

GW - 140

MONITORING REPORTS

DATE:

2000-1999

ANNUAL MONITORING REPORT

**EOTT PIPELINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO**

PREPARED FOR:

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March 2000

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INTRODUCTION

Environmental Technology Group, Inc. (ETGI), on behalf of EOTT Energy Corp. (EOTT), prepared this annual report in compliance with the New Mexico Oil Conservation Division (OCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. The report presents the results of the quarterly ground water monitoring events only. For reference, a site location map is provided as Figure 1.

Ground water monitoring was conducted during four quarterly events in 1999 to assess the levels and extent of dissolved phase and free phase petroleum hydrocarbon constituents. The groundwater monitoring events consisted of measuring static water levels in the monitoring wells, checking for the presence of phase-separated hydrocarbons (PSH), and purging and sampling of each well exhibiting sufficient recharge. Monitoring wells containing measurable levels of PSH were not sampled.

FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on January 27, June 8, August 20, and December 8, 1999. During each sampling event, the monitoring wells, designated to be sampled, were purged of approximately 3 well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Monitoring wells with a measurable presence of PSH were not sampled. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico, utilizing a licensed disposal facility (OCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitoring wells and the inferred ground water gradient, as measured on December 8, 1999, are depicted on Figure 2. The ground water elevation data are provided as Table 1. Groundwater elevation contours, generated from the final quarterly event of 1999 water level measurements, indicated a variable gradient to the southeast. The depth to groundwater, as measured from the top of the well casing, ranged between 53.56 to 60.12 feet for the shallow alluvial aquifer.

LABORATORY RESULTS

Ground water samples obtained during the first and second sampling events were mailed to Xenco Laboratories in San Antonio, Texas. Ground water samples collected during the third and fourth event were hand delivered to Environmental Laboratory of Texas, Midland, Texas for determination of benzene, toluene, ethyl benzene and total xylenes (BTEX) concentrations by EPA Method SW846-8020 and 8021B. The ground water chemistry data are provided as Table 2 and the Laboratory Reports are provided as Appendix A.

Laboratory results for all of the site ground water samples, obtained during the 1999 annual period, indicated that BTEX concentrations were below detection limits for the samples collected from monitoring wells MW-2, MW-3, MW-6, MW-13, MW-18, MW-19, MW-22, MW-23, and MW-25.

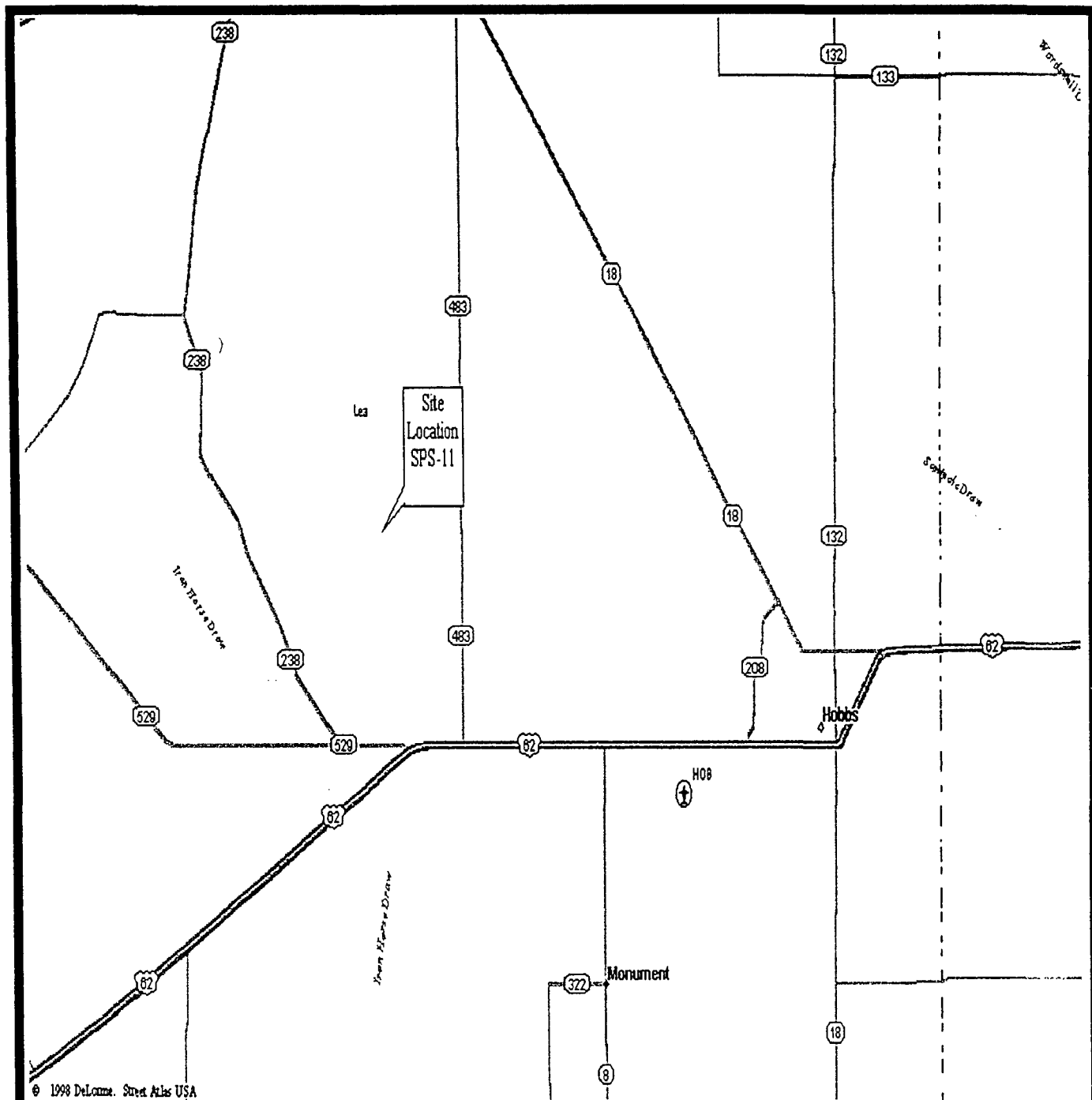
Detectable benzene concentrations were measured in the samples collected from monitoring wells MW-1, MW-4, MW-7, MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, MW-16, MW-17, MW-20, MW-21, and MW-24. Notably, dissolved phase benzene concentrations, in excess of MCLs, were detected in the samples from monitoring well MW-17, which is the most downgradient well. This indicates that the downgradient extent of the dissolved phase benzene plume is not defined.

SUMMARY

This report presents the results of monitoring activities for the annual monitoring period of calendar year 1999. No PSH was detected in the site wells during the four monitoring events.

Laboratory results for all of the site ground water samples, obtained during the 1999 annual period, indicated that BTEX concentrations were below detection limits for the samples collected from monitoring wells MW-2, MW-3, MW-6, MW-13, MW-18, MW-19, MW-22, MW-23, and MW-25.

Detectable benzene concentrations were measured in the samples collected from monitoring wells MW-1, MW-4, MW-7, MW-9, MW-10, MW-11, MW-12, MW-14, MW-15, MW-16, MW-17, MW-20, MW-21, and MW-24. Notably, dissolved phase benzene concentrations, in excess of MCLs, were detected in the samples from monitoring well MW-17, which is the most downgradient well. This indicates that the downgradient extent of the dissolved phase benzene plume is not defined.



FIGURE

1

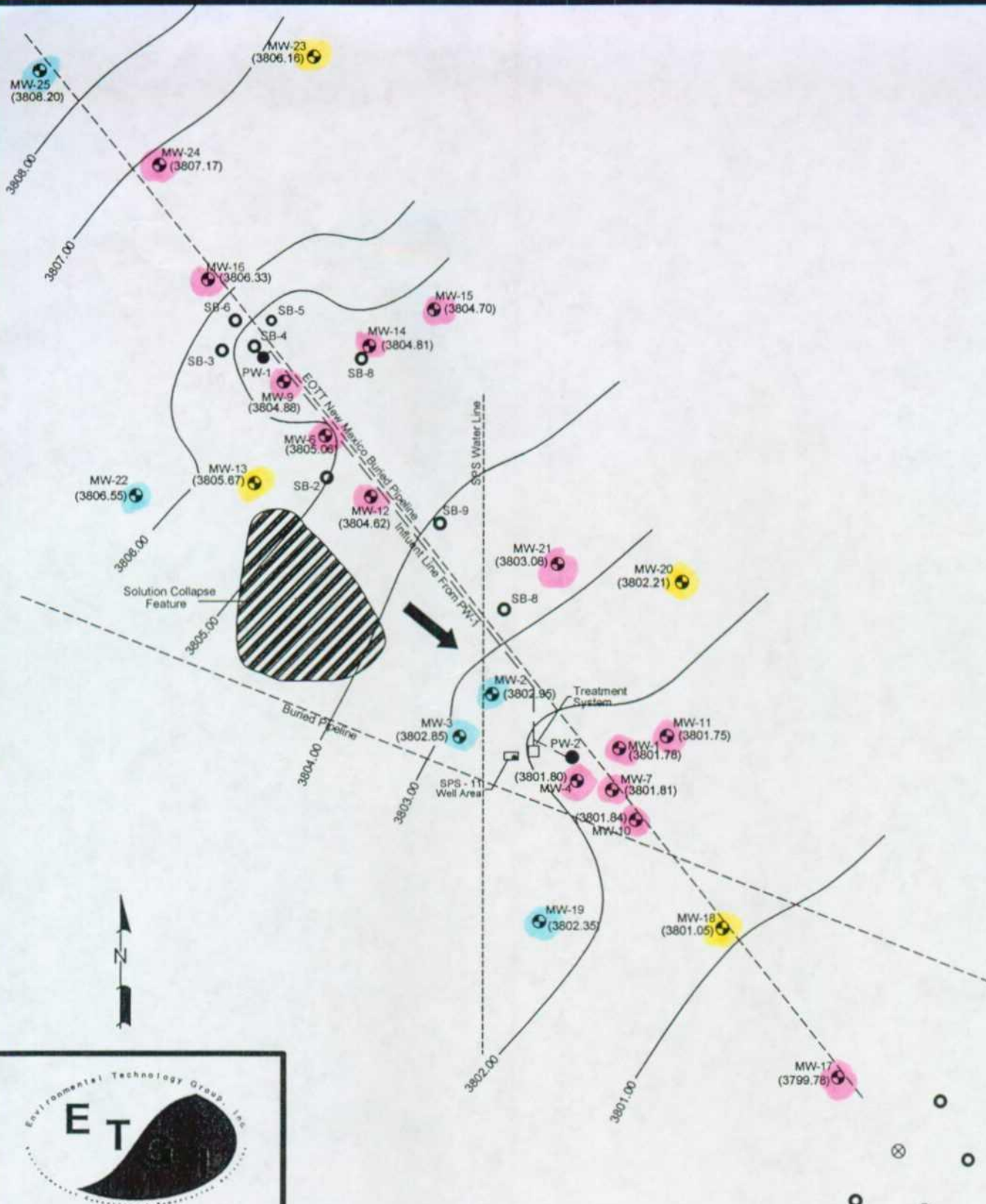
Not To Scale

Site Location Map

EOTT Energy Corp.
SPS-11
Hobbs, NM

Environmental
Technology
Group, Inc.

11 - 22 - 99 RS



LEGEND:

- ⊗ Existing Ground Water Monitoring Well.
- Subsequent Proposed Ground Water Monitoring well Locations (Actual Locations May Vary).
- ⊗ Initial Proposed Ground Water Monitoring Well Location.
- Ground Water Contour Lines
- (325.78) Ground Water Elevations

Figure 2
Inferred Ground Water
Contour Map 12/6/99

SPS - 11
Lea County, NM

**Environmental Technology
Group, INC.**

Scale: 1" = 300'

Prep By: RS

Checked By: JN

September 28, 1999

ETGI Project # EOT 1022C

TABLE 1
GROUNDWATER ELEVATION TABLE
SPS-11
LEA COUNTY, NM
ETGI PROJECT# EOT1015C

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	01/27/99	3,859.08	-	57.17	0.00	3,801.91
MW-1	06/08/99	3,859.08	-	58.43	0.00	3,800.65
MW-1	08/20/99	3,859.08	-	57.51	0.00	3,801.57
MW-1	12/06/99	3,859.08	-	57.30	0.00	3,801.78
MW-2	01/27/99	3,860.76	-	57.44	0.00	3,803.32
MW-2	06/08/99	3,860.76	-	57.20	0.00	3,803.56
MW-2	08/20/99	3,860.76	-	57.91	0.00	3,802.85
MW-2	12/06/99	3,860.76	-	57.81	0.00	3,802.95
MW-3	01/27/99	3,861.15	-	57.96	0.00	3,803.19
MW-3	06/08/99	3,861.15	-	57.69	0.00	3,803.46
MW-3	08/20/99	3,861.15	-	58.35	0.00	3,802.80
MW-3	12/06/99	3,861.15	-	58.30	0.00	3,802.85
MW-4	01/27/99	3,859.62	-	57.59	0.00	3,802.03
MW-4	06/08/99	3,859.62	-	56.56	0.00	3,803.06
MW-4	08/20/99	3,859.62	-	57.95	0.00	3,801.67
MW-4	12/06/99	3,859.62	-	57.82	0.00	3,801.80
MW-6	01/27/99	3,862.47	-	57.37	0.00	3,805.10
MW-6	06/08/99	3,862.47	-	57.03	0.00	3,805.44
MW-6	08/20/99	3,862.47	-	57.93	0.00	3,804.54
MW-6	12/06/99	3,862.47	-	57.41	0.00	3,805.06
MW-7	01/27/99	3,859.31	-	57.28	0.00	3,802.03
MW-7	06/08/99	3,859.31	-	56.64	0.00	3,802.67
MW-7	08/20/99	3,859.31	-	57.64	0.00	3,801.67
MW-7	12/06/99	3,859.31	-	57.50	0.00	3,801.81
MW-9	01/27/99	3,861.88	-	56.76	0.00	3,805.12
MW-9	06/08/99	3,861.88	-	55.89	0.00	3,805.99
MW-9	08/20/99	3,861.88	-	57.29	0.00	3,804.59
MW-9	12/06/99	3,861.88	-	57.00	0.00	3,804.88
MW-10	01/27/99	3,860.58	-	58.54	0.00	3,802.04
MW-10	06/08/99	3,860.58	-	58.12	0.00	3,802.46
MW-10	08/20/99	3,860.58	-	59.00	0.00	3,801.58
MW-10	12/06/99	3,860.58	-	58.74	0.00	3,801.84
MW-11	01/27/99	3,860.00	-	58.03	0.00	3,801.97
MW-11	06/08/99	3,860.00	-	57.56	0.00	3,802.44
MW-11	08/20/99	3,860.00	-	58.45	0.00	3,801.55
MW-11	12/06/99	3,860.00	-	58.25	0.00	3,801.75
MW-12	01/27/99	3,863.10	-	58.35	0.00	3,804.75
MW-12	06/08/99	3,863.10	-	58.02	0.00	3,805.08
MW-12	08/20/99	3,863.10	-	58.98	0.00	3,804.12
MW-12	12/06/99	3,863.10	-	58.48	0.00	3,804.62
MW-13	01/27/99	3,862.44	-	56.72	0.00	3,805.72
MW-13	06/08/99	3,862.44	-	56.36	0.00	3,806.08
MW-13	08/20/99	3,862.44	-	57.38	0.00	3,805.06
MW-13	12/06/99	3,862.44	-	56.77	0.00	3,805.67
MW-14	01/27/99	3,862.95	-	57.98	0.00	3,804.97
MW-14	06/08/99	3,862.95	-	57.46	0.00	3,805.49

