lab Only: 184188-SA

TAT: 5h 12h 20h 24h 48h 3d 5d 7d 14d 21d Standard TAT is 10 Working Days unless otherwise agreed in writing. But often reported in 5-7 Working Days

Lab Only Additions: From: / Rcv by: / Date

#	Sample ID	Sampling Date	Time	Depth (ft' in" m)	Matrix (A P S W)	Composite	Grab	# Containers	Container Size	Type	Preservatives	BTEX by 8020 (8021 8260 602 624 Other)	BTEX-MTBE by 8020 (8021 8260 602 624 Other)	TPH by TX1005 (418.1 8015GRO 8015DRO 8015JetF)	PAHs by 8270 (8100 8310)	METALS by 6010 (8RCRA Tot Pb TCLP8 13PP 237AL See List)	VOAs by 8260 (624 BTEX MTBE PPs TCL See List Call PM)	SVOAs by 8270 (625 PAHs BN&A TCL PPs See List Call PM)
1	MW-23		1000				X	1	V,1,1	P,G	C4, HNO3	X			X	X		
2	MW-24		1015															
3	MW-25		0945															
4																		
5																		
6																		
7																		
8																		
9																		
10																		

TAT 5h 12h 20h 24h 48h 3d 5d 7d 10d 14d 21d

Addn: PAH above mg/L **W**, mg/Kg **S** Highest Hit

Hold Analysis

Remarks

→ VIA UPS

Relinquished by (Initials and Signature)	Relinquished to (Initials and Signature)	Date & Time
1		
2		
3	Lab: Cortez	10/29/98 10:00

Total Containers per COC: 92

Rush TATs Fax Due: Final Fax Due:

Final Report Data Package Due Date:

Rush Charges are Pre-Approved upon Requesting them. All Terms Apply

Preservatives - Various (**V**), HCl pH<2 (**H**), H2SO4 pH<2 (**S**), HNO4 pH<2 (**N**), NaOH+Asbc Acid (**NAA**), ZnAc+NaOH (**ZA**), (Cool,<4C) (**C4**), None (**N**), See Label (**SL**), Other (**O**) _____

SIZE: 4oz (**4**), 8oz (**8**), 32oz (**32**), 40ml VOA (**V**), 1L (**1**), 500ml (**.5**), Tedlar Bag (**B**), Wipe (**W**), Other _____ **TYPE** Glass Amb (**GA**), Glass Clear (**GC**), Plastic (**P**), Other (**O**) _____

k·e·i
5309 Wurzbach, Suite 100
San Antonio, Texas 78238
(210) 680-3767
(210) 680-3763 FAX

GW-140

ANNUAL MONITORING REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

PREPARED FOR:

TEXAS - NEW MEXICO PIPE LINE COMPANY
P. O. Box 1030
Jal, New Mexico 88252

Mr. Tony Savoie

PREPARED BY:

KEI

Theresa Nix
Project Manager

Paul B. Hartnett, P.E.
Senior Engineer

KEI Job No. 610099

February 11, 1998

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INTRODUCTION

This annual report has been prepared in compliance with the New Mexico Oil Conservation Division (OCD) letter of January 23, 1997, requiring submittal of such a report by February 15 of each year. The report presents results of ground water monitoring and remediation monitoring activities conducted for the Texas - New Mexico Pipe Line Company (TNMPL) site SPS-11 located approximately 12 miles northwest of Monument in Lea County, New Mexico, in Section 18, Township 18 South, Range 36 East. A site location map is presented as FIG. 1.

This report addresses all activities conducted for the annual period of 1997. Ground water monitoring was conducted during the second, third, and fourth quarters of 1997 to assess the levels and extent of petroleum hydrocarbon constituents in ground water. The monitoring events consisted of measuring static water levels in the monitoring wells, checking for the presence of phase-separate hydrocarbons (PSH), and purging and sampling each well exhibiting sufficient recharge.

This report also presents a brief operational summary of the ground water recovery and treatment remediation system that was operated at the site during the annual period. The system was installed to recover ground water from pumping wells PW-1 and PW-2. The system treats the ground water prior to discharging the treated water into the adjacent Southwestern Public Service (SPS) Plant water supply system.

CHRONOLOGY OF EVENTS

A chronological listing of significant events and activities is presented below.

02/93:	Remediation system installed.
03/05/93:	OCD issued a letter to TNMPL requesting additional information regarding the discharge plan application dated January 25, 1993.
08/08 through 08/09/94:	Remediation system test for 31 hours. Water treated and discharged to Playa Lake.
08/15 through 08/22/95:	Remediation system startup test. Treated water discharged into Playa Lake.
08/22/95:	Discharge of treated groundwater into SPS-11 initiated on a continuous basis. After approximately October of 1995 the system operated intermittently due to mechanical problems.
02/27/96:	Remediation system shut down due to discoloration of air stripper tower packing. Packing and carbon samples were obtained.
09/06/96:	NMED, OCD, TNMPL, SPS meeting to discuss project held at NMED office in Hobbs, New Mexico.

10/02/96:	OCD issued a letter to TNMPL requesting additional information originally requested in a letter from OCD to TNMPL dated March 5, 1993.
10/15/96:	Ground water from pumping and monitoring wells sampled to establish current conditions.
03/11 through 03/13/97:	KEI installed monitoring wells MW-10 through MW-16.
04/09/97:	Started up system to conduct initial monitoring and sampling event. Shut system down when sampling was complete.
04/29/97:	Resampled system components.
05/01/97:	Conducted a ground water monitoring and sampling event.
07/15/97:	Sampled the system effluent, PW-1, and PW-2 for VOCs.
08/28/97:	Conducted a ground water monitoring and sampling event.
10/02/97:	Disinfected the system and collected a chlorine residual sample. The results were ND.
10/06/97:	Collected total coliform sample from effluent. The results were ND.
10/08 through 10/22/97	Initiated the daily effluent sampling for the required 14 days per NMED requirements.
10/29/97:	Collected weekly effluent sample per NMED requirements.
11/05/97:	Collected weekly effluent sample per NMED requirements
11/17/97:	Conducted a ground water monitoring and sampling event.
12/16 through 12/22/97:	KEI installed monitoring wells MW-17 through MW-25.

GROUND WATER MONITORING

FIELD ACTIVITIES

Ground water samples were obtained quarterly from the monitoring wells during the annual period in accordance with the OCD letter dated January 23, 1997. Ground water samples were also obtained from each of the pumping wells, PW-1 and PW-2, prior to remediation system startup. Locations of the monitoring wells are indicated on FIG. 2.

During each sampling event, the monitoring wells designated to be sampled were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer. Ground water was allowed to recharge and samples were obtained using disposable Teflon

samplers. Purged water collected during each event was stored in sealed 55-gallon drums at the site until disposed of by Gandy Corporation of Lovington, New Mexico.

LABORATORY RESULTS

Water samples obtained during each event were mailed to Environmental Lab of Texas, Inc. in Odessa, Texas or Xenco Laboratories in San Antonio, Texas for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) concentrations by EPA Method SW846-8020. Ground water samples collected during the third quarter of 1997 were also submitted for determination of RCRA metals and polycyclic aromatic hydrocarbon (PAH) concentrations by EPA Method 6010 and 8270, respectively. Ground water samples collected during the fourth quarter of 1997 were also submitted for determination of New Mexico Water Quality Control Commission (WQCC) metals by EPA Method 6010.

Laboratory results for ground water samples obtained during the annual period indicated the following concentration ranges:

PARAMETER	CONCENTRATION RANGE (mg/l)
Benzene	ND to 11.8
BTEX	ND to 17.9
Aluminum	ND to 0.51
Barium	0.080 to 1.06
Chromium	ND to 0.30
Calcium	59.4 to 204
Iron	ND to 6.72
Magnesium	6.71 to 44.3
Manganese	ND to 0.38
Silicon	10.4 to 25.9
Strontium	0.32 to 1.20
Tin	ND to 1.48
Zinc	ND to 0.23
Naphthalene	ND to 0.061

All metals and PAH constituents not listed above were non-detectable (ND) by laboratory methods.

During the most recent monitoring event conducted in November of 1997, benzene concentrations ranged from ND to 11.8 mg/l and BTEX concentrations ranged from ND to 17.9 mg/l. A barium concentration of 1.06 mg/l and a chromium concentration of 0.18 mg/l, both of which exceed the New Mexico WQCC standards, was noted in MW-1 and MW-11, respectively.

Historical laboratory results are summarized in TABLES I through IV. BTEX results are also graphically presented on FIGs. 3 through 5. Benzene, BTEX, PAH, and metals isopleth

maps are presented as FIGs. 6 through 17. Copies of the certified laboratory reports and chain of custody documentation are presented in APPENDIX A.

GROUND WATER GRADIENT

Ground water elevation contours generated from the most recent water level measurements indicated a general gradient of approximately 0.035 ft/ft to the southeast. The depth to ground water ranged from approximately 56.55 to 58.41 feet below ground surface on December 8, 1997. This data is generally consistent with previous information obtained at the site. PSH was not detected during the annual period. Ground water contours are presented on FIGs. 3 through 5. Historical ground water measurements are summarized on TABLE V.

REMEDIATION SYSTEM MONITORING

During the annual monitoring period, the ground water recovery and treatment system was operational for approximately 75 days subsequent to startup in October of 1997. During this time, records indicate approximately 5,411,678 gallons of water were processed through the system and discharged into the SPS drinking water line. Effluent samples were obtained from the remediation system as required by the New Mexico Environment Department (NMED) and shipped to New Mexico State University Soil Water and Air Testing Lab (SWAT) in Las Cruces, New Mexico, Xenco Laboratories in San Antonio, Texas, or Environmental Lab of Texas, Inc. (ELOT) in Odessa, Texas for determination of volatile organic compound concentrations. The initial water samples collected from the system and the pumping wells (PW-1 and PW-2) were also submitted for determination of nitrate, nitrite, heavy metals, cyanide, sulfate, and secondary group compound concentrations.

Historical effluent data is summarized on TABLE VI. Historical system sampling data is summarized in TABLES VII through X. Copies of the certified laboratory reports and chain of custody documentation are presented in APPENDIX B.

CONCLUSIONS AND RECOMMENDATIONS

Based on the results of monitoring conducted during the year, the following conclusions are presented:

- PSH was not detected in any of the monitoring wells.
- A ground water sample will be collected from each pumping well (PW-1 and PW-2) on a monthly basis per OCD requirements outlined in their letter dated January 23, 1997.
- Laboratory results from monitoring wells sampled during the annual monitoring period indicated hydrocarbon concentrations above NMED aquifer restoration standards. These wells will be sampled on a quarterly basis.
- The apparent ground water gradient consistently remained to the southeast.

- During the annual monitoring period, results of water treatment system effluent monitoring indicated compliance with NMED discharge standards.

QUALITY ASSURANCE/QUALITY CONTROL PROCEDURES

GROUND WATER SAMPLING

Monitoring wells were developed and purged with a clean PVC bailer. The bailer was cleaned prior to each use with Liqui-Nox detergent and rinsed with distilled water. Monitoring wells with sufficient recharge were purged by removing a minimum of three well volumes. Monitoring wells that did not recharge sufficiently were purged until no additional ground water could be obtained.

After purging the wells, ground water samples were collected with a disposable Teflon bailer and polyethylene line by personnel wearing clean, disposable gloves. Ground water sample containers were filled in the order of decreasing volatility (i.e., BTEX containers were filled first and PAH containers second).

Ground water samples collected for BTEX analyses were placed in 40 ml glass VOA vials equipped with Teflon-lined caps. The containers were preserved with hydrochloric acid and were provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the presence of air bubbles.

Ground water samples collected for PAH analysis were filled to capacity in sterile, 500 ml or 1 liter glass containers equipped with Teflon-lined caps. The containers were provided by the analytical laboratory.

Ground water samples collected for metals were filled to capacity in 500 ml or 1 liter plastic containers equipped with Teflon-lined caps. The containers were preserved with nitric acid and were provided by the analytical laboratory.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

PUMPING WELLS

Ground water samples were collected from pumping wells PW-1 and PW-2 with a disposable Teflon bailer and polyethylene line by personnel wearing clean, disposable gloves. Ground water sample containers were filled in the order of decreasing volatility (i.e., VOC containers were filled first and metals containers second).

Ground water samples collected for VOCs analyses were placed in two sterile 40 ml glass VOA vials equipped with Teflon-lined caps. The containers were provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the presence of air bubbles.

Ground water samples collected for nitrate, nitrite, and cyanide analysis were filled to capacity in sterile 1 liter containers equipped with Teflon-lined caps. The containers were provided by the analytical laboratory.

Ground water samples collected for metals analysis were filled to capacity in 1 liter plastic containers equipped with Teflon-lined caps. The containers were preserved with nitric acid and were provided by the analytical laboratory.

Ground water samples collected for secondary group analysis were filled to capacity in two sterile 1 liter plastic bottles equipped with Teflon-lined caps. The containers were provided by the analytical laboratory.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

EFFLUENT SAMPLING

Effluent water samples were collected from the ground water recovery and treatment system with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves.

Effluent water samples collected for VOCs analysis were placed in two sterile 40 ml glass VOA vials equipped with Teflon-lined caps. The containers were provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the presence of air bubbles.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for shipment to the analytical laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

LABORATORY PROTOCOL

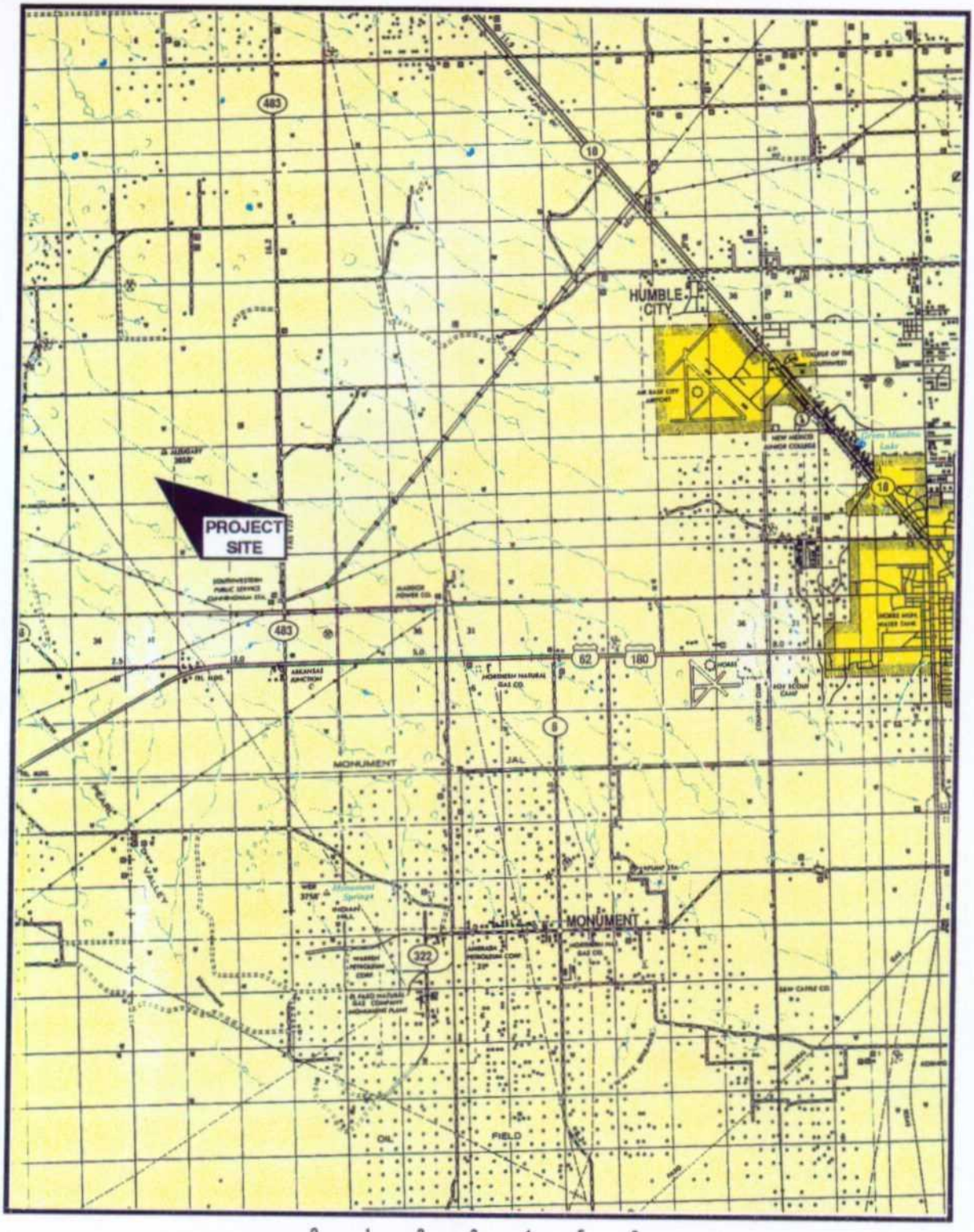
The laboratory was responsible for proper QA/QC procedures. These procedures are either transmitted with the laboratory reports or are on file at the laboratory. Ground water samples were shipped to an approved laboratory for BTEX, PAH, and metals analyses using the methods described below. Ground water samples obtained from the pumping wells were shipped to an approved laboratory for VOCs, nitrate, nitrite, sulfate, cyanide, metals, and secondary group analyses using the methods described below. Effluent samples were shipped to an approved laboratory for VOCs analyses using the methods described below. Ground water and effluent samples were analyzed within 14 days following the collection date.

The water samples were analyzed for VOCs concentrations using EPA Method 502.2, BTEX concentrations using SW846-8020, PAH concentrations using EPA Method 8270 and 8100, metals concentrations using EPA Method 6010, nitrate and nitrite concentrations by EPA Method 353.2, sulfate concentrations by EPA Method 375.4, cyanide concentrations by EPA Method 335.2, and secondary group concentrations by EPA Method 200.7.

THE ROADS OF NEW MEXICO MAP

NEW MEXICO-LEA CO.

PRINTED 1993



k·e·i	*SITE LOCATION MAP*		610099
	TNMPL	SPS-11 LEA COUNTY, NEW MEXICO	FIG 1

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line

MW-16

MW-15

B-6

B-5

MW-14

B-4

TB-8

B-3

PW1

MW-9

MW-6

MW-13

B-2

MW-12

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

MW-2

MW-3

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1

MW-11

B-1

MW-4

MW-7

BURIED PIPELINE

MW-10

NOTE:
Monitoring Wells MW-17 through MW-25 not shown.

020496-RM G:\610\99\FIG2

k·e·i	*SITE PLAN*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- EL = Ground Water Elevation (feet) measured on May 1, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

MW-16
EL=3808.10
B=0.101
BTEX=0.218

3808

MW-15
EL=3806.33
B=0.004
BTEX=0.011

B-6 B-5

B-4 B-3 PW1

TB-8 **MW-14**
EL=3806.70
B=9.639
BTEX=17.448

MW-9
EL=3807.36
B=6.180
BTEX=9.638

MW-6
EL=3806.97
B=ND
BTEX=0.007

B-2

MW-13
EL=3807.37
B=ND
BTEX=ND

3807

MW-12
EL=3806.29
B=ND
BTEX=0.031

NOTE:
Ground water samples were collected on May 1, 1997.

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

3806

Buffalo Wallow

EL=3805.05
B=ND
BTEX=ND

MW-2

MW-3
EL=3805.02
B=ND
BTEX=0.001

3805

SPS 11 Well Area

SPS11

Treatment System

PW2

EL=3803.67
B=1.177
BTEX=1.215

MW-11

MW-1
EL=3804.00
B=7.788
BTEX=10.658

EL=3804.13
B=ND
BTEX=ND

MW-4

B-1

BURIED PIPELINE

MW-7
EL=3803.95
B=0.368
BTEX=0.732

3804

MW-10
EL=3803.64
B=0.184
BTEX=0.776

01/21/98-RM G:\610\99\FIG3\

k·e·i

GROUND WATER CONCENTRATION / CONTOUR MAP - MAY 1, 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 3

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- EL = Ground Water Elevation (feet) measured on August 27, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

NOTE:
Ground water samples were collected on August 28, 1997.

3808 3807 3806 3805 3804

MW-16
EL=3808.07
B=0.112
BTEX=0.327

MW-15
EL=3806.26
B=0.441
BTEX=0.441

MW-14
EL=3806.60
B=8.62
BTEX=14.61

MW-9
EL=3807.32
B=2.930
BTEX=4.220

MW-6
EL=3806.86
B=0.082
BTEX=1.038

MW-13
EL=3807.28
B=ND
BTEX=ND

MW-12
EL=3806.22
B=0.099
BTEX=0.204

MW-2
EL=3804.68
B=ND
BTEX=ND

MW-3
EL=3804.73
B=ND
BTEX=ND

MW-11
EL=3803.61
B=2.74
BTEX=2.89

MW-1
EL=3803.92
B=3.76
BTEX=5.09

MW-4
EL=3803.96
B=0.009
BTEX=0.009

MW-7
EL=3803.85
B=0.502
BTEX=1.038

MW-10
EL=3803.56
B=0.123
BTEX=0.589

B-6 B-5 B-4 B-3 PW1 TB-8 B-2 B-1 PW2

SPS 11 Well Area
SPS11
Treatment System

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)
INFLUENT LINE FROM PW1
BURIED PIPELINE

01/21/98-RM G:\61GW-A97\

k·e·i	GROUND WATER CONCENTRATION / CONTOUR MAP - AUGUST 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 4

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- EL = Ground Water Elevation (feet) measured on November 17, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

3807

3806

MW-16
EL=3807.01
B=0.053
BTEX=0.170

MW-15
EL=3805.54
B=0.063
BTEX=0.063

B-6

B-5

MW-9
EL=3804.56
B=2.5
BTEX=3.9

B-4

B-3

PW1

3805

TB-8

MW-14
EL=3805.27
B=7.76
BTEX=11.79

3805

NOTE:
Ground water samples were collected on November 17, 1997.

MW-6
EL=3805.68
B=0.141
BTEX=0.152

B-2

3804

MW-13
EL=3806.38
B=ND
BTEX=ND

MW-12
EL=3805.31
B=0.237
BTEX=0.478

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

3803

MW-2
EL=3803.26
B=ND
BTEX=ND

MW-3
EL=3803.23
B=ND
BTEX=ND

SPS 11 Well Area

SPS11

Treatment System

PW2

3802

MW-11
EL=3802.36
B=3.32
BTEX=3.32

MW-1
EL=3801.87
B=11.8
BTEX=17.9

B-1

MW-4
EL=3801.35
B=0.002
BTEX=0.002

MW-7
EL=3802.00
B=0.288
BTEX=0.461

BURIED PIPELINE

MW-10
EL=3802.43
B=0.143
BTEX=0.664

G:\PROJ\610-99\GW-NOV7\

k·e·i	GROUND WATER CONCENTRATION / CONTOUR MAP - NOVEMBER 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 5

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (See Note)
- B = Benzene Concentration (mg/l)
- ND = Not Detected

NOTE:
Benzene analyses were run on samples collected on 11/17/97.

PAH analyses were run on samples collected on 08/28/97.

Contour Interval (CI) is 1 mg/l below 5 mg/l and 5 mg/l above 5 mg/l.

MW-16 B=0.053

MW-15 B=0.063

B-6 B-5 B-4 B-3 PW1

MW-14 B=7.76 TB-8

MW-9 B=2.50

5.0 4.0 3.0 2.0 1.0 ND

MW-6 B=0.141

B-2

MW-13 B=ND

MW-12 B=0.237

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

MW-2 B=ND

ND

MW-3 B=ND

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1 B=11.8

MW-11 B=3.32

10.0 5.0 4.0 3.0 2.0 1.0

B-1

MW-4 B=0.002

BURIED PIPELINE

MW-7 B=0.288

MW-10 B=0.143

02/04/98-RM G:\610\99\BENZ7

k·e·i	*BENZENE ISOPLETH MAP - NOVEMBER 1997*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 6

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (See Note)

BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

ND = Not Detected

NOTE:
PAH analyses were run on samples collected on 08/28/97.

Ground water samples were collected on November 17, 1997.

Contour Interval (CI) is 1 mg/l below 5 mg/l and 5 mg/l above 5 mg/l.