TABLE 1
GROUNDWATER ELEVATION TABLE
SPS-11
LEA COUNTY, NM
ETGI PROJECT# EOT1015C

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-14	08/20/99	3,862.95		58.71	0.00	3,804.24
MW-14	12/06/99	3,862.95	-	58.14	0.00	3,804.81
MW-15	01/27/99	3,861.70	-	56.89	0.00	3,804.81
MW-15	06/08/99	3,861.70	-	56.62	0.00	3,805.08
MW-15	08/20/99	3,861.70		57.43	0.00	3,804.27
MW-15	12/06/99	3,861.70	-	57.00	0.00	3,804.70
MW-16	01/27/99	3,863.15	-	56.70	0.00	3,806.45
MW-16	06/08/99	3,863.15	-	56.33	0.00	3,806.82
MW-16	08/20/99	3,863.15		57.27	0.00	3,805.88
MW-16	12/06/99	3,863.15	-	56.82	0.00	3,806.33
MW-17	01/27/99	3,859.17	-	58.95	0.00	3,800.22
MW-17	06/08/99	3,859.17	-	59.09	0.00	3,800.08
MW-17	08/20/99	3,859.17		59.25	0.00	3,799.92
MW-17	12/06/99	3,859.17	-	59.39	0.00	3,799.78
MW-18	01/27/99	3,859.98	-	58.59	0.00	3,801.39
MW-18	06/08/99	3,859.98	-	58.64	0.00	3,801.34
MW-18	08/20/99	3,859.98		58.99	0.00	3,800.99
MW-18	12/06/99	3,859.98	-	58.93	0.00	3,801.05
MW-19	01/27/99	3,862.30	-	59.72	0.00	3,802.58
MW-19	06/08/99	3,862.30	-	59.43	0.00	3,802.87
MW-19	08/20/99	3,862.30		60.12	0.00	3,802.18
MW-19	12/06/99	3,862.30	-	59.95	0.00	3,802.35
MW-20	01/27/99	3,861.30	-	58.85	0.00	3,802.45
MW-20	06/08/99	3,861.30	-	58.64	0.00	3,802.66
MW-20	08/20/99	3,861.30		59.27	0.00	3,802.03
MW-20	12/06/99	3,861.30	-	59.09	0.00	3,802.21
MW-21	01/27/99	3,862.30	-	59.65	0.00	3,802.65
MW-21	06/08/99	3,862.30	-	58.72	0.00	3,803.58
MW-21	08/20/99	3,862.30		59.55	0.00	3,802.75
MW-21	12/06/99	3,862.30	-	59.22	0.00	3,803.08
MW-22	01/27/99	3,864.01	-	57.26	0.00	3,806.75
MW-22	06/08/99	3,864.01	-	57.07	0.00	3,806.94
MW-22	08/20/99	3,864.01		57.81	0.00	3,806.20
MW-22	12/06/99	3,864.01	-	57.46	0.00	3,806.55
MW-23	01/27/99	3,862.44	-	55.99	0.00	3,806.45
MW-23	06/08/99	3,862.44	-	55.94	0.00	3,806.50
MW-23	08/20/99	3,862.44		56.39	0.00	3,806.05
MW-23	12/06/99	3,862.44	-	56.28	0.00	3,806.16
MW-24	01/27/99	3,864.36	-	56.88	0.00	3,807.48
MW-24	06/08/99	3,864.36	-	56.84	0.00	3,807.52
MW-24	08/20/99	3,864.36		57.41	0.00	3,806.95
MW-24	12/06/99	3,864.36	-	57.19	0.00	3,807.17
MW-25	01/27/99	3,864.16	-	55.67	0.00	3,808.49
MW-25	06/08/99	3,864.16	-	53.56	0.00	3,810.60
MW-25	08/20/99	3,864.16		56.02	0.00	3,808.14
MW-25	12/06/99	3,864.16	-	55.96	0.00	3,808.20

TABLE 2
GROUND WATER CHEMISTRY
SPS - 11
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT1015C

SAMPLE	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	mp-XYLENE (mg/L)	o-XYLENE (mg/L)
MW-1	01/27/99	8.58	0.63	1.84	0.90	0.26
MW-1	06/08/99	0.78	0.14	0.35	0.07	0.02
MW-1	08/20/99	6.54	0.078	1.36	0.605	0.217
MW-1	12/08/99	5.20	0.386	1.06	0.501	0.223
MW-2	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	06/08/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-2	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	12/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-3	06/08/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-3	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	12/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-4	01/27/99	0.003	<0.001	<0.001	<0.002	<0.001
MW-4	06/08/99	0.038	0.003	0.007	0.003	<0.001
MW-4	08/19/99	0.009	<0.001	0.002	<0.001	<0.001
MW-4	12/08/99	0.014	0.002	0.003	0.002	<0.001
MW-6	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	06/08/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	08/19/99	0.009	<0.001	<0.001	<0.001	<0.001
MW-6	12/08/99	0.011	<0.001	0.002	<0.001	<0.001
MW-7	01/27/99	0.075	0.008	0.052	<0.008	<0.004
MW-7	06/08/99	0.039	0.024	0.017	0.006	0.004
MW-7	08/19/99	0.039	0.008	0.018	0.005	0.004
MW-7	12/08/99	0.108	0.011	0.094	0.018	0.003
MW-9	01/27/99	1.08	<0.02	0.18	<0.04	<0.02
MW-9	06/08/99	0.373	<0.004	0.063	<0.008	<0.004
MW-9	08/19/99	0.725	0.163	0.365	0.252	0.104
MW-9	12/08/99	0.058	<0.001	0.022	0.004	<0.001
MW-10	01/27/99	0.15	<0.02	<0.02	<0.04	<0.02
MW-10	05/27/99	0.151	0.090	0.065	0.043	0.019
MW-10	08/19/99	0.040	0.007	0.006	0.006	0.003
MW-10	12/08/99	0.048	0.022	0.021	0.013	0.008
MW-11	01/27/99	3.21	<0.01	<0.01	<0.02	<0.01
MW-11	06/08/99	2.306	<0.005	<0.005	<0.010	<0.005
MW-11	08/20/99	1.73	<0.010	<0.010	<0.010	<0.010
MW-11	12/08/99	2.94	<0.001	<0.001	<0.001	<0.001
MW-12	01/27/99	0.262	0.006	0.078	0.023	<0.001
MW-12	05/27/99	0.152	0.013	0.011	0.011	0.006
MW-12	08/19/99	0.434	0.006	0.054	0.026	0.003
MW-12	12/08/99	0.604	0.012	0.080	0.030	0.004

Methods: EPA SW 846-8020, 5030

TABLE 2
GROUND WATER CHEMISTRY
SPS - 11
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT1015C

SAMPLE	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	mp-XYLENE (mg/L)	o-XYLENE (mg/L)
MW-13	01/27/99	<0.004	<0.004	<0.004	<0.008	<0.004
MW-13	05/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-13	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-13	12/08/99	0.001	<0.001	<0.001	<0.001	<0.001
MW-14	01/27/99	11.00	<0.05	1.70	0.45	0.19
MW-14	05/27/99	7.80	<0.02	0.80	0.27	0.11
MW-14	08/19/99	8.03	0.210	1.31	0.680	0.364
MW-14	12/08/99	7.97	0.022	1.18	0.459	0.233
MW-15	01/27/99	0.032	<0.001	<0.001	<0.002	<0.001
MW-15	05/26/99	0.009	<0.001	<0.001	<0.002	<0.001
MW-15	08/19/99	0.031	<0.001	0.001	<0.001	<0.001
MW-15	12/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-16	01/27/99	0.025	0.004	<0.001	<0.002	<0.001
MW-16	05/26/99	0.233	0.163	0.039	0.034	0.014
MW-16	08/19/99	0.065	0.004	0.002	0.002	<0.001
MW-16	12/08/99	0.055	0.025	0.005	0.005	0.002
MW-17	01/27/99	0.131	0.138	0.032	0.028	0.016
MW-17	05/27/99	0.431	0.413	0.118	0.105	0.043
MW-17	08/19/99	0.010	0.016	0.008	<0.001	0.004
MW-17	12/08/99	0.066	0.068	0.027	0.019	0.009
MW-18	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-18	05/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-18	08/19/99	<0.001	<0.001	0.001	<0.001	<0.001
MW-18	12/08/99	0.004	<0.001	0.002	0.002	<0.001
MW-19	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-19	05/26/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-19	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-19	12/08/99	0.008	0.001	0.002	0.002	<0.001
MW-20	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-20	05/26/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-20	08/20/99	0.002	<0.001	<0.001	<0.001	<0.001
MW-20	12/08/99	0.005	<0.001	0.002	0.001	<0.001
MW-21	01/27/99	0.010	<0.001	<0.001	<0.002	<0.001
MW-21	05/27/99	1.64	<0.01	<0.01	<0.02	<0.01
MW-21	08/20/99	0.701	<0.001	<0.001	<0.001	<0.001
MW-21	12/08/99	0.052	<0.001	<0.001	<0.001	<0.001
MW-22	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-22	05/26/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-22	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-22	12/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-23	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001

Methods: EPA SW 846-8020, 5030

TABLE 2
GROUND WATER CHEMISTRY
SPS - 11
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT1015C

SAMPLE	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	mp-XYLENE (mg/L)	o-XYLENE (mg/L)
MW-23	05/26/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-23	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-23	12/08/99	0.002	<0.001	<0.001	<0.001	<0.001
MW-24	01/27/99	1.81	0.02	0.01	<0.002	<0.001
MW-24	05/26/99	0.972	0.014	0.010	<0.008	<0.004
MW-24	08/19/99	2.29	<0.001	0.023	0.010	<0.001
MW-24	12/08/99	0.839	0.007	0.002	0.008	0.002
MW-25	01/27/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-25	05/26/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-25	08/19/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-25	12/08/99	<0.001	<0.001	<0.001	<0.001	<0.001

Methods: EPA SW 846-8020, 5030



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

February 12, 1999

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

Reference: XENCO Report No.: -90364
Project Name: TNMPL
Project ID: 610099-1
Project Address: SPS-11

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 -90364.N 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. -90364N 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!*



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

KEI Consultants, Inc.

Project ID: 610099-1

Project Name: TNMPL

XENCO COC#: -90364

Project Manager: Theresa Nix

Date Received in Lab: Jan 29, 1999 10:00 by CC

Project Location: SPS-11

XENCO contact : Carlos Castro/Karen Olson

Date and Time										Analysis	
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction			
1 MW-1	90364-001	BTEX	SW-846	ppm	10 days	Jan 27, 1999 15:10		Feb 3, 1999 by HL		Feb 3, 1999 22:19 by HL	
2		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 15:10					
3 MW-2	90364-002	BTEX	SW-846	ppm	10 days	Jan 27, 1999 15:00		Feb 3, 1999 by HL		Feb 3, 1999 16:02 by HL	
4		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 15:00					
5 MW-3	90364-003	BTEX	SW-846	ppm	10 days	Jan 27, 1999 14:45		Feb 3, 1999 by HL		Feb 3, 1999 14:49 by HL	
6		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 14:45					
7 MW-4	90364-004	BTEX	SW-846	ppm	10 days	Jan 27, 1999 16:25		Feb 3, 1999 by HL		Feb 3, 1999 16:20 by HL	
8		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 16:25					
9 MW-6	90364-005	BTEX	SW-846	ppm	10 days	Jan 27, 1999 11:25		Feb 3, 1999 by HL		Feb 3, 1999 16:38 by HL	
10		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 11:25					
11 MW-7	90364-006	BTEX	SW-846	ppm	10 days	Jan 27, 1999 16:10		Feb 3, 1999 by HL		Feb 3, 1999 19:56 by HL	
12		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 16:10					
13 MW-9	90364-007	BTEX	SW-846	ppm	10 days	Jan 27, 1999 10:40		Feb 3, 1999 by HL		Feb 3, 1999 21:26 by HL	
14		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 10:40					
15 MW-10	90364-008	BTEX	SW-846	ppm	10 days	Jan 27, 1999 16:00		Feb 3, 1999 by HL		Feb 3, 1999 21:44 by HL	
16		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 16:00					
17 MW-11	90364-009	BTEX	SW-846	ppm	10 days	Jan 27, 1999 14:30		Feb 3, 1999 by HL		Feb 3, 1999 22:01 by HL	
18		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 14:30					
19 MW-12	90364-010	BTEX	SW-846	ppm	10 days	Jan 27, 1999 11:40		Feb 3, 1999 by HL		Feb 3, 1999 17:14 by HL	
20		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 11:40					
21 MW-13	90364-011	BTEX	SW-846	ppm	10 days	Jan 27, 1999 10:55		Feb 3, 1999 by HL		Feb 3, 1999 20:14 by HL	
22		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 10:55					
23 MW-14	90364-012	BTEX	SW-846	ppm	10 days	Jan 27, 1999 13:40		Feb 3, 1999 by HL		Feb 3, 1999 22:37 by HL	
24		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 13:40					
25 MW-15	90364-013	BTEX	SW-846	ppm	10 days	Jan 27, 1999 12:00		Feb 3, 1999 by HL		Feb 3, 1999 17:32 by HL	
26		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 12:00					
27 MW-16	90364-014	BTEX	SW-846	ppm	10 days	Jan 27, 1999 10:15		Feb 3, 1999 by HL		Feb 3, 1999 17:50 by HL	
28		Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 10:15					

ANALYTICAL CHAIN CUSTODY REPORT CHRONOLOGY OF SAMPLES

KEI Consultants, Inc.

Project ID: 610099-1

Project Manager: Theresa Nix

Project Location: SPS-11

Project Name: TNMPL

XENCO COC#: -90364

Date Received in Lab: Jan 29, 1999 10:00 by CC

XENCO contact : Carlos Castro/Karen Olson

Field ID		Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
29 MW-17		90364-015	BTEX	SW-846	ppm	10 days	Jan 27, 1999 15:20		Feb 3, 1999 by HL	Feb 3, 1999 20:50 by HL
30			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 15:20			
31 MW-18		90364-016	BTEX	SW-846	ppm	10 days	Jan 27, 1999 15:35		Feb 3, 1999 by HL	Feb 3, 1999 18:44 by HL
32			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 15:35			
33 MW-19		90364-017	BTEX	SW-846	ppm	10 days	Jan 27, 1999 15:50		Feb 3, 1999 by HL	Feb 3, 1999 19:02 by HL
34			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 15:50			
35 MW-20		90364-018	BTEX	SW-846	ppm	10 days	Jan 27, 1999 14:15		Feb 3, 1999 by HL	Feb 3, 1999 19:20 by HL
36			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 14:15			
37 MW-21		90364-019	BTEX	SW-846	ppm	10 days	Jan 27, 1999 14:00		Feb 5, 1999 by HL	Feb 5, 1999 19:02 by HL
38			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 14:00			
39 MW-22		90364-020	BTEX	SW-846	ppm	10 days	Jan 27, 1999 11:10		Feb 5, 1999 by HL	Feb 5, 1999 19:56 by HL
40			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 11:10			
41 MW-23		90364-021	BTEX	SW-846	ppm	10 days	Jan 27, 1999 10:00		Feb 2, 1999 by HL	Feb 2, 1999 04:57 by HL
42			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 10:00			
43 MW-24		90364-022	BTEX	SW-846	ppm	10 days	Jan 27, 1999 09:40		Feb 2, 1999 by HL	Feb 2, 1999 14:33 by HL
44			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 09:40			
45 MW-25		90364-023	BTEX	SW-846	ppm	10 days	Jan 27, 1999 09:15		Feb 2, 1999 by HL	Feb 2, 1999 05:33 by HL
46			Headspace	SW-846 3810	mg/L	10 days	Jan 27, 1999 09:15			



CERTIFICATE OF ANALYSIS SUMMARY -90364

Project ID: 610099-1		KEI Consultants, Inc.		Date Received in Lab : Jan 29, 1999 10:00				
Project Manager: Theresa Nix		Project Name: TNMPL		Date Report Faxed: Feb 8, 1999				
Project Location: SPS-11		XENCO contact : Carlos Castro/Karen Olson						
Analysis Requested		Lab ID: Field ID: Depth: Matrix: Sampled:	90364 001 MW- 1 Liquid 01/27/99 15:10	90364 002 MW- 2 Liquid 01/27/99 15:00	90364 003 MW-3 Liquid 01/27/99 14:45	90364 004 MW- 4 Liquid 01/27/99 16:25	90364 005 MW-6 Liquid 01/27/99 11:25	90364 006 MW- 7 Liquid 01/27/99 16:10
BTEX	Analyzed: Units:	02/03/99 ppm	R.L.	02/03/99 ppm	R.L.	02/03/99 ppm	R.L.	02/03/99 ppm
EPA 8021B								
Benzene			8.58 (0.02)	< 0.001 (0.001)	< 0.001 (0.001)	0.003 (0.001)	< 0.001 (0.001)	0.075 (0.004)
Toluene			0.63 (0.02)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.008 (0.004)
Ethylbenzene			1.84 (0.02)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.052 (0.004)
m,p-Xylene			0.90 (0.04)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.008 (0.008)
o-Xylene			0.26 (0.02)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
Total BTEX			12.210	N.D.	N.D.	0.003	N.D.	0.135

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI 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.