MW-16
BTEX=0.170

MW-15
BTEX=0.063

B-6

B-5

B-4

B-3

PW1

MW-9
BTEX=3.9

MW-14
BTEX=11.79

TB-8

10.0

5.0

4.0

3.0

2.0

1.0

ND

MW-6
BTEX=0.152

B-2

MW-13
BTEX=ND

MW-12
BTEX=0.478

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2
BTEX=ND

ND

MW-1
BTEX=17.9

BTEX=3.32

1.0

2.0

3.0

4.0

MW-11

15.0

10.0

5.0

MW-3
BTEX=ND

SPS 11
Well Area

SPS11

Treatment System

PW2

MW-4
BTEX=0.002

B-1

BURIED PIPELINE

MW-7
BTEX=0.461

MW-10
BTEX=0.664

02/04/98-RM G:\(610099BTEX)

k·e·i

BTEX ISOPLETH MAP - NOVEMBER 1997		610099
TNMPL	SPS-11 LEA COUNTY, NEW MEXICO	FIG 7

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.01 mg/l)
- PAH = Naphthale Concentration (mg/l)
- ND = Not Detected

MW-16
PAH=ND

MW-15
PAH=0.002

MW-14
PAH=0.061

B-6

B-5

B-4

B-3

PW1

TB-8

MW-9
PAH=0.031

MW-6
PAH=ND

B-2

MW-13
PAH=ND

MW-12
PAH=ND

ND

0.05

0.03

0.02

0.01

ND

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2
PAH=ND

Grid Line

MW-3
PAH=ND

SPS 11
Well Area

SPS11

Treatment System

PW2

MW-1
PAH=0.012

MW-11
PAH=ND

0.01

ND

MW-4
PAH=ND

ND

B-1

BURIED PIPELINE

MW-7
BTEX=0.009

MW-10
PAH=ND

02/04/98-RM G:\610199\PAH\

k·e·i

PAH ISOPLETH MAP - AUGUST 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 8

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.2 mg/l)
- 0.51 Concentration (mg/l)
- ND = Not Detected

MW-16 0.24

0.2

ND

B-6

B-5

B-4

B-3

PW1

MW-15 ND

TB-8

MW-14 ND

MW-9 ND

ND

0.2

0.4

MW-6 0.51

B-2

MW-13 ND

MW-12 ND

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2 ND

MW-3 ND

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1 ND

ND

0.2

MW-11 0.26

MW-4 ND

B-1

MW-7 ND

BURIED PIPELINE

MW-10 ND

02/04/98-RM G:\610\99\FIG9

k·e·i	ALUMINUM ISOPLETH MAP - NOVEMBER 17, 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 9

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.2 mg/l)
- 0.16 Concentration (mg/l)
- ND = Not Detected

MW-16 0.16

MW-15 0.14

B-6 B-5

B-3 B-4 PW1

MW-14 0.12

TB-8

MW-9 0.45

0.4

0.2

MW-6 0.16

MW-13 0.12

B-2

MW-12 0.18

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

MW-2 0.19

0.2

0.4

0.6

0.8

1.0

MW-3 0.08

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1 1.06

MW-11 0.16

MW-4 0.088

B-1

0.80

MW-7

0.40

MW-10

BURIED PIPELINE

02/04/98-RM G:\(619FIG10)

k·e·i

BARIUM ISOPLETH MAP - NOVEMBER 17, 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 10

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (1.0 mg/l)
- 0.59 Concentration (mg/l)
- ND = Not Detected

MW-16 0.15

MW-15 ND

B-6 B-5 B-4 B-3 PW1

MW-14 0.59

TB-8

MW-9 6.72

6.0 5.0 4.0 3.0 2.0 1.0 ND

MW-6 0.48

MW-13 ND

B-2

MW-12 ND

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

MW-2 0.29

MW-3 ND

SPS 11 Well Area

SPS11 Treatment System

PW2

MW-1 0.24

MW-11 0.76

ND

BURIED PIPELINE

B-1

MW-7 3.55

MW-4 ND

3.0 2.0 1.0

MW-10 0.55

02/04/98-RM G:\(610FIG11)

k·e·i

IRON ISOPLETH MAP - NOVEMBER 17, 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 11

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (10.0 mg/l)
- 34.1 Concentration (mg/l)
- ND = Not Detected

MW-16 13.5

MW-15 15.5

B-6 B-5 B-4 B-3 PW1

MW-14 44.3 TB-8

40.0 30.0 20.0 10.0

MW-9 34.1

MW-6 15.9

B-2

MW-13 9.35

MW-12 19.1

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

MW-2 16.7

MW-3 6.71

SPS 11 Well Area

SPS11 Treatment System

PW2

MW-11 15.6

MW-1 40.3

B-1

MW-4 8.44

BURIED PIPELINE

MW-7 34.4

MW-10 33.0

G:\610\FIG12\610FIG12.DWG 02/03/98-RM

k·e·i	MAGNESIUM ISOPLETH MAP - NOVEMBER 17, 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 12

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.1 mg/l)
- 0.31 Concentration (mg/l)
- ND = Not Detected

MW-16 0.15

MW-15 ND

0.1

0.2

B-6 B-5

0.25 MW-14

B-4 TB-8

B-3 PW1

MW-9 0.38

0.3

ND

MW-6 ND

B-2

MW-13 ND

MW-12 ND

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2 ND

ND

0.1

0.2

MW-3 ND

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-11 0.14

MW-1 0.31

0.3

B-1

MW-4 ND

MW-7 0.32

BURIED PIPELINE

0.16 MW-10

02/14/98-RM G:\(610FIG13)

k·e·i

MANGANESE ISOPLETH MAP - NOVEMBER 17, 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 13

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.05 mg/l)
- 10.4 Concentration (mg/l)
- ND = Not Detected

MW-16 23.0

MW-15 24.2

B-6 B-5 B-4 B-3 PW1

MW-14 25.9

TB-8

MW-9 11.4

MW-6 13.2

B-2

MW-13 21.2

MW-12 23.4

20.0

25.0

15.0

Buffalo Wallow

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

MW-2 18.3

MW-3 11.9

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1 17.7

MW-11 22.9

B-1

MW-4 10.4

MW-7 10.4

BURIED PIPELINE

MW-10 11.5

01/21/98-RM GLV619FIG14)

k·e·i	SILICON ISOPLETH MAP - NOVEMBER 17, 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 14

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.2 mg/l)
- 1.20 Concentration (mg/l)
- ND = Not Detected

MW-16 0.69

MW-15 0.77

B-6 B-5

B-4 B-3 PW1

MW-14 1.20

TB-8

1.0

0.8

MW-9 0.57

MW-6 0.52

B-2

MW-13 0.56

0.6

MW-12 0.85

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2 0.60

0.6

0.4

MW-3 0.33

SPS 11 Well Area

SPS11

Treatment System

PW2

0.8

MW-1 0.89

MW-11 0.73

B-1

MW-4 0.32

BURIED PIPELINE

MW-7 0.55

MW-10 0.52

02/04/98-RM G:\(619FIG15)

k·e·i

STRONTIUM ISOPLETH MAP - NOVEMBER 17, 1997			610099
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO	FIG 15

Approximate Scale: 1"=100'

0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.05 mg/l)
- 1.48 Concentration (mg/l)
- ND = Not Detected

MW-16 ND

ND

MW-15 ND

B-6 B-5

B-4 B-3 PW1

MW-14 0.26

TB-8

MW-9 1.48

1.0

0.5

MW-6 ND

MW-13 ND

B-2

MW-12 ND

TEXAS-NEW MEXICO BURIED PIPELINES (2)

INFLUENT LINE FROM PW1

Buffalo Wallow

MW-2 ND

MW-3 ND

SPS 11 Well Area

SPS11

Treatment System

PW2

MW-1 ND

MW-11 0.33

B-1

MW-4 ND

MW-7 0.74

0.5

ND

BURIED PIPELINE

MW-10 ND

02/04/98-RM G:\(619\FIG16)

k·e·i	*TIN ISOPLETH MAP - NOVEMBER 17, 1997*	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 16

Approximate Scale: 1"=100'

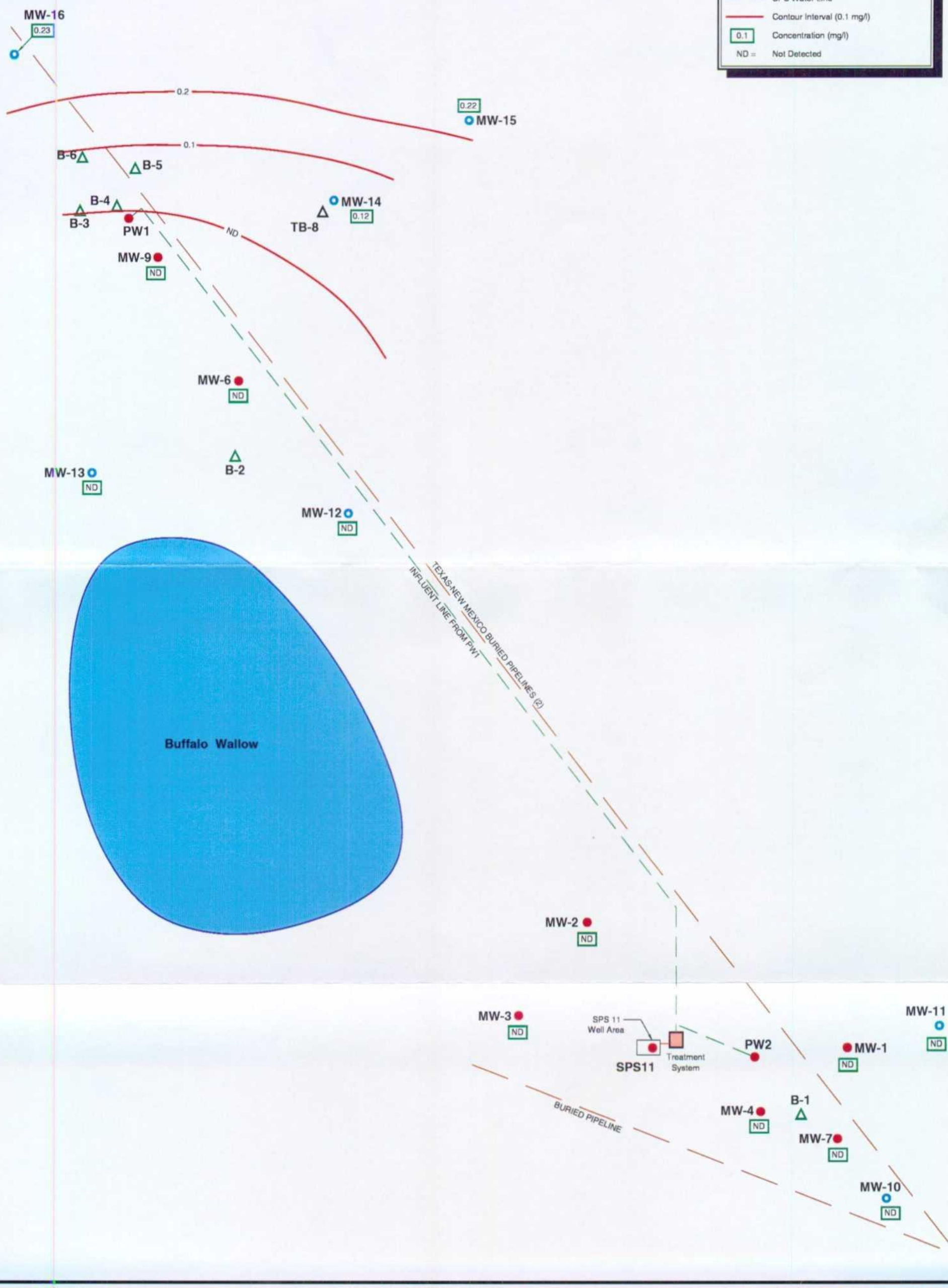
0 25 50 100

NOTE: Adjacent properties are not to scale.

Apparent direction of ground water flow.

LEGEND

- Monitoring Well installed by KEI on March 11-13 and 19-20, 1997.
- Soil Boring advanced by KEI on March 17-20, 1997.
- Existing Monitoring Well Location
- Soil Boring advanced by Texaco Research & Development
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval (0.1 mg/l)
- 0.1 Concentration (mg/l)
- ND = Not Detected



0204/36-RM G:\611\FIG17)

k·e·i	ZINC ISOPLETH MAP - NOVEMBER 17, 1997	610099
	TNMPL SPS-11 LEA COUNTY, NEW MEXICO	FIG 17

GENERAL NOTES

ND - Indicates constituent was not detected above the method detection limit.
--- - Indicates no PSH present and no corrected ground water elevation required.

Method detection limits:

Water:	BTEX	0.001 to 0.008 mg/l
	PAH	0.002 mg/l
	Metals	0.022 to 0.56 mg/l
	VOCs	0.0005 mg/l
	Nitrate	0.05 mg/l
	Nitrite	0.05 mg/l
	Sulfate	2 mg/l
	Cyanide	0.005 mg/l

Laboratory test methods:	BTEX	EPA Method SW846-8020
	PAH	EPA Method 8270 and 8100
	Metals	EPA Method 6010
	Nitrate	EPA Method 353.2
	Nitrite	EPA Method 353.2
	Sulfate	EPA Method 375.4
	Cyanide	EPA Method 335.2
	Secondary Group	EPA Method 200.7

TABLE I

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-1	04/10/92	4.92	2.06	1.20	1.13	9.31
MW-1	10/15/96	6.445	1.132	1.184	0.913	9.674
MW-1	05/01/97	7.788	0.778	1.282	0.810	10.658
MW-1	08/28/97	3.76	0.25	0.63	0.45	5.09
MW-1	11/17/97	11.8	2.5	2.2	1.4	17.9
MW-2	04/10/92	0.005	0.014	ND	ND	0.019
MW-2	10/15/96	ND	ND	ND	ND	ND
MW-2	05/01/97	ND	ND	ND	ND	ND
MW-2	08/28/97	ND	ND	ND	ND	ND
MW-2	11/17/97	ND	ND	ND	ND	ND
MW-3	04/10/92	ND	0.010	ND	ND	0.010
MW-3	10/15/96	0.003	ND	ND	ND	0.003
MW-3	05/01/97	ND	ND	ND	0.001	0.001
MW-3	08/28/97	ND	ND	ND	ND	ND
MW-3	11/17/97	ND	ND	ND	ND	ND
MW-4	04/10/92	ND	0.008	ND	ND	0.008
MW-4	10/15/96	0.005	ND	ND	ND	0.005
MW-4	05/01/97	ND	ND	ND	ND	ND
MW-4	08/28/97	0.009	ND	ND	ND	0.009
MW-4	11/17/97	0.002	ND	ND	ND	0.002
MW-6	04/10/92	0.130	0.011	ND	ND	0.141
MW-6	10/15/96	0.210	0.002	0.021	0.006	0.239
MW-6	05/01/97	ND	0.001	0.002	0.004	0.007
MW-6	08/28/97	0.082	ND	0.002	0.003	0.087
MW-6	11/17/97	0.141	ND	0.006	0.005	0.152
MW-7	04/10/92	1.590	0.590	0.470	0.310	2.960
MW-7	10/15/96	0.211	0.016	0.095	0.066	0.388
MW-7	05/01/97	0.368	0.034	0.206	0.124	0.732
MW-7	08/28/97	0.502	0.064	0.302	0.170	1.038
MW-7	11/17/97	0.288	0.014	ND	0.159	0.461

TABLE I
(continued)

SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

MONITORING WELL	SAMPLE DATE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-9	04/10/92	5.270	4.650	1.380	1.660	12.960
MW-9	10/15/96	4.224	0.056	1.252	0.865	6.397
MW-9	05/01/97	6.180	0.019	2.056	1.383	9.638
MW-9	08/28/97	2.93	ND	0.930	0.360	4.220
MW-9	11/17/97	2.5	0.2	0.7	0.5	3.9
MW-10	05/01/97	0.184	0.292	0.124	0.180	0.776
MW-10	08/28/97	0.123	0.146	0.162	0.158	0.589
MW-10	11/17/97	0.143	0.203	0.165	0.153	0.664
MW-11	05/01/97	1.177	ND	0.011	0.027	1.215
MW-11	08/28/97	2.74	ND	0.11	0.04	2.89
MW-11	11/17/97	3.32	ND	ND	ND	3.32
MW-12	05/01/97	ND	0.003	0.001	0.027	0.031
MW-12	08/28/97	0.099	0.032	0.030	0.043	0.204
MW-12	11/17/97	0.237	0.088	0.047	0.106	0.478
MW-13	05/01/97	ND	ND	ND	ND	ND
MW-13	08/28/97	ND	ND	ND	ND	ND
MW-13	11/17/97	ND	ND	ND	ND	ND
MW-14	05/01/97	9.639	2.414	2.626	2.769	17.448
MW-14	08/28/97	8.62	2.04	1.91	2.04	14.61
MW-14	11/17/97	7.76	2.36	ND	1.67	11.79
MW-15	05/01/97	0.004	0.002	0.002	0.003	0.011
MW-15	08/28/97	0.441	ND	ND	ND	0.441
MW-15	11/17/97	0.063	ND	ND	ND	0.063
MW-16	05/01/97	0.101	0.090	0.015	0.012	0.218
MW-16	08/28/97	0.112	0.119	0.060	0.036	0.327
MW-16	11/17/97	0.053	0.061	0.021	0.035	0.170
PW-1	10/15/96	0.007	ND	ND	ND	0.007
PW-2	05/07/92	0.048	0.054	0.022	0.024	0.148
PW-2	10/15/96	ND	0.001	0.001	0.013	0.015

TABLE II

SUMMARY OF GROUND WATER LABORATORY RESULTS - RCRA METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97
PARAMETER	CONCENTRATION (mg/l)													
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium	0.81	0.17	0.17	0.10	0.17	0.90	0.68	0.67	0.41	0.28	0.29	0.85	0.21	0.19
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	ND	ND	0.30	ND	ND	ND	ND	ND	0.07	ND	ND	0.08	ND	ND
Lead	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

TABLE III

SUMMARY OF GROUND WATER LABORATORY RESULTS - WQCC METALS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97	11/17/97
PARAMETER	CONCENTRATION (mg/l)													
Aluminum	ND	ND	ND	ND	0.51	ND	ND	ND	0.26	ND	ND	ND	ND	0.24
Barium	1.06	0.19	0.080	0.088	0.16	0.80	0.45	0.40	0.16	0.18	0.12	0.66	0.14	0.16
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium	116	102	59.4	66.7	116	113	129	154	149	140	119	204	127	126
Chromium	ND	ND	ND	ND	ND	ND	ND	ND	0.18	ND	ND	ND	ND	ND
Cobalt	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Iron	0.24	0.29	ND	ND	0.48	3.55	6.72	0.55	0.76	ND	ND	0.59	ND	0.15
Magnesium	40.3	16.7	6.71	8.44	15.9	34.4	34.1	33.0	15.6	19.1	9.35	44.3	15.5	13.5
Manganese	0.31	ND	ND	ND	ND	0.32	0.38	0.16	0.14	ND	ND	0.25	ND	ND
Molybdenum	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silicon	17.7	18.3	11.9	10.4	13.2	10.4	11.4	11.5	22.9	23.4	21.2	25.9	24.2	23.0
Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium	0.89	0.60	0.33	0.32	0.52	0.55	0.57	0.52	0.73	0.85	0.56	1.20	0.77	0.69
Tin	ND	ND	ND	ND	ND	0.74	1.48	ND	0.33	ND	ND	0.26	ND	ND
Vanadium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.12	0.22	0.23

NOTE:
Concentrations of Beryllium, Boron, Cadmium, Cobalt, Copper, Molybdenum, Nickel, Silver, and Vanadium were below method detection limits.

TABLE IV

SUMMARY OF GROUND WATER LABORATORY RESULTS - PAH
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16
DATE SAMPLED	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97	08/28/97
PARAMETER	CONCENTRATION (mg/l)													
Naphthalene	0.012	ND	ND	ND	ND	0.009	0.031	ND	ND	ND	ND	0.061	0.002	ND

NOTE:
1. All PAH constituents not listed above were ND.

TABLE V

MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.61	55.37	3792.24	---	---
07/13/92	3847.61	55.93	3791.68	---	---
05/01/97	3859.20	55.20	3804.00	---	---
08/27/97	3859.20	55.28	3803.92	---	---
10/16/97	3859.20	56.55	3802.65	---	---
10/17/97	3859.20	56.64	3802.56	---	---
10/18/97	3859.20	56.72	3802.48	---	---
10/19/97	3859.20	56.79	3802.41	---	---
10/20/97	3859.20	56.87	3802.33	---	---
10/22/97	3859.20	57.00	3802.20	---	---
10/29/97	3859.20	57.11	3802.09	---	---
11/05/97	3859.20	56.77	3802.43	---	---
11/12/97	3859.20	57.00	3802.20	---	---
11/17/97	3859.20	57.33	3801.87	---	---
11/19/97	3859.20	57.34	3801.86	---	---
12/08/97	3859.20	57.59	3801.61	---	---

TABLE V
(continued)

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3848.68	56.06	3792.62	---	---
07/13/92	3848.68	56.43	3792.25	---	---
05/01/97	3860.90	55.85	3805.05	---	---
08/27/97	3860.90	56.22	3804.68	---	---
10/16/97	3860.90	56.80	3804.10	---	---
10/17/97	3860.90	56.86	3804.04	---	---
10/18/97	3860.90	56.93	3803.97	---	---
10/19/97	3860.90	56.98	3803.92	---	---
10/20/97	3860.90	57.04	3803.86	---	---
10/22/97	3860.90	57.11	3803.79	---	---
10/29/97	3860.90	57.21	3803.69	---	---
11/05/97	3860.90	57.01	3803.89	---	---
11/12/97	3860.90	57.16	3803.74	---	---
11/17/97	3860.90	57.64	3803.26	---	---
11/19/97	3860.90	57.66	3803.24	---	---
12/08/97	3860.90	57.69	3803.21	---	---

TABLE V
(continued)

MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3849.23	56.48	3792.75	---	---
07/13/92	3849.23	56.86	3792.37	---	---
05/01/97	3861.30	56.28	3805.02	---	---
08/27/97	3861.30	56.57	3804.73	---	---
10/16/97	3861.30	57.30	3804.00	---	---
10/17/97	3861.30	57.36	3803.94	---	---
10/18/97	3861.30	57.42	3803.88	---	---
10/19/97	3861.30	57.48	3803.82	---	---
10/20/97	3861.30	57.53	3803.77	---	---
10/22/97	3861.30	57.63	3803.67	---	---
10/29/97	3861.30	57.72	3803.58	---	---
11/05/97	3861.30	57.48	3803.82	---	---
11/12/97	3861.30	57.64	3803.66	---	---
11/17/97	3861.30	58.07	3803.23	---	---
11/19/97	3861.30	58.07	3803.23	---	---
12/08/97	3861.30	58.25	3803.05	---	---

TABLE V
(continued)

MONITORING WELL MW-4
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.58	55.36	3792.22	---	---
07/13/92	3847.58	55.83	3791.75	---	---
05/01/97	3859.40	55.27	3804.13	---	---
08/27/97	3859.40	55.44	3803.96	---	---
10/16/97	3859.40	57.44	3801.96	---	---
10/17/97	3859.40	57.54	3801.86	---	---
10/18/97	3859.40	57.59	3801.81	---	---
10/19/97	3859.40	57.69	3801.71	---	---
10/20/97	3859.40	57.75	3801.65	---	---
10/22/97	3859.40	57.86	3801.54	---	---
10/29/97	3859.40	57.93	3801.47	---	---
11/05/97	3859.40	57.28	3802.12	---	---
11/12/97	3859.40	57.72	3801.68	---	---
11/17/97	3859.40	58.05	3801.35	---	---
11/19/97	3859.40	58.06	3801.34	---	---
12/08/97	3859.40	58.22	3801.18	---	---

TABLE V
(continued)

MONITORING WELL MW-5
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
07/13/92	Unknown	26.48	NA	---	---

NOTE: MW-5 was plugged in 1992.

TABLE V
(continued)

MONITORING WELL MW-6
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3850.28	55.78	3794.50	---	---
07/13/92	3850.28	56.23	3794.05	---	---
05/01/97	3862.70	55.73	3806.97	---	---
08/27/97	3862.70	55.84	3806.86	---	---
10/16/97	3862.70	56.36	3806.34	---	---
10/17/97	3862.70	56.43	3806.27	---	---
10/18/97	3862.70	56.48	3806.22	---	---
10/19/97	3862.70	56.56	3806.14	---	---
10/20/97	3862.70	56.61	3806.09	---	---
10/22/97	3862.70	56.69	3806.01	---	---
10/29/97	3862.70	56.84	3805.86	---	---
11/05/97	3862.70	56.80	3805.90	---	---
11/12/97	3862.70	56.87	3805.83	---	---
11/17/97	3862.70	57.02	3805.68	---	---
11/19/97	3862.70	57.05	3805.65	---	---
12/08/97	3862.70	57.25	3805.45	---	---

TABLE V
(continued)

MONITORING WELL MW-7
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3847.13	55.65	3791.48	---	---
07/13/92	3847.13	56.15	3790.98	---	---
05/01/97	3859.40	55.45	3803.95	---	---
08/27/97	3859.40	55.55	3803.85	---	---
10/16/97	3859.40	56.69	3802.71	---	---
10/17/97	3859.40	56.78	3802.62	---	---
10/18/97	3859.40	56.84	3802.56	---	---
10/19/97	3859.40	56.91	3802.49	---	---
10/20/97	3859.40	57.00	3802.40	---	---
10/22/97	3859.40	57.10	3802.30	---	---
10/29/97	3859.40	57.21	3802.19	---	---
11/05/97	3859.40	56.86	3802.54	---	---
11/12/97	3859.40	57.06	3802.34	---	---
11/17/97	3859.40	57.40	3802.00	---	---
11/19/97	3859.40	57.42	3801.98	---	---
12/08/97	3859.40	57.61	3801.79	---	---

TABLE V
(continued)

MONITORING WELL MW-9
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/06/92	3856.60	54.69	3801.91	---	---
07/13/92	3856.60	55.18	3801.42	---	---
05/01/97	3862.10	54.74	3807.36	---	---
08/27/97	3862.10	54.78	3807.32	---	---
10/16/97	3862.10	56.70	3805.40	---	---
10/17/97	3862.10	56.84	3805.26	---	---
10/18/97	3862.10	56.96	3805.14	---	---
10/19/97	3862.10	57.08	3805.02	---	---
10/20/97	3862.10	57.13	3804.97	---	---
10/22/97	3862.10	57.30	3804.80	---	---
10/29/97	3862.10	57.40	3804.70	---	---
11/05/97	3862.10	56.62	3805.48	---	---
11/12/97	3862.10	57.18	3804.92	---	---
11/17/97	3862.10	57.54	3804.56	---	---
11/19/97	3862.10	57.58	3804.52	---	---
12/08/97	3862.10	57.70	3804.40	---	---

TABLE V
(continued)

MONITORING WELL MW-10
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.60	56.96	3803.64	---	---
08/27/97	3860.60	57.04	3803.56	---	---
10/16/97	3860.60	57.61	3802.99	---	---
10/17/97	3860.60	57.67	3802.93	---	---
10/18/97	3860.60	57.73	3802.87	---	---
10/19/97	3860.60	57.79	3802.81	---	---
10/20/97	3860.60	57.86	3802.74	---	---
10/22/97	3860.60	57.94	3802.66	---	---
10/29/97	3860.60	58.04	3802.56	---	---
11/05/97	3860.60	57.97	3802.63	---	---
11/12/97	3860.60	58.04	3802.56	---	---
11/17/97	3860.60	58.17	3802.43	---	---
11/19/97	3860.60	58.42	3802.18	---	---
12/08/97	3860.60	58.41	3802.19	---	---

TABLE V
(continued)

MONITORING WELL MW-11
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3860.10	56.43	3803.67	---	---
08/27/97	3860.10	56.49	3803.61	---	---
10/16/97	3860.10	57.24	3802.86	---	---
10/17/97	3860.10	57.38	3802.72	---	---
10/18/97	3860.10	57.36	3802.74	---	---
10/19/97	3860.10	57.42	3802.68	---	---
10/20/97	3860.10	57.46	3802.64	---	---
10/22/97	3860.10	57.56	3802.54	---	---
11/05/97	3860.10	57.49	3802.61	---	---
11/12/97	3860.10	57.62	3802.48	---	---
11/17/97	3860.10	57.74	3802.36	---	---
11/19/97	3860.10	57.91	3802.19	---	---
12/08/97	3860.10	57.95	3802.15	---	---