Edith L. Cichmons, II
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY -90364

Project ID: 610099-1
Project Manager: Theresa Nix
Project Location: SPS-11

KEI Consultants, Inc.
Project Name: *TNMPL*

Date Received in Lab : Jan 29, 1999 10:00
Date Report Faxed: Feb 8, 1999
XENCO contact : Carlos Castro/Karen Olson

Analysis Requested		Lab ID: Field ID: Depth: Matrix: Sampled:	90364 007 MW-9 Liquid 01/27/99 10:40	90364 008 MW-10 Liquid 01/27/99 16:00	90364 009 MW-11 Liquid 01/27/99 14:30	90364 010 MW-12 Liquid 01/27/99 11:40	90364 011 MW-13 Liquid 01/27/99 10:55	90364 012 MW-14 Liquid 01/27/99 13:40
BTEX EPA 8021B	Analyzed: Units:		02/03/99 ppm	02/03/99 ppm	02/03/99 ppm	02/03/99 ppm	02/03/99 ppm	02/03/99 ppm
Benzene		1.08 (0.02)	0.15 (0.02)	3.21 (0.01)	0.262 (0.001)	< 0.004 (0.004)	< 0.004 (0.004)	11.00 (0.05)
Toluene		< 0.02 (0.02)	< 0.02 (0.02)	< 0.01 (0.01)	0.006 (0.001)	< 0.004 (0.004)	< 0.004 (0.004)	< 0.05 (0.05)
Ethylbenzene		0.18 (0.02)	< 0.02 (0.02)	< 0.01 (0.01)	0.078 (0.001)	< 0.004 (0.004)	< 0.004 (0.004)	1.70 (0.05)
m,p-Xylene		< 0.04 (0.04)	< 0.04 (0.04)	< 0.02 (0.02)	0.023 (0.002)	< 0.008 (0.008)	< 0.008 (0.008)	0.45 (0.10)
o-Xylene		< 0.02 (0.02)	< 0.02 (0.02)	< 0.01 (0.01)	< 0.001 (0.001)	< 0.004 (0.004)	< 0.004 (0.004)	0.19 (0.05)
Total BTEX		1.260	0.150	3.210	0.369	N.D.	N.D.	13.340

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Edgar L. Clements, II
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY -90364

KEI Consultants, Inc.

Project ID: 610099-1
Project Manager: Theresa Nix
Project Location: SPS-11

Date Received in Lab : Jan 29, 1999 10:00

Date Report Faxed: Feb 8, 1999

XENCO contact : Carlos Castro/Karen Olson

Analysis Requested		Lab ID: Field ID: Depth: Matrix: Sampled:	90364 013 MW-15 Liquid 01/27/99 12:00	90364 014 MW-16 Liquid 01/27/99 10:15	90364 015 MW-17 Liquid 01/27/99 15:20	90364 016 MW-18 Liquid 01/27/99 15:35	90364 017 MW-19 Liquid 01/27/99 15:50	90364 018 MW-20 Liquid 01/27/99 14:15
BTEX EPA 8021B	Analyzed: Units:		R.L. ppm	R.L. ppm	R.L. ppm	R.L. ppm	R.L. ppm	R.L. ppm
Benzene			0.032 (0.001)	0.025 (0.001)	0.131 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Toluene			< 0.001 (0.001)	0.004 (0.001)	0.138 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Ethylbenzene			< 0.001 (0.001)	< 0.001 (0.001)	0.032 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylene			< 0.002 (0.002)	< 0.002 (0.002)	0.028 (0.008)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
o-Xylene			< 0.001 (0.001)	< 0.001 (0.001)	0.016 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Total BTEX			0.032	0.029	0.345	N.D.	N.D.	N.D.

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Eddie L. Clentons, II
Eddie L. Clentons, II
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY -90364

Project ID: 610099-1
Project Manager: Theresa Nix
Project Location: SPS-11

KEI Consultants, Inc.
Project Name: TNMPL

Date Received in Lab : Jan 29, 1999 10:00
Date Report Faxed: Feb 8, 1999

XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:		90364 019 MW-21 Liquid 01/27/99 14:00	90364 020 MW-22 Liquid 01/27/99 11:00	90364 021 MW-23 Liquid 01/27/99 10:00	90364 022 MW-24 Liquid 01/27/99 09:40	90364 023 MW-25 Liquid 01/27/99 09:15
	Analyzed: Units:						
BTEX EPA 8021B							
Benzene		0.010 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	1.81 (0.01)	02/02/99 R.L. ppm < 0.001 (0.001)
Toluene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.02 (0.01)	< 0.001 (0.001)
Ethylbenzene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.01 (0.01)	< 0.001 (0.001)
m,p-Xylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.02 (0.02)	< 0.002 (0.002)
o-Xylene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.01 (0.01)	< 0.001 (0.001)
Total BTEX		0.010	N.D.	N.D.	N.D.	1.840	N.D.

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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. Clemmons, II
QVQC Manager



Certificate Of Quality Control for Batch : 19A25A58

SW- 346 5030/3021B BTEx

Date Validated: Feb 4, 1999 13:45

Date Analyzed: Feb 3, 1999 15:07

Analyst: HL

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY											
Q.C. Sample ID 90364- 003 Parameter	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
	Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Detection Limit ppm	Limit Relative Difference %	QC	QC	QC	Matrix Spike Recovery Range %	Qualifier
							Spike Relative Difference %	Matrix Spike Recovery %	M.S.D. Recovery %		
Benzene	< 0.0010	0.1000	0.1080	0.1000	0.0010	20.0	7.7	100.0	108.0	65-135	
Toluene	< 0.0010	0.1020	0.1100	0.1000	0.0010	20.0	7.5	102.0	110.0	65-135	
Ethylbenzene	< 0.0010	0.1010	0.1080	0.1000	0.0010	20.0	6.7	101.0	108.0	65-135	
m,p-Xylene	< 0.0020	0.2040	0.2180	0.2000	0.0020	20.0	6.6	102.0	109.0	65-135	
o-Xylene	< 0.0010	0.1030	0.1110	0.1000	0.0010	20.0	7.5	103.0	111.0	65-135	

Spike Relative Difference [F] = $200 \cdot (B-C)/(B+C)$
Matrix Spike Recovery [G] = $100 \cdot (B-A)/[D]$
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$
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

SW- 846 5030/8021B BTEX

Date Validated: Feb 4, 1999 13:45

Analyst: HL

Date Analyzed: Feb 3, 1999 14:13

Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	Qualifier
	Blank	Blank Spike	Blank	Detection	QC	LIMITS	
	Result	Result	Spike		Blank Spike	Recovery	
	ppm	ppm	Amount	Limit	Recovery	Range	
			ppm	ppm	%	%	
Benzene	< 0.0010	0.0958	0.1000	0.0010	95.8	65-135	
Toluene	< 0.0010	0.0964	0.1000	0.0010	96.4	65-135	
Ethylbenzene	< 0.0010	0.0949	0.1000	0.0010	94.9	65-135	
m,p-Xylene	< 0.0020	0.1930	0.2000	0.0020	96.5	65-135	
o-Xylene	< 0.0010	0.0981	0.1000	0.0010	98.1	65-135	

 Spike Recovery [E] = $100 \times (B-A)/(C)$

= 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

SW- 346 5030/3021B BTEX

Date Validated: Feb 8, 1999 08:00

Analyst: HL

Date Analyzed: Feb 5, 1999 14:49

Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Detection	QC	LIMITS	Qualifier
	Result	Result	Spike		Blank Spike	Recovery	
	ppm	ppm	Amount	Limit	Recovery	Range	
			ppm	ppm	%	%	
Benzene	< 0.0010	0.0872	0.1000	0.0010	87.2	65-135	
Toluene	< 0.0010	0.0850	0.1000	0.0010	85.0	65-135	
Ethylbenzene	< 0.0010	0.0854	0.1000	0.0010	85.4	65-135	
m,p-Xylene	< 0.0020	0.1740	0.2000	0.0020	87.0	65-135	
o-Xylene	< 0.0010	0.0883	0.1000	0.0010	88.3	65-135	

 Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

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



Certificate Of Quality Control for Batch : 19A25A63

SW- 346 5030/3021B BTX

Date Validated: Feb 8, 1999 08:00

Date Analyzed: Feb 5, 1999 19:02

Analyst: HL

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY														
Q.C. Sample ID 90364- 019	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]		
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Detection Limit ppm	Limit	Relative Difference %	QC	QC	QC	Matrix Spike Recovery Range %	Qualifier	
									Spike Relative Difference %	Matrix Spike Recovery %	M.S.D. Recovery %			
Benzene		0.0104	0.0993	0.0995	0.1000	0.0010	20.0	0.2	88.9	89.1	65-135			
Toluene		< 0.0010	0.0992	0.0988	0.1000	0.0010	20.0	0.4	99.2	98.8	65-135			
Ethylbenzene		< 0.0010	0.0986	0.0989	0.1000	0.0010	20.0	0.3	98.6	98.9	65-135			
m,p-Xylene		< 0.0020	0.2000	0.2000	0.2000	0.0020	20.0	0.0	100.0	100.0	65-135			
o-Xylene		< 0.0010	0.1020	0.1020	0.1000	0.0010	20.0	0.0	102.0	102.0	65-135			

Spike Relative Difference [F] = $200 \cdot (B-C)/(B+C)$
Matrix Spike Recovery [G] = $100 \cdot (B-A)/[D]$
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$
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



- ☐ 11381 Meadowglenn, 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

15991

Page / of 3

Company COC No: 245 Work Order No:

Company KEI		Phone (210) 680-3767		Lab Only:		90364 -SA		Lab Only Additions			
Project Name TRMPL 610099-1		Project ID		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		Remarks		Date: Rev by: From:			
Location SPS-11		Project Director (PD)		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		Remarks		Date: Rev by: From:			
Project Manager (PM) THECRESA WIX		Fax (210) 680-3763		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		Remarks		Date: Rev by: From:			
Invoice to Accounting ☐ Include Invoice with Final Report Attn PM ☒ Invoice must have a P.O. Bill to: 610099-1		P.O. No.		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		Remarks		Date: Rev by: From:			
Quoto No.		Special Dls (RRI RR II DW QAPP See Lab PM Call Proj. PM)		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		Remarks		Date: Rev by: From:			
Specifications		Sampler Name DW Arreene Signature DW Arreene		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		Remarks		Date: Rev by: From:			
Sample ID	Sampling Date	Time	Depth	Matrix	Composite	Grob	# Containers	Container Size	Type	Preservatives	
MW-1	1/27/99	1510	W	X	4	SC	SC	SC	SC	SC	
MW-2		1500									
MW-3		1445									
MW-4		1625									
MW-5		1125									
MW-7		1610									
MW-9		1040									
MW-10		1600									
MW-11		1430									
MW-12		1140									
Relinquished by (Initials and Signature)		Relinquished to (Initials and Signature)		Date & Time		Total Containers per COC:		Rush TATs Fax Due:		Final Report Data Package Due Date:	
DW Arreene		Costa		1/29/99 10:00		1/29/99 1730		1/29/99 1730		1/29/99 1730	
Signature		Signature		Date		Date		Date		Date	

Preservatives - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), NaOH+Asbic Acid (NAA), ZnAc+NaOH (ZA), (Cool<4C) (C4), None (N), See Label (SL), Other (O)
SIZE, Atm (4), Bot (B), 32oz (32), 40ml VOA (V), 11 (1), 500ml (-5), Fertilizer Bag (B), Wipe (W), Other

TYPE Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O)



- ☐ 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

13990

Work Order No:

Page 2 of 3

Company XENCO		Lab Only: 903611-SA		Lab Only Additions	
Project Name THML 610049-1-0		Project ID (210) 680-3767		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	
Location SPS-11		Project Director (PD)		Remarks	
Project Manager (PM) THARISA WILSON		Fax (210) 680-3763			
Fax Results to: ☒ PM and / or ☐ P.O. No.		Invoice to: ☒ Accounting ☐ Include Invoice with Final Report All in PM ☒ Invoice must have a P.O. Bill to: 610049-1			
Quote No.		Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)			
Specifications		Signature [Signature]			
Sample ID		Sampling Date		Time	
1 MW-13		1/27/99		1055	
2 MW-14				1340	
3 MW-15				1200	
4 MW-16				1015	
5 MW-17				1520	
6 MW-18				1535	
7 MW-19				1560	
8 MW-20				1415	
9 MW-21				1400	
10 MW-22				1110	
Relinquished by (Initials and Signature)		Relinquished to (Initials and Signature)		Date & Time	
[Signature]		[Signature]		1/27/99 1730	
Total Containers per COC:		Rush TATs Fax Due:		Final Report Data Package Due Date:	
10		1/29/99 10:00		1/29/99 1730	
Lab: [Signature]		Lab: [Signature]		Final Report Data Package Due Date:	
1		1		1	
2		2		2	
3		3		3	
4		4		4	
5		5		5	
6		6		6	
7		7		7	
8		8		8	
9		9		9	
10		10		10	

Preservatives - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), NaOH pH<2 (Na), ZnAc NaOH (ZA), Coolant (CA), None (N), See Label (SL), Other (O)
SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tectar Bag (B), Wipe (W), Other _____ TYPE Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O)



- ☐ 11381 Meadowglen, Suite L, Houston TX 77082 281-589-0492
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ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
On-LINE Help & Technical Services at XENCO.com

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Page 3 of 3

Work Order No:

Company COC No: 246

Company KEL		Phone (210) 680-3767		Lab Only: 90364-SA		Lab Only Additions															
Project Name TRMPC 610099-1		Previously done at XENCO ☒		Project ID																	
Location SPS-11																					
Project Manager (PM) THIENEST HIK		Project Director (PD)																			
Fax Results to AKPM and / or		Fax (210) 680-3763																			
Invoice to ☒ Accounting, ☐ Include Invoice with Final Report Attn PM		☒ Invoice must have a P.O. Bill to: 610099-1																			
Quote No.		P.O. No.																			
Special DLs (RR1 RR2 DW QAPP See Lab PM Call Proj. PM)																					
Specifications																					
Samples Made Amesive Signature		Signature																			
Sample ID	Sampling Date	Time	Dep't	Motrix A.P.S.W.	Composite	Grob	# Containers	Container Size	Type	Preservatives											
MW-23	1/27/99	1000		W		X	4	V	GA	TH											
MW-24		0740																			
MW-25		0715																			
Relinquished by (Initials and Signature)											Relinquished to (Initials and Signature)										
Date 1/27/99											Date 1/27/99										
Time 1000											Time 1000										
Signature											Signature										
Lab Amesive											Lab Amesive										
Proteolysis - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), NaOH+H2O2 (A), Zn/C+NaOH (ZA), (Cool.<4C) (C4), None (N), See Label (SL), Other (O)											Proteolysis - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), NaOH+H2O2 (A), Zn/C+NaOH (ZA), (Cool.<4C) (C4), None (N), See Label (SL), Other (O)										
SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 11 (1), 500ml (5), Teflon Bag (B), Wipe (W), Other											SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 11 (1), 500ml (5), Teflon Bag (B), Wipe (W), Other										
TYPE: Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O)											TYPE: Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O)										



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

June 11, 1999

Project Manager: S.Grover/T. Nix
KEI Consultants, Ltd.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: XENCO Report No.: -92149
Project Name: SPS-11
Project ID: 910037-1-0
Project Address: Lea County, NM

Dear S.Grover/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 -92149./ 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.

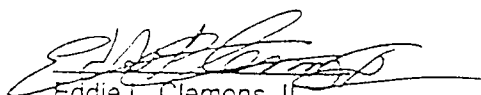
All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly 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. -92149/ 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.

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A Small Business and Minority Status Company that delivers SERVICE and QUALITY!

ANALYTICAL CHAIN CUSTODY REPORT

CHRONOLOGY OF SAMPLES

KEI Consultants, Ltd.

Project ID: 910037-1-0
 Project Manager: S.Grover/T. Nix
 Project Location: Lea County, NM

Project Name: SPS-11

XENCO COC#: -92149

Date Received in Lab: May 28, 1999 09:55 by CC

XENCO contact : Carlos Castro/Debbie Simmons

Field ID	Lab ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Date and Time	Analysis
1 MW-10	92149-001	DTEx	SW-846	ppm	7 days	May 27, 1999 16:10		Jun 3, 1999 by HAL	Jun 4, 1999 00:59 by HA
2		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 16:10			
3 MW-12	92149-002	DTEx	SW-846	ppm	7 days	May 27, 1999 13:16		Jun 3, 1999 by HAL	Jun 3, 1999 20:16 by HA
4		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 13:15			
5 MW-13	92149-003	DTEx	SW-846	ppm	7 days	May 27, 1999 12:15		Jun 3, 1999 by HAL	Jun 3, 1999 20:34 by HA
6		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 12:15			
7 MW-14	92149-004	DTEx	SW-846	ppm	7 days	May 27, 1999 16:45		Jun 4, 1999 by HAL	Jun 4, 1999 07:33 by HA
8		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 15:45			
9 MW-15	92149-005	DTEx	SW-846	ppm	7 days	May 26, 1999 16:30		Jun 4, 1999 by HAL	Jun 4, 1999 09:02 by HA
10		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 16:30			
11 MW-16	92149-006	DTEx	SW-846	ppm	7 days	May 26, 1999 17:15		Jun 3, 1999 by HAL	Jun 4, 1999 01:52 by HA
12		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 17:15			
13 MW-17	92149-007	DTEx	SW-846	ppm	7 days	May 27, 1999 16:00		Jun 3, 1999 by HAL	Jun 4, 1999 02:10 by HA
14		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 16:00			
15 MW-18	92149-008	DTEx	SW-846	ppm	7 days	May 27, 1999 16:20		Jun 3, 1999 by HAL	Jun 3, 1999 20:51 by HA
16		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 16:20			
17 MW-19	92149-009	DTEx	SW-846	ppm	7 days	May 26, 1999 13:15		Jun 3, 1999 by HAL	Jun 3, 1999 21:09 by HA
18		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 13:15			
19 MW-20	92149-010	DTEx	SW-846	ppm	7 days	May 26, 1999 12:45		Jun 3, 1999 by HAL	Jun 3, 1999 21:27 by HA
20		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 12:45			
21 MW-21	92149-011	DTEx	SW-846	ppm	7 days	May 27, 1999 14:15		Jun 4, 1999 by HAL	Jun 4, 1999 07:51 by HA
22		Headspace	SW-846 3810	mg/L	7 days	May 27, 1999 14:15			
23 MW-22	92149-012	DTEx	SW-846	ppm	7 days	May 26, 1999 13:45		Jun 3, 1999 by HAL	Jun 3, 1999 22:02 by HA
24		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 13:45			
25 MW-23	92149-013	DTEx	SW-846	ppm	7 days	May 26, 1999 12:15		Jun 3, 1999 by HAL	Jun 3, 1999 22:20 by HA
26		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 12:15			
27 MW-24	92149-014	DTEx	SW-846	ppm	7 days	May 26, 1999 13:45		Jun 4, 1999 by HAL	Jun 4, 1999 08:09 by HA
28		Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 13:45			

ANALYTICAL CHAIN CUSTODY REPORT

CHRONOLOGY OF SAMPLES

KEI Consultants, Ltd.

XENCO COC#: -92149

Project ID: 910037-1-0

Project Manager: S.Grover/T. Nix

Project Location: Lea County, NM

Date Received in Lab: May 28, 1999 09:55 by CC

XENCO contact : Carlos Castro/Debbie Simmons

Project Name: SPS-11

Field ID		Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Additional Requested	Extraction	Analysis
29	MW-25	92149-015	BTEX	SW-846	ppm	7 days	May 26, 1999 10:20		Jun 3, 1999 by HAL	Jun 3, 1999 22:55 by HA
30			Headspace	SW-846 3810	mg/L	7 days	May 26, 1999 10:20			

Project ID: 910037-1-0

Project Manager: S.Grover/T.Nix

Project Location: Lea County, NM

KEI Consultants, Ltd.

Project Name: SPS-11 EOTT

Date Received in Lab : Jun 9, 1999 10:05

Date Report Faxed: Jun 11, 1999

XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	92288 001 MW-1 Liquid 06/08/99 08:00 ppm	92288 002 MW-2 Liquid 06/08/99 08:45 ppm	92288 003 MW-3 Liquid 06/08/99 10:00 ppm	92288 004 MW-4 Liquid 06/08/99 11:00 ppm	92288 005 MW-5 Liquid 06/08/99 12:00 ppm	92288 006 MW-7 Liquid 06/08/99 13:00 ppm
BTEX	Analyzed: Units:	06/10/99 ppm	06/10/99 ppm	06/10/99 ppm	06/10/99 ppm	06/10/99 ppm	06/10/99 ppm
EPA 8021B							
Benzene		0.78 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	0.038 (0.001)	< 0.001 (0.001)	0.039 (0.001)
Toluene		0.14 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	0.003 (0.001)	< 0.001 (0.001)	0.024 (0.001)
Ethylbenzene		0.35 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	0.007 (0.001)	< 0.001 (0.001)	0.017 (0.001)
m,p-Xylene		0.07 (0.02)	< 0.002 (0.002)	< 0.002 (0.002)	0.003 (0.002)	< 0.002 (0.002)	0.006 (0.002)
o-Xylene		0.02 (0.01)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.004 (0.001)
Total BTEX		1.360	N.D.	N.D.	0.051	N.D.	0.090

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Eddie L. Clemons, II
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY -92288

Project ID: 910037-1-0
Project Manager: S.Grover/T.Nix
Project Location: Lea County, NM

KEI Consultants, Ltd.
Project Name: SPS-11 EOTT

Date Received in Lab: Jun 9, 1999 10:05
Date Report Faxed: Jun 11, 1999
XENCO contact: Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:		92288 007 MW-9 Liquid 06/08/99 13:30	92288 008 MW-11 Liquid 06/08/99 14:00			
	Analyzed: Units:		ppm	ppm			
BTEX							
EPA 8021B							
Benzene			0.373 (0.004)	2.306 (0.005)			
Toluene			< 0.004 (0.004)	< 0.005 (0.005)			
Ethylbenzene			0.063 (0.004)	< 0.005 (0.005)			
m,p-Xylene			< 0.008 (0.008)	< 0.010 (0.010)			
o-Xylene			< 0.004 (0.004)	< 0.005 (0.005)			
Total BTEX			0.436	2.306			

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Eddie L. Clemons, II
QA/QC Manager

Project ID: 910037-1-0

Project Manager: S.Grover/T. Nix

Project Location: Lea County, NM

KEI Consultants, Ltd.

Project Name: SPS-T1

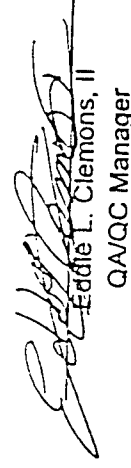
Date Received in Lab : May 28, 1999 09:55

Date Report Faxed: Jun 11, 1999

XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	92149 001 MW-10 Liquid 05/27/99 16:10	92149 002 MW-12 Liquid 05/27/99 13:15	92149 003 MW-13 Liquid 05/27/99 12:15	92149 004 MW-14 Liquid 05/27/99 15:45	92149 005 MW-15 Liquid 05/26/99 16:30	92149 006 MW-16 Liquid 05/26/99 17:15
BTEX	Analyzed: Units:	06/04/99 ppm	06/03/99 ppm	06/03/99 ppm	06/04/99 ppm	06/04/99 ppm	06/04/99 ppm
EPA 8021B		R.L.	R.L.	R.L.	R.L.	R.L.	R.L.
Benzene		0.151 (0.004)	0.152 (0.001)	< 0.001 (0.001)	7.80 (0.02)	0.009 (0.001)	0.233 (0.004)
Toluene		0.090 (0.004)	0.013 (0.001)	< 0.001 (0.001)	< 0.02 (0.02)	< 0.001 (0.001)	0.163 (0.004)
Ethylbenzene		0.065 (0.004)	0.011 (0.001)	< 0.001 (0.001)	0.80 (0.02)	< 0.001 (0.001)	0.039 (0.004)
m,p-Xylene		0.043 (0.008)	0.011 (0.002)	< 0.002 (0.002)	0.27 (0.04)	< 0.002 (0.002)	0.034 (0.008)
o-Xylene		0.019 (0.004)	0.006 (0.001)	< 0.001 (0.001)	0.11 (0.02)	< 0.001 (0.001)	0.014 (0.004)
Total BTEX		0.368	0.193	N.D.	8.980	0.009	0.483

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Eddie L. Clemmons, II
QA/QC Manager

KEI Consultants, Ltd.

Project ID: 910037-1-0

Project Manager: S.Grover/T. Nix

Project Location: Lea County, NM

Project Name: SPS-11

Date Received in Lab : May 28, 1999 09:55

Date Report Faxed: Jun 11, 1999

XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	92149 007	92149 008	92149 009	92149 010	92149 011	92149 012
		MW-17 Liquid 05/27/99 16:00	MW-18 Liquid 05/27/99 16:20	MW-19 Liquid 05/26/99 13:15	MW-20 Liquid 05/26/99 12:45	MW-21 Liquid 05/27/99 14:15	MW-22 Liquid 05/26/99 13:45
BTEX	Analyzed: Units:	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.
EPA 8021B		ppm	ppm	ppm	ppm	ppm	ppm
Benzene		0.431 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	1.64 (0.01)	< 0.001 (0.001)
Toluene		0.413 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.01 (0.01)	< 0.001 (0.001)
Ethylbenzene		0.118 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.01 (0.01)	< 0.001 (0.001)
m,p-Xylene		0.105 (0.008)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.02 (0.02)	< 0.002 (0.002)
o-Xylene		0.043 (0.004)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.01 (0.01)	< 0.001 (0.001)
Total BTEX		1.110	N.D.	N.D.	N.D.	1.640	N.D.

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Eddie L. Clemons, II
QA/QC Manager

KEI Consultants, Ltd.

Project Name: SPS-11

Project ID: 910037-1-0

Project Manager: S.Grover/T. Nix

Project Location: Lea County, NM

Date Received in Lab : May 28, 1999 09:55

Date Report Faxed: Jun 11, 1999

XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	92149 013 MW-23 Liquid 05/26/99 12:15	92149 014 MW-24 Liquid 05/26/99 13:45	92149 015 MW-25 Liquid 05/26/99 10:20		
BTEX	Analyzed: Units:	R.L.	R.L.	R.L.		
EPA 8021B		06/03/99 ppm	06/04/99 ppm	06/03/99 ppm		
Benzene		< 0.001 (0.001)	0.972 (0.004)	< 0.001 (0.001)		
Toluene		< 0.001 (0.001)	0.014 (0.004)	< 0.001 (0.001)		
Ethylbenzene		< 0.001 (0.001)	0.010 (0.004)	< 0.001 (0.001)		
m,p-Xylene		< 0.002 (0.002)	< 0.008 (0.008)	< 0.002 (0.002)		
o-Xylene		< 0.001 (0.001)	< 0.004 (0.004)	< 0.001 (0.001)		
Total BTEX		N.D.	0.996	N.D.		

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consultants, Ltd.. 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. Clemmons, II
QA/QC Manager



Certificate Of Quality Control for Batch: 19A25C41

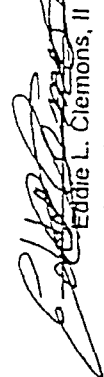
SW- 346 5030/3021B BTEX

Date Validated: Jun 4, 1999 12:00
Date Analyzed: Jun 3, 1999 19:23

Analyst: HA
Matrix: Liquid

Parameter	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY									
	[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]		[G]	
							QC	Spike Relative Difference %	QC	Blank Spike Recovery Range %
Benzene	< 0.0010	0.1059	0.1029	0.1000	0.0010	20.0	2.9	102.9	102.9	65-135
Toluene	< 0.0010	0.1040	0.1011	0.1000	0.0010	20.0	2.8	101.1	101.1	65-135
Ethylbenzene	< 0.0010	0.1018	0.0986	0.1000	0.0010	20.0	3.2	98.6	98.6	65-135
m,p-Xylene	< 0.0020	0.2026	0.1970	0.2000	0.0020	20.0	2.8	98.5	98.5	65-135
o-Xylene	< 0.0010	0.1059	0.1045	0.1000	0.0010	20.0	1.3	104.5	104.5	65-135

Spike Relative Difference [F] = $200 \cdot (B - C) / (B + C)$
Blank Spike Recovery [G] = $100 \cdot (B - A) / (D)$
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = $100 \cdot (C - A) / (D)$
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



1138 E. Lower Canyon Blvd. Suite 104, San Antonio, TX 78238 210-509-3334
5309 Wurzbach Road, Suite 104, San Antonio, TX 78238 210-509-3334
11078 Marlison Road, Suite D, Dallas, TX 75226 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
On-LINE Help & Technical Services at XENCO.com
Company COC No: 345 Work Order No: 910037-1-Page 1 of 2

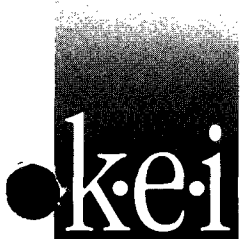
612

Company ICEI		Phone (210) 680-3767		Lab Only: 92149 -SA		Lab Only Additions					
Project Name SPS-11		Previously done at XENCO		Project ID 910037-1-0		From: From: From:					
Location LEA COUNTY NM		Project Director (PD) T. SAVOIE		Fax (210) 680-3763 / (512) 364-3556		Date: Rcv by: Date: Rcv by: Date: Rcv by:					
Project Manager (PM) S. GROVER/T. NIX		Include Invoice with Final Report Attn PM ☐ Involco		Must have a P.O. Bill to: 910037-1-0		From: From: From:					
Quote No. 910037-1-0		P.O. No. 910037-1-0		Call for a P.O.		Date: Rcv by: Date: Rcv by: Date: Rcv by:					
Special Dis (Init) IR II DW QAPP		See Lab PM Call Proj. PM		Call Proj. PM		Date: Rcv by: Date: Rcv by: Date: Rcv by:					
Specifications						Date: Rcv by: Date: Rcv by: Date: Rcv by:					
Sampler Name Ken Dutton		Signature [Signature]				Date: Rcv by: Date: Rcv by: Date: Rcv by:					
Sample ID	Sampling Date	Time	Depth	Matrix	Composite	Glob	# Containers	Container Size	Type	Preservatives	
MW-10	5/27/99	1610		W	X	X	4	V	GA	GA	
MW-11	5/27/99	1545									
MW-12	5/27/99	1315									
MW-13	5/27/99	1215									
MW-14	5/24/99	1545									
MW-15	5/24/99	1630									
MW-16	5/26/99	1715									
MW-17	5/27/99	1600									
MW-18	5/27/99	1620									
MW-19	5/26/99	1315									
Relinquished to (Initials and Signature)			Relinquished to (Initials and Signature)			Relinquished to (Initials and Signature)			Relinquished to (Initials and Signature)		
Lab: [Signature]			Lab: [Signature]			Lab: [Signature]			Lab: [Signature]		
Date & Time 5/28/99 09:55			Date & Time 5/28/99 09:55			Date & Time 5/28/99 09:55			Date & Time 5/28/99 09:55		
Total Containers per COC: 64			Total Containers per COC: 64			Total Containers per COC: 64			Total Containers per COC: 64		
Rush TATs Fax Due: 5/28/99			Rush TATs Fax Due: 5/28/99			Rush TATs Fax Due: 5/28/99			Rush TATs Fax Due: 5/28/99		
Final Report Data Package Due Date: 5/28/99			Final Report Data Package Due Date: 5/28/99			Final Report Data Package Due Date: 5/28/99			Final Report Data Package Due Date: 5/28/99		
Final Fax Due: 5/28/99			Final Fax Due: 5/28/99			Final Fax Due: 5/28/99			Final Fax Due: 5/28/99		

Remarks: **1, NIX (512) 364-3699**
2, G. ROVER (512) 364-3699
3, Not sampled at this time (S.G.)
4, METHANE
5, VZ UPS (N240 1475 603)

PRASORVALLOS - Various (V), HCl pH<2 (H), H2SO4 pH<2 (S), HNO3 pH<2 (N), NaOH+Ascorbic Acid (NAA), ZnAc+NaOH (ZNA), Coolant (CA), None (N), See Label (SL), Other (O)
SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Teflon Bag (B), Wipe (W), Other (O) TYPE Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O)

Preservallives - Various (V), IICI pH<2 (H), I12SO4 pH<2 (S), HNO4 pH<2 (N), NaOH/ascb 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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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

RECEIVED

FEB 10 1999

PREPARED BY:

KEI

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Summer Ford
Project Manager

Theresa Nix
Project Manager

for Paul B. Hartnett, P.E.
Senior Engineer

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 - Certified Laboratory Reports
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 - QA/QC Procedures

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 an annual 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.

This report addresses all activities conducted for the annual period of 1998. Ground water monitoring was conducted during the first, second, third, and fourth quarters of 1998 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 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 Buffalo Wallow.
- 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.

01/07/98: Sampled the system effluent for VOCs.

01/13/98: Sampled the system effluent, PW-1, and PW-2 for VOCs.

01/22/98: Conducted a ground water monitoring and sampling event.

02/12/98: Sampled the system effluent, PW-1, and PW-2 for VOCs.

03/23/98: Sampled the system effluent, PW-1, and PW-2 for VOCs.

04/13/98: Sampled the system effluent, PW-1, and PW-2 for VOCs.

04/14/98: Conducted a ground water monitoring and sampling event.