TABLE V
(continued)

MONITORING WELL MW-12
SUMMARY OF GROUND WATER MONITORING DATA
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.20	56.91	3806.29	---	---
08/27/97	3863.20	56.98	3806.22	---	---
10/16/97	3863.20	57.42	3805.78	---	---
10/17/97	3863.20	57.48	3805.72	---	---
10/18/97	3863.20	57.54	3805.66	---	---
10/19/97	3863.20	57.59	3805.61	---	---
10/20/97	3863.20	57.60	3805.60	---	---
10/22/97	3863.20	57.65	3805.55	---	---
10/29/97	3863.20	57.74	3805.46	---	---
11/05/97	3863.20	57.75	3805.45	---	---
11/12/97	3863.20	57.82	3805.38	---	---
11/17/97	3863.20	57.89	3805.31	---	---
11/19/97	3863.20	58.24	3804.96	---	---
12/08/97	3863.20	58.14	3805.06	---	---

TABLE V
(continued)

MONITORING WELL MW-13
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3862.60	55.23	3807.37	---	---
08/27/97	3862.60	55.32	3807.28	---	---
10/16/97	3862.60	55.75	3806.85	---	---
10/17/97	3862.60	55.82	3806.78	---	---
10/18/97	3862.60	55.88	3806.72	---	---
10/19/97	3862.60	55.96	3806.64	---	---
10/20/97	3862.60	55.96	3806.64	---	---
10/22/97	3862.60	56.03	3806.57	---	---
10/29/97	3862.60	56.10	3806.50	---	---
11/05/97	3862.60	56.11	3806.49	---	---
11/12/97	3862.60	56.17	3806.43	---	---
11/17/97	3862.60	56.22	3806.38	---	---
11/19/97	3862.60	56.38	3806.22	---	---
12/08/97	3862.60	56.55	3806.05	---	---

TABLE V
(continued)

MONITORING WELL MW-14
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.10	56.40	3806.70	---	---
08/27/97	3863.10	56.50	3806.60	---	---
10/16/97	3863.10	57.34	3805.76	---	---
10/17/97	3863.10	57.39	3805.71	---	---
10/18/97	3863.10	57.48	3805.62	---	---
10/19/97	3863.10	57.56	3805.54	---	---
10/20/97	3863.10	57.56	3805.54	---	---
10/22/97	3863.10	57.63	3805.47	---	---
10/29/97	3863.10	57.71	3805.39	---	---
01/05/97	3863.10	57.42	3805.68	---	---
11/12/97	3863.10	57.73	3805.37	---	---
11/17/97	3863.10	57.83	3805.27	---	---
12/08/97	3863.10	58.12	3804.98	---	---

TABLE V
(continued)

MONITORING WELL MW-15
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3861.90	55.57	3806.33	---	---
08/27/97	3861.90	55.64	3806.26	---	---
10/16/97	3861.90	56.04	3805.86	---	---
10/17/97	3861.90	56.08	3805.82	---	---
10/18/97	3861.90	56.13	3805.77	---	---
10/19/97	3861.90	56.18	3805.72	---	---
10/20/97	3861.90	56.15	3805.75	---	---
10/22/97	3861.90	56.20	3805.70	---	---
10/29/97	3861.90	56.26	3805.64	---	---
11/05/97	3861.90	56.23	3805.67	---	---
11/12/97	3861.90	56.32	3805.58	---	---
11/17/97	3861.90	56.36	3805.54	---	---
11/19/97	3861.90	56.66	3805.24	---	---
12/05/97	3861.90	56.74	3805.16	---	---

TABLE V
(continued)

MONITORING WELL MW-16
SUMMARY OF GROUND WATER MONITORING DATA
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
05/01/97	3863.40	55.30	3808.10	---	---
08/27/97	3863.40	55.33	3808.07	---	---
10/16/97	3863.40	55.91	3807.49	---	---
10/17/97	3863.40	55.98	3807.42	---	---
10/18/97	3863.40	56.06	3807.34	---	---
10/19/97	3863.40	56.12	3807.28	---	---
10/20/97	3863.40	56.14	3807.26	---	---
10/22/97	3863.40	56.21	3807.19	---	---
10/29/97	3863.40	56.29	3807.11	---	---
11/05/97	3863.40	56.18	3807.22	---	---
11/12/97	3863.40	56.30	3807.10	---	---
11/17/97	3863.40	56.39	3807.01	---	---
11/19/97	3863.40	56.65	3806.75	---	---
12/08/97	3863.40	56.84	3806.56	---	---

TABLE VI

WEEKLY FLOW SUMMARY
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

	Flow						
	PW-1			PW-2			Total
Date	Meter Reading (gallons)	Flow Between Meter Readings (gallons)	Total Flow (gallons)	Meter Reading (gallons)	Flow Between Meter Readings (gallons)	Total Flow (gallons)	(gallons)
10/1/97	4,843,000	-		5,013,400	-		-
10/8/97	4,845,307	2,307	2,307	5,015,937	2,537	2,537	4,844
10/15/97	5,056,120	30,973	213,120	5,264,537	46,140	251,137	464,257
10/22/97	5,449,897	57,755	606,897	5,706,742	61,709	693,342	1,300,239
10/29/97	5,773,310	130,540	930,310	6,050,755	137,931	1,037,355	1,967,665
11/5/97	5,957,287	26,283	1,114,287	6,238,010	26,751	1,224,610	2,338,897
11/12/97	6,146,385	53,350	1,303,385	6,445,792	56,896	1,432,392	2,735,777
11/19/97	6,546,856	400,471	1,703,856	6,876,152	430,360	1,862,752	3,566,608
12/3/97	7,127,942	581,086	2,284,942	7,522,197	646,045	2,508,797	4,793,739
12/9/97	7,419,328	291,386	2,576,328	7,848,750	326,553	2,835,350	5,411,678

TABLE VII

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	04/09/97	07/15/97	10/08/97	10/10/97	10/11/97
COMPOUND		CONCENTRATION (ug/L)				
BENZENE	5	13.4	ND	ND	ND	ND
BROMOBENZENE		ND	ND	ND	ND	ND
BROMOCHLOROMETHANE		ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	80	ND	ND	ND	ND	ND
BROMOFORM	80	ND	ND	ND	ND	ND
BROMOMETHANE		ND	ND	ND	ND	ND
2-BUTANONE (MEK)		---	---	ND	ND	ND
n-BUTYLBENZENE		ND	ND	ND	ND	ND
SEC-BUTYLBENZENE		ND	ND	ND	ND	ND
TERT-BUTYLBENZENE		ND	ND	ND	ND	ND
TERT-BUTYL METHYL ETHER (MTBE)		---	---	ND	ND	ND
CARBON TETRACHLORIDE	5	ND	ND	ND	ND	ND
CHLOROBENZENE	100	ND	ND	ND	ND	ND
CHLOROETHANE		ND	ND	ND	ND	ND
CHLOROFORM	80	ND	ND	ND	ND	ND
CHLOROMETHANE		ND	ND	ND	ND	ND
2-CHLOROTOLUENE		ND	ND	ND	ND	ND
4-CHLOROTOLUENE		ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.2	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	80	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE	0.05	ND	ND	ND	ND	ND
DIBROMOMETHANE		ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	600	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	600	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	75	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE		ND	ND	ND	ND	ND
1,1-DICHLOROETHANE		ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	5	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	7	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHENE	70	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	100	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	5	ND	ND	ND	ND	ND
1,3-DICHLOROPROPANE		ND	ND	ND	ND	ND
2,2-DICHLOROPROPANE		ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE		ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE		ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE		ND	ND	ND	ND	ND

TABLE VII
(continued)

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	04/09/97	07/15/97	10/08/97	10/10/97	10/11/97
COMPOUND		CONCENTRATION (ug/L)				
ETHYLBENZENE	700	2.4	ND	ND	ND	ND
HEXACHLOROBUTADIENE		ND	ND	ND	ND	ND
ISOPROPYLBENZENE		ND	ND	ND	ND	ND
4-ISOPROPYLTOLUENE		ND	ND	ND	ND	ND
METHYLENE CHLORIDE	5	ND	ND	ND	ND	ND
NAPHTHALENE		ND	ND	ND	ND	ND
PROPYLBENZENE		ND	ND	ND	ND	ND
STYRENE	100	ND	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE		ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE		ND	ND	ND	ND	ND
TETRACHLOROETHENE	5	ND	ND	ND	ND	ND
TETRAHYDRFURAN (THF)		ND	ND	ND	ND	ND
TOLUENE	1000	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE		ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	70	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	200	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	5	ND	ND	ND	ND	ND
TRICHLOROETHENE	5	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE		ND	ND	ND	ND	ND
1,2,3-TRICHLOROPROPANE		ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE		ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE		ND	ND	ND	ND	ND
VINYL CHLORIDE	2	ND	ND	ND	ND	ND
O-XYLENE		ND	ND	ND	ND	ND
P AND M-XYLENE		ND	ND	ND	ND	ND
TOTAL XYLENES	10000	2.9	2.9	ND	ND	ND

TABLE VII
(continued)

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	10/12/97	10/13/97	10/14/97	10/15/97	10/21/97	10/22/97	10/29/97
COMPOUND	CONCENTRATION (ug/l)						
BENZENE	ND	ND	ND	ND	ND	ND	ND
BROMOBENZENE	ND	ND	ND	ND	ND	ND	ND
BROMOCHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND
BROMOFORM	ND	ND	ND	ND	ND	ND	ND
BROMOMETHANE	ND	ND	ND	ND	ND	ND	ND
2-BUTANONE (MEK)	ND	ND	ND	ND	ND	ND	ND
n-BUTYLBENZENE	ND	ND	ND	ND	ND	ND	ND
SEC-BUTYLBENZENE	ND	ND	ND	ND	ND	ND	ND
TERT-BUTYLBENZENE	ND	ND	ND	ND	ND	ND	ND
TERT-BUTYL METHYL ETHER (MTBE)	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
CHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
CHLOROFORM	ND	ND	ND	ND	ND	ND	ND
CHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND
2-CHLOROTOLUENE	ND	ND	ND	ND	ND	ND	ND
4-CHLOROTOLUENE	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	ND	ND	ND	ND	ND	ND	ND
1,2-DIBROMOETHANE	ND	ND	ND	ND	ND	ND	ND
DIBROMOMETHANE	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND
1,3-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND
2,2-DICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	ND	ND	ND	ND	ND	ND	ND

TABLE VII
(continued)

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	10/12/97	10/13/97	10/14/97	10/15/97	10/21/97	10/22/97	10/29/97
COMPOUND	CONCENTRATION (ug/l)						
ETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	ND	ND	ND	ND	ND	ND	ND
ISOPROPYLBENZENE	ND	ND	ND	ND	ND	ND	ND
4-ISOPROPYLTOLUENE	ND	ND	ND	ND	ND	ND	ND
METHYLENE CHLORIDE	ND	ND	ND	ND	ND	ND	ND
NAPHTHALENE	ND	ND	ND	ND	ND	ND	ND
PROPYLBENZENE	ND	ND	ND	ND	ND	ND	ND
STYRENE	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHENE	ND	ND	ND	ND	ND	ND	ND
TETRAHYDRFURAN (THF)	ND	ND	ND	ND	ND	ND	ND
TOLUENE	ND	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHENE	ND	ND	ND	ND	ND	ND	ND
TRICHLOROFLUOROMETHANE	ND	ND	ND	ND	ND	ND	ND
1,2,3-TRICHLOROPROPANE	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	ND	ND	ND	ND	ND	ND	ND
O-XYLENE	ND	ND	ND	ND	ND	ND	ND
P AND M-XYLENE	ND	ND	ND	ND	ND	ND	ND
TOTAL XYLENES	ND	ND	ND	ND	ND	ND	ND

TABLE VIII

PUMPING WELL PW-1
SUMMARY OF WATER LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	04/09/97	04/29/97	07/15/97	10/08/97
COMPOUND	CONCENTRATION (ug/l)				
BENZENE	5	5.6	15.8	4.8	3.2
BROMOBENZENE		<0.5	---	<0.5	<0.5
BROMOCHLOROMETHANE		<0.5	---	<0.5	<0.5
BROMODICHLOROMETHANE	80	<0.5	---	<0.5	<0.5
BROMOFORM	80	<0.5	---	<0.5	<0.5
BROMOMETHANE		<0.5	---	<0.5	<0.5
2-BUTANONE (MEK)		---	---	---	---
n-BUTYLBENZENE		<0.5	---	<0.5	<0.5
SEC-BUTYLBENZENE		<0.5	---	<0.5	<0.5
TERT-BUTYLBENZENE		<0.5	---	<0.5	<0.5
TERT-BUTYL METHYL ETHER (MTBE)		---	---	---	---
CARBON TETRACHLORIDE	5	<0.5	---	<0.5	<0.5
CHLOROBENZENE	100	<0.5	---	<0.5	<0.5
CHLOROETHANE		<0.5	---	<0.5	<0.5
CHLOROFORM	80	<0.5	---	<0.5	<0.5
CHLOROMETHANE		<0.5	---	<0.5	<0.5
2-CHLOROTOLUENE		<0.5	---	<0.5	<0.5
4-CHLOROTOLUENE		<0.5	---	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	<0.5	---	<0.5	<0.5
DIBROMOCHLOROMETHANE	80	<0.5	---	<0.5	<0.5
1,2-DIBROMOETHANE	0.05	<0.5	---	<0.5	<0.5
DIBROMOMETHANE		<0.5	---	<0.5	<0.5
1,2-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5
1,3-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5
1,4-DICHLOROBENZENE	75	<0.5	---	<0.5	<0.5
DICHLORODIFLUOROMETHANE		<0.5	---	<0.5	<0.5
1,1-DICHLOROETHANE		<0.5	---	<0.5	<0.5
1,2-DICHLOROETHANE	5	<0.5	---	<0.5	<0.5
1,1-DICHLOROETHENE	7	<0.5	---	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	70	<0.5	---	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	100	<0.5	---	<0.5	<0.5
1,2-DICHLOROPROPANE	5	<0.5	---	<0.5	<0.5
1,3-DICHLOROPROPANE		<0.5	---	<0.5	<0.5
2,2-DICHLOROPROPANE		<0.5	---	<0.5	<0.5
1,1-DICHLOROPROPENE		<0.5	---	<0.5	<0.5

TABLE VIII
(continued)

PUMPING WELL PW-1
SUMMARY OF WATER LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	04/09/97	04/29/97	07/15/97	10/08/97
COMPOUND	CONCENTRATION (ug/l)				
CIS-1,3-DICHLOROPROPENE		<0.5	---	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE		<0.5	---	<0.5	<0.5
ETHYLBENZENE	700	2.4	3.1	0.7	0.6
HEXACHLOROBUTADIENE		<0.5	---	<0.5	<0.5
ISOPROPYLBENZENE		<0.5	---	<0.5	<0.5
4-ISOPROPYLTOLUENE		<0.5	---	<0.5	<0.5
METHYLENE CHLORIDE	5	<0.5	---	<0.5	<0.5
NAPHTHALENE		<0.5	---	<0.5	<0.5
PROPYLBENZENE		<0.5	---	<0.5	<0.5
STYRENE	100	<0.5	---	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE		<0.5	---	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE		<0.5	---	<0.5	<0.5
TETRACHLOROETHENE	5	<0.5	---	<0.5	<0.5
TETRAHYDRFURAN (THF)		<0.5	---	<0.5	<0.5
TOLUENE	1000	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE		<0.5	---	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	70	<0.5	---	<0.5	<0.5
1,1,1-TRICHLOROETHANE	200	<0.5	---	<0.5	<0.5
1,1,2-TRICHLOROETHANE	5	<0.5	---	<0.5	<0.5
TRICHLOROETHENE	5	<0.5	---	<0.5	<0.5
TRICHLOROFLUOROMETHANE		<0.5	---	<0.5	<0.5
1,2,3-TRICHLOROPROPANE		<0.5	---	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE		<0.5	---	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE		<0.5	---	<0.5	<0.5
VINYL CHLORIDE	2	<0.5	---	<0.5	<0.5
O-XYLENE		---	---	---	---
P AND M-XYLENE		---	---	---	---
TOTAL XYLENES	10000	1.5	0.14	1.1	0.75

TABLE IX

PUMPING WELL PW-2
SUMMARY OF WATER LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	04/09/97	04/29/97	07/15/97	10/08/97
COMPOUND	CONCENTRATION (ug/l)				
BENZENE	5	<0.5	12.0	11.1	2.5
BROMOBENZENE		<0.5	---	<0.5	<0.5
BROMOCHLOROMETHANE		<0.5	---	<0.5	<0.5
BROMODICHLOROMETHANE	80	<0.5	---	<0.5	<0.5
BROMOFORM	80	<0.5	---	<0.5	<0.5
BROMOMETHANE		<0.5	---	<0.5	<0.5
2-BUTANONE (MEK)		---	---	---	---
n-BUTYLBENZENE		<0.5	---	<0.5	<0.5
SEC-BUTYLBENZENE		<0.5	---	<0.5	<0.5
TERT-BUTYLBENZENE		<0.5	---	<0.5	<0.5
TERT-BUTYL METHYL ETHER (MTBE)		---	---	---	---
CARBON TETRACHLORIDE	5	<0.5	---	<0.5	<0.5
CHLOROBENZENE	100	<0.5	---	<0.5	<0.5
CHLOROETHANE		<0.5	---	<0.5	<0.5
CHLOROFORM	80	<0.5	---	<0.5	<0.5
CHLOROMETHANE		<0.5	---	<0.5	<0.5
2-CHLOROTOLUENE		<0.5	---	<0.5	<0.5
4-CHLOROTOLUENE		<0.5	---	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	<0.5	---	<0.5	<0.5
DIBROMOCHLOROMETHANE	80	<0.5	---	<0.5	<0.5
1,2-DIBROMOETHANE	0.05	<0.5	---	<0.5	<0.5
DIBROMOMETHANE		<0.5	---	<0.5	<0.5
1,2-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5
1,3-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5
1,4-DICHLOROBENZENE	75	<0.5	---	<0.5	<0.5
DICHLORODIFLUOROMETHANE		<0.5	---	<0.5	<0.5
1,1-DICHLOROETHANE		<0.5	---	<0.5	<0.5
1,2-DICHLOROETHANE	5	<0.5	---	<0.5	<0.5
1,1-DICHLOROETHENE	7	<0.5	---	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	70	<0.5	---	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	100	<0.5	---	<0.5	<0.5
1,2-DICHLOROPROPANE	5	<0.5	---	<0.5	<0.5
1,3-DICHLOROPROPANE		<0.5	---	<0.5	<0.5
2,2-DICHLOROPROPANE		<0.5	---	<0.5	<0.5
1,1-DICHLOROPROPENE		<0.5	---	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE		<0.5	---	<0.5	<0.5

TABLE IX
(continued)

PUMPING WELL PW-2
SUMMARY OF WATER LABORATORY RESULTS - VOCS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	04/09/97	04/29/97	07/15/97	10/08/97
COMPOUND	CONCENTRATION (ug/l)				
TRANS-1,3-DICHLOROPROPENE		<0.5	---	<0.5	<0.5
ETHYLBENZENE	700	<0.5	1.0	0.96	<0.5
HEXACHLOROBUTADIENE		<0.5	---	<0.5	<0.5
ISOPROPYLBENZENE		<0.5	---	<0.5	<0.5
4-ISOPROPYLTOLUENE		<0.5	---	<0.5	<0.5
METHYLENE CHLORIDE	5	<0.5	---	<0.5	<0.5
NAPHTHALENE		<0.5	---	<0.5	<0.5
PROPYLBENZENE		<0.5	---	<0.5	<0.5
STYRENE	100	<0.5	---	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE		<0.5	---	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE		<0.5	---	<0.5	<0.5
TETRACHLOROETHENE	5	<0.5	---	<0.5	<0.5
TETRAHYDRFURAN (THF)		<0.5	---	<0.5	<0.5
TOLUENE	1000	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE		<0.5	---	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	70	<0.5	---	<0.5	<0.5
1,1,1-TRICHLOROETHANE	200	<0.5	---	<0.5	<0.5
1,1,2-TRICHLOROETHANE	5	<0.5	---	<0.5	<0.5
TRICHLOROETHENE	5	<0.5	---	<0.5	<0.5
TRICHLOROFLUOROMETHANE		<0.5	---	<0.5	<0.5
1,2,3-TRICHLOROPROPANE		<0.5	---	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE		<0.5	---	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE		<0.5	---	<0.5	<0.5
VINYL CHLORIDE	2	<0.5	---	<0.5	<0.5
O-XYLENE		---	---	---	---
P AND M-XYLENE		---	---	---	---
TOTAL XYLENES	10000	<0.5	0.6	1.4	0.5

TABLE X

SUMMARY OF WATER LABORATORY RESULTS - INORGANICS
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

SAMPLE ID	MCL	SOURCE WELL PW-1	SOURCE WELL PW-2
DATE SAMPLED		04/09/97	04/09/97
COMPOUND		CONCENTRATION (mg/l)	
Nitrate (as N)	10	1.40	1.24
Nitrite (as N)	1	<0.05	<0.05
Antimony	0.005	<0.0004	<0.0004
Arsenic	0.1	0.0069	0.0063
Barium	1.0	0.1017	0.113
Beryllium	0.001	<0.0002	<0.0002
Cadmium	0.01	<0.0001	<0.0001
Chromium	0.05	0.0043	0.0035
Mercury	0.002	<0.0002	<0.0002
Nickel	0.1	0.00292	0.00239
Selenium	0.05	0.0042	0.0037
Thallium	0.001	<0.00003	<0.00003
Sulfate	600	45	46
Cyanide	0.2	<0.005	<0.005

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Manager: Theresa Nix
Project Location: Lea County, NM

Project Name: TNMPL SPS-11

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	172982-001 MW-1 Liquid 11/17/97-15:59		172982-002 MW-2 Liquid 11/17/97-15:27		172982-003 MW-3 Liquid 11/17/97-15:33		172982-004 MW-4 Liquid 11/17/97-15:40		172982-005 MW-6 Liquid 11/17/97-15:08		172982-006 MW-7 Liquid 11/17/97-15:47	
Metals by ICP EPA 6010	*Analyzed:* / *Units:*	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.
Aluminum		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	0.51	(0.22)	< 0.22	(0.22)
Barium		1.06	(0.02)	0.19	(0.02)	0.080	(0.022)	0.088	(0.022)	0.16	(0.02)	0.80	(0.02)
Beryllium		< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)
Boron		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Cadmium		< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)
Calcium		116	(0.1)	102	(0.2)	59.4	(0.1)	66.7	(0.1)	116	(0.1)	113	(0.1)
Chromium		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Cobalt		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Copper		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Iron		0.24	(0.11)	0.29	(0.06)	< 0.11	(0.11)	< 0.11	(0.11)	0.48	(0.11)	3.55	(0.11)
Magnesium		40.3	(0.1)	16.7	(0.1)	6.71	(0.11)	8.44	(0.11)	15.9	(0.1)	34.4	(0.1)
Manganese		0.31	(0.06)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	0.32	(0.06)
Molybdenum		< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)
Nickel		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Silicon		17.7	(0.2)	18.3	(0.2)	11.9	(0.2)	10.4	(0.1)	13.2	(0.1)	10.4	(0.2)
Silver		< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)
Strontium		0.89	(0.22)	0.60	(0.22)	0.33	(0.22)	0.32	(0.22)	0.52	(0.22)	0.55	(0.22)
Tin		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	0.74	(0.22)
Vanadium		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Zinc		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
BTEX EPA 8020	*Analyzed:* / *Units:*	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.
Benzene		11.8	(0.1)	< 0.001	(0.001)	< 0.001	(0.001)	0.002	(0.001)	0.141	(0.001)	0.288	(0.004)

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The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: TNMPL SPS-11
Date Received in Lab : Nov 19, 1997 15:15
Project Manager: Theresa Nix
Date Report Faxed: Dec 4, 1997
Project Location: Lea County, NM
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172982-001	172982-002	172982-003	172982-004	172982-005	172982-006
	Field ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7
	Depth:						
	Matrix:	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sampled:	11/17/97-15:59	11/17/97-15:27	11/17/97-15:33	11/17/97-15:40	11/17/97-15:08	11/17/97-15:47
	Analyzed:	11/22/97	11/22/97	11/22/97	11/22/97	11/22/97	11/22/97
	Units:	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.	ppm R.L.
Toluene		2.5 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.014 (0.004)
Ethylbenzene		2.2 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.006 (0.001)	< 0.004 (0.004)
m,p-Xylenes		0.9 (0.2)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	0.003 (0.002)	0.159 (0.008)
o-Xylene		0.5 (0.1)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.002 (0.001)	< 0.004 (0.004)
Total BTEX		17.9	N.D.	N.D.	0.002	0.152	0.461

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CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: *TNMPL SPS-11*
Project Manager: Theresa Nix
Project Location: Lea County, NM

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:* / *Depth:* / *Matrix:* / *Sampled:*	172982-007 MW-9 Liquid 11/17/97-14:30		172982-008 MW-10 Liquid 11/17/97-15:52		172982-009 MW-11 Liquid 11/17/97-16:04		172982-010 MW-12 Liquid 11/17/97-15:20		172982-011 MW-13 Liquid 11/17/97-15:13		172982-012 MW-14 Liquid 11/17/97-15:01	
Metals by ICP EPA 6010	*Analyzed:* / *Units:*	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.	11/25/97 mg/L	R.L.
Aluminum		< 0.22	(0.22)	< 0.22	(0.22)	0.26	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Barium		0.45	(0.02)	0.40	(0.02)	0.16	(0.02)	0.18	(0.02)	0.12	(0.02)	0.66	(0.02)
Beryllium		< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)	< 0.022	(0.022)
Boron		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Cadmium		< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)	< 0.044	(0.044)
Calcium		129	(0.1)	154	(0.1)	149	(0.1)	140	(0.1)	119	(0.1)	204	(0.1)
Chromium		< 0.056	(0.056)	< 0.056	(0.056)	0.18	(0.06)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Cobalt		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Copper		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Iron		6.72	(0.06)	0.55	(0.11)	0.76	(0.11)	< 0.11	(0.11)	< 0.11	(0.11)	0.59	(0.11)
Magnesium		34.1	(0.1)	33.0	(0.1)	15.6	(0.1)	19.1	(0.1)	9.35	(0.22)	44.3	(0.1)
Manganese		0.38	(0.06)	0.16	(0.06)	0.14	(0.06)	< 0.056	(0.056)	< 0.056	(0.056)	0.25	(0.06)
Molybdenum		< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)	< 0.56	(0.56)
Nickel		< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)
Silicon		11.4	(0.1)	11.5	(0.1)	22.9	(0.2)	23.4	(0.2)	21.2	(0.1)	25.9	(0.2)
Silver		< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)	< 0.089	(0.089)
Strontium		0.57	(0.22)	0.52	(0.22)	0.73	(0.22)	0.85	(0.22)	0.56	(0.22)	1.20	(0.22)
Tin		1.48	(0.11)	< 0.22	(0.22)	0.33	(0.22)	< 0.22	(0.22)	< 0.22	(0.22)	0.26	(0.22)
Vanadium		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)
Zinc		< 0.056	(0.056)	< 0.056	(0.056)	< 0.056	(0.056)	0.092	(0.056)	< 0.056	(0.056)	0.12	(0.06)
BTEX EPA 8020	*Analyzed:* / *Units:*	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.	11/22/97 ppm	R.L.
Benzene		2.5	(0.1)	0.143	(0.001)	3 32	(0.02)	0.237	(0 001)	< 0.001	(0.001)	7.76	(0.02)