05/05/98: Sampled the system effluent, PW-1, and PW-2 for VOCs.

06/04/98: Sampled PW-1 and PW-2 for VOCs.

07/11/98: Conducted a ground water monitoring and sampling event.

07/27/98: Sampled PW-1 and PW-2 for VOCs.

08/13/98: Sampled PW-1 and PW-2 for VOCs.

09/24/98: Sampled the system effluent, PW-1, and PW-2 for VOCs.

10/28/98: Conducted a ground water monitoring and sampling event.

10/29/98: Sampled PW-1 and PW-2 for VOCs.

11/18/98: Sampled PW-1 and PW-2 for VOCs.

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 pumping wells PW-1 and PW-2 monthly. Locations of the monitoring wells are indicated on FIG. 1.

During each sampling event, the monitoring wells designated to be sampled were purged of approximately 3 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 Pate Trucking of Hobbs, New Mexico.

LABORATORY RESULTS

Water samples obtained during each event were mailed to the New Mexico State University Soil Water and Air Testing Lab (SWAT) in Las Cruces, New Mexico or Xenco Laboratories in San Antonio, Texas for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) concentrations by EPA Method SW846-8020 and 8021B. Ground water samples collected during the fourth quarter of 1998 were also submitted for determination of polycyclic aromatic hydrocarbon (PAH) concentrations by EPA Method 8270 and New Mexico Water Quality Control Commission (WQCC) metals by EPA Method 6020.

Laboratory results for ground water samples obtained during the annual period indicated the following concentration ranges:

PARAMETER	CONCENTRATION RANGE (mg/l)
Benzene	ND to 12.3
BTEX	ND to 17.1
Arsenic	ND to 0.07
Barium	0.100 to 1.20
Boron	ND to 0.41
Calcium	65.9 to 278
Copper	ND to 0.08
Iron	ND to 7.61
Magnesium	8.6 to 53.8
Manganese	ND to 0.45
Silicon	17.3 to 27.6
Strontium	ND to 1.24
Tin	ND to 0.94
Vanadium	ND to 0.04
Zinc	ND to 0.57
Naphthalene	ND to 0.040

All metals and PAH constituents not listed above were non-detectable (ND) by laboratory methods.

During the most recent monitoring event conducted in October 1998, benzene concentrations ranged from ND to 12.3 mg/l and BTEX concentrations ranged from ND to 17.1 mg/l. A barium concentration of 1.20 mg/l, which exceeds the New Mexico WQCC standards, was noted in MW-1.

Historical laboratory results are summarized in TABLES I through IV. BTEX results are also graphically presented on FIGs. 2 through 5. Benzene, BTEX, PAH, and metal constituent isopleths from the October 1998 monitoring event are presented on 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 October 1998 water level measurements indicated a general gradient of approximately 0.003 ft/ft to the southeast. The depth to ground water ranged from approximately 52.54 to 56.33 feet below ground surface on December 31, 1998. This data is generally consistent with previous information obtained at the site. PSH was detected in PW-2 during the annual period with a thickness ranging from 0.01 to 1.45 feet. Ground water contours are presented on FIGs. 2 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 211 days. During this time, records indicate approximately 412,689 barrels 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 for determination of volatile organic compound concentrations. The system was not sampled in December 1998 due to restricted flow through the carbon and system subsequently shut down.

Historical effluent flow data is summarized in TABLE VI. Historical system sampling data is summarized in TABLES VII through IX. Copies of the certified laboratory reports, chain-of-custody documentation, and QA/QC procedures are presented in APPENDIX B.

PLANNED 1999 ACTIVITIES

- Continue monthly gauging of all monitoring and pumping wells.
- Continue quarterly gauging and sampling of effluent and pumping wells for VOC1 list, nitrates sampled for annually.
- Continue quarterly sampling of monitoring wells for BTEX, WQCC metals and PAH sampled for annually
- Begin quarterly/semi-annual sampling for natural attenuation parameters.
- Continued evaluation of remediation system objectives.
- Evaluation of treated effluent discharge alternatives.



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.

Monitoring Well installed by Texaco Research and Development

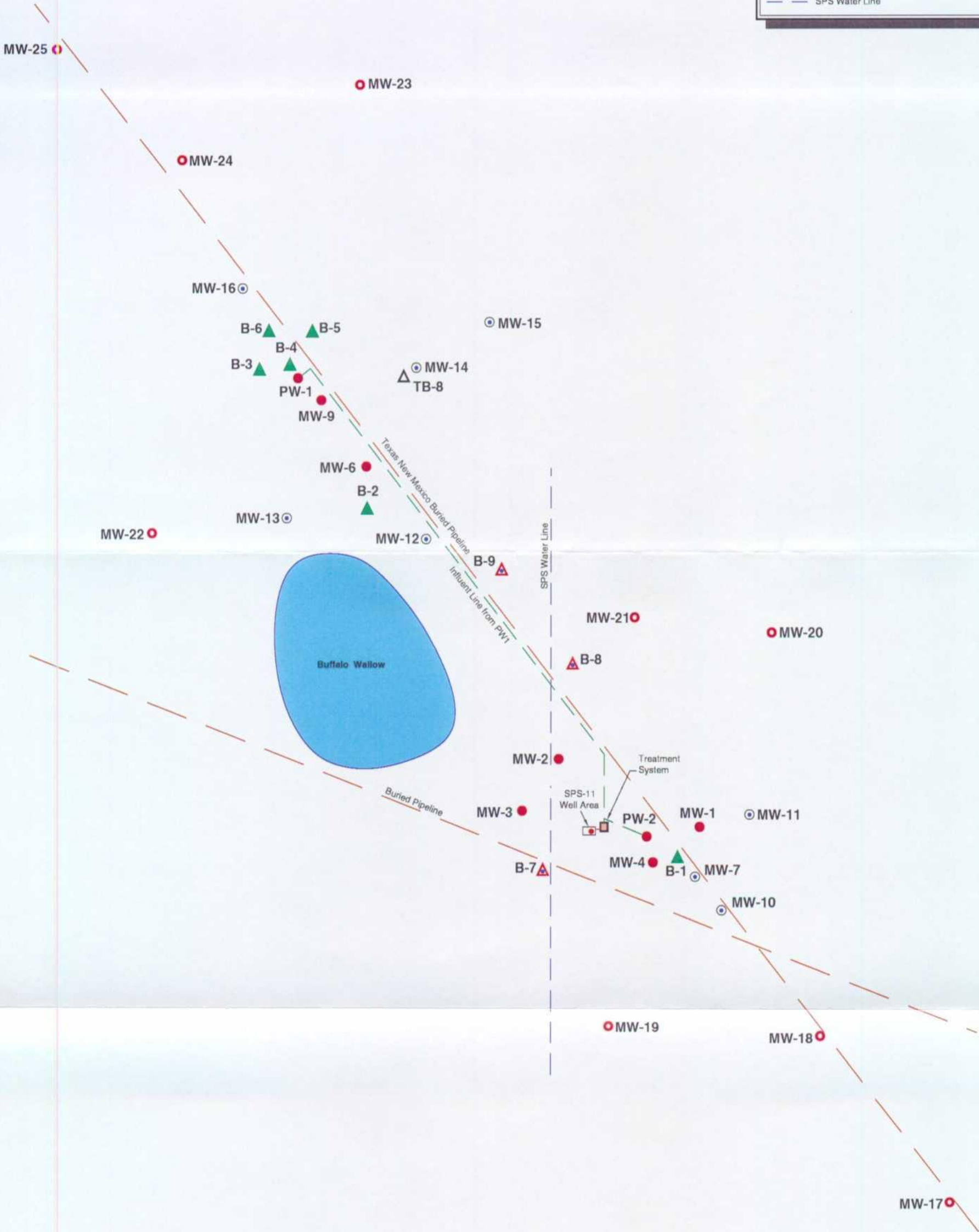
Soil Boring advanced by Texaco Research & Development

Buried Pipelines

Influent Line

Effluent Line

SPS Water Line

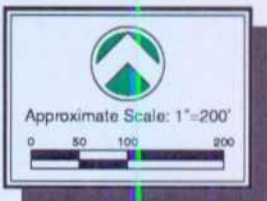


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SITE DETAILS		
TNMPL	SPS-11	LEA COUNTY, NEW MEXICO

610099-1-0
FIG 1



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)

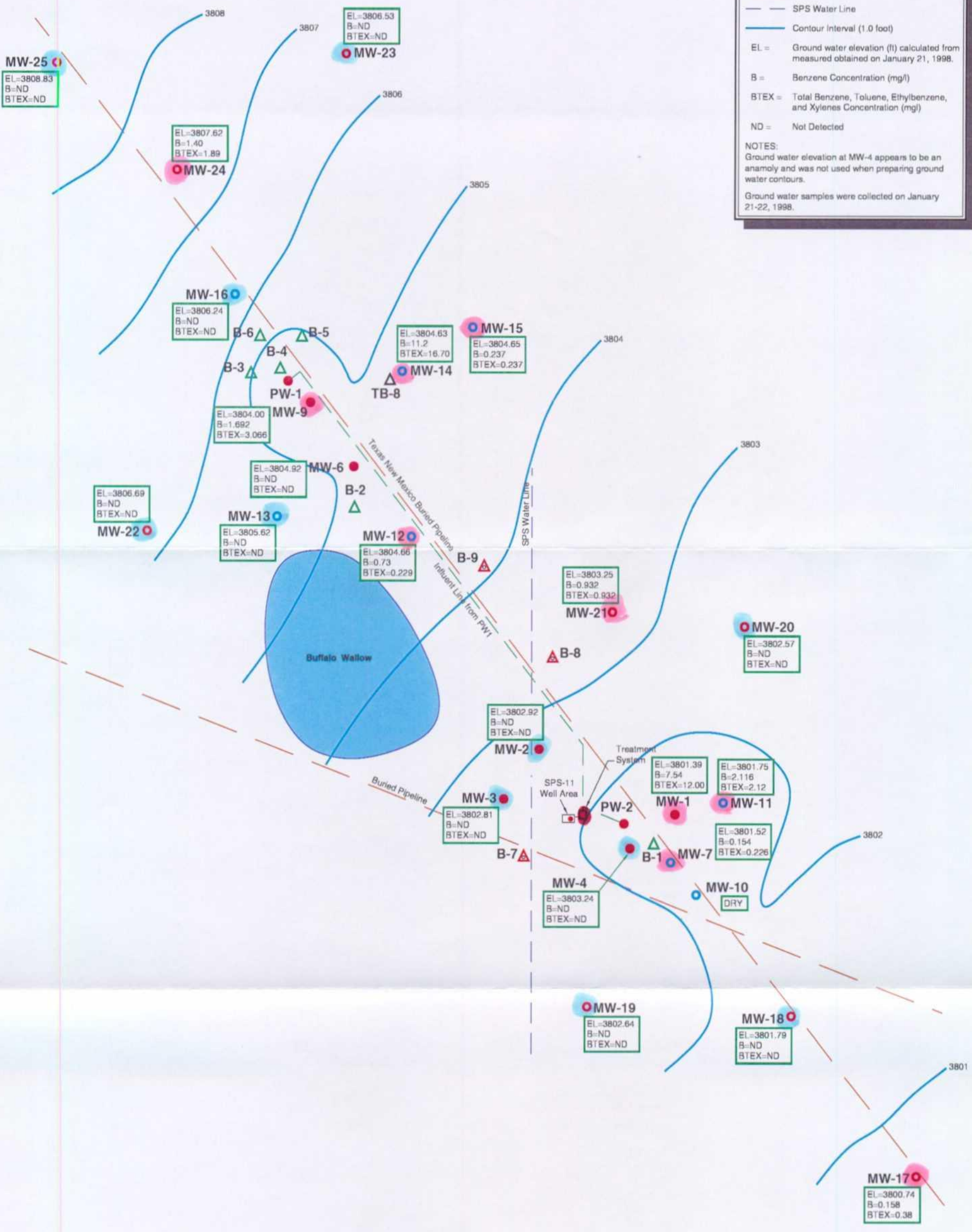
EL = Ground water elevation (ft) calculated from measured obtained on January 21, 1998.

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 anomaly and was not used when preparing ground water contours.
Ground water samples were collected on January 21-22, 1998.



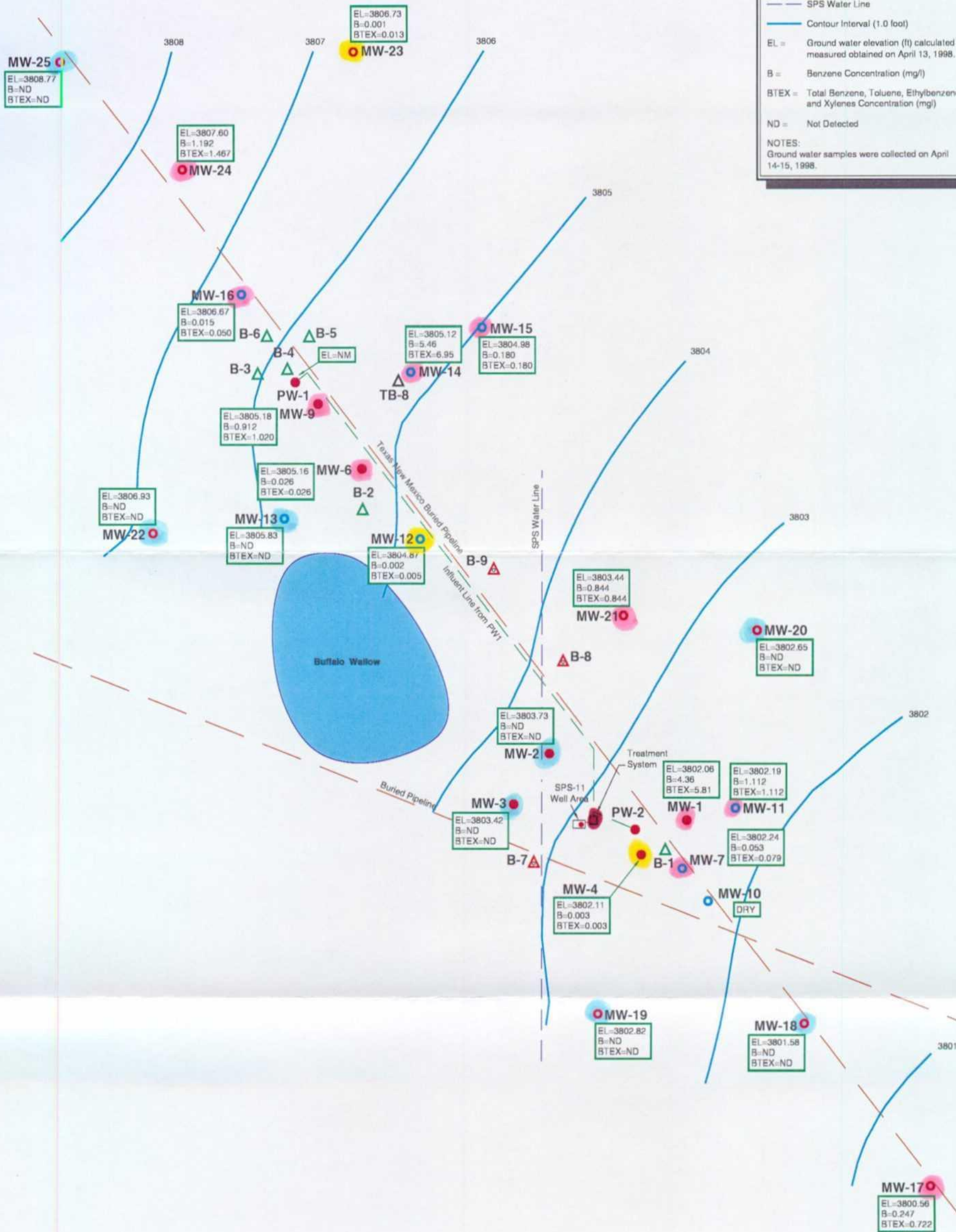
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LEGEND

- 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 measured obtained on April 13, 1998.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- ND = Not Detected

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



0127299-RM G-03-ADPT PROJECTS/TNMP/LUS10000/MONITOR/CON AP 1998

kei

GROUND WATER CONCENTRATION / CONTOUR MAP - APRIL 1998

TNMP/L

SPS-11

LEA COUNTY, NEW MEXICO

610099-1-0

FIG 3



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.

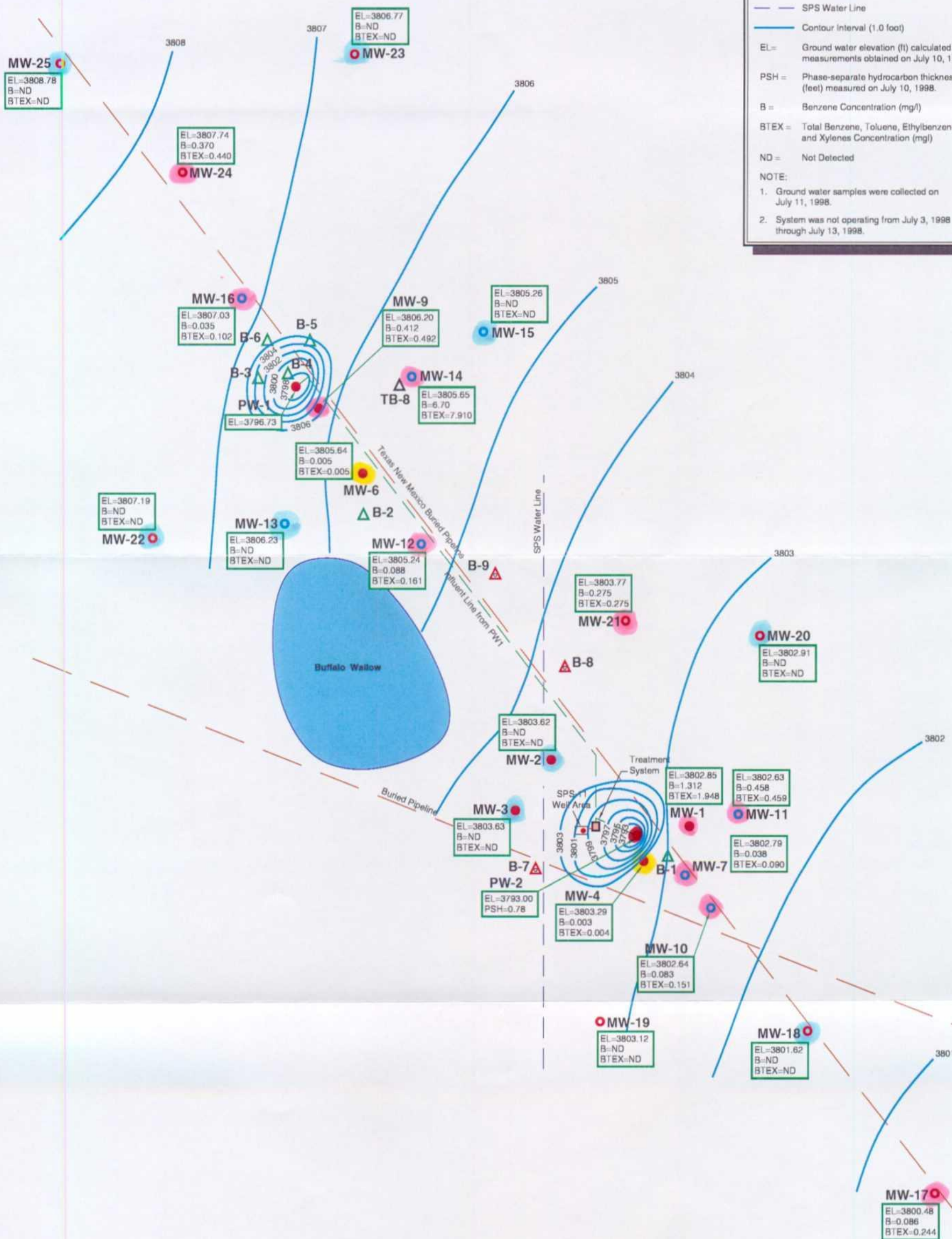
B = Benzene Concentration (mg/l)

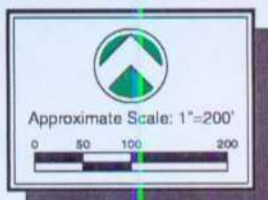
BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

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.



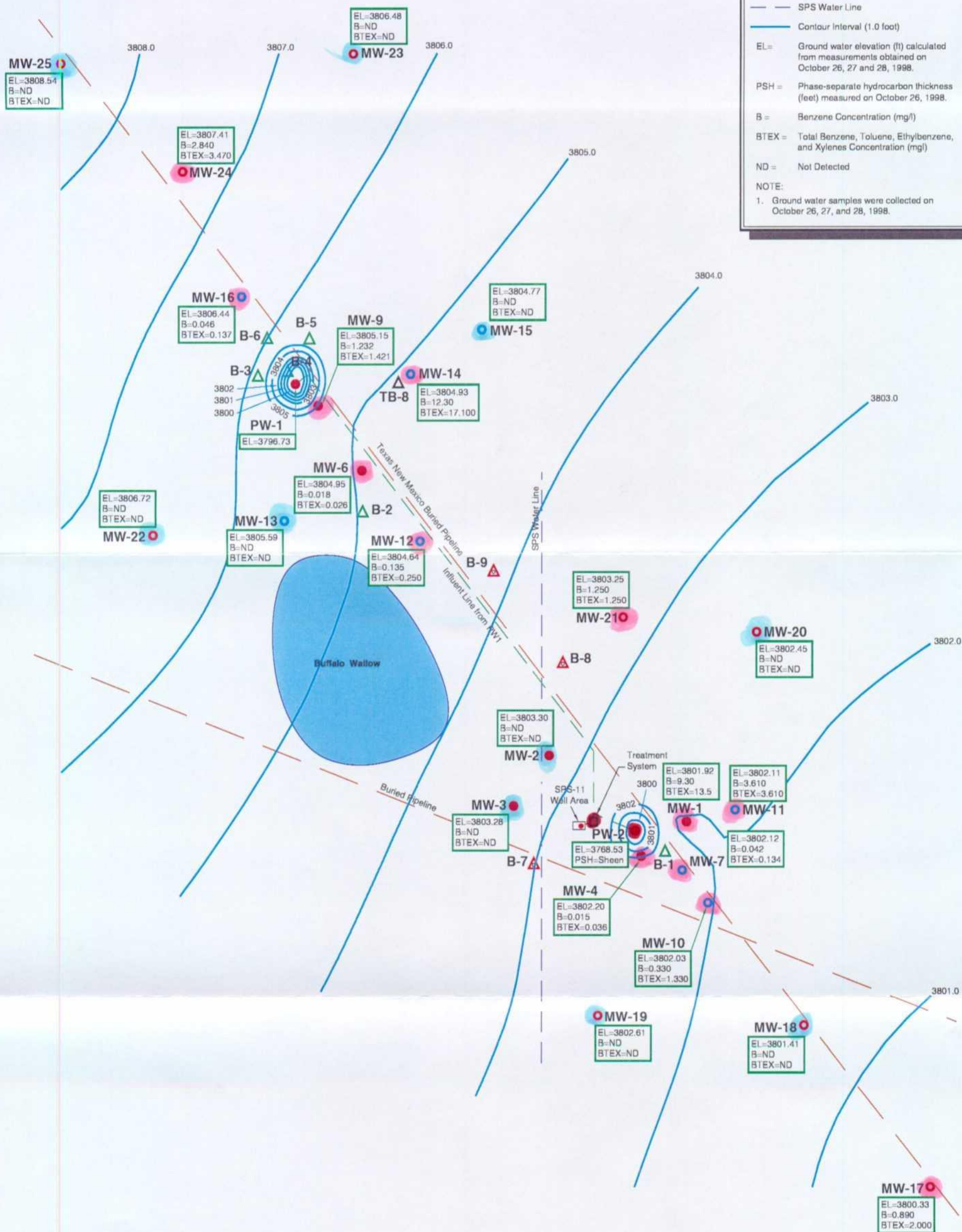


LEGEND

- 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.



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kei

GROUND WATER CONCENTRATION / CONTOUR MAP - OCTOBER 1998

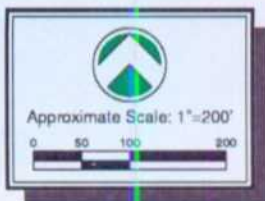
TNMP

SPS-11

LEA COUNTY, NEW MEXICO

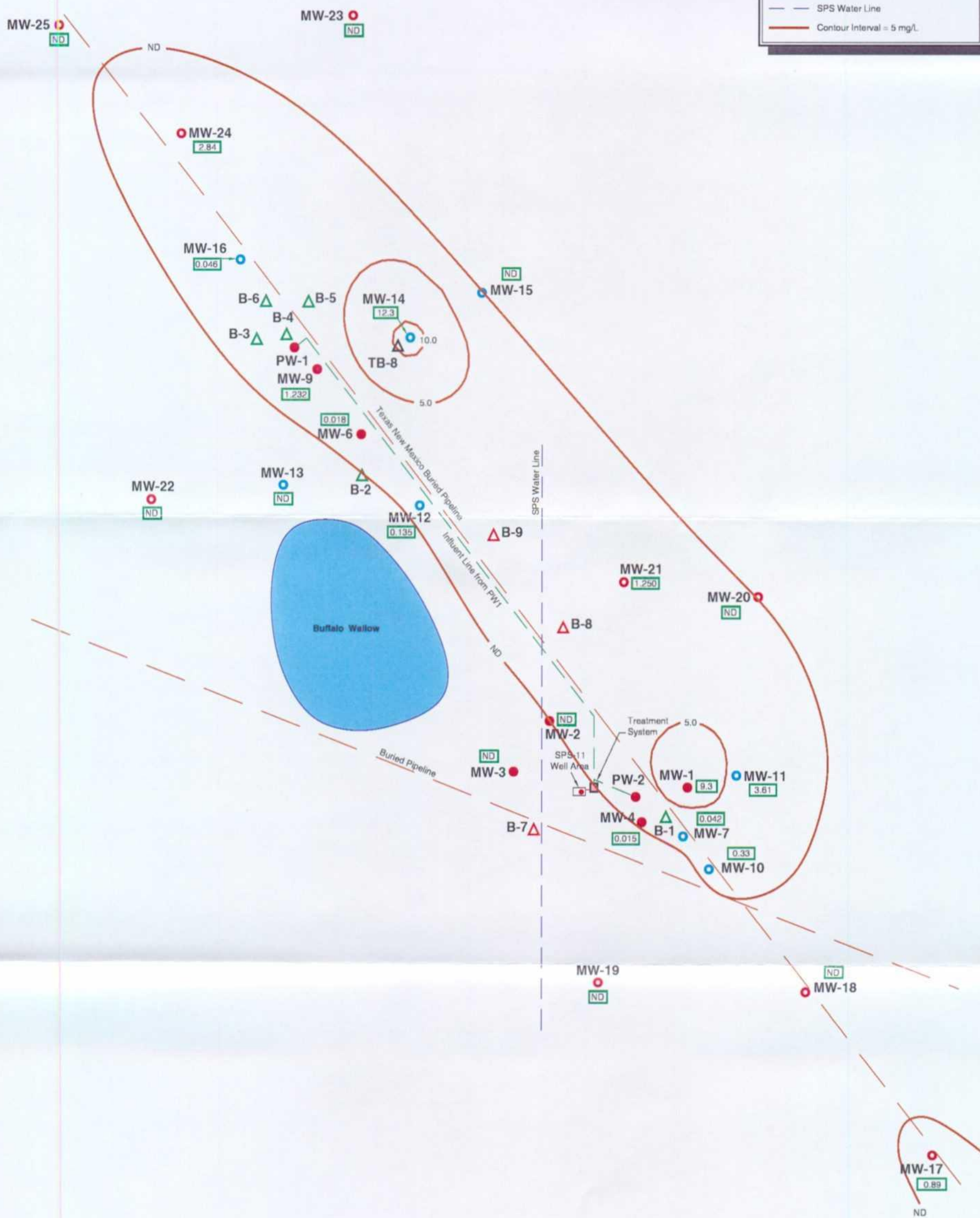
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FIG 5



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



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BENZENE ISOPLETH MAP - OCTOBER 1998

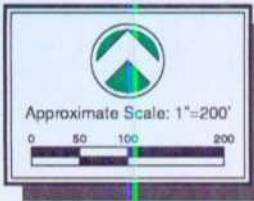
TNMPL

SPS-11

LEA COUNTY, NEW MEXICO

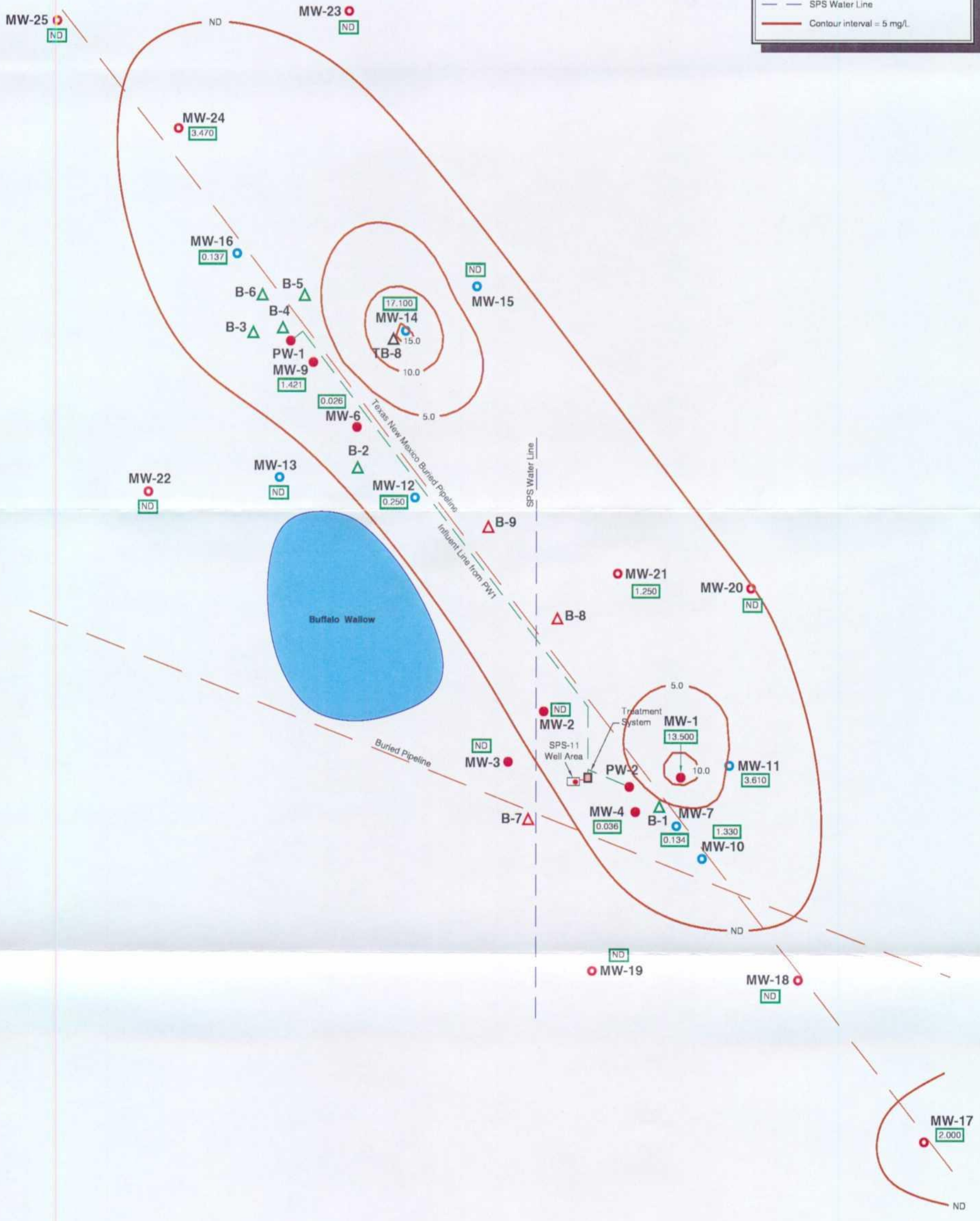
610099-1-0

FIG 6



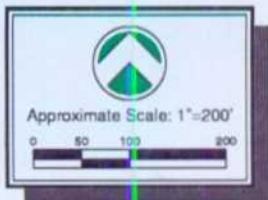
NOTE:
Ground water samples were collected on October 26, 27, and 28, 1998.