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Name: TNMPL SPS-11
Date Received in Lab : Nov 19, 1997 15:15
Project Manager: Theresa Nix
Date Report Faxed: Dec 4, 1997
Project Location: Lea County, NM
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172982-007		172982-008		172982-009		172982-010		172982-011		172982-012	
	Field ID:	MW-9		MW-10		MW-11		MW-12		MW-13		MW-14	
	Depth:												
	Matrix:	Liquid		Liquid		Liquid		Liquid		Liquid		Liquid	
	Sampled:	11/17/97-14:30		11/17/97-15:52		11/17/97-16:04		11/17/97-15:20		11/17/97-15:13		11/17/97-15:01	
	Analyzed:	11/22/97		11/22/97		11/22/97		11/22/97		11/22/97		11/22/97	
	Units:	ppm	R.L.	ppm	R.L.	ppm	R.L.	ppm	R.L.	ppm	R.L.	ppm	R.L.
Toluene		0.2	(0.1)	0.203	(0.001)	< 0.02	(0.02)	0.088	(0.001)	< 0.001	(0.001)	2.36	(0.02)
Ethylbenzene		0.7	(0.1)	0.165	(0.001)	< 0.02	(0.02)	0.047	(0.001)	< 0.001	(0.001)	< 0.02	(0.02)
m,p-Xylenes		0.3	(0.2)	0.102	(0.002)	< 0.04	(0.04)	0.072	(0.002)	< 0.002	(0.002)	1.67	(0.04)
o-Xylene		0.2	(0.1)	0.051	(0.001)	< 0.02	(0.02)	0.034	(0.001)	< 0.001	(0.001)	< 0.02	(0.02)
Total BTEX			3.9		0.664		3.32		0.478		N.D		11.79

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Manager: Theresa Nix
Project Location: Lea County, NM

Project Name: TNMPL SPS-11

Date Received in Lab : Nov 19, 1997 15:15
Date Report Faxed: Dec 4, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172982-013	172982-014				
	Field ID:	MW-15	MW-16				
	Depth:						
	Matrix:	Liquid	Liquid				
	Sampled:	11/17/97-14:48	11/17/97-14:43				
Metals by ICP **EPA 6010**	*Analyzed:*	11/25/97	11/25/97				
	Units:	mg/L R.L.	mg/L R.L.				
Aluminum		< 0.22 (0.22)	0.24 (0.22)				
Barium		0.14 (0.02)	0.16 (0.02)				
Beryllium		< 0.022 (0.022)	< 0.022 (0.022)				
Boron		< 0.22 (0.22)	< 0.22 (0.22)				
Cadmium		< 0.044 (0.044)	< 0.044 (0.044)				
Calcium		127 (0.1)	126 (0.1)				
Chromium		< 0.056 (0.056)	< 0.056 (0.056)				
Cobalt		< 0.056 (0.056)	< 0.056 (0.056)				
Copper		< 0.056 (0.056)	< 0.056 (0.056)				
Iron		< 0.11 (0.11)	0.15 (0.11)				
Magnesium		15.5 (0.1)	13.5 (0.1)				
Manganese		< 0.056 (0.056)	< 0.056 (0.056)				
Molybdenum		< 0.56 (0.56)	< 0.56 (0.56)				
Nickel		< 0.22 (0.22)	< 0.22 (0.22)				
Silicon		24.2 (0.2)	23.0 (0.2)				
Silver		< 0.089 (0.089)	< 0.089 (0.089)				
Strontium		0.77 (0.22)	0.69 (0.22)				
Tin		< 0.22 (0.22)	< 0.22 (0.22)				
Vanadium		< 0.056 (0.056)	< 0.056 (0.056)				
Zinc		0.22 (0.06)	0.23 (0.06)				
BTEX **EPA 8020**	*Analyzed:*	11/22/97	11/22/97				
	Units:	ppm R.L.	ppm R.L.				
Benzene		0.063 (0.001)	0.053 (0.001)				

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XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72982

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0 | ***Project Name: TNMPL SPS-11*** | **Date Received in Lab :** Nov 19, 1997 15:15

Project Manager: Theresa Nix | **Date Report Faxed:** Dec 4, 1997

Project Location: Lea County, NM | **XENCO contact :** Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172982-013	172982-014				
	Field ID:	MW-15	MW-16				
	Depth:						
	Matrix:	Liquid	Liquid				
	Sampled:	11/17/97-14:48	11/17/97-14:43				
	Analyzed:	11/22/97	11/22/97				
	Units:	ppm R.L.	ppm R.L.				
Toluene		< 0.001 (0.001)	0.061 (0.001)				
Ethylbenzene		< 0.001 (0.001)	0.021 (0.001)				
m,p-Xylenes		< 0.002 (0.002)	0.031 (0.002)				
o-Xylene		< 0.001 (0.001)	0.004 (0.001)				
Total BTEX		0.063	0.170				

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Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 16:26
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172982- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G]
Parameter	mg/L	mg/L	mg/L	Relative Difference %	Relative Difference %	mg/L	mg/L	Matrix Spike Recovery %	Recovery Range %	Qualifier
Aluminum	< 0.222	< 0.222	0.222	N.C	25.0	1.682	2.22	75.7	70-125	
Barium	1.062	1.080	0.007	1.7	25.0	1.864	1.11	72.2	70-125	
Beryllium	< 0.0222	< 0.0222	0.0222	N.C	25.0	0.3378	0.444	76.0	70-125	
Cadmium	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.3544	0.444	79.7	70-125	
Calcium	116	122	0.06	5.0	25.0	113	4.4	67.5	70-125	A,B
Chromium	< 0.0556	< 0.0556	0.0556	N.C	25.0	0.8644	1.111	77.8	70-125	
Cobalt	< 0.0111	< 0.0111	0.0111	N.C	25.0	0.8500	1.111	76.5	70-125	
Copper	< 0.0333	< 0.0333	0.0333	N.C	25.0	0.8767	1.111	78.9	70-125	
Iron	0.236	0.243	0.028	2.9	25.0	2.000	2.22	79.4	70-125	
Magnesium	40.31	41.85	0.06	3.7	25.0	40.17	4.4	3.2	70-125	A,B
Manganese	0.312	0.328	0.028	5.0	25.0	1.986	2.22	75.3	70-125	
Molybdenum	< 0.111	< 0.111	0.111	N.C	25.0	0.849	1.11	76.4	70-125	
Nickel	< 0.111	< 0.111	0.111	N.C	25.0	0.858	1.11	77.2	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 16:33
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172982- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G] Qualifier
Parameter				Relative Difference	Relative Difference			Matrix Spike Recovery	Recovery Range	
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Silver	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.6789	0 889	76.4	70-125	
Strontium	0.887	0.889	0.111	0.2	25.0	2.500	2.22	72.7	70-125	
Vanadium	< 0.0133	< 0.0133	0.0133	N.C	25.0	0.8578	1.111	77.2	70-125	
Zinc	< 0.0333	< 0.0333	0.0333	N.C	25.0	0.8267	1.111	74 4	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
(C) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 16:05
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Aluminum	< 0.222	2.029	2.222	0.222	91.3	70-125	
Barium	< 0.0067	1.0411	1.1111	0.0067	93.7	70-125	
Beryllium	< 0.0222	0.3800	0.4444	0.0222	85.5	70-125	
Cadmium	< 0.0444	0.3889	0.4444	0.0444	87.5	70-125	
Calcium	0.073	4.406	4.440	0.056	97.6	70-125	
Chromium	< 0.0556	0.9744	1.1111	0.0556	87.7	70-125	
Cobalt	< 0.0111	1.0156	1.1111	0.0111	91.4	70-125	
Copper	< 0.0333	1.0311	1.1111	0.0333	92.8	70-125	
Iron	0.336	2.129	2.222	0.028	80.7	70-125	
Magnesium	0.059	4.267	4.440	0.056	94.8	70-125	
Manganese	< 0.0278	2.0378	2.2222	0.0278	91.7	70-125	
Molybdenum	< 0.111	0.998	1.111	0.111	89.8	70-125	
Nickel	< 0.111	0.999	1.111	0.111	89.9	70-125	
Silver	< 0.0444	0.6756	0.8889	0.0444	76.0	70-125	
Strontium	< 0.111	2.118	2.220	0.111	95.4	70-125	
Vanadium	< 0.0133	1.0044	1.1111	0.0133	90.4	70-125	
Zinc	< 0.0333	0.9867	1.1111	0.0333	88.8	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

ENCO Laboratories

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Date Analyzed: Nov 25, 1997 18:10
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172982- 011	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G]
Parameter	mg/L	mg/L	mg/L	Relative Difference %	Relative Difference %	mg/L	mg/L	Matrix Spike Recovery %	Recovery Range %	Qualifier
Aluminum	< 0.222	< 0.222	0.222	N.C	25.0	2.122	2.22	95.5	70-125	
Barium	0.122	0.126	0.007	3.2	25.0	1.154	1.11	92.9	70-125	
Beryllium	< 0.0222	< 0.0222	0.0222	N.C	25.0	0.4144	0.444	93.2	70-125	
Cadmium	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.4233	0.444	95.3	70-125	
Calcium	119	127	0.06	6.5	25.0	130	4.4	247.7	70-125	A
Chromium	< 0.0556	< 0.0556	0.0556	N.C	25.0	1.0167	1.111	91.5	70-125	
Cobalt	< 0.0111	< 0.0111	0.0111	N.C	25.0	1.0400	1.111	93.6	70-125	
Copper	< 0.0333	< 0.0333	0.0333	N.C	25.0	1.0233	1.111	92.1	70-125	
Iron	0.088	0.222	0.028	86.5	25.0	2.254	2.22	97.5	70-125	C
Magnesium	9.350	10.139	0.056	8.1	25.0	14.278	4.44	111.0	70-125	
Manganese	< 0.0278	< 0.0278	0.0278	N.C	25.0	2.0367	2.222	91.7	70-125	
Molybdenum	< 0.111	< 0.111	0.111	N.C	25.0	1.001	1.11	90.1	70-125	
Nickel	< 0.111	< 0.111	0.111	N.C	25.0	1.036	1.11	93.2	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
(C) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

Certificate Of Quality Control for Batch : 17A18F64

EPA 6010 Metals by ICP

Date Validated: Dec 1, 1997 10:30
Analyst: SA
Date Analyzed: Nov 25, 1997 18:10
Matrix: Liquid
QA/QC Manager: Edward H. Yonemoto, Ph.D.

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172982- 011	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC	[E] LIMITS	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC	[I] LIMITS	[G] Qualifier
Parameter				Relative Difference	Relative Difference			Matrix Spike Recovery	Recovery Range	
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Silver	< 0.0444	< 0.0444	0.0444	N.C	25.0	0.6389	0.889	71.9	70-125	
Strontium	0.558	0.654	0.111	15.8	25.0	3.006	2.22	110.3	70-125	
Vanadium	0.0222	0.0222	0.0133	0.0	25.0	1.1056	1.110	97.6	70-125	
Zinc	0.0456	< 0.0333	0.0333	N.C	25.0	1.0178	1.111	87.5	70-125	

(A) High analyte concentration affects spike recovery.
(B) Post-digestion spike within acceptance limits.
(C) Variability in duplicate measurement attributed to sample non-homogeneity.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
Technical Director

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25D71

SW- 846 5030/8020 BTEX

Date Validated: Nov 24, 1997 11:00
Date Analyzed: Nov 22, 1997 10:24
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1000	0.1000	0.0010	100.0	65-135	
Toluene	< 0.0010	0.1010	0.1000	0.0010	101.0	65-135	
Ethylbenzene	< 0.0010	0.1030	0.1000	0.0010	103.0	65-135	
m,p-Xylenes	< 0.0020	0.2090	0.2000	0.0020	104.5	65-135	
o-Xylene	< 0.0010	0.1020	0.1000	0.0010	102.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25D71

SW- 846 5030/8020 BTEX

Date Validated: Nov 24, 1997 11:00
Date Analyzed: Nov 22, 1997 11:02
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 172982- 003	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	< 0.0010	0.0951	0.0966	0.1000	0.0010	25.0	1.6	95.1	96.6	65-135	
Toluene	< 0.0010	0.0963	0.0978	0.1000	0.0010	25.0	1.5	96.3	97.8	65-135	
Ethylbenzene	< 0.0010	0.0980	0.0998	0.1000	0.0010	25.0	1.8	98.0	99.8	65-135	
m,p-Xylenes	< 0.0020	0.2000	0.2050	0.2000	0.0020	25.0	2.5	100.0	102.5	65-135	
o-Xylene	< 0.0010	0.0975	0.0993	0.1000	0.0010	25.0	1.8	97.5	99.3	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099-1-0-0
Project Manager: Theresa Nix
Project Location: Lea County, NM

Project Name: TNMPL SPS-11

XENCO COC#: 1-72982
Date Received in Lab: Nov 19, 1997 15:15 by LY
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
							Sample Collected	Addition Requested	Extraction	Analysis
1	MW-1	172982-001	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:59		Nov 22, 1997 by HL	Nov 22, 1997 17:41 by HL
2			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:59		Nov 24, 1997 by AO	Nov 25, 1997 16:26 by SA
3	MW-2	172982-002	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:27		Nov 22, 1997 by HL	Nov 22, 1997 11:59 by HL
4			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:27		Nov 24, 1997 by AO	Nov 25, 1997 16:47 by SA
5	MW-3	172982-003	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:33		Nov 22, 1997 by HL	Nov 22, 1997 11:02 by HL
6			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:33		Nov 24, 1997 by AO	Nov 25, 1997 16:54 by SA
7	MW-4	172982-004	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:40		Nov 22, 1997 by HL	Nov 22, 1997 14:28 by HL
8			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:40		Nov 24, 1997 by AO	Nov 25, 1997 17:01 by SA
9	MW-6	172982-005	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:08		Nov 22, 1997 by HL	Nov 22, 1997 14:08 by HL
10			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:08		Nov 24, 1997 by AO	Nov 25, 1997 17:21 by SA
11	MW-7	172982-006	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:47		Nov 22, 1997 by HL	Nov 22, 1997 18:58 by HL
12			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:47		Nov 24, 1997 by AO	Nov 25, 1997 17:28 by SA
13	MW-9	172982-007	BTEX	SW-846	ppm	Standard	Nov 17, 1997 14:30		Nov 22, 1997 by HL	Nov 22, 1997 18:00 by HL
14			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 14:30		Nov 24, 1997 by AO	Nov 25, 1997 17:35 by SA
15	MW-10	172982-008	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:52		Nov 22, 1997 by HL	Nov 22, 1997 16:23 by HL
16			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:52		Nov 24, 1997 by AO	Nov 25, 1997 17:42 by SA
17	MW-11	172982-009	BTEX	SW-846	ppm	Standard	Nov 17, 1997 16:04		Nov 22, 1997 by HL	Nov 22, 1997 19:17 by HL
18			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 16:04		Nov 24, 1997 by AO	Nov 25, 1997 17:49 by SA
19	MW-12	172982-010	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:20		Nov 22, 1997 by HL	Nov 22, 1997 15:06 by HL
20			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:20		Nov 24, 1997 by AO	Nov 25, 1997 17:56 by SA
21	MW-13	172982-011	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:13		Nov 22, 1997 by HL	Nov 22, 1997 18:39 by HL
22			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:13		Nov 24, 1997 by AO	Nov 25, 1997 18:03 by SA
23	MW-14	172982-012	BTEX	SW-846	ppm	Standard	Nov 17, 1997 15:01		Nov 22, 1997 by HL	Nov 22, 1997 19:36 by HL
24			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 15:01		Nov 24, 1997 by AO	Nov 25, 1997 18:23 by SA
25	MW-15	172982-013	BTEX	SW-846	ppm	Standard	Nov 17, 1997 14:48		Nov 22, 1997 by HL	Nov 22, 1997 15:45 by HL
26			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 14:48		Nov 24, 1997 by AO	Nov 25, 1997 18:55 by SA
27	MW-16	172982-014	BTEX	SW-846	ppm	Standard	Nov 17, 1997 14:43		Nov 22, 1997 by HL	Nov 22, 1997 16:04 by HL
28			Metals (ICP)	EPA 6010	mg/L	Standard	Nov 17, 1997 14:43		Nov 24, 1997 by AO	Nov 25, 1997 19:02 by SA

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 2

Lab. Batch # 172982-SA

Contractor: K-E-I Consultants Phone: (210) 680-3767

Address: 5309 Interbach, Suite 100 San Antonio, TX 78238

Project Name: TIMPL SPS-11 Project Director: Mike Hawthorn

Project Location: Lea County, NM Project Manager: Theresa Nix

Sampler Signature: Stanley Sparrow Project No.: 610099-1-0-0

No. coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No.: 8280

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Unl Dies Ker Unknown / Waste Oil / PIT No: / Tank No: / Sample Description	No of Containers Total	EPA method 5030/8020-602 BTEX	TPH (418.1)	ICP metals EPA method 6010	Please Hold	Turn-around: ASAP / 24 hrs / 48 hrs / Standard	LAB ONLY ID #
1	MW-1	11-17-97	1559			/		/			/	HNO3 HCl		3	/		/		Metals HNO3 BTEX HCl	1
2	MW-2	11-17-97	1527			/		/			/	HNO3 HCl		3	/		/			2
3	MW-3	11-17-97	1533			/		/			/	HNO3 HCl		3	/		/			3
4	MW-4	11-17-97	1540			/		/			/	HNO3 HCl		3	/		/			4
5	MW-6	11-17-97	1508			/		/			/	HNO3 HCl		3	/		/			5
6	MW-7	11-17-97	1547			/		/			/	HNO3 HCl		3	/		/			6
7	MW-9	11-17-97	1430			/		/			/	HNO3 HCl		3	/		/			7
8	MW-10	11-17-97	1552			/		/			/	HNO3 HCl		3	/		/			8
9	MW-11	11-17-97	1604			/		/			/	HNO3 HCl		3	/		/			9
10	MW-12	11-17-97	1520			/		/			/	HNO3 HCl		3	/		/			10

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Sparrow	11-18-97				
			Received For Laboratory by: KET/UPS		
			L Yockey	11/19/97	1515

Remarks

BTEX EPA method SW-846-8020

metals EPA method 6010 - ICP SCAN

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories
11581 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch #172982-SA

Contractor: Key Consultants Phone ( ) 210-680-3767

Address: 5309 Interstate, Suite 100 San Antonio, TX 78238

Project Name: TRIMPL SRS-11 Project Director: Mike Hawthorn

Project Location: Lea County, NM Project Manager: Theresa Wix

Sampler Signature: Stanley Kuvers Project No.: 610099-1-0-0

No coolers this shipment: Contractor COC #

Carrier: UPS Quote #:

Airbill No. P.O. No: 3280

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	No of Containers Total	BTEX (5030/8020-602) SW-846 - 8020 EPA method	TPH (418.1)	ICP metals EPA method 6010	Please Hold	Turn-around ASAP / 24 hrs / 48 hrs / Standard	LAB ONLY ID #
1	MW-13	11-17 97	1513			/		/			/	HNO3 HCl	3	/		/		Metals HNO3 BTEX HCl	1
2	MW-14	11-17 97	1501			/		/			/	HNO3 HCl	3	/		/			2
3	MW-15	11-17 97	1448			/		/			/	HNO3 HCl	3	/		/			3
4	MW-16	11-17 97	1443			/		/			/	HNO3 HCl	3	/		/			4
5	PW-1	11-17 97				/		/			/	HNO3 HCl	3	/		/			5
6	PW-2	11-17 97				/		/			/	HNO3 HCl	3	/		/			6
7																			7
8																			8
9																			9
10																			10

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Sample Description

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Stanley Kuvers	11-18-97				
			Received For Laboratory by KEY/UPS	11/19/97	1515

Remarks

BTEX: EPA Method SW-846-8020

metals: EPA method 6010-RP SCAN

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72026

K.E.I. Consultants, Inc.

Project Name: TNMPL

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAII

Date Received in Lab : Aug 30, 1997 09:40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-001 MW-1	172026-002 MW-2	172026-003 MW-3	172026-004 MW-4	172026-005 MW-6	172026-006 MW-7	172026-007 MW-9	172026-008 MW-10	172026-009 MW-11
RCRA Metals by EPA 6010		Date Analyzed - Analytical Results								ppm (mg/L - mg/Kg)
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Arsenic		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Barium		0.81	0.17	0.17	0.10	0.17	0.90	0.68	0.67	0.41
Cadmium		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chromium		< 0.06	< 0.06	0.30	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	0.07
Lead		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver		< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Selenium		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Total Mercury by EPA 7470		Date Analyzed - Analytical Results								ppm (mg/L - mg/Kg)
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Mercury		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
BTEX by EPA 8020		Date Analyzed - Analytical Results								ppm (mg/L - mg/Kg)
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
Benzene		3.76	< 0.001	< 0.001	0.009	0.082	0.502	2.93	0.123	2.74
Toluene		0.25	< 0.001	< 0.001	< 0.001	< 0.001	0.064	< 0.01	0.146	< 0.01
Ethylbenzene		0.63	< 0.001	< 0.001	< 0.001	0.002	0.302	0.93	0.162	0.11

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XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72026

K.E.I. Consultants, Inc.

Project Name: TNMPL

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Date Received in Lab : Aug 30, 1997 09:40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	172026-001	172026-002	172026-003	172026-004	172026-005	172026-006	172026-007	172026-008	172026-009
	Field ID:	MW-1	MW-2	MW-3	MW-4	MW-6	MW-7	MW-9	MW-10	MW-11
	Depth:									
		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
m,p-Xylenes		0.30	< 0.002	< 0.002	< 0.002	0.003	0.113	0.36	0.110	0.04
o-Xylene		0.15	< 0.001	< 0.001	< 0.001	< 0.001	0.057	< 0.01	0.048	< 0.01
Total BTEX		5.09	< 0.006	< 0.006	0.009	0.087	1.038	4.22	0.589	2.89
PAHs by GC-MS (610 List) by EPA 8270		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997
Acenaphthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Acenaphthylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(a)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(a)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(b)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(g,h,i)perylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Benzo(k)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Chrysene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Dibenzo(a,h)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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CERTIFICATE OF ANALYSIS SUMMARY 1-72026

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Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

Date Received in Lab : Aug 30, 1997 09.40 by CJT
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XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: / Field ID:	172026-001 MW-1	172026-002 MW-2	172026-003 MW-3	172026-004 MW-4	172026-005 MW-6	172026-006 MW-7	172026-007 MW-9	172026-008 MW-10	172026-009 MW-11
		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)								
Fluorene		Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002	Sep 5, 1997 < 0.002
Indeno(1,2,3-cd)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Naphthalene		0.012	< 0.002	< 0.002	< 0.002	< 0.002	0.009	0.031	< 0.002	< 0.002
Phenanthrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002

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CERTIFICATE OF ANALYSIS SUMMARY 1-72026

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

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Project Name: TNMPL

Date Received in Lab : Aug 30, 1997 09.40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-010 MW-12	172026-011 MW-13	172026-012 MW-14	172026-013 MW-15	172026-014 MW-16
RCRA Metals by EPA 6010		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Arsenic		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Barium		0.28	0.29	0.85	0.21	0.19
Cadmium		< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
Chromium		< 0.06	< 0.06	0.08	< 0.06	< 0.06
Lead		< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Silver		< 0.09	< 0.09	< 0.09	< 0.09	< 0.09
Selenium		< 0.22	< 0.22	< 0.22	< 0.22	< 0.22
Total Mercury by EPA 7470		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997	Sep 4, 1997
Mercury		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
BTEX by EPA 8020		Date Analyzed - Analytical Results				ppm (mg/L - mg/Kg)
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997
Benzene		0.099	< 0.001	8.62	0.441	0.112
Toluene		0.032	< 0.001	2.04	< 0.001	0.119
Ethylbenzene		0.030	< 0.001	1.91	< 0.001	0.060

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QA/QC Manager

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K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

Date Received in Lab : Aug 30, 1997 09:40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID:	172026-010	172026-011	172026-012	172026-013	172026-014				
	Field ID:	MW-12	MW-13	MW-14	MW-15	MW-16				
		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)			
		Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997	Sep 2, 1997				
m,p-Xylenes		0.030	< 0.002	1.35	< 0.002	0.026				
o Xylene		0.013	< 0.001	0.69	< 0.001	0.010				
Total BTEX		0.204	< 0.006	14.61	0.441	0.327				
PAHs by GC-MS (610 List) by EPA 8270		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)			
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997				
Acenaphthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Acenaphthylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Benzo(a)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Benzo(a)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Benzo(b)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Benzo(g,h,i)perylene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Benzo(k)fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Chrysene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Dibenzo(a,h)anthracene		< 0.002	< 0.002	< 0.002	< 0.002	< 0 002				
Fluoranthene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-72026

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

Date Received in Lab : Aug 30, 1997 09:40 by CJT
Date Report Faxed: Sep 8, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:* / *Field ID:*	172026-010 MW-12	172026-011 MW-13	172026-012 MW-14	172026-013 MW-15	172026-014 MW-16				
		Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)			
		Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997	Sep 5, 1997				
Fluorene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Indeno(1,2,3-cd)pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Naphthalene		< 0.002	< 0.002	0.061	0.002	< 0.002				
Phenanthrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				
Pyrene		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18E18