- 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 mg/L



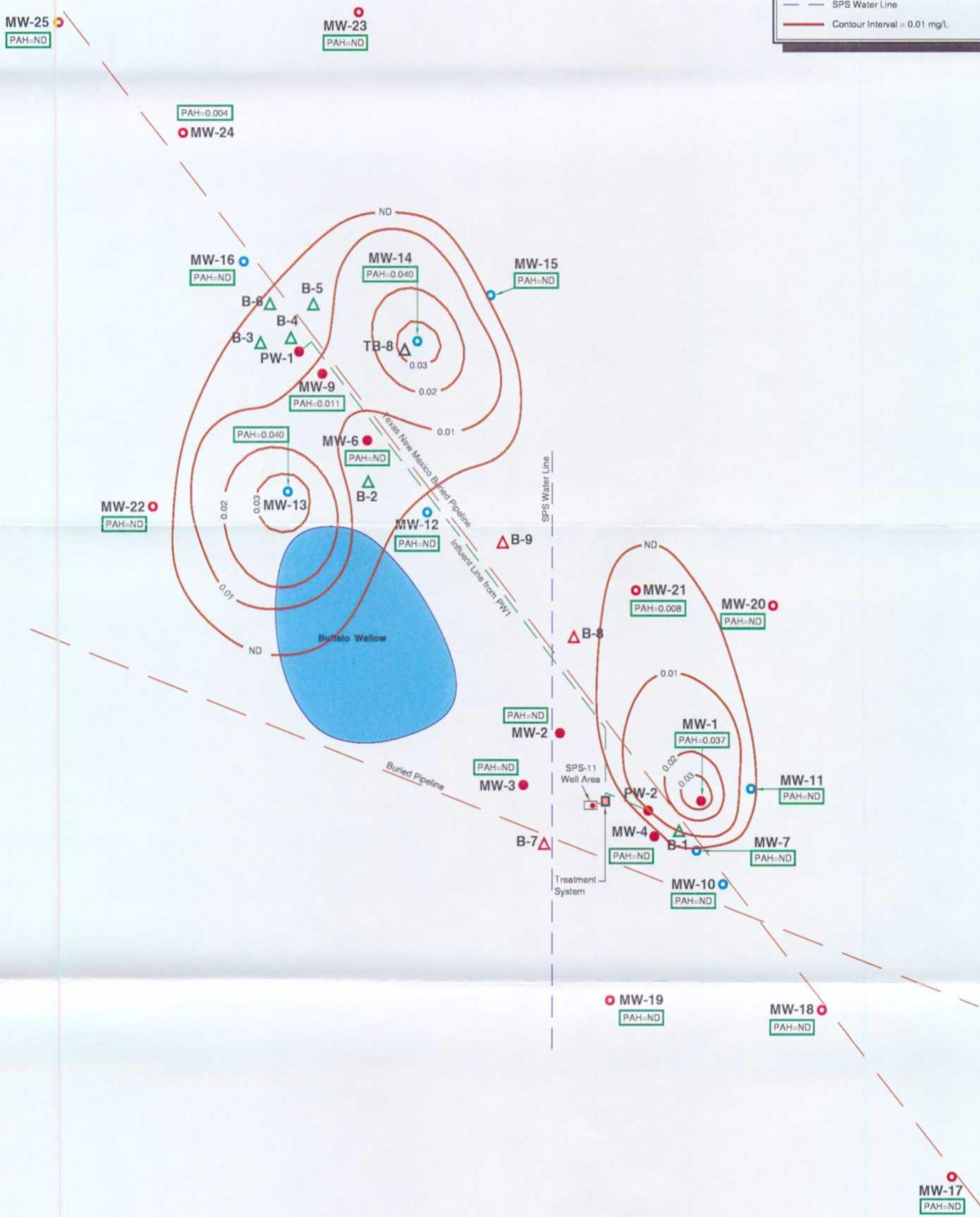
0127298-RM GIS/ACT/PROJECTS/TNMP/LEA/0099/MONITOR/BTEX/0798





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
- PAH= Napthalene Concentration (mg/L)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval = 0.01 mg/L

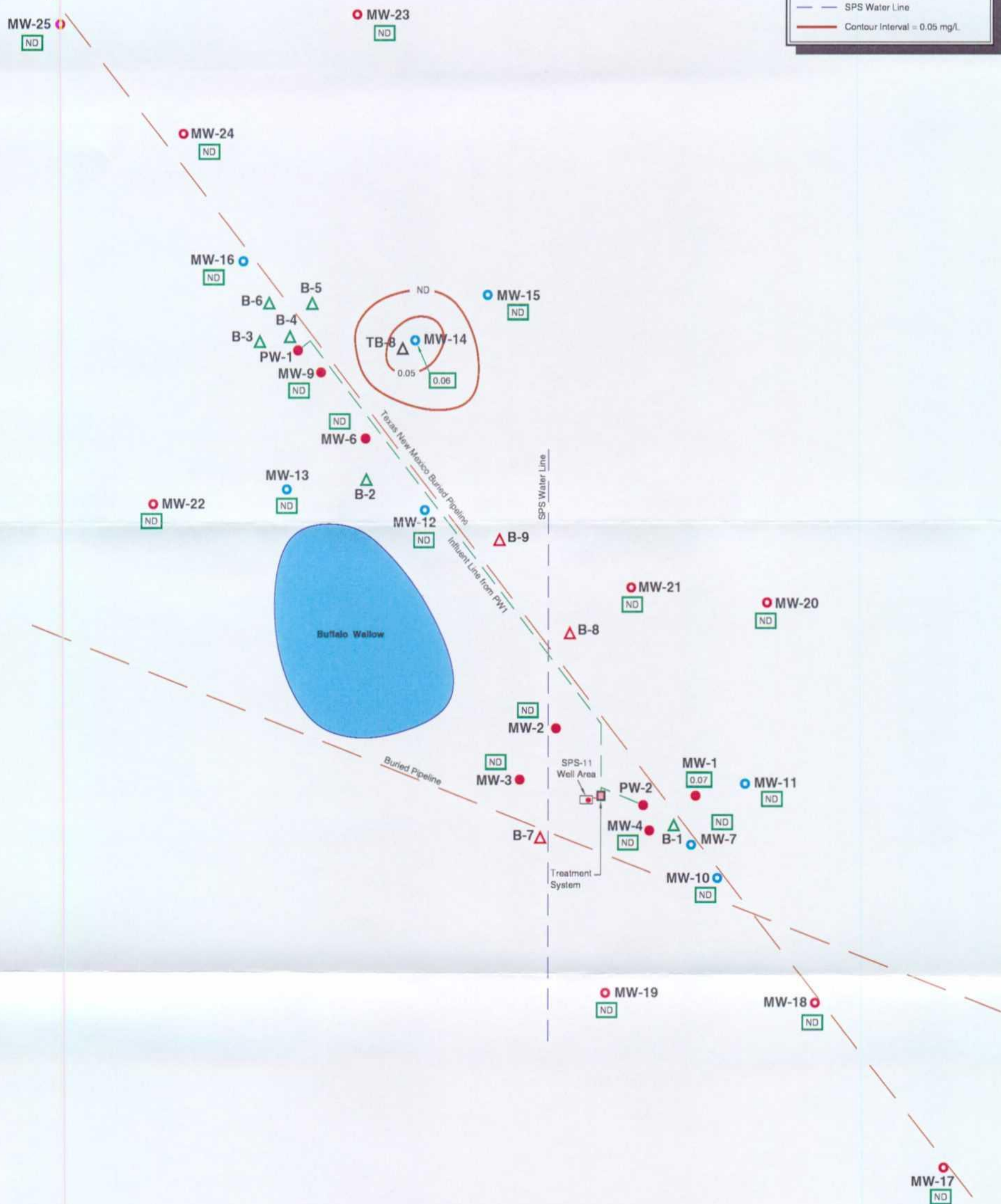


0127299-PM C:\SADPT\PROJECTS\TNMPL\10000\MONITOR\PAH\OCT98





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
0.07	Concentration (mg/L)
ND	Not Detected
---	Buried Pipelines
---	Influent Line
---	Effluent Line
---	SPS Water Line
---	Contour Interval = 0.05 mg/L

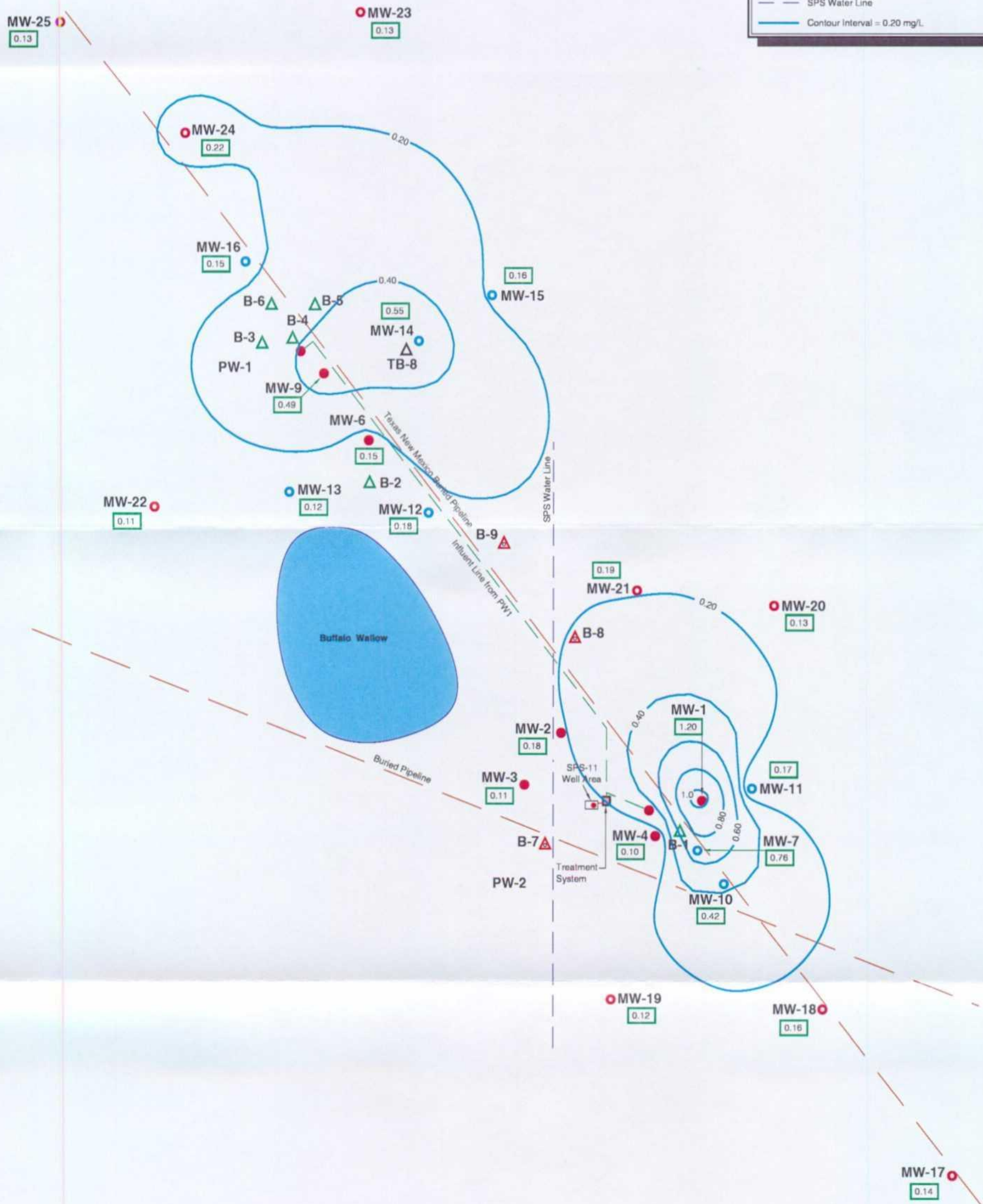
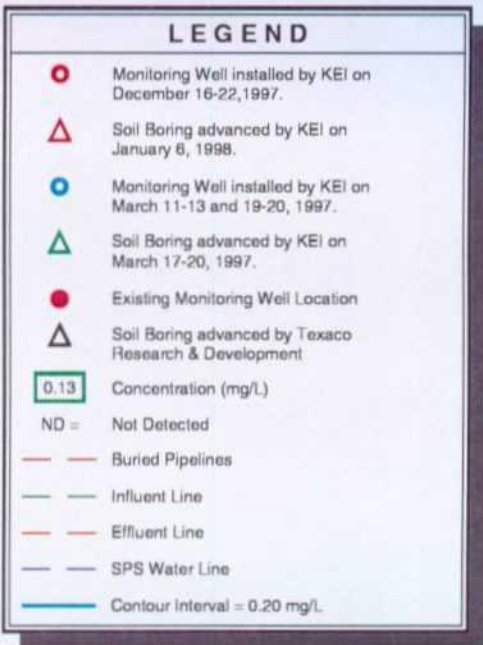


0122798-FM-GS-ADFT-PROJECTS-TNMP-LR10099-MONITOR(ARSOCT98)



ARSENIC ISOPLETH MAP - OCTOBER 28, 1998		
TNMP	SPS-11	LEA COUNTY, NEW MEXICO

610099-1-0
FIG 9



01/27/98-RM 03/04/97 PROJECTS TNMPL/UA10099-MONITORING(SMOCT198)





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

7.61

Concentration (mg/L)

ND
Not Detected

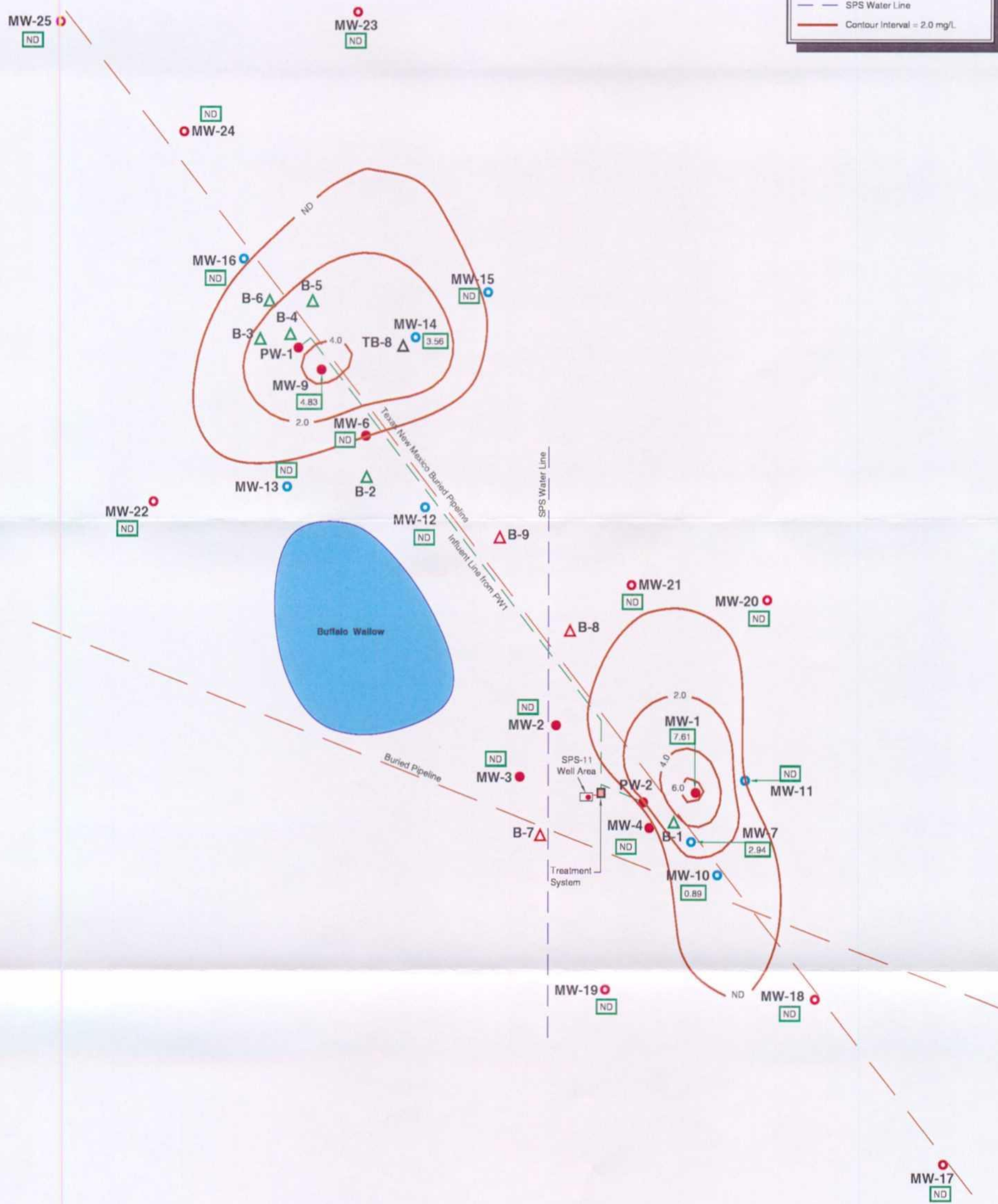
Buried Pipelines

Influent Line

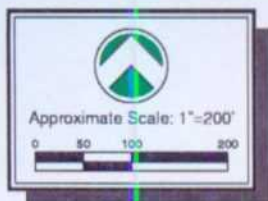
Effluent Line

SPS Water Line

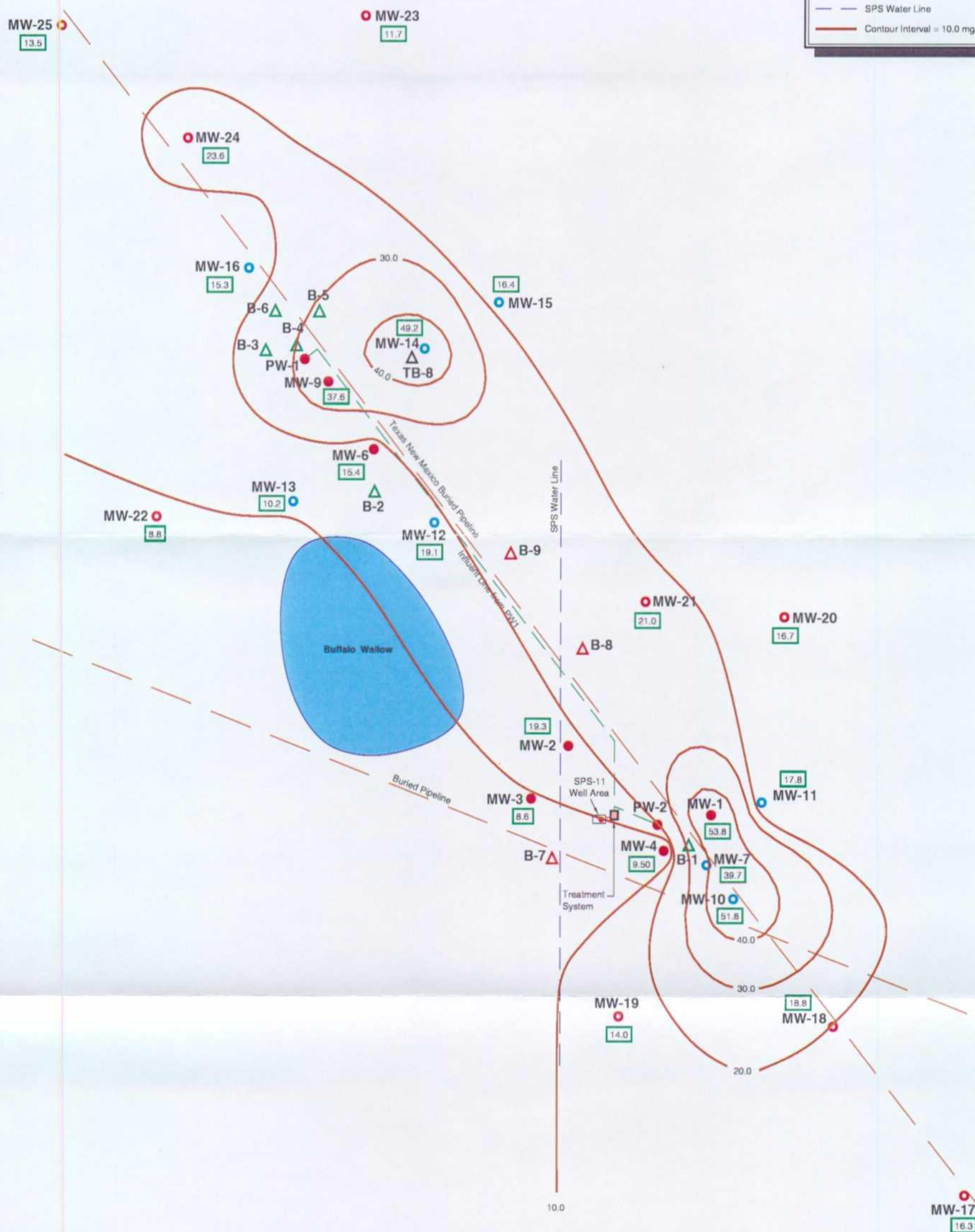
Contour Interval = 2.0 mg/L



01/27/99-RM GUSADFT PROJECTS/TNMP/LU100999/MONITOR/81NOCT98



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
53.8	Concentration (mg/L)
ND	Not Detected
---	Buried Pipelines
---	Influent Line
---	Effluent Line
---	SPS Water Line
---	Contour Interval = 10.0 mg/L



01/27/98-RM G33A071 PROJECTS TNMPL/UA100099 MONITORING/MAGN02798

kei

MAGNESIUM ISOPLETH MAP - OCTOBER 28, 1998

TNMP

SPS-11

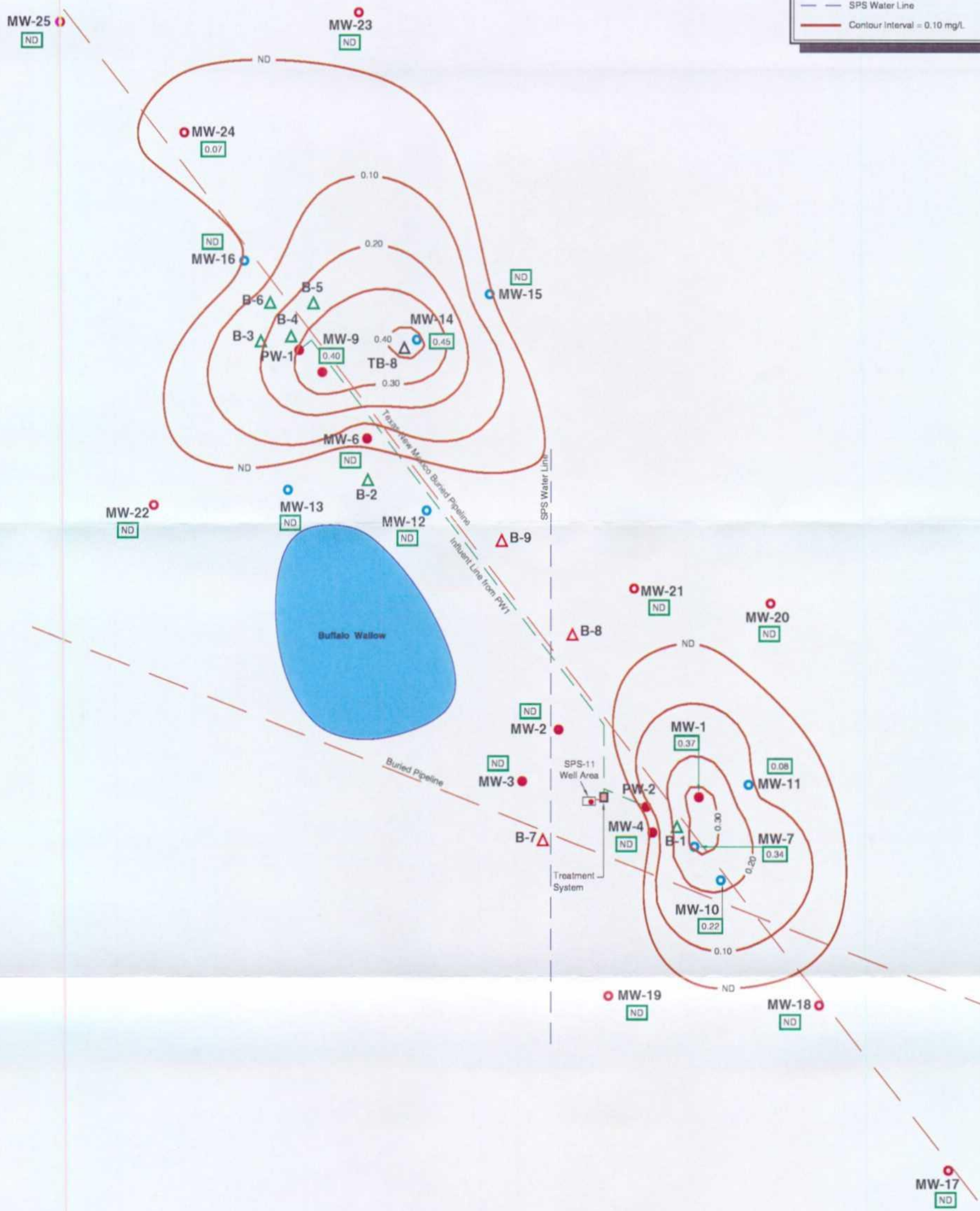
LEA COUNTY, NEW MEXICO

610099-1-0

FIG 12



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
0.37	Concentration (mg/L)
ND	Not Detected
---	Buried Pipelines
---	Influent Line
---	Effluent Line
---	SPS Water Line
---	Contour Interval = 0.10 mg/L



012709-FM G:\SASFT\PROJECTS\TNMPL\10099-MONITOR\MANOCTW



MANGANESE ISOPLETH MAP - OCTOBER 28, 1998

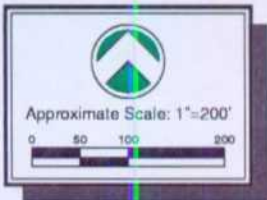
TNMP

SPS-11

LEA COUNTY, NEW MEXICO

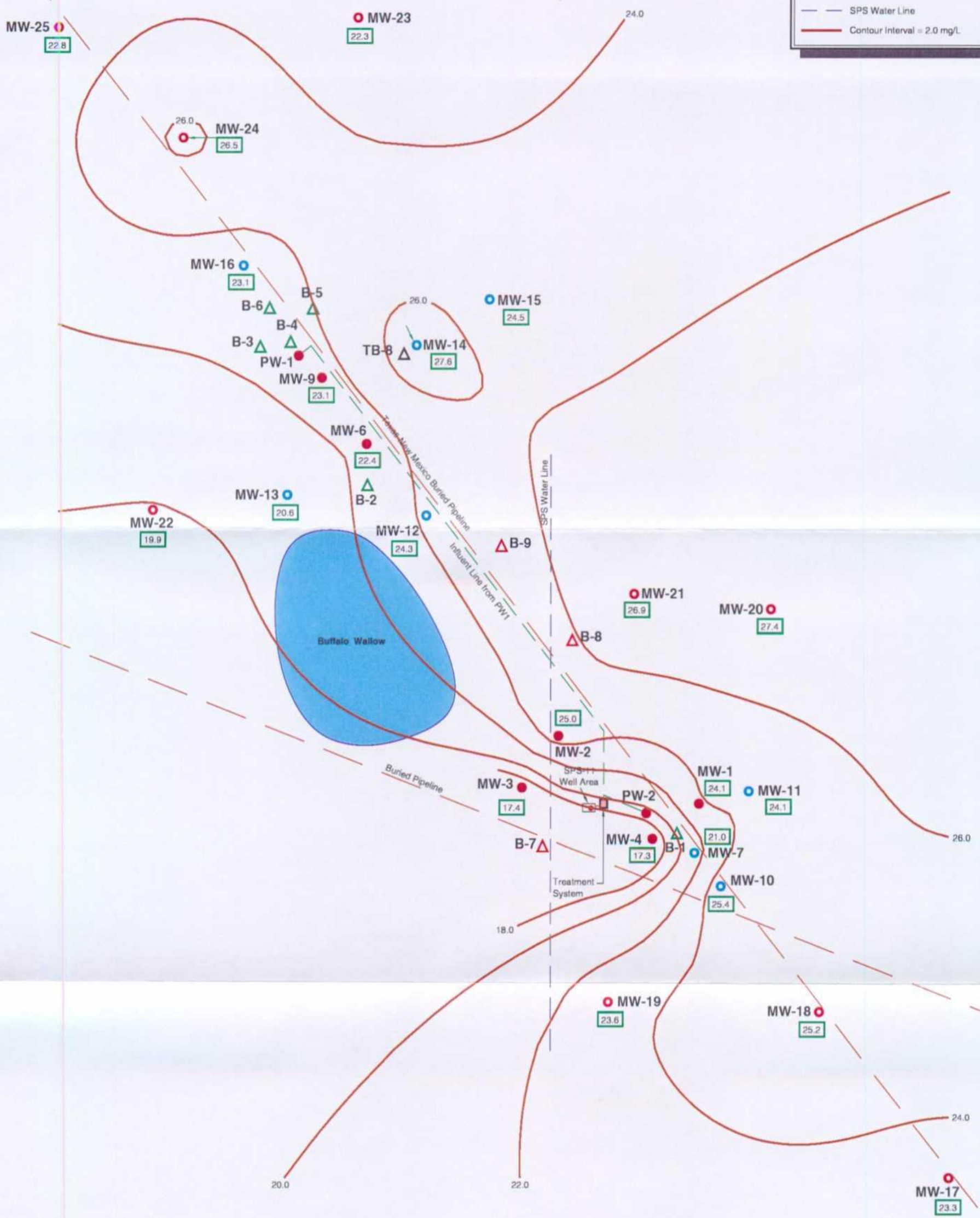
610099-1-0

FIG 13



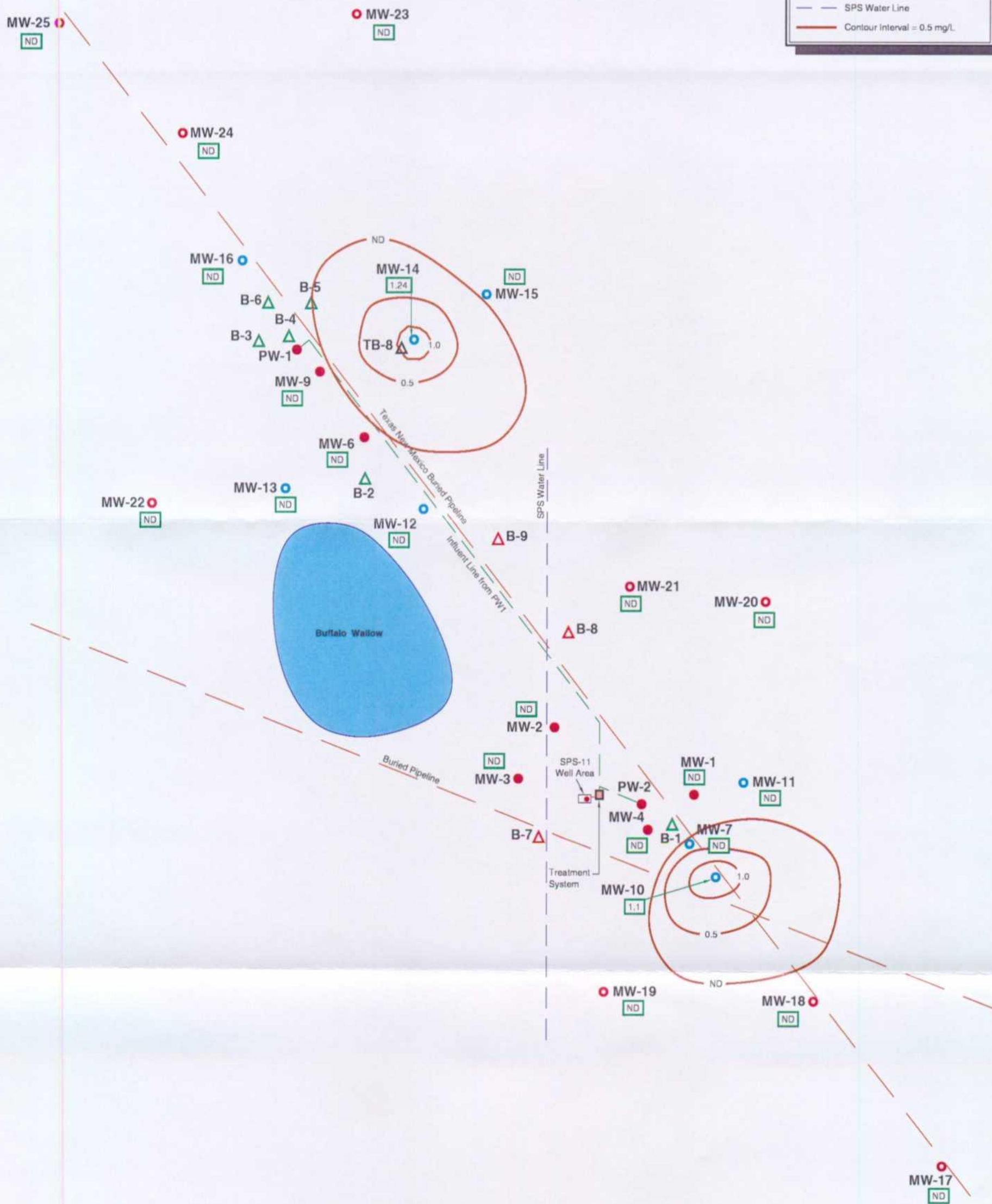