SW846/6010 RCRA Metals

Date Validated: Sep 5, 1997 08:36
Date Analyzed: Sep 4, 1997 12:02
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Arsenic	< 0.222	2.156	2.220	0.222	97.1	70-125	
Barium	< 0.044	1.086	1.110	0.044	97.8	70-125	
Cadmium	< 0.044	0.437	0.444	0.044	98.4	70-125	
Chromium	< 0.056	1.060	1.110	0.056	95.5	70-125	
Lead	< 0.11	2.08	2.22	0.11	93.7	70-125	
Selenium	< 0.222	2.170	2.220	0.222	97.7	70-125	
Silver	< 0.089	0.812	0.888	0.089	91.4	70-125	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18E18

SW846/6010 RCRA Metals

Date Validated: Sep 5, 1997 08:36
Date Analyzed: Sep 4, 1997 12:46
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 172026- 001	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
				QC	LIMITS			QC	LIMITS	
Parameter	Sample Result	Duplicate Result	Method Detection Limit	Relative Difference	Relative Difference	Matrix Spike Result	Matrix Spike Amount	Matrix Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Arsenic	< 0.222	< 0.222	0.222	N.C	25.0	2.094	2.22	94.2	70-125	
Barium	0.811	0.801	0.044	1.2	25.0	1.710	1.11	80.9	70-125	
Cadmium	< 0.044	< 0.044	0.044	N.C	25.0	0.392	0.44	88.2	70-125	
Chromium	< 0.056	< 0.056	0.056	N.C	25.0	1.004	1.11	90.4	70-125	
Lead	< 0.11	< 0.11	0.11	N.C	25.0	1.96	2.2	88.2	70-125	
Selenium	< 0.222	< 0.222	0.222	N.C	25.0	2.043	2.22	91.9	70-125	
Silver	< 0.089	< 0.089	0.089	N.C	25.0	0.753	0.89	84.7	70-125	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A18E18

SW846/6010 RCRA Metals

Date Validated: Sep 5, 1997 08:36
Date Analyzed: Sep 4, 1997 15:21
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: SA
Matrix: Liquid

Q.C. Sample ID 172026- 011	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Parameter	[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Method Detection Limit mg/L	[D] QC Relative Difference %	[E] LIMITS Relative Difference %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H] QC Matrix Spike Recovery %	[I] LIMITS Recovery Range %	[G] Qualifier
Arsenic	< 0.222	< 0.222	0.222	N.C	25.0	1.623	2.22	73 0	70-125	
Barium	0.291	0.296	0.044	1.7	25 0	1.056	1.11	68 9	70-125	A
Cadmium	< 0.044	< 0.044	0.044	N.C	25.0	0.328	0.44	73.8	70-125	
Chromium	< 0.056	< 0.056	0.056	N.C	25.0	0.842	1.11	75.8	70-125	
Lead	< 0.11	< 0.11	0.11	N.C	25.0	1.63	2.2	73.4	70-125	
Selenium	< 0.222	< 0.222	0.222	N.C	25.0	1.729	2.22	77.8	70-125	
Silver	< 0.089	< 0.089	0.089	N.C	25.0	0.666	0.89	74.9	70-125	

(A) Blank spike within acceptance limits.
Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05C39

SW846- 7470 Total Mercury

Date Validated: Sep 5, 1997 12:15
Date Analyzed: Sep 4, 1997 11:49
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Amount mg/L	[D] Method Detection Limit mg/L	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Mercury	< 0.0011	0.0026	0.0028	0.0011	92.9	80-120	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
D. = Below detection limit
results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05C39

SW846- 7470 Total Mercury

Date Validated: Sep 5, 1997 12:15
Date Analyzed: Sep 4, 1997 15:42
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172026- 011	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC LIMITS Relative Difference	[E] QC LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC LIMITS Matrix Spike Recovery	[I] QC LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0010	< 0.0010	0 0010	N.C	20.0	0.0027	0.0028	96.4	80-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A05C39

SW846- 7470 Total Mercury

Date Validated: Sep 5, 1997 12:15
Date Analyzed: Sep 4, 1997 11:53
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: EZ
Matrix: Liquid

	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
Q.C. Sample ID 172026- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC Relative Difference	[E] LIMITS Relative Difference	[F] Matrix Spike Result	[G] Matrix Spike Amount	[H] QC Matrix Spike Recovery	[I] LIMITS Recovery Range	[G] Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	mg/L	mg/L	%	%	
Mercury	< 0.0011	< 0.0011	0.0011	N.C	20.0	0.0024	0.0028	85.7	80-120	

Relative Difference [D] = 200*(B-A)/(B+A)
Matrix Spike Recovery [H] = 100*(F-A)/[G]
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A29C61

SW- 846 5030/8020 BTEX

Date Validated: Sep 3, 1997 11:45
Date Analyzed: Sep 2, 1997 14:51
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 172026- 008	[A] Sample Result	[B] Matrix Spike Result	[C] Matrix Spike Duplicate Result	[D] Matrix Spike Amount	[E] Method Detection Limit	Matrix Limit Relative Difference	[F] QC Spike Relative Difference	[G] QC Matrix Spike Recovery	[H] QC M.S.D. Recovery	[I] Matrix Spike Recovery Range	[J] Qualifier
Parameter	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	
Benzene	0.1230	0.2060	0.2100	0.1000	0.0010	25.0	1.9	83.0	87.0	65-135	
Toluene	0.1460	0.2240	0.2280	0.1000	0.0010	25.0	1.8	78.0	82.0	65-135	
Ethylbenzene	0.1620	0.2440	0.2480	0.1000	0.0010	25.0	1.6	82.0	86.0	65-135	
m,p-Xylenes	0.1100	0.2850	0.2920	0.2000	0.0020	25.0	2.4	87.5	91.0	65-135	
o-Xylene	0.0477	0.1330	0.1360	0.1000	0.0010	25.0	2.2	85.3	88.3	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A29C61

SW- 846 5030/3020 BTEX

Date Validated: Sep 3, 1997 11:45
Date Analyzed: Sep 2, 1997 10:45
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: CE
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] QC LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.0907	0.1000	0.0010	90.7	65-135	
Toluene	< 0.0010	0.0879	0.1000	0.0010	87.9	65-135	
Ethylbenzene	< 0.0010	0.0924	0.1000	0.0010	92.4	65-135	
m,p-Xylenes	< 0.0020	0.1900	0.2000	0.0020	95.0	65-135	
o-Xylene	< 0.0010	0.0886	0.1000	0.0010	88.6	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
[illegible] = Below detection limit
Results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A34E05

SW846-8270 PAHs by GC-MS (610 List)

Date Validated: Sep 5, 1997 17:00
Date Analyzed: Sep 4, 1997 23:31
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: LC
Matrix: Liquid

	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Blank Spike Recovery %	[H] QC B.S.D. Recovery %	[I] Blank Spike Recovery Range %	[J] Qualifier
Acenaphthene	< 0.0040	0.0900	0.0978	0.1000	0.0040	31.0	8.3	90.0	97.8	46-118	
4-Chloro-3-Methylphenol	< 0.0040	0.0820	0.0886	0.1000	0.0040	42.0	7.7	82.0	88.6	23-97	
2-Chlorophenol	< 0.0040	0.0934	0.1006	0.1000	0.0040	40.0	7.4	93.4	100.6	27-123	
1,4-Dichlorobenzene	< 0.0040	0.0942	0.0962	0.1000	0.0040	28.0	2.1	94.2	96.2	36-97	
2,4-Dinitrotoluene	< 0.0040	0.0890	0.0956	0.1000	0.0040	38.0	7.2	89.0	95.6	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.0956	0.1070	0.1000	0.0080	38.0	11.3	95.6	107.0	41-116	
4-Nitrophenol	< 0.0080	0.0324	0.0378	0.1000	0.0080	50.5	15.4	32.4	37.8	10-80	
Pentachlorophenol	< 0.0020	0.0732	0.0878	0.1000	0.0020	50.0	18.1	73.2	87.8	9-103	
Phenol	< 0.0020	0.0490	0.0576	0.1000	0.0020	42.0	16.1	49.0	57.6	12-89	
Pyrene	< 0.0040	0.1104	0.1196	0.1000	0.0040	31.0	8.0	110.0	119.2	26-127	
1,2,4-Trichlorobenzene	< 0.0020	0.0840	0.0954	0.1000	0.0020	28.0	12.7	84.0	95.4	39-98	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Blank Spike Recovery [G] = 100*(B-A)/[D]
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

XENCO COC#: 1-72026
Date Received in Lab: Aug 30, 1997 09:40 by CJT
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
							Sample Collected	Addition Requested	Extraction	Analysis
1	MW-1	172026-001	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:58		Sep 2, 1997 by CE	Sep 2, 1997 18:20 by CE
2			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:58		Sep 4, 1997 by MM	Sep 5, 1997 01:48 by LC
3			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:58		Sep 3, 1997 by EZ	Sep 4, 1997 12:14 by SA
4			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:58		Sep 3, 1997 by EZ	Sep 4, 1997 11:53 by EZ
5	MW-2	172026-002	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:35		Sep 2, 1997 by CE	Sep 2, 1997 13:03 by CE
6			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:35		Sep 4, 1997 by MM	Sep 5, 1997 02:34 by LC
7			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:35		Sep 3, 1997 by EZ	Sep 4, 1997 12:58 by SA
8			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:35		Sep 3, 1997 by EZ	Sep 4, 1997 11:15 by EZ
9	MW-3	172026-003	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:15		Sep 2, 1997 by CE	Sep 2, 1997 13:21 by CE
10			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:15		Sep 4, 1997 by MM	Sep 5, 1997 03:21 by LC
11			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:15		Sep 3, 1997 by EZ	Sep 4, 1997 13:04 by SA
12			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:15		Sep 3, 1997 by EZ	Sep 4, 1997 11:56 by EZ
13	MW-4	172026-004	BTEX	SW-846	ppm	Standard	Aug 28, 1997 13:10		Sep 2, 1997 by CE	Sep 2, 1997 13:39 by CE
14			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 13:10		Sep 4, 1997 by MM	Sep 5, 1997 04:06 by LC
15			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 13:10		Sep 3, 1997 by EZ	Sep 4, 1997 13:10 by SA
16			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 13:10		Sep 3, 1997 by EZ	Sep 4, 1997 11:57 by EZ
17	MW-6	172026-005	BTEX	SW-846	ppm	Standard	Aug 28, 1997 12:00		Sep 2, 1997 by CE	Sep 2, 1997 13:57 by CE
18			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 12:00		Sep 4, 1997 by MM	Sep 5, 1997 04:53 by LC
19			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 12:00		Sep 3, 1997 by EZ	Sep 4, 1997 13:20 by SA
20			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 12:00		Sep 3, 1997 by EZ	Sep 4, 1997 11:58 by EZ
21	MW-7	172026-006	BTEX	SW-846	ppm	Standard	Aug 28, 1997 13:20		Sep 2, 1997 by CE	Sep 2, 1997 18:56 by CE
22			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 13:20		Sep 4, 1997 by MM	Sep 5, 1997 05:40 by LC
23			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 13:20		Sep 3, 1997 by EZ	Sep 4, 1997 13:25 by SA
24			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 13:20		Sep 3, 1997 by EZ	Sep 4, 1997 11:59 by EZ
25	MW-9	172026-007	BTEX	SW-846	ppm	Standard	Aug 28, 1997 11:35		Sep 2, 1997 by CE	Sep 2, 1997 19:13 by CE
26			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 11:35		Sep 4, 1997 by MM	Sep 5, 1997 06:26 by LC
27			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 11:35		Sep 3, 1997 by EZ	Sep 4, 1997 13:31 by SA
28			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 11:35		Sep 3, 1997 by EZ	Sep 4, 1997 15:36 by EZ

XENCO Laboratories

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Chapa
Project Location: SPSAll

Project Name: TNMPL

XENCO COC#: 1-72026
Date Received in Lab: Aug 30, 1997 09:40 by CJT
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
29	MW-10	172026-008	BTEX	SW-846	ppm	Standard	Aug 28, 1997 15:50		Sep 2, 1997 by CE	Sep 2, 1997 14:51 by CE
30			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 15:50		Sep 4, 1997 by MM	Sep 5, 1997 07:13 by LC
31			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 15:50		Sep 3, 1997 by EZ	Sep 4, 1997 13:37 by SA
32			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 15:50		Sep 3, 1997 by EZ	Sep 4, 1997 15:37 by EZ
33	MW-11	172026-009	BTEX	SW-846	ppm	Standard	Aug 28, 1997 15:30		Sep 2, 1997 by CE	Sep 2, 1997 19:31 by CE
34			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 15:30		Sep 4, 1997 by MM	Sep 5, 1997 07:58 by LC
35			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 15:30		Sep 3, 1997 by EZ	Sep 4, 1997 13:43 by SA
36			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 15:30		Sep 3, 1997 by EZ	Sep 4, 1997 15:38 by EZ
37	MW-12	172026-010	BTEX	SW-846	ppm	Standard	Aug 28, 1997 15:15		Sep 2, 1997 by CE	Sep 2, 1997 16:48 by CE
38			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 15:15		Sep 4, 1997 by MM	Sep 5, 1997 08:42 by LC
39			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 15:15		Sep 3, 1997 by EZ	Sep 4, 1997 15:09 by SA
40			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 15:15		Sep 3, 1997 by EZ	Sep 4, 1997 15:39 by EZ
41	MW-13	172026-011	BTEX	SW-846	ppm	Standard	Aug 28, 1997 13:50		Sep 2, 1997 by CE	Sep 2, 1997 17:08 by CE
42			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 13:50		Sep 4, 1997 by MM	Sep 5, 1997 09:26 by LC
43			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 13:50		Sep 3, 1997 by EZ	Sep 4, 1997 15:15 by SA
44			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 13:50		Sep 3, 1997 by EZ	Sep 4, 1997 15:41 by EZ
45	MW-14	172026-012	BTEX	SW-846	ppm	Standard	Aug 28, 1997 14:45		Sep 2, 1997 by CE	Sep 2, 1997 19:49 by CE
46			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 14:45		Sep 4, 1997 by MM	Sep 5, 1997 10:11 by LC
47			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 14:45		Sep 3, 1997 by EZ	Sep 4, 1997 15:33 by SA
48			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 14:45		Sep 3, 1997 by EZ	Sep 4, 1997 15:44 by EZ
49	MW-15	172026-013	BTEX	SW-846	ppm	Standard	Aug 28, 1997 14:25		Sep 2, 1997 by CE	Sep 2, 1997 17:44 by CE
50			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 14:25		Sep 4, 1997 by MM	Sep 5, 1997 11:56 by LC
51			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 14:25		Sep 3, 1997 by EZ	Sep 4, 1997 15:39 by SA
52			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 14:25		Sep 3, 1997 by EZ	Sep 4, 1997 15:46 by EZ
53	MW-16	172026-014	BTEX	SW-846	ppm	Standard	Aug 28, 1997 14:10		Sep 2, 1997 by CE	Sep 2, 1997 18:02 by CE
54			PAHs	SW846-8270	mg/L	Standard	Aug 28, 1997 14:10		Sep 4, 1997 by MM	Sep 5, 1997 12:41 by LC
55			RCRA Metals	SW846/6010	mg/L	Standard	Aug 28, 1997 14:10		Sep 3, 1997 by EZ	Sep 4, 1997 15:44 by SA
56			Mercury, Tot	SW846-7470	mg/L	Standard	Aug 28, 1997 14:10		Sep 3, 1997 by EZ	Sep 4, 1997 15:47 by EZ

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 172026

Contractor: KEI CONSULTANTS Phone: 210) 680-3767

Address: 5309 WURZBACH STE 100, SAN ANTONIO, TX 78238

Project Name: TNMPL Project Director: MIKE HAWTHORN

Project Location: SPSAM Project Manager: MIKE CHAPA

Sampler Signature: Project No. 610099

No. coolers this shipment: 2 Contractor COC #: ?

Carrier: UPS Quote #: —

Airbill No.: N141071111 7 F, N141071112 6 P.O. No.: CALL MIKE HAWTHORN

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	PAH	METALS EPA 6010	Please Hold	LAB ONLY ID #
1	MW-1	8/28/97	1258			X		X	4 LTR VOA	P,G	X	HCL HNO3 NONE	MW-1	4	X		X	X		1
2	MW-2		1235										MW-2							2
3	MW-3		1215										MW-3							3
4	MW-4		1310										MW-4							4
5	MW-6		1200										MW-6							5
6	MW-7		1320										MW-7							6
7	MW-9		1135										MW-9							7
8	MW-10		1580										MW-10							8
9	MW-11		1530										MW-11							9
10	MW-12		1515										MW-12							10

Turn-around: ASAP / 24 hrs / 48 hrs / (Standard)

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	8/28/97	2230			
			Received For Laboratory by	08/30/97	09:40

Remarks: PLEASE RUN METALS USING ICP SCAN, EPA METHOD 6010
FAX COPY OF RESULTS TO MIKE HAWTHORN (S.A. OFFICE)
FAX 680-3763

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 172026

Contractor: KEI CONSULTANTS Phone: (210) 680-3767

Address: 5309 WURZBACH STE 100 SAN ANTONIO, TX 78238

Project Name: TXMPL Project Director: MIKE HAWTHORN

Project Location: SPS-11 Project Manager: MIKE CHAPA

Sampler Signature: Project No.: 610099

No. coolers this shipment: 2 Contractor COC #

Carrier: UPS Quote #: ?

Airbill No.: 1141-0711-11-7 & 1141-0711-12-6 P.O. No.: CALL MIKE HAWTHORN S.A. OFFICE

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative: Ice	Preservative: Other	Sample Description	No of CONTAINERS Total	BTEX (5030/8020-602)	TPH (418.1)	PAH	METALS EPA 6010	Please Hold	LAB ONLY ID #
1	MW-13	8/28/97	1360			X		X	LTK VOA	P,G	X	HCL HNO3 WAVE	MW-13	4	X		X	X		1
2	MW-14		1445										MW-14							2
3	MW-15		1425										MW-15							3
4	MW-16		1410										MW-16							4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10

Unl Dies Ker Unknown

Waste Oil

PIT No: Tank No:

Turn-around
- ASAP
- 24 hrs
- 48 hrs
- Standard

Remarks

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	8/28/97	2230			
			Received For Laboratory by	08/30/97	09:40

Remarks: SEE REMARK PAGE #1

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

ENVIRONMENTAL
LAB OF TEXAS, INC.
"Don't Treat Your Soil Like Dirt!"

KEI CONSULTANTS
ATTN: MS TERESA NIX
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763

Receiving Date: 05/02/97
Sample Type: WATER
Project : 610099, SPS-11
Project Location: HOBBS, LEA COUNTY

Analysis Date: 05/05/97
Sampling Date: 05/01/97
Sample Condition: Intact/Iced

ELT#	FIELD CODE	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYLBENZENE (mg/l)	m,p-XYLENE (mg/l)	o-XYLENE (mg/l)
11086	MW-1	7.788	0.778	1.282	0.536	0.274
11087	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
11088	MW-3	<0.001	<0.001	<0.001	0.001	<0.001
11089	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
11090	MW-6	<0.001	0.001	0.002	0.004	<0.001
11091	MW-7	0.368	0.034	0.206	0.082	0.042
11092	MW-9	6.180	0.019	2.056	1.243	0.140
11093	MW-10	0.184	0.292	0.124	0.118	0.062
11094	MW-11	1.177	<0.001	0.011	0.025	0.002
11095	MW-12	<0.001	0.003	0.001	0.016	0.011
11096	MW-13	<0.001	<0.001	<0.001	<0.001	<0.001
11097	MW-14	9.639	2.414	2.626	1.831	0.938
11098	MW-15	0.004	0.002	0.002	0.003	<0.001
11099	MW-16	0.101	0.090	0.015	0.003	0.009
	% IA	87	89	89	88	87
	% EA	113	98	76	102	121
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8020,5030
Spiked w/ 100 ppb

Michael R. Fowler

5-6-97
Date

MAY 12 1997

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

#051

Project Manager: MIKE STAFFILENO / TERESA NIX
Phone #: 1-800-253-0507
FAX #: 972 484 5719

Company Name & Address: KEI CONSULTANTS

Project #: 610099
Project Name: SPS-11

Project Location: HOBBS, LEA COUNTY
Sampler Signature: Jod W. Brun

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX (8021/5030)	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
110886	MW-1	2		X										5/1	1515	X							
110887	MW-2	2		X										5/1	1650	X							
110888	MW-3	2		X										5/1	1640	X							
110889	MW-4	2		X										5/1	1630	X							
110890	MW-6	2		X										5/1	1655	X							
110891	MW-7	2		X										5/1	1620	X							
110892	MW-9	2		X										5/1	1440	X							
110893	MW-10	2		X										5/1	1605	X							
110894	MW-11	2		X										5/1	1550	X							
110895	MW-12	2		X										5/1	1315	X							
				X																			

Relinquished by:	Date:	Time:	Received by:
Jod W. Brun	5/2/97	1650	Kalen dK Jobe
Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS: P.O.# 1764

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

052

Project Manager: TERESA NIX / MIKE STAFFIELD
Phone #: 1-800-253-0607
FAX #: 972 484 5719

Company Name & Address: KEI CONSULTANTS

Project #: 610099
Project Name: SPS-11

Project Location: HOBBS, NEW
Sampler Signature: Jodi W. Brun

ANALYSIS REQUEST

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX (8020/5030)	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI
11096	MW-13	2		X							X			5/1	1335	X							
11097	MW-14	2		X							X			5/1	1435	X							
11098	MW-15	2		X							X			5/1	1400	X							
11099	MW-16	2		X							X			5/1	1350	X							

Relinquished by:	Date:	Times:	Received by:
Jodi W. Brun	5/2/97	1650	
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS: P.O.# 17604

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #9712171128

Date: 12/17/97

ANALYTICAL REPORT

To: KEI (210) 680-3767
Attn: Paul Hartnett
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. AA88600

Sample Description: Treatment Skid ID #33
Sample collection date: 11/05/97 Sample collection time: 17:00
Submittal date: 11/07/97 Submittal time: 11:22
WSS# 93213 Request ID No. U041945 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
58	EPA 502.2	Expired at Lab	ug/L	0.5	12/17/97	ALB
Volatile	EPA 502.2	due to	ug/L	0.5	12/17/97	ALB
Compounds	EPA 502.2	instrument	ug/L	0.5	12/17/97	ALB
Not determined	EPA 502.2	down.	ug/L	0.5	12/17/97	ALB

Sample I.D. AA88601

Sample Description: Well 11A-PW1 ID #31
Sample collection date: 11/05/97 Sample collection time: 17:23
Submittal date: 11/07/97 Submittal time: 11:22
WSS# 93213 Request ID No. U041947 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
58	EPA 502.2	Expired at Lab	ug/L	0.5	12/17/97	ALB
Volatile	EPA 502.2	due to	ug/L	0.5	12/17/97	ALB
Compounds	EPA 502.2	instument	ug/L	0.5	12/17/97	ALB
Not determined	EPA 502.2	down.	ug/L	0.5	12/17/97	ALB

Sample I.D. **AA88602**

Sample Description: Well 11B-PW12 ID #32
Sample collection date: 11/05/97 Sample collection time: 17:15
Submittal date: 11/07/97 Submittal time: 11:22
WSS# 93213 Request ID No. U041948 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
58	EPA 502.2	Expired at Lab	ug/L	0.5	12/17/97	ALB
Volatile	EPA 502.2	due to	ug/L	0.5	12/17/97	ALB
Compounds	EPA 502.2	instrument	ug/L	0.5	12/17/97	ALB
Not determined	EPA 502.2	down.	ug/L	0.5	12/17/97	ALB

Sample I.D. **AA88700**

Sample Description: Treatment Skid ID #33
Sample collection date: 11/12/97 Sample collection time: 08:10
Submittal date: 11/13/97 Submittal time: 11:43
WSS# 93213 Request ID No. U041949 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
58	EPA 502.2	Expired at Lab	ug/L	0.5	12/17/97	ALB
Volatile	EPA 502.2	due to	ug/L	0.5	12/17/97	ALB
Compounds	EPA 502.2	instrument	ug/L	0.5	12/17/97	ALB
Not determined	EPA 502.2	down.	ug/L	0.5	12/17/97	ALB

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Please advise should you have questions concerning these data.
Respectfully submitted,

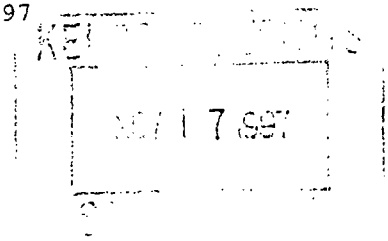
Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #9711135341

Date: 11/13/97



ANALYTICAL REPORT

To: KEI (210) 680-3767
Attn: Paul Hartnett
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. AA88254

Sample Description: Treatment Skid ID #33
Sample collection date: 10/29/97 Sample collection time: 14:04
Submittal date: 10/30/97 Submittal time: 11:43
WSS# 92312 Request ID No. U041946 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC

Sample I.D. AA88254

Sample Description: Treatment Skid ID #33
Sample collection date: 10/29/97 Sample collection time: 14:04
Submittal date: 10/30/97 Submittal time: 11:43
WSS# 92312 Request ID No. U041946 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/31/97	MAC

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Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #9711C50910

Date: 11/05/97

ANALYTICAL REPORT

To: KEI (210) 680-3767
Attn: Paul Hartnett
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. **AA87979**

Sample Description: Treatment Skid ID #33
Sample collection date: 10/21/97 Sample collection time: 07:55
Submittal date: 10/23/97 Submittal time: 11:29
WSS# 92313 Request ID No. U041943 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC

Sample I.D. AA87979

Sample Description: Treatment Skid ID #33
Sample collection date: 10/21/97 Sample collection time: 07:55
Submittal date: 10/23/97 Submittal time: 11:29
WSS# 92313 Request ID No. U041943 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC

Sample I.D. **AA87980**

Sample Description: Treatment Skid ID #33
Sample collection date: 10/22/97 Sample collection time: 08:12
Submittal date: 10/23/97 Submittal time: 11:29
WSS# 92313 Request ID No. U041944 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC

Sample I.D. AA87980

Sample Description: Treatment Skid ID #33
Sample collection date: 10/22/97 Sample collection time: 08:12
Submittal date: 10/23/97 Submittal time: 11:29
WSS# 92313 Request ID No. U041944 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/24/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 10/23/97

ANALYTICAL REPORT

To: KEI 210-680-3767
Attn: Paul Hartnett
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. **AA87854**

Sample Description: Treatment Skid ID #33
Sample collection date: 10/16/97 Sample collection time: 13:30
Submittal date: 10/17/97 Submittal time: 12:46
WSS# 93213 Request ID No. U040709 Collector: BOBBY BLACK
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87854

Sample Description: Treatment Skid ID #33
Sample collection date: 10/16/97 Sample collection time: 13:30
Submittal date: 10/17/97 Submittal time: 12:46
WSS# 93213 Request ID No. U040709 Collector: BOBBY BLACK
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. **AA87875**

Sample Description: Treatment Skid Id #33
Sample collection date: 10/17/97 Sample collection time: 14:35
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U040710 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87875

Sample Description: Treatment Skid Id #33
Sample collection date: 10/17/97 Sample collection time: 14:35
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U040710 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87876

Sample Description: Treatment Skid Id #33
Sample collection date: 10/18/97 Sample collection time: 08:10
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U040711 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87876

Sample Description: Treatment Skid Id #33
Sample collection date: 10/18/97 Sample collection time: 08:10
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U040711 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87877

Sample Description: Treatment Skid Id #33
Sample collection date: 10/19/97 Sample collection time: 08:18
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U041941 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87877

Sample Description: Treatment Skid Id #33
Sample collection date: 10/19/97 Sample collection time: 08:18
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U041941 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87878

Sample Description: Treatment Skid Id #33
Sample collection date: 10/20/97 Sample collection time: 12:35
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U041942 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Sample I.D. AA87878

Sample Description: Treatment Skid Id #33
Sample collection date: 10/20/97 Sample collection time: 12:35
Submittal date: 10/21/97 Submittal time: 09:23
WSS# 93213 Request ID No. U041942 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/21/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/21/97
Reporting Date: 10/28/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Port)

Analysis Date: 10/28/97
Sampling Date: 10/20/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12894	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	103	ND	100
Chloromethane	ND	0.001	89	ND	97
Vinyl chloride	ND	0.001	100	ND	99
Bromomethane	ND	0.001	89	ND	100
Chloroethane	ND	0.001	103	ND	97
Trichlorofluoromethane	ND	0.001	92	ND	102
1,1-Dichloroethene	ND	0.001	102	ND	95
Methylene Chloride	ND	0.001	94	ND	100
trans-1,2-Dichloroethene	ND	0.001	110	ND	99
1,1-Dichloroethane	ND	0.001	112	ND	94
cis-1,2-dichloroethene	ND	0.001	110	ND	98
2,2-dichloropropane	ND	0.001	108	ND	93
Bromochloromethane	ND	0.001	96	ND	101
Tetrahydrofuran	ND	0.001	95	ND	100
Chloroform	ND	0.001	112	ND	95
1,1,1-Trichloroethane	ND	0.001	114	ND	101
Carbon Tetrachloride	ND	0.001	106	ND	96
Benzene	ND	0.001	112	ND	99
1,2 Dichloroethane	ND	0.001	102	ND	98
1,1-Dichloropropene	ND	0.001	109	ND	99
Trichloroethene	ND	0.001	107	ND	101
1,2-Dichloropropane	ND	0.001	111	ND	95
Dibromomethane	ND	0.001	112	ND	95
Bromodichloromethane	ND	0.001	112	ND	93
cis 1,3 Dichloropropene	ND	0.001	116	ND	99
Toluene	ND	0.001	111	ND	97
trans 1,3-Dichloropropene	ND	0.001	101	ND	99
1,1,2-Trichloroethane	ND	0.001	112	ND	96
1,3-Dichloropropane	ND	0.001	111	ND	98
Dibromochloromethane	ND	0.001	90	ND	99
Tetrachloroethene	ND	0.001	101	ND	100
1,2-Dibromomethane	ND	0.001	109	ND	96
Chlorobenzene	ND	0.001	107	ND	102
1,1,1,2-Tetrachloroethane	ND	0.001	103	ND	99

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/21/97
Reporting Date: 10/28/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Port)

Analysis Date: 10/28/97
Sampling Date: 10/20/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12894	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	108	ND	99
m&p Xylene	ND	0.001	108	ND	98
o-Xylene	ND	0.001	105	ND	101
Styrene	ND	0.001	105	ND	102
Bromoform	ND	0.001	95	ND	96
1,1,2,2-Tetrachloroethane	ND	0.001	104	ND	91
Isopropylbenzene	ND	0.001	111	ND	98
1,2,3-Trichloropropane	ND	0.001	107	ND	95
Bromobenzene	ND	0.001	97	ND	95
2-Chlorotoluene	ND	0.001	102	ND	96
Propylbenzene	ND	0.001	103	ND	100
1,3,5-Trimethylbenzene	ND	0.001	110	ND	98
sec-Buytlbenzene	ND	0.001	113	ND	98
4-Chlorotoluene	ND	0.001	98	ND	100
4-Isopropyltoluene	ND	0.001	108	ND	100
1,2,4-Trimethylbenzene	ND	0.001	101	ND	99
1,3-Dichlorobenzene	ND	0.001	109	ND	100
1,4-Dichlorobenzene	ND	0.001	109	ND	104
tert-Butylbenzene	ND	0.001	113	ND	100
1,2-Dichlorobenzene	ND	0.001	111	ND	97
n-Butylbenzene	ND	0.001	102	ND	99
1,2-Dibromo-3-Chloropropane	ND	0.001	102	ND	92
1,2,3-Trichlorobenzene	ND	0.001	108	ND	96
Napthalene	ND	0.001	107	ND	97
Hexachlorobutadiene	ND	0.001	106	ND	89
1,2,4-Trichlorobenzene	ND	0.001	107	ND	117

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	103
Toluene-d8	85
4-Bromofluorobenzene	101

ND=Not Detected

Michael R. Fowler

10-28-97
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Paul Hartnett
Phone #: 210-680-3767
FAX #: 210-680-3763
Company Name & Address: KFT Interback Suite 100 San Antonio Tx 78238
Project #: SPS-11 410095
Project Name:
Project Location:
Sampler Signature: Bobby K. Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	Ict T
128514	Treatment Skid Effluent pit	2	40ml	X					X		X			10-20-97	1230									X

Relinquished by:	Date:	Times:	Received by:
Bobby K Blackwood	10-21-97	1140	Robin dk Jones
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS

Please fax copy of results to Bobby at 505-396-2754

ENVIRONMENTAL LAB OF , INC.

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KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/21/97
Reporting Date: 10/28/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Port)

Analysis Date: 10/28/97
Sampling Date: 10/18/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12893	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	103	ND	100
Chloromethane	ND	0.001	89	ND	97
Vinyl chloride	ND	0.001	100	ND	99
Bromomethane	ND	0.001	89	ND	100
Chloroethane	ND	0.001	103	ND	97
Trichlorofluoromethane	ND	0.001	92	ND	102
1,1-Dichloroethene	ND	0.001	102	ND	95
Methylene Chloride	ND	0.001	94	ND	100
trans-1,2-Dichloroethene	ND	0.001	110	ND	99
1,1-Dichloroethane	ND	0.001	112	ND	94
cis-1,2-dichloroethene	ND	0.001	110	ND	98
2,2-dichloropropane	ND	0.001	108	ND	93
Bromochloromethane	ND	0.001	96	ND	101
Tetrahydrofuran	ND	0.001	95	ND	100
Chloroform	ND	0.001	112	ND	95
1,1,1-Trichloroethane	ND	0.001	114	ND	101
Carbon Tetrachloride	ND	0.001	106	ND	96
Benzene	ND	0.001	112	ND	99
1,2 Dichloroethane	ND	0.001	102	ND	98
1,1-Dichloropropene	ND	0.001	109	ND	99
Trichloroethene	ND	0.001	107	ND	101
1,2-Dichloropropane	ND	0.001	111	ND	95
Dibromomethane	ND	0.001	112	ND	95
Bromodichloromethane	ND	0.001	112	ND	93
cis 1,3 Dichloropropene	ND	0.001	116	ND	99
Toluene	ND	0.001	111	ND	97
trans 1,3-Dichloropropene	ND	0.001	101	ND	99
1,1,2-Trichloroethane	ND	0.001	112	ND	96
1,3-Dichloropropane	ND	0.001	111	ND	98
Dibromochloromethane	ND	0.001	90	ND	99
Tetrachloroethene	ND	0.001	101	ND	100
1,2-Dibromomethane	ND	0.001	109	ND	96
Chlorobenzene	ND	0.001	107	ND	102
1,1,1,2-Tetrachloroethane	ND	0.001	103	ND	99

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/21/97
Reporting Date: 10/28/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Port)

Analysis Date: 10/28/97
Sampling Date: 10/18/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12893	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	108	ND	99
m&p Xylene	ND	0.001	108	ND	98
o-Xylene	ND	0.001	105	ND	101
Styrene	ND	0.001	105	ND	102
Bromoform	ND	0.001	95	ND	96
1,1,2,2-Tetrachloroethane	ND	0.001	104	ND	91
Isopropylbenzene	ND	0.001	111	ND	98
1,2,3-Trichloropropane	ND	0.001	107	ND	95
Bromobenzene	ND	0.001	97	ND	95
2-Chlorotoluene	ND	0.001	102	ND	96
Propylbenzene	ND	0.001	103	ND	100
1,3,5-Trimethylbenzene	ND	0.001	110	ND	98
sec-Buytlbenzene	ND	0.001	113	ND	98
4-Chlorotoluene	ND	0.001	98	ND	100
4-Isopropyltoluene	ND	0.001	108	ND	100
1,2,4-Trimethylbenzene	ND	0.001	101	ND	99
1,3-Dichlorobenzene	ND	0.001	109	ND	100
1,4-Dichlorobenzene	ND	0.001	109	ND	104
tert-Butylbenzene	ND	0.001	113	ND	100
1,2-Dichlorobenzene	ND	0.001	111	ND	97
n-Butylbenzene	ND	0.001	102	ND	99
1,2-Dibromo-3-Chloropropane	ND	0.001	102	ND	92
1,2,3-Trichlorobenzene	ND	0.001	108	ND	96
Napthalene	ND	0.001	107	ND	97
Hexachlorobutadiene	ND	0.001	108	ND	89
1,2,4-Trichlorobenzene	ND	0.001	107	ND	117

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	104
Toluene-d8	96
4-Bromofluorobenzene	100

ND=Not Detected

Michael R. Fowler

Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Paul Hartnett
Phone #: 210-680-3767
FAX #: 210-680-3763

Company Name & Address: KFT Wurzbach Suite 100 San Antonio TX 78238

Project #: SPS-11 610099
Project Name:

Project Location:
Sampler Signature: Bobby K. Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME
12893	Treatment Skid Effluent port	2	40ml	X					X		X			10-18-97	0840

ANALYSIS REQUEST

BTEX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	VOC

Relinquished by:	Date:	Times:	Received by:
Bobby K. Blackwood	10-21-97	1140	Rachel Kelly
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS: Please fax copy of results to Bobby at 505-370-2754

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/21/97
Reporting Date: 10/28/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Port)

Analysis Date: 10/28/97
Sampling Date: 10/16/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12892	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	103	ND	100
Chloromethane	ND	0.001	89	ND	97
Vinyl chloride	ND	0.001	100	ND	99
Bromomethane	ND	0.001	89	ND	100
Chloroethane	ND	0.001	103	ND	97
Trichlorofluoromethane	ND	0.001	92	ND	102
1,1-Dichloroethene	ND	0.001	102	ND	95
Methylene Chloride	ND	0.001	94	ND	100
trans-1,2-Dichloroethene	ND	0.001	110	ND	99
1,1-Dichloroethane	ND	0.001	112	ND	94
cis-1,2-dichloroethene	ND	0.001	110	ND	98
2,2-dichloropropane	ND	0.001	108	ND	93
Bromochloromethane	ND	0.001	96	ND	101
Tetrahydrofuran	ND	0.001	95	ND	100
Chloroform	ND	0.001	112	ND	95
1,1,1-Trichloroethane	ND	0.001	114	ND	101
Carbon Tetrachloride	ND	0.001	106	ND	96
Benzene	ND	0.001	112	ND	99
1,2 Dichloroethane	ND	0.001	102	ND	98
1,1-Dichloropropene	ND	0.001	109	ND	99
Trichloroethene	ND	0.001	107	ND	101
1,2-Dichloropropane	ND	0.001	111	ND	95
Dibromomethane	ND	0.001	112	ND	95
Bromodichloromethane	ND	0.001	112	ND	93
cis 1,3 Dichloropropene	ND	0.001	116	ND	99
Toluene	ND	0.001	111	ND	97
trans 1,3-Dichloropropene	ND	0.001	101	ND	99
1,1,2-Trichloroethane	ND	0.001	112	ND	96
1,3-Dichloropropane	ND	0.001	111	ND	98
Dibromochloromethane	ND	0.001	90	ND	99
Tetrachloroethene	ND	0.001	101	ND	100
1,2-Dibromomethane	ND	0.001	109	ND	96
Chlorobenzene	ND	0.001	107	ND	102
1,1,1,2-Tetrachloroethane	ND	0.001	103	ND	99

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/21/97
Reporting Date: 10/28/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Port)

Analysis Date: 10/28/97
Sampling Date: 10/16/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12892	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	108	ND	99
m&p Xylene	ND	0.001	108	ND	98
o-Xylene	ND	0.001	105	ND	101
Styrene	ND	0.001	105	ND	102
Bromoform	ND	0.001	95	ND	96
1,1,2,2-Tetrachloroethane	ND	0.001	104	ND	91
Isopropylbenzene	ND	0.001	111	ND	98
1,2,3-Trichloropropane	ND	0.001	107	ND	95
Bromobenzene	ND	0.001	97	ND	95
2-Chlorotoluene	ND	0.001	102	ND	96
Propylbenzene	ND	0.001	103	ND	100
1,3,5-Trimethylbenzene	ND	0.001	110	ND	98
sec-Buytlbenzene	ND	0.001	113	ND	98
4-Chlorotoluene	ND	0.001	98	ND	100
4-Isopropyltoluene	ND	0.001	108	ND	100
1,2,4-Trimethylbenzene	ND	0.001	101	ND	99
1,3-Dichlorobenzene	ND	0.001	109	ND	100
1,4-Dichlorobenzene	ND	0.001	109	ND	104
tert-Butylbenzene	ND	0.001	113	ND	100
1,2-Dichlorobenzene	ND	0.001	111	ND	97
n-Butylbenzene	ND	0.001	102	ND	99
1,2-Dibromo-3-Chloropropane	ND	0.001	102	ND	92
1,2,3-Trichlorobenzene	ND	0.001	108	ND	96
Napthalene	ND	0.001	107	ND	97
Hexachlorobutadiene	ND	0.001	108	ND	89
1,2,4-Trichlorobenzene	ND	0.001	107	ND	117

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	100
Toluene-d8	106
4-Bromofluorobenzene	99

NID=Not Detected

Michael R. Fowler

10-28-97
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Paul Hartnett

Phone #: 210-680-3767

FAX #: 210-680-3763

Company Name & Address: KET Wurzbach Suite 100 San Antonio Tx 78238

Project #: SPS II 6116099

Project Name:

Project Location:

Sampler Signature: Bobby R. Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	VOCs
12892	Treatment Skid Effluent Port	2	40ml	X					X		X			10.21.97	1335									X

Relinquished by: Bobby R Blackwood — **Date:** 10-21-97 — **Times:** 1140 — **Received by:** Rula Deeb

Relinquished by: — **Date:** — **Times:** — **Received by:**

Relinquished by: — **Date:** — **Times:** — **Received by Laboratory:**

REMARKS

Please fax copy of results to Bobby At 505-396-2754

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 10/20/97

ANALYTICAL REPORT

To: KEI (210)680-3767
Attn: Paul Hartnett
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. **AA87839**

Sample Description: Treatment Skid ID #33
Sample collection date: 10/15/97 Sample collection time: 06:30
Submittal date: 10/16/97 Submittal time: 14:11
WSS# 93213 Request ID No. U040708 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87839

Sample Description: Treatment Skid ID #33
Sample collection date: 10/15/97 Sample collection time: 06:30
Submittal date: 10/16/97 Submittal time: 14:11
WSS# 93213 Request ID No. U040708 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 10/16/97

KEI CONSULTANTS
OCT 20 1997

ANALYTICAL REPORT

To: KEI (210) 680-3767
Attn: Paul Hartnett
5309 Wurbach, Suite 100
San Antonio, TX 78238

Purchase Order # 7370

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. AA87697

Sample Description: Treatment Skid ID #33
Sample collection date: 10/10/97 Sample collection time: 08:35
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040703 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87697

Sample Description: Treatment Skid ID #33
Sample collection date: 10/10/97 Sample collection time: 08:35
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040703 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. **AA87698**

Sample Description: Treatment Skid ID #33
Sample collection date: 10/11/97 Sample collection time: 10:10
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040704 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87698

Sample Description: Treatment Skid ID #33
Sample collection date: 10/11/97 Sample collection time: 10:10
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040704 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87699

Sample Description: Treatment Skid ID #33
Sample collection date: 10/12/97 Sample collection time: 09:03
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040705 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87699

Sample Description: Treatment Skid ID #33
Sample collection date: 10/12/97 Sample collection time: 09:03
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040705 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87700

Sample Description: Treatment Skid ID #33
Sample collection date: 10/13/97 Sample collection time: 06:30
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040706 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. **AA87700**

Sample Description: Treatment Skid ID #33
Sample collection date: 10/13/97 Sample collection time: 06:30
Submittal date: 10/14/97 Submittal time: 10:36
WSS# 93213 Request ID No. U040706 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. **AA87739**

Sample Description: Treatment Skid Id #33
Sample collection date: 10/14/97 Sample collection time: 13:30
Submittal date: 10/15/97 Submittal time: 10:24
WSS# 93213 Request ID No. U040707 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Sample I.D. AA87739

Sample Description: Treatment Skid Id #33
Sample collection date: 10/14/97 Sample collection time: 13:30
Submittal date: 10/15/97 Submittal time: 10:24
WSS# 93213 Request ID No. U040707 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/14/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/14/97
Reporting Date: 10/15/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Sample Port)

Analysis Date: 10/15/97
Sampling Date: 10/12/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12858	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	89	ND	84
Chloromethane	ND	0.001	93	ND	93
Vinyl chloride	ND	0.001	102	ND	101
Bromomethane	ND	0.001	96	ND	92
Chloroethane	ND	0.001	104	ND	96
Trichlorofluoromethane	ND	0.001	97	ND	92
1,1-Dichloroethene	ND	0.001	92	ND	98
Methylene Chloride	ND	0.001	87	ND	94
trans-1,2-Dichloroethene	ND	0.001	97	ND	104
1,1-Dichloroethane	ND	0.001	100	ND	109
cis-1,2-dichloroethene	ND	0.001	101	ND	109
2,2-dichloropropane	ND	0.001	102	ND	108
Bromochloromethane	ND	0.001	96	ND	99
Tetrahydrofuran	ND	0.001	105	ND	92
Chloroform	ND	0.001	100	ND	106
1,1,1-Trichloroethane	ND	0.001	101	ND	111
Carbon Tetrachloride	ND	0.001	98	ND	104
Benzene	ND	0.001	102	ND	107
1,2 Dichloroethane	ND	0.001	91	ND	99
1,1-Dichloropropene	ND	0.001	104	ND	116
Trichloroethene	ND	0.001	96	ND	105
1,2-Dichloropropane	ND	0.001	102	ND	109
Dibromomethane	ND	0.001	105	ND	109
Bromodichloromethane	ND	0.001	119	ND	103
cis 1,3 Dichloropropene	ND	0.001	108	ND	115
Toluene	ND	0.001	100	ND	108
trans 1,3-Dichloropropene	ND	0.001	95	ND	100
1,1,2-Trichloroethane	ND	0.001	102	ND	105
1,3-Dichloropropane	ND	0.001	104	ND	107
Dibromochloromethane	ND	0.001	95	ND	92
Tetrachloroethene	ND	0.001	95	ND	103
1,2-Dibromomethane	ND	0.001	104	ND	106
Chlorobenzene	ND	0.001	97	ND	109
1,1,1,2-Tetrachloroethane	ND	0.001	95	ND	101

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/18/97
Reporting Date: 10/15/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Sample Port)

Analysis Date: 10/15/97
Sampling Date: 10/12/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12858	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	98	ND	108
m&p Xylene	ND	0.001	96	ND	107
o-Xylene	ND	0.001	97	ND	109
Styrene	ND	0.001	94	ND	98
Bromoform	ND	0.001	93	ND	91
1,1,2,2-Tetrachloroethane	ND	0.001	93	ND	97
Isopropylbenzene	ND	0.001	96	ND	106
1,2,3-Trichloropropane	ND	0.001	99	ND	113
Bromobenzene	ND	0.001	94	ND	97
2-Chlorotoluene	ND	0.001	94	ND	103
Propylbenzene	ND	0.001	116	ND	127
1,3,5-Trimethylbenzene	ND	0.001	95	ND	108
sec-Buytlbenzene	ND	0.001	94	ND	110
4-Chlorotoluene	ND	0.001	109	ND	124
4-Isopropyltoluene	ND	0.001	94	ND	110
1,2,4-Trimethylbenzene	ND	0.001	92	ND	113
1,3-Dichlorobenzene	ND	0.001	91	ND	107
1,4-Dichlorobenzene	ND	0.001	90	ND	103
tert-Butylbenzene	ND	0.001	97	ND	113
1,2-Dichlorobenzene	ND	0.001	91	ND	101
n-Butylbenzene	ND	0.001	99	ND	116
1,2-Dibromo-3-Chloropropane	ND	0.001	94	ND	96
1,2,3-Trichlorobenzene	ND	0.001	103	ND	117
Napthalene	ND	0.001	91	ND	109
Hexachlorobutadiene	ND	0.001	90	ND	99
1,2,4-Trichlorobenzene	ND	0.001	98	ND	106

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	110
Toluene-d8	102
4-Bromofluorobenzene	115

ND=Not Detected

Michael R. Fowler

10-16-97
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: PAUL HARTNETT
Phone #: 210-680-3767
FAX #: 210-680-3263

Company Name & Address: KET Wurzbach Suite 100 San Antonio TX 78238

Project #: SPS-11 410099
Project Name:

Project Location:
Sampler Signature: Bobby R. Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	VOA
12858	Treatment Skid Effluent pit	2	40ml	X					X		X			10-12-97	0910									X

Relinquished by:	Date:	Times:	Received by:
Bobby R Blackwood	10-14-97	0750	Stanley Hoover
Relinquished by:	Date:	Times:	Received by:
Stanley Hoover	10/14/97	1302	Paula K. Kelly
Relinquished by:	Date:	Times:	Received by Laboratory:

REMARKS
Please fax a copy of results to Bobby Blackwood @ 396-2754

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/10/97
Reporting Date: 10/15/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Sample Port)

Analysis Date: 10/15/97
Sampling Date: 10/10/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12802	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	89	ND	84
Chloromethane	ND	0.001	93	ND	93
Vinyl chloride	ND	0.001	102	ND	101
Bromomethane	ND	0.001	96	ND	92
Chloroethane	ND	0.001	104	ND	96
Trichlorofluoromethane	ND	0.001	97	ND	92
1,1-Dichloroethene	ND	0.001	92	ND	98
Methylene Chloride	ND	0.001	87	ND	94
trans-1,2-Dichloroethene	ND	0.001	97	ND	104
1,1-Dichloroethane	ND	0.001	100	ND	109
cis-1,2-dichloroethene	ND	0.001	101	ND	109
2,2-dichloropropane	ND	0.001	102	ND	108
Bromochloromethane	ND	0.001	96	ND	99
Tetrahydrofuran	ND	0.001	105	ND	92
Chloroform	ND	0.001	100	ND	106
1,1,1-Trichloroethane	ND	0.001	101	ND	111
Carbon Tetrachloride	ND	0.001	98	ND	104
Benzene	ND	0.001	102	ND	107
1,2 Dichloroethane	ND	0.001	91	ND	99
1,1-Dichloropropene	ND	0.001	104	ND	116
Trichloroethene	ND	0.001	96	ND	105
1,2-Dichloropropane	ND	0.001	102	ND	109
Dibromomethane	ND	0.001	105	ND	109
Bromodichloromethane	ND	0.001	119	ND	103
cis 1,3 Dichloropropene	ND	0.001	108	ND	115
Toluene	ND	0.001	100	ND	108
trans 1,3-Dichloropropene	ND	0.001	95	ND	100
1,1,2-Trichloroethane	ND	0.001	102	ND	105
1,3-Dichloropropane	ND	0.001	104	ND	107
Dibromochloromethane	ND	0.001	95	ND	92
Tetrachloroethene	ND	0.001	95	ND	103
1,2-Dibromomethane	ND	0.001	104	ND	106
Chlorobenzene	ND	0.001	97	ND	109
1,1,1,2-Tetrachloroethane	ND	0.001	95	ND	101

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/10/97
Reporting Date: 10/15/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Sample Port)

Analysis Date: 10/15/97
Sampling Date: 10/10/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12802	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	98	ND	108
m&p Xylene	ND	0.001	96	ND	107
o-Xylene	ND	0.001	97	ND	109
Styrene	ND	0.001	94	ND	98
Bromoform	ND	0.001	93	ND	91
1,1,2,2-Tetrachloroethane	ND	0.001	93	ND	97
Isopropylbenzene	ND	0.001	96	ND	106
1,2,3-Trichloropropane	ND	0.001	99	ND	113
Bromobenzene	ND	0.001	94	ND	97
2-Chlorotoluene	ND	0.001	94	ND	103
Propylbenzene	ND	0.001	116	ND	127
1,3,5-Trimethylbenzene	ND	0.001	95	ND	108
sec-Buytlbenzene	ND	0.001	94	ND	110
4-Chlorotoluene	ND	0.001	109	ND	124
4-Isopropyltoluene	ND	0.001	94	ND	110
1,2,4-Trimethylbenzene	ND	0.001	92	ND	113
1,3-Dichlorobenzene	ND	0.001	91	ND	107
1,4-Dichlorobenzene	ND	0.001	90	ND	103
tert-Butylbenzene	ND	0.001	97	ND	113
1,2-Dichlorobenzene	ND	0.001	91	ND	101
n-Butylbenzene	ND	0.001	99	ND	116
1,2-Dibromo-3-Chloropropane	ND	0.001	94	ND	96
1,2,3-Trichlorobenzene	ND	0.001	103	ND	117
Napthalene	ND	0.001	91	ND	109
Hexachlorobutadiene	ND	0.001	90	ND	99
1,2,4-Trichlorobenzene	ND	0.001	98	ND	106

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	104
Toluene-d8	94
4-Bromofluorobenzene	108

ND=Not Detected

Michael R. Fowler

10-16-97
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: PAUL HARTNETT
Phone #: 210-680-3767
FAX #: 210-680-3763
Company Name & Address: KEI Wurzbach Suite 100 San Antonio Tx 78232
Project #:
Project Name:
Project Location: SPS-11 #10099
Sampler Signature: Bobby R Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	BTEX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	VOC I
12802	Treatment skid (Effluent sample) point	2	40ml	X					X		X			10-10-97	0830									X

Relinquished by: Bobby R Blackwood — Date: 10-10-97 — Time: 0911 — Received by: R. White
Relinquished by: R. White — Date: 10-10-97 — Time: 1300 — Received by: Paul Hartnett
Relinquished by: — Date: — Time: — Received by Laboratory:

REMARKS: Fax copy of Results to Bobby Blackwood 505-376-2754

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/15/97
Reporting Date: 10/15/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Sample Port)

Analysis Date: 10/15/97
Sampling Date: 10/14/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12869	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	89	ND	84
Chloromethane	ND	0.001	93	ND	93
Vinyl chloride	ND	0.001	102	ND	101
Bromomethane	ND	0.001	96	ND	92
Chloroethane	ND	0.001	104	ND	96
Trichlorofluoromethane	ND	0.001	97	ND	92
1,1-Dichloroethene	ND	0.001	92	ND	98
Methylene Chloride	ND	0.001	87	ND	94
trans-1,2-Dichloroethene	ND	0.001	97	ND	104
1,1-Dichloroethane	ND	0.001	100	ND	109
cis-1,2-dichloroethene	ND	0.001	101	ND	109
2,2-dichloropropane	ND	0.001	102	ND	108
Bromochloromethane	ND	0.001	96	ND	99
Tetrahydrofuran	ND	0.001	105	ND	92
Chloroform	ND	0.001	100	ND	106
1,1,1-Trichloroethane	ND	0.001	101	ND	111
Carbon Tetrachloride	ND	0.001	98	ND	104
Benzene	ND	0.001	102	ND	107
1,2 Dichloroethane	ND	0.001	91	ND	99
1,1-Dichloropropene	ND	0.001	104	ND	116
Trichloroethene	ND	0.001	96	ND	105
1,2-Dichloropropane	ND	0.001	102	ND	109
Dibromomethane	ND	0.001	105	ND	109
Bromodichloromethane	ND	0.001	119	ND	103
cis 1,3 Dichloropropene	ND	0.001	108	ND	115
Toluene	ND	0.001	100	ND	108
trans 1,3-Dichloropropene	ND	0.001	95	ND	100
1,1,2-Trichloroethane	ND	0.001	102	ND	105
1,3-Dichloropropane	ND	0.001	104	ND	107
Dibromochloromethane	ND	0.001	95	ND	92
Tetrachloroethene	ND	0.001	95	ND	103
1,2-Dibromomethane	ND	0.001	104	ND	106
Chlorobenzene	ND	0.001	97	ND	109
1,1,1,2-Tetrachloroethane	ND	0.001	95	ND	101

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/15/97
Reporting Date: 10/15/97
Project Name: 610099
Project Location: SPS-11
Field Code: TREATMENT SKID(Effluent Sample Port)

Analysis Date: 10/15/97
Sampling Date: 10/14/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12869	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	98	ND	108
m&p Xylene	ND	0.001	96	ND	107
o-Xylene	ND	0.001	97	ND	109
Styrene	ND	0.001	94	ND	98
Bromoform	ND	0.001	93	ND	91
1,1,2,2-Tetrachloroethane	ND	0.001	93	ND	97
Isopropylbenzene	ND	0.001	96	ND	106
1,2,3-Trichloropropane	ND	0.001	99	ND	113
Bromobenzene	ND	0.001	94	ND	97
2-Chlorotoluene	ND	0.001	94	ND	103
Propylbenzene	ND	0.001	116	ND	127
1,3,5-Trimethylbenzene	ND	0.001	95	ND	108
sec-Buytlbenzene	ND	0.001	94	ND	110
4-Chlorotoluene	ND	0.001	109	ND	124
4-Isopropyltoluene	ND	0.001	94	ND	110
1,2,4-Trimethylbenzene	ND	0.001	92	ND	113
1,3-Dichlorobenzene	ND	0.001	91	ND	107
1,4-Dichlorobenzene	ND	0.001	90	ND	103
tert-Butylbenzene	ND	0.001	97	ND	113
1,2-Dichlorobenzene	ND	0.001	91	ND	101
n-Butylbenzene	ND	0.001	99	ND	116
1,2-Dibromo-3-Chloropropane	ND	0.001	94	ND	96
1,2,3-Trichlorobenzene	ND	0.001	103	ND	117
Napthalene	ND	0.001	91	ND	109
Hexachlorobutadiene	ND	0.001	90	ND	99
1,2,4-Trichlorobenzene	ND	0.001	98	ND	106

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	103
Toluene-d8	99
4-Bromofluorobenzene	102

ND=Not Detected

Michael R. Fowler

Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Paul Hartnett
Phone #: 210-680-3767
FAX #: 210-680-3763

Company Name & Address: KFT Wurzbach. Suite 100 San Antonio TX 78238

Project #: SPS-11 610099
Project Name:

Project Location:
Sampler Signature: Bobby R. Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME
122609	TREATMENT SKID EFFLUENT PORT	2	40ml	X					X		X			10-14-97	1330

BTEX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	VOC H
								X

Relinquished by:	Date:	Times:	Received by:
Bobby R Blackwood	10-10-97	1510	CA McDonald
[illegible]	10-15-97	9:30	[illegible]
[illegible]	10-15-97	1:38	[illegible]

Received by Laboratory: [illegible]

REMARKS

Please fax copy of results to Bobby at 505-396-2754

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report # 97102831

Date: 10/23/97

ANALYTICAL REPORT

To: KEI
Attn: Paul Hartnett
5309 Wurzback, Suite 100
San Antonio, TX 78238

Purchase Order # 7370

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. **AA87641**

Sample Description: 113-PW2 ID #32
Sample collection date: 10/08/97 Sample collection time: 09:20
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040699 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	2.5	ug/L	0.5	10/10/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC

Sample I.D. **AA87641**

Sample Description: 11B-PW2 ID #32
Sample collection date: 10/08/97 Sample collection time: 09:20
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040699 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Xylenes	EPA 502.2	0.5	ug/L	0.5	10/10/97	MAC

Sample I.D. AA87642

Sample Description: 11A-PW1 ID #31
Sample collection date: 10/08/97 Sample collection time: 09:30
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040700 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	3.2	ug/L	0.5	10/10/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Ethylbenzene	EPA 502.2	0.6	ug/L	0.5	10/10/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC

Sample I.D. AA87642

Sample Description: 11A-PW1 ID #31
Sample collection date: 10/08/97 Sample collection time: 09:30
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040700 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Xylenes	EPA 502.2	0.75	ug/L	0.5	10/10/97	MAC

Sample I.D. AA87643

Sample Description: Treatment Skid ID #33
Sample collection date: 10/08/97 Sample collection time: 09:20
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040701 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC

Sample I.D. AA87643

Sample Description: Treatment Skid ID #33
Sample collection date: 10/08/97 Sample collection time: 09:20
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040701 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC

Sample I.D. AA87644

Sample Description: Treatment Skid ID #33
Sample collection date: 10/09/97 Sample collection time: 08:15
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040702 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC

Sample I.D. AA87644

Sample Description: Treatment Skid ID #33
Sample collection date: 10/09/97 Sample collection time: 08:15
Submittal date: 10/10/97 Submittal time: 10:31
WSS# 93213 Request ID No. U040702 Collector: B. BLACKWWO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	10/10/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI CONSULTING
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763

Receiving Date: 10/09/97
Reporting Date: 10/15/97
Project Name: SPS-11
Project Location: SPS-11
Field Code: TREATMENT SKID ID #33

Analysis Date: 10/15/97
Sampling Date: 10/08/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12795	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	89	ND	84
Chloromethane	ND	0.001	93	ND	93
Vinyl chloride	ND	0.001	102	ND	101
Bromomethane	ND	0.001	96	ND	92
Chloroethane	ND	0.001	104	ND	96
Trichlorofluoromethane	ND	0.001	97	ND	92
1,1-Dichloroethene	ND	0.001	92	ND	98
Methylene Chloride	ND	0.001	87	ND	94
trans-1,2-Dichloroethene	ND	0.001	97	ND	104
1,1-Dichloroethane	ND	0.001	100	ND	109
cis-1,2-dichloroethene	ND	0.001	101	ND	109
2,2-dichloropropane	ND	0.001	102	ND	108
Bromochloromethane	ND	0.001	96	ND	99
Tetrahydrofuran	ND	0.001	105	ND	92
Chloroform	ND	0.001	100	ND	106
1,1,1-Trichloroethane	ND	0.001	101	ND	111
Carbon Tetrachloride	ND	0.001	98	ND	104
Benzene	ND	0.001	102	ND	107
1,2 Dichloroethane	ND	0.001	91	ND	99
1,1-Dichloropropene	ND	0.001	104	ND	116
Trichloroethene	ND	0.001	96	ND	105
1,2-Dichloropropane	ND	0.001	102	ND	109
Dibromomethane	ND	0.001	105	ND	109
Bromodichloromethane	ND	0.001	119	ND	103
cis 1,3 Dichloropropene	ND	0.001	108	ND	115
Toluene	ND	0.001	100	ND	108
trans 1,3-Dichloropropene	ND	0.001	95	ND	100
1,1,2-Trichloroethane	ND	0.001	102	ND	105
1,3-Dichloropropane	ND	0.001	104	ND	107
Dibromochloromethane	ND	0.001	95	ND	92
Tetrachloroethene	ND	0.001	95	ND	103
1,2-Dibromomethane	ND	0.001	104	ND	106
Chlorobenzene	ND	0.001	97	ND	109
1,1,1,2-Tetrachloroethane	ND	0.001	95	ND	101

KEI CONSULTING
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763

Receiving Date: 10/09/97
Reporting Date: 10/15/97
Project Name: SPS-11
Project Location: SPS-11
Field Code: TREATMENT SKID ID #33

Analysis Date: 10/15/97
Sampling Date: 10/08/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12795	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	98	ND	108
m&p Xylene	ND	0.001	96	ND	107
o-Xylene	ND	0.001	97	ND	109
Styrene	ND	0.001	94	ND	98
Bromoform	ND	0.001	93	ND	91
1,1,2,2-Tetrachlorcethane	ND	0.001	93	ND	97
Isoprcpylbenzene	ND	0.001	96	ND	106
1,2,3-Trichloropropane	ND	0.001	99	ND	113
Bromobenzene	ND	0.001	94	ND	97
2-Chlorotoluene	ND	0.001	94	ND	103
Propylbenzene	ND	0.001	116	ND	127
1,3,5-Trimethylbenzene	ND	0.001	95	ND	108
sec-Buytlbenzene	ND	0.001	94	ND	110
4-Chlorotoluene	ND	0.001	109	ND	124
4-Isopropyltcluene	ND	0.001	94	ND	110
1,2,4-Trimethylbenzene	ND	0.001	92	ND	113
1,3-Dichlorobenzene	ND	0.001	91	ND	107
1,4-Dichlorobenzene	ND	0.001	90	ND	103
tert-Butylbenzene	ND	0.001	97	ND	113
1,2-Dichlorobenzene	ND	0.001	91	ND	101
n-Butylbenzene	ND	0.001	99	ND	116
1,2-Dibromo-3-Chloropropane	ND	0.001	94	ND	96
1,2,3-Trichlorobenzene	ND	0.001	103	ND	117
Napthalene	ND	0.001	91	ND	109
Hexachlorobutadiene	ND	0.001	90	ND	99
1,2,4-Trichlorobenzene	ND	0.001	98	ND	106

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	99
Toluene-d8	94
4-Bromofluorobenzene	99

ND=Not Detected

Michael R. Fowler

10-16-97
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/09/97
Reporting Date: 10/15/97
Project Name: SPS-11
Project Location: SPS-11
Field Code: PW-1 11A ID#31

Analysis Date: 10/15/97
Sampling Date: 10/08/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12796	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	89	ND	84
Chloromethane	ND	0.001	93	ND	93
Vinyl chloride	ND	0.001	102	ND	101
Bromomethane	ND	0.001	96	ND	92
Chloroethane	ND	0.001	104	ND	96
Trichlorofluoromethane	ND	0.001	97	ND	92
1,1-Dichloroethene	ND	0.001	92	ND	98
Methylene Chloride	ND	0.001	87	ND	94
trans-1,2-Dichloroethene	ND	0.001	97	ND	104
1,1-Dichloroethane	ND	0.001	100	ND	109
cis-1,2-dichloroethene	ND	0.001	101	ND	109
2,2-dichloropropane	ND	0.001	102	ND	108
Bromochloromethane	ND	0.001	96	ND	99
Tetrahydrofuran	ND	0.001	105	ND	92
Chloroform	ND	0.001	100	ND	106
1,1,1-Trichloroethane	ND	0.001	101	ND	111
Carbon Tetrachloride	ND	0.001	98	ND	104
Benzene	0.004	0.001	102	ND	107
1,2 Dichloroethane	ND	0.001	91	ND	99
1,1-Dichloropropene	ND	0.001	104	ND	116
Trichloroethene	ND	0.001	96	ND	105
1,2-Dichloropropane	ND	0.001	102	ND	109
Dibromomethane	ND	0.001	105	ND	109
Bromodichloromethane	ND	0.001	119	ND	103
cis 1,3 Dichloropropene	ND	0.001	108	ND	115
Toluene	ND	0.001	100	ND	108
trans 1,3-Dichloropropene	ND	0.001	95	ND	100
1,1,2-Trichloroethane	ND	0.001	102	ND	105
1,3-Dichloropropane	ND	0.001	104	ND	107
Dibromochloromethane	ND	0.001	95	ND	92
Tetrachloroethene	ND	0.001	95	ND	103
1,2-Dibromomethane	ND	0.001	104	ND	106
Chlorobenzene	ND	0.001	97	ND	109
1,1,1,2-Tetrachloroethane	ND	0.001	95	ND	101

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/09/97
Reporting Date: 10/15/97
Project Name: SPS-11
Project Location: SPS-11
Field Code: PW-1 11A ID#31

Analysis Date: 10/15/97
Sampling Date: 10/08/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12796	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	98	ND	108
m&p Xylene	ND	0.001	96	ND	107
o-Xylene	ND	0.001	97	ND	109
Styrene	ND	0.001	94	ND	98
Bromoform	ND	0.001	93	ND	91
1,1,2,2-Tetrachlorcethane	ND	0.001	93	ND	97
Isopropylbenzene	ND	0.001	96	ND	106
1,2,3-Trichloropropane	ND	0.001	99	ND	113
Bromobenzene	ND	0.001	94	ND	97
2-Chlorotoluene	ND	0.001	94	ND	103
Propylbenzene	ND	0.001	116	ND	127
1,3,5-Trimethylbenzene	ND	0.001	95	ND	108
sec-Buytlbenzene	ND	0.001	94	ND	110
4-Chlorotoluene	ND	0.001	109	ND	124
4-Isopropyltoluene	ND	0.001	94	ND	110
1,2,4-Trimethylbenzene	ND	0.001	92	ND	113
1,3-Dichlorobenzene	ND	0.001	91	ND	107
1,4-Dichlorobenzene	ND	0.001	90	ND	103
tert-Butylbenzene	ND	0.001	97	ND	113
1,2-Dichlorobenzene	ND	0.001	91	ND	101
n-Butylbenzene	ND	0.001	99	ND	116
1,2-Dibromo-3-Chloropropane	ND	0.001	94	ND	96
1,2,3-Trichlorobenzene	ND	0.001	103	ND	117
Napthalene	ND	0.001	91	ND	109
Hexachlorobutadiene	ND	0.001	90	ND	99
1,2,4-Trichlorobenzene	ND	0.001	98	ND	106

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	106
Toluene-d8	102
4-Bromofluorobenzene	109

ND=Not Detected

Michael R. Fowler

Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/09/97
Reporting Date: 10/15/97
Project Name: SPS-11
Project Location: SPS-11
Field Code: PW-2 11B ID#32

Analysis Date: 10/15/97
Sampling Date: 10/08/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12797	PQL	% IA	Method Blank	% EA
Dichlorofluoromethane	ND	0.001	89	ND	84
Chloromethane	ND	0.001	93	ND	93
Vinyl chloride	ND	0.001	102	ND	101
Bromomethane	ND	0.001	96	ND	92
Chloroethane	ND	0.001	104	ND	96
Trichlorofluoromethane	ND	0.001	97	ND	92
1,1-Dichloroethene	ND	0.001	92	ND	98
Methylene Chloride	ND	0.001	87	ND	94
trans-1,2-Dichloroethene	ND	0.001	97	ND	104
1,1-Dichloroethane	ND	0.001	100	ND	109
cis-1,2-dichloroethene	ND	0.001	101	ND	109
2,2-dichloropropane	ND	0.001	102	ND	108
Bromochloromethane	ND	0.001	96	ND	99
Tetrahydrofuran	ND	0.001	105	ND	92
Chloroform	ND	0.001	100	ND	106
1,1,1-Trichloroethane	ND	0.001	101	ND	111
Carbon Tetrachloride	ND	0.001	98	ND	104
Benzene	0.003	0.001	102	ND	107
1,2 Dichloroethane	ND	0.001	91	ND	99
1,1-Dichloropropene	ND	0.001	104	ND	116
Trichloroethene	ND	0.001	96	ND	105
1,2-Dichloropropane	ND	0.001	102	ND	109
Dibromomethane	ND	0.001	105	ND	109
Bromodichloromethane	ND	0.001	119	ND	103
cis 1,3 Dichloropropene	ND	0.001	108	ND	115
Toluene	ND	0.001	100	ND	108
trans 1,3-Dichloropropene	ND	0.001	95	ND	100
1,1,2-Trichloroethane	ND	0.001	102	ND	105
1,3-Dichloropropane	ND	0.001	104	ND	107
Dibromochloromethane	ND	0.001	95	ND	92
Tetrachloroethene	ND	0.001	95	ND	103
1,2-Dibromomethane	ND	0.001	104	ND	106
Chlorobenzene	ND	0.001	97	ND	109
1,1,1,2-Tetrachloroethane	ND	0.001	95	ND	101

KEI
ATTN: MR. PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TEXAS 78238
FAX: 210-680-3763
FAX: 505-396-2754

Receiving Date: 10/09/97
Reporting Date: 10/15/97
Project Name: SPS-11
Project Location: SPS-11
Field Code: PW-2 11B ID#32

Analysis Date: 10/15/97
Sampling Date: 10/08/97
Sample Type: WATER
Sample Condition: C&I

Volatiles EPA SW 846-8260, mg/l Compounds	ELT# 12797	PQL	% IA	Method Blank	% EA
Ethylbenzene	ND	0.001	98	ND	108
m&p Xylene	ND	0.001	96	ND	107
o-Xylene	ND	0.001	97	ND	109
Styrene	ND	0.001	94	ND	98
Bromoform	ND	0.001	93	ND	91
1,1,2,2-Tetrachloroethane	ND	0.001	93	ND	97
Isopropylbenzene	ND	0.001	96	ND	106
1,2,3-Trichloropropane	ND	0.001	99	ND	113
Bromobenzene	ND	0.001	94	ND	97
2-Chlorotoluene	ND	0.001	94	ND	103
Propylbenzene	ND	0.001	116	ND	127
1,3,5-Trimethylbenzene	ND	0.001	95	ND	108
sec-Buytlbenzene	ND	0.001	94	ND	110
4-Chlorotoluene	ND	0.001	109	ND	124
4-Isopropyltoluene	ND	0.001	94	ND	110
1,2,4-Trimethylbenzene	ND	0.001	92	ND	113
1,3-Dichlorobenzene	ND	0.001	91	ND	107
1,4-Dichlorobenzene	ND	0.001	90	ND	103
tert-Butylbenzene	ND	0.001	97	ND	113
1,2-Dichlorobenzene	ND	0.001	91	ND	101
n-Butylbenzene	ND	0.001	99	ND	116
1,2-Dibromo-3-Chloropropane	ND	0.001	94	ND	96
1,2,3-Trichlorobenzene	ND	0.001	103	ND	117
Napthalene	ND	0.001	91	ND	109
Hexachlorobutadiene	ND	0.001	90	ND	99
1,2,4-Trichlorobenzene	ND	0.001	98	ND	106

SYSTEM MONITORING COMPOUNDS	% RECOVERY
Dibromofluoromethane	104
Toluene-d8	99
4-Bromofluorobenzene	107

ND=Not Detected

Michael R. Fowler

10-15-97
Date

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Paul Hartnett
Phone #: 210-680-3767
FAX #: 210-680 3763

Company Name & Address: KFI Interback Suite 1000 San Antonio TX 78238

Project #:
Project Name:

Project Location: SPS-11
Sampler Signature: Bobby R. Blackwood

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	OTHER	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8020/5030	TPH 418.1	TCLP Metals Ag As Ba Cd Cr Pb Hg Se	Total Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Volatiles	TCLP Semi Volatiles	TDS	RCI	VOC
12795	Treatment Skid ID#33	3 40ml		X					X		X			10-8-97	0920								X	
12796	PW-1 11A ID#31	3 40ml		X					X		X			10-8-97	0930								X	
12797	PW-2 11B ID#32	3 40ml		X					X		X			10-8-97	0940								X	

Relinquished by:	Date:	Time:	Received by:
Bobby R Blackwood	10-8-97	1130	
Relinquished by:	Date:	Time:	Received by:
	10-9-97	1310	Rafa C/K Jeff
Relinquished by:	Date:	Time:	Received by Laboratory:

REMARKS
Please fax copy of results to Bobby Blackwood 505-396-2754

City of Hobbs
300 N. Turner
Hobbs, New Mexico 88240
Lab # 9411

Microbiological
Water Testing

KEI CONSULTANTS
OCT 13 1997
SAN ANTONIO

Report Sent To:
KEI
HARTNETT PAUL
5309 Wurzback Suite 100
San Antonio 78238-
(219)680-3767

County	Lea	*Type of Test*	MMO-MUG - Total Coliform	
Supply System Name	Cunningham Treatment	*Total Coliform*	Absent	
WSS Code		*E. Coli*	Absent	
Type of System	Private Well	*Was Sample Invalid?*	N/A	
Reason for Sample	Routine Sample	*Was Sample Accepted?*	Yes	
QC #	97U 05	*Reason for Rejected Sample*	N/A	
Collection Point	SPS 11 Treatment Skid			
Date Collected	10/6/97	*Received By*	AD	
Time Collected	1:05:00 PM	*Date / Time Received*	10/6/97	2:03:00 PM
CL2 Residual	0	*Date / Time Test Start*	10/6/97	2:10:00 PM
Collected By	B.R. BLACKWOOD	*Date / Time Test End*	10/7/97	1:30:00 PM

Comments: _____

_____

_____

_____ Anne Dean *Bacteriologist*

Report Created: Tuesday, October 07, 1997 2:08:01 PM
This test result form is not an invoice. The invoice will follow at a later dat

City of Hobbs
300 N. Turner
Hobbs, New Mexico 88240
Lab # 9411

Microbiological
Water Testing

KEI CONSULTANTS
OCT 6 1997
SAN ANTONIO

Report Sent To:
KEI
HARTNETT PAUL
5309 Wurzback Suite 100
San Antonio 78238-
(219)680-3767

County	Lea	*Type of Test*	Membrane Filter	
Supply System Name	Cunningham treatment	*Total Coliform*	N/A	
WSS Code		*Fecal Coliform*	N/A	
Type of System	Public Non-Communit	*Was Sample Invalid?*	TNTC Non-Coliforms	
Reason for Sample	Routine Sample	*Was Sample Accepted?*	Yes	
QC #	97Q 19	*Reason for Rejected Sample*	N/A	
Collection Point	SPS 11 Treatment Skid			
Date Collected	10/2/97	*Received By*	AD	
Time Collected	12:50:00 PM	*Date / Time Received*	10/2/97	1:40:00 PM
CL2 Residual	0	*Date / Time Test Start*	10/2/97	1:50:00 PM
Collected By	Paul Hartnett	*Date / Time Test End*	10/3/97	1:40:00 PM

Comments: Disinfected before sampling. Residual at sample time - none detected

Anne Dean *Bacteriologist*

Message on voice mail for Paul Hartnett 10-3-97/1411 AD
Called NMED with Results on 10-3-97/1415 AD

Report Created: *Friday, October 03, 1997* *01:59 PM*

This test result form is not an invoice. The invoice will follow at a later dat

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #970804159538

Date: 08/04/97

ANALYTICAL REPORT

To: KEI (210) 680-3767
Attn: Theresa Nix
5309 Wutzbach Dr. Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. AA84574

Sample Description: System Effluent
Sample collection date: 07/15/97 Sample collection time: 08:45
Submittal date: 07/18/97 Submittal time: 11:19
WSS# Request ID No. Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC

Sample I.D. AA84574

Sample Description: System Effluent
Sample collection date: 07/15/97 Sample collection time: 08:45
Submittal date: 07/18/97 Submittal time: 11:19
WSS# Request ID No. Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC

Sample I.D. AA84575

Sample Description: PW #1 90 Feet SE Of System
Sample collection date: 07/15/97 Sample collection time: 09:25
Submittal date: 07/18/97 Submittal time: 11:19
WSS# Request ID No. Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	4.8	ug/L	0.5	07/23/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Ethylbenzene	EPA 502.2	0.7	ug/L	0.5	07/23/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC

Sample I.D. AA84575

Sample Description: PW #1 90 Feet SE Of System
Sample collection date: 07/15/97 Sample collection time: 09:25
Submittal date: 07/18/97 Submittal time: 11:19
WSS# Request ID No. Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Xylenes	EPA 502.2	1.1	ug/L	0.5	07/23/97	MAC

Sample I.D. AA84576

Sample Description: PW #2 810 Feet N From System
Sample collection date: 07/15/97 Sample collection time: 09:15
Submittal date: 07/18/97 Submittal time: 11:19
WSS# Request ID No. Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	11.1	ug/L	0.5	07/23/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC

Sample I.D. AA84576

Sample Description: PW #2 810 Feet N From System
Sample collection date: 07/15/97 Sample collection time: 09:15
Submittal date: 07/18/97 Submittal time: 11:19
WSS# Request ID No. Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Ethylbenzene	EPA 502.2	0.96	ug/L	0.5	07/23/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	07/23/97	MAC
Xylenes	EPA 502.2	1.4	ug/L	0.5	07/23/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

ANALYTICAL REPORT 1-71648

for

JUL 2 8 1997

K.E.I. Consultants, Inc.

Project Manager: Theresa L. Nix

Project Name: 610099

Project Id: 610099

July 21, 1997

XENCO Laboratories

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71648

K.E.I. Consultants, Inc.

Project Name: 610099

Project ID: 610099
Project Manager: Theresa L. Nix
Project Location: SPS-11

Date Received in Lab: Jul 18, 1997 10:55 by LY
Date Report Faxed: Jul 21, 1997
XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	171648-001					
	Field ID:	SP #3					
	Depth:						
BTEX Analyzed by EPA 8020	Date Analyzed - Analytical Results **ppm (mg/L - mg/Kg)**						
	Jul 18, 1997						
Benzene	< 0.001						
Toluene	< 0.001						
Ethylbenzene	< 0.001						
m,p-Xylenes	< 0.002						
o-Xylene	< 0.001						
Total BTEX	< 0.006						

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25C41

SW- 846 5030/8020 BTEX

Date Validated: Jul 21, 1997 09:00
Date Analyzed: Jul 18, 1997 17:32
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

Q.C. Sample ID 171648- 001	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	< 0.0010	0.1030	0.1040	0.1000	0.0010	25.0	1.0	103.0	104.0	65-135	
Toluene	< 0.0010	0.1030	0.1050	0.1000	0.0010	25.0	1.9	103.0	105.0	65-135	
Ethylbenzene	< 0.0010	0.1050	0.1070	0.1000	0.0010	25.0	1.9	105.0	107.0	65-135	
m,p-Xylenes	< 0.0020	0.2160	0.2190	0.2000	0.0020	25.0	1.4	108.0	109.5	65-135	
o-Xylene	< 0.0010	0.1060	0.1070	0.1000	0.0010	25.0	0.9	106.0	107.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25C41

SW- 846 5030/3020 BTEX

Date Validated: Jul 21, 1997 09:00
Date Analyzed: Jul 18, 1997 16:54
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC LIMITS Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.1020	0.1000	0.0010	102.0	65-135	
Toluene	< 0.0010	0.1030	0.1000	0.0010	103.0	65-135	
Ethylbenzene	< 0.0010	0.1050	0.1000	0.0010	105.0	65-135	
m,p-Xylenes	< 0.0020	0.2160	0.2000	0.0020	108.0	65-135	
o-Xylene	< 0.0010	0.1050	0.1000	0.0010	105.0	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
N.D. = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Theresa L. Nix
Project Location: SPS-11

Project Name: 610099

XENCO COC#: 1-71648
Date Received in Lab: Jul 18, 1997 10:55 by LY
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
							Sample Collected	Addition Requested	Extraction	Analysis
1	SP #3	171648-001	BTEX	SW-846	ppm	Standard	Jul 15, 1997 08:55		Jul 18, 1997 by HL	Jul 18, 1997 17:32 by HL

XENCO Laboratories
11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 171648-SA

Contractor: KET Consultants | Phone (210) 680-3767

Address: 5309 Wurzbach Drive Suite 100 SA, Tx 78238

Project Name: 610099 | Project Director: Paul Hartnett

Project Location: SPS-11 | Project Manager: Theresa Nix

Sampler Signature: | Project No.: 610099

No. coolers this shipment: 1 | Contractor COC #

Carrier: UPS | Quote #:

Airbill No. | P.O. No:

SAMPLE CHARACTERIZATION

	Field ID	Date	Time	Depth	Soil	Water	Comp	Grab	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Unl Dies Ker Unknown / Waste Oil / PIT No: / Tank No: / Sample Description	No of Containers Total	BTEX (5030/8020-602)	TPH (418.1)	Please Hold	Turn-around: ASAP, 24 hrs, 48 hrs, Standard	Remarks	LAB ONLY ID #
1	SP #3	7-15-97	0855			X		X	40ml	G	X	HCl		2	X					1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
	07/17/97	1615			
arrived VIA UPS	7/18/97	10:55	Received For Laboratory by: L. Yochey	7/18/97	10:55

Remarks

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 05/08/97

ANALYTICAL REPORT

To: Mike Staffilino 972-484-4197
1335 Valwood Pkwy. Suite 111
Carrollton, TX 75006

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. AA81643

Sample Description: Well PW-1 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:25
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	15.8	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	3.1	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	0.7	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	0.7	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81644

Sample Description: Well PW-2 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:38
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	12.0	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	1.0	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	0.6	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81645

Sample Description: Well SP-1 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:44
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Duplicate sample was run. Chromatogram for one of the vials was absent of a peaks, unlike the duplicate. The duplicate chromatogram resembled all other positive samples. All other positive sample duplicates were also analyzed with confirming results. We feel that some type of sampling error has

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	6.9	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	0.7	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	0.5	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81646

Sample Description: Well SP-2 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:50
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81647

Sample Description: Well SP-3 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:55
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Speical Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81648

Sample Description: Well SP-4 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:59
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81649

Sample Description: Well BS-1 ID #610099
Sample collection date: 04/29/97 Sample collection time: 12:46
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	7.8	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	0.7	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	0.5	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81650

Sample Description: Well BS-2 ID #610099
Sample collection date: 04/29/97 Sample collection time: 13:01
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Sample I.D. AA81651

Sample Description: Well Frac Tank 610099
Sample collection date: 04/29/97 Sample collection time: 13:25
Submittal date: 05/02/97 Submittal time: 11:46
WSS# Request ID No. Collector: E. RICHARTE
Sample Purpose: Special Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Toluene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
Ethylbenzene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
m-,p-Xylenes	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC
o-Xylene	SW846 # 8021	Not detected	ug/L	0.5	05/02/97	MAC

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accrdited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests nor presently accredited are noted by an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

ANALYTICAL REPORT 1-71025

for

K.E.I. Consultants, Inc.

Project Manager: Mike Staffileno

Project Name: Texas New Mexico Pipeline

Project Id: 610099

May 5, 1997

XENCO Laboratories

HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
Phone (281) 589-0692 Fax (281) 589-0695

XENCO Laboratories

CERTIFICATE OF ANALYSIS SUMMARY 1-71025

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Staffileno
Project Location: SPS-II

Project Name: Texas New Mexico

Date Received in Lab : May 2, 1997 09:45 by CAC
Date Report Faxed: May 5, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	*Lab ID:*	171025-001	171025-002	171025-003	171025-004	171025-005	171025-006	171025-007	171025-008	171025-009
	Field ID:	PW-1	PW-2	SP-1	SP-2	SP-3	SP-4	BS-1	BS-2	Frac Tank
	Depth:									
BTEX by EPA 8020		Date Analyzed - Analytical Results								**ppm (mg/L - mg/Kg)**
		May 2, 1997	May 2, 1997	May 2, 1997	May 2, 1997	May 2, 1997	May 2, 1997	May 2, 1997	May 2, 1997	May 2, 1997
Benzene		0.011	0.010	0.005	< 0.001	< 0.001	< 0.001	0.005	< 0.001	< 0.001
Toluene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Ethylbenzene		0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
m,p-Xylenes		< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
o-Xylene		< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Total BTEX		0.012	0.010	0.005	< 0.006	< 0.006	< 0.006	0.005	< 0.006	< 0.006

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. Consultants, Inc..
The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25B41

SW- 846 5030/3020 BTEX

Date Validated: May 3, 1997 12:00
Date Analyzed: May 2, 1997 13:25
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	BLANK SPIKE ANALYSIS						
Parameter	[A] Blank Result ppm	[B] Blank Spike Result ppm	[C] Blank Spike Amount ppm	[D] Method Detection Limit ppm	[E] QC Blank Spike Recovery %	[F] LIMITS Recovery Range %	[G] Qualifier
Benzene	< 0.0010	0.0974	0.1000	0.0010	97.4	65-135	
Toluene	< 0.0010	0.0997	0.1000	0.0010	99.7	65-135	
Ethylbenzene	< 0.0010	0.0995	0.1000	0.0010	99.5	65-135	
m,p-Xylenes	< 0.0020	0.2020	0.2000	0.0020	101.0	65-135	
o-Xylene	< 0.0010	0.0995	0.1000	0.0010	99.5	65-135	

Blank Spike Recovery [E] = 100*(B-A)/(C)
N.C. = Not calculated, data below detection limit
< = Below detection limit
All results are based on MDL and validated for QC purposes only

Edward H. Yonemoto, Ph.D.
QA/QC Manager

XENCO Laboratories

Certificate Of Quality Control for Batch : 17A25B41

SW- 846 5030/8020 BTEX

Date Validated: May 3, 1997 12:00
Date Analyzed: May 2, 1997 14:16
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 171025- 001 / **Parameter**	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC Spike Relative Difference %	[G] QC Matrix Spike Recovery %	[H] QC M.S.D. Recovery %	[I] Matrix Spike Recovery Range %	[J] Qualifier
Benzene	0.0112	0.1120	0.1130	0.1000	0.0010	25.0	0.9	100.8	101.8	65-135	
Toluene	< 0.0010	0.1010	0.1020	0.1000	0.0010	25.0	1.0	101.0	102.0	65-135	
Ethylbenzene	0.0014	0.1030	0.1040	0.1000	0.0010	25.0	1.0	101.6	102.6	65-135	
m,p-Xylenes	< 0.0020	0.2060	0.2070	0.2000	0.0020	25.0	0.5	103.0	103.5	65-135	
o-Xylene	< 0.0010	0.1020	0.1020	0.1000	0.0010	25.0	0.0	102.0	102.0	65-135	

Spike Relative Difference [F] = 200*(B-C)/(B+C)
Matrix Spike Recovery [G] = 100*(B-A)/[D]
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = 100*(C-A)/[D]
N.D. = Below detection limit or not detected
All results are based on MDL and validated for QC purposes

Edward H. Yonemoto, Ph.D.
QA/QC Manager

ANALYTICAL CHAIN OF CUSTODY REPORT
CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610099
Project Manager: Mike Staffileno
Project Location: SPS-II

Project Name: Texas New Mexico Pipeline

XENCO COC#: 1-71025
Date Received in Lab: May 2, 1997 09:45 by CAC
XENCO contact : Carlos Castro/Edward Yonemoto

	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time: Sample Collected	Date and Time: Addition Requested	Date and Time: Extraction	Date and Time: Analysis
1	PW-1	171025-001	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:25		May 2, 1997 by HL	May 2, 1997 13:59 by HL
2	PW-2	171025-002	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:38		May 2, 1997 by HL	May 2, 1997 14:51 by HL
3	SP-1	171025-003	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:44		May 2, 1997 by HL	May 2, 1997 15:08 by HL
4	SP-2	171025-004	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:50		May 2, 1997 by HL	May 2, 1997 15:26 by HL
5	SP-3	171025-005	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:55		May 2, 1997 by HL	May 2, 1997 15:43 by HL
6	SP-4	171025-006	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:59		May 2, 1997 by HL	May 2, 1997 16:00 by HL
7	BS-1	171025-007	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 12:46		May 2, 1997 by HL	May 2, 1997 16:18 by HL
8	BS-2	171025-008	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 13:01		May 2, 1997 by HL	May 2, 1997 16:35 by HL
9	Frac Tank	171025-009	BTEX	SW-846	ppm	24 hours	Apr 29, 1997 13:25		May 2, 1997 by HL	May 2, 1997 16:52 by HL

XENCO Laboratories

11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 1

Lab. Batch # 171025-SA

Contractor: KEI Phone (972) 484-4197

Address: 1335 VALWOOD PKWY. SUITE 111 CARROLLTON, TX. 75006

Project Name: TXNMEX PIPELINE Project Director:

Project Location: SPS-11. Project Manager: MIKE STAFFIELD

Sampler Signature: ERNEST RICHARTE Project No. 610099

No. coolers this shipment: Contractor COC # 050

Carrier: Quote #:

Airbill No. P.O. No.:

	Field ID	Date	Time	DEPTH	SOIL	WATER	COMP	GRAB	Container Size	Container Type P, G	Preservative Ice	Preservative Other	Sample Description	No of CONTAINERS Total	BTEX (8030/8020/602)	TPH (418.1)	Please Hold	Remarks	LAB ONLY ID #
1	PW-1	4/29	1225			X		X			X	HCL		2	X				1
2	PW-2	4/29	1238			X		X			X	HCL		2	X				2
3	SP-1	4/29	1244			X		X			X	HCL		2	X				3
4	SP-2	4/29	1250			X		X			X	HCL		2	X				4
5	SP-3	4/29	1255			X		X			X	HCL		2	X				5
6	SP-4	4/29	1259			X		X			X	HCL		2	X				6
7	BS-1	4/29	1246			X		X			X	HCL		2	X				7
8	BS-2	4/29	1301			X		X			X	HCL		2	X				8
9	FRAC TANK	4/29	1325			X		X			X	HCL		2	X				9
10																			10

Preservative: Unl Dies Ker Unknown Waste Oil PIT No: Tank No:

Turn-around: ASAP / 24 hrs / 48 hrs / Standard

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	DATE	TIME
Jed W. Brun	97	,			
			Received For Laboratory by: Cathy P	5/2/97	09:45 → VIA UPS

Remarks: CALL KEI 972 484 4197 FOR TURN AROUND. CONTACT M. STAFFIELD ALT. PAUL HARTNETT 1-800 253-0507

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #9706P116

Date: 06/19/97

ANALYTICAL REPORT

To: Paul Hartnet 1-800-253-0507
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for SDWA Inorganic Analysis. (MDL=Method detection limit)

Sample I.D. AA80699

Sample Description: Source Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:30
Submittal date: 04/10/97 Submittal time: 11:33
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Sulfate	EPA 375.4	45	mg/L	2	05/13/97	BJH

Sample I.D. AA80700

Sample Description: Source Well PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:33
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Sulfate	EPA 375.4	46	mg/L	2	05/13/97	BJH

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests not presently accredited are noted by a hyphen.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

RECEIVED
JUN 26 1997

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 06/19/97

ANALYTICAL REPORT

To: Paul Hartnet 1-800-253-0507
5309 Wurzbach, Suite 100
San Antonio, TX 87238

Purchase Order #

Below are the results for Secondary Group Analyses. (MDL=Method detection limit)

Sample I.D. AA80701 Field pH: Temperature:

Sample Description: Source Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:10
Submittal date: 04/10/97 Submittal time: 11:38
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Monitoring Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Calcium by ICP-	EPA200.7	70.5	mg/L	0.1	05/06/97	MBL
Magnesium by ICP-	EPA 200.7	9.4	mg/L	0.1	05/06/97	MBL
Sodium by ICP-	EPA 200.7	26.7	mg/L	0.1	05/06/97	MBL
Potassium by ICP-	EPA 200.7	2.3	mg/L	0.1	05/14/97	MBL
Hardness (as CaCO3)	EPA 130.2	214	mg/L	1	05/22/97	BJH
Alkalinity (as CaCO3)	EPA 310.1	180.4	mg/L	0.1	05/22/97	BJH
Carbonate alkalinity	EPA 310.1	0.0	mg/L	1.0	04/17/97	BJH
Bicarbonate alkalinity	EPA 310.1	220.2	mg/L	1.0	04/17/97	BJH
Chloride by Autoanalyzer	EPA 325.2	24.1	mg/L	0.5	05/06/97	BJH
Sulfate	EPA 375.4	44	mg/L	2	05/13/97	BJH
Electrical Conductivity	EPA 120.1	500	micromhos/cm	1	04/17/97	BJH
pH of water	EPA 150.1	8.22			04/17/97	BJH
Total Dissolved Solids	StdMtd 2540C	304	mg/L	1	04/22/97	BJH
Platinum-Cobalt color-	EPA 110.2	Not detected		5	04/11/97	SLS
Odor by dilution-	EPA 140.1	Not detected		1	04/11/97	SLS
Turbidity by nephelometer-	EPA 180.1	0.61	NTU	0.01	04/11/97	SLS
Surfactants by MBAS-	EPA 425.1	Not detected	mg/L	0.025	04/11/97	SLS

Sample I.D. AA80702 Field pH: Temperature:

Sample Description: Source Well PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:38
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Monitoring Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Calcium by ICP-	EPA200.7	69.6	mg/L	0.1	05/06/97	MBL
Magnesium by ICP-	EPA 200.7	8.3	mg/L	0.1	05/06/97	MBL
Sodium by ICP-	EPA 200.7	29.0	mg/L	0.1	05/06/97	MBL
Potassium by ICP-	EPA 200.7	2.5	mg/L	0.1	05/14/97	MBL
Hardness (as CaCO3)	EPA 130.2	208	mg/L	1	05/22/97	BJH
Alkalinity (as CaCO3)	EPA 310.1	175.0	mg/L	0.1	05/22/97	BJH
Carbonate alkalinity	EPA 310.1	0.0	mg/L	1.0	04/17/97	BJH
Bicarbonate alkalinity	EPA 310.1	213.5	mg/L	1.0	04/17/97	BJH
Chloride by Autoanalyzer	EPA 325.2	25.8	mg/L	0.5	05/06/97	BJH
Sulfate	EPA 375.4	44	mg/L	2	05/13/97	BJH
Electrical Conductivity	EPA 120.1	527	micromhos/cm	1	04/17/97	BJH

Sample I.D. AA80702 Field pH: Temperature:

Sample Description: Source Well PW2
Sample collection date: 04.09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:38
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Monitoring Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
pH of water	EPA 150.1	8.00			04/17/97	BJH
Total Dissolved Solids	StdMtd 2540C	304	mg/L	1	04/22/97	BJH
Platinum-Cobalt color-	EPA 110.2	Not detected		5	04/11/97	SLS
Odor by dilution-	EPA 140.1	2		1	04/11/97	SLS
Turbidity by nephelometer-	EPA 180.1	0.55	NTU	0.01	04/11/97	SLS
Surfactants by MBAS-	EPA 425.1	Not detected	mg/L	0.025	04/11/97	SLS

Results relate only to the items tested. This report shall not be reproduced except in full, without the written approval of the laboratory. This laboratory is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this report have been determined in accordance with the laboratory's terms of accreditation unless stated otherwise in the report. Those tests not presently accredited are noted by a hyphen.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report #9705C90859

Date: 05/09/97

ANALYTICAL REPORT

To: Paul Hartnet 1-800-253-0507
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for SDWA Group I (Metals). (MDL=Method detection limit)

Sample I.D. AA80697

Sample Description: Sources Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:30
Submittal date: 04/10/97 Submittal time: 11:27
WSS# Request ID No. Collector: GERALD CARIL
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Antimony	EPA 200.8	Less than	ug/L	0.4	05/05/97	HJP
Arsenic	EPA 200.8	6.9	ug/L	0.3	05/05/97	HJP
Barium	EPA 200.8	101.7	ug/L	0.1	05/05/97	HJP
Beryllium	EPA 200.8	Less than	ug/L	0.2	05/05/97	HJP
Cadmium	EPA 200.8	Less than	ug/L	0.1	05/05/97	HJP
Chromium	EPA 200.8	4.3	ug/L	1.0	05/05/97	HJP
Mercury	EPA 200.8	Less than	ug/L	0.2	05/05/97	HJP
Nickel	EPA 200.8	2.92	ug/L	0.05	05/05/97	HJP
Selenium	EPA 200.8	4.2	ug/L	1.0	05/05/97	HJP
Thallium	EPA 200.8	Less than	ug/L	0.03	05/05/97	HJP

Sample I.D. AA80698

Sample Description: Sources Well #2 PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:27
WSS# Request ID No. Collector: GERALD CARIL
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Antimony	EPA 200.8	Less than	ug/L	0.4	05/05/97	HJP
Arsenic	EPA 200.8	6.3	ug/L	0.3	05/05/97	HJP
Barium	EPA 200.8	113.0	ug/L	0.1	05/05/97	HJP
Beryllium	EPA 200.8	Less than	ug/L	0.2	05/05/97	HJP
Cadmium	EPA 200.8	Less than	ug/L	0.1	05/05/97	HJP
Chromium	EPA 200.8	3.5	ug/L	1.0	05/05/97	HJP
Mercury	EPA 200.8	Less than	ug/L	0.2	05/05/97	HJP
Nickel	EPA 200.8	2.39	ug/L	0.05	05/05/97	HJP
Selenium	EPA 200.8	3.7	ug/L	1.0	05/05/97	HJP
Thallium	EPA 200.8	Less than	ug/L	0.03	05/05/97	HJP

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Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 04/15/97

ANALYTICAL REPORT

To: Paul Hartnet 1-800-253-0507
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for VOCs. (MDL=Method detection limit)

Sample I.D. AA80707

Sample Description: Source Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:30
Submittal date: 04/10/97 Submittal time: 11:56
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	5.6	ug/L	0.5	04/08/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC

Sample I.D. AA80707

Sample Description: Source Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:30
Submittal date: 04/10/97 Submittal time: 11:56
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	2.4	ug/L	0.5	04/08/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Xylenes	EPA 502.2	1.5	ug/L	0.5	04/08/97	MAC

Sample I.D. AA80708

Sample Description: Source Well PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:56
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC

Sample I.D. AA80708

Sample Description: Source Well PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:56
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC

Sample I.D. AA80709

Sample Description: System Effluent
Sample collection date: 04/09/97 Sample collection time: 11:11
Submittal date: 04/10/97 Submittal time: 11:56
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	13.4	ug/L	0.5	04/08/97	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC

Sample I.D. AA80709

Sample Description: System Effluent
Sample collection date: 04/09/97 Sample collection time: 11:11
Submittal date: 04/10/97 Submittal time: 11:56
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Ethylbenzene	EPA 502.2	2.4	ug/L	0.5	04/08/97	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Isoproylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/08/97	MAC
Xylenes	EPA 502.2	2.9	ug/L	0.5	04/08/97	MAC

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Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

STATE OF NEW MEXICO DEPARTMENT OF HEALTH

SCIENTIFIC LABORATORY DIVISION

P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
WATER CHEMISTRY SECTION [505]-841-2555

April 21, 1997

ANALYTICAL REPORT
SLD Accession No. WC-97-1448

Distribution
(x) User 55000
(x) Submitter 68
(X) Client
(x) SLD Files

To: Paul Harnett
5309 Wurzbach Ste. 100
San Antonio, TX 78238

From: Water Chemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: **A water sample submitted to this laboratory on April 11, 1997**

User:
Barbara Giesler
Drinking Water Bureau
NM-ED Office; Suite 4
525 Camino de Los Marquez
Santa Fe, NM 87502

Submitter:
Myra Meyers
ED Field Office, Hobbs
Suite 165
726 E. Michigan Avenue
Hobbs, NM 88240

DEMOGRAPHIC DATA

COLLECTION
On: 9-Apr-97 *By:* Car . . .
At: 10:30 hrs. *In/Near:* Hobbs

LOCATION
Source Well PW I

ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
see lab remarks	0.00		

Laboratory Remarks:
Total Cyanide <0.005 mg/L

Reviewed By:
Diana Suvannunt, Ph.D. 04/21/97
Supervisor, Water Chemistry Section

APR 25

STATE OF NEW MEXICO DEPARTMENT OF HEALTH
SCIENTIFIC LABORATORY DIVISION
P.O. Box 4700 700 Camino de Salud, NE
Albuquerque, NM 87196-4700 [505]-841-2500
WATER CHEMISTRY SECTION [505]-841-2555

April 21, 1997

ANALYTICAL REPORT
SLD Accession No. WC-97-1449

Distribution
(x) User 55000
(x) Submitter 68
(X) Client
(x) SLD Files

To: Paul Harnett
5309 Wurzbach Ste. 100
San Antonio, TX 78238

From: Water Chemistry Section
Scientific Laboratory Division
700 Camino de Salud, NE
P.O. Box 4700
Albuquerque, NM 87196-4700

Re: **A water sample submitted to this laboratory on April 11, 1997**

User:
Barbara Giesler
Drinking Water Bureau
NM-ED Office; Suite 4
525 Camino de Los Marquez
Santa Fe, NM 87502

Submitter:
Myra Meyers
ED Field Office, Hobbs
Suite 165
726 E. Michigan Avenue
Hobbs, NM 88240

DEMOGRAPHIC DATA

COLLECTION
On: 9-Apr-97 *By:* Car . . .
At: 10:50 hrs. *In/Near:* Hobbs

LOCATION
Source Well PW2

ANALYTICAL RESULTS

Analysis	Value	D. Lmt.	Units
see lab remarks	0.00		

Laboratory Remarks:
Total Cyanide <0.005 mg/L

Reviewed By:
Diana Suvannunt, Ph.D. 04/21/97
Supervisor, Water Chemistry Section

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Date: 04/15/97

ANALYTICAL REPORT

To: Paul Hartnet 1-800-253-0507
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for SDWA Inorganic Analysis. (MDL=Method detection limit)

Sample I.D. AA80703

Sample Description: Soruce Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:30
Submittal date: 04/10/97 Submittal time: 11:44
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Nitrate/nitrite as N	EPA 353.2	1.40	mg/L	0.05	04/11/97	BJH

Sample I.D. AA80705

Sample Description: Soruce Well PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:44
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Nitrate/nitrite as N	EPA 353.2	1.24	mg/L	0.05	04/11/97	BJH

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Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Soil **W**ater and **A**ir **T**esting **Lab**
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505)646-4422

Report # 9704181356

Date: 04/18/97

ANALYTICAL REPORT

To: Paul Hartnet 1-800-253-0507
5309 Wurzbach, Suite 100
San Antonio, TX 78238

Purchase Order #

Below are the results for SDWA Inorganic Analysis. (MDL=Method detection limit)

Sample I.D. **AA80704**

Sample Description: Soruce Well PW1
Sample collection date: 04/09/97 Sample collection time: 10:30
Submittal date: 04/10/97 Submittal time: 11:44
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Nitrite as N	EPA 353.2	Not detected	mg/L	0.05	04/11/97	BJH

Sample I.D. **AA80706**

Sample Description: Soruce Well PW2
Sample collection date: 04/09/97 Sample collection time: 10:50
Submittal date: 04/10/97 Submittal time: 11:44
WSS# Request ID No. Collector: G. CARRILLO
Sample Purpose: Compliance Sampling Information: Grab

Element	Method	Result	Units	MDL	Date of Analysis	Analyst
Nitrite as N	EPA 353.2	Not detected	mg/L	0.05	04/11/97	BJH

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Respectfully submitted,

Andrew Lee Bristol
Laboratory Manager
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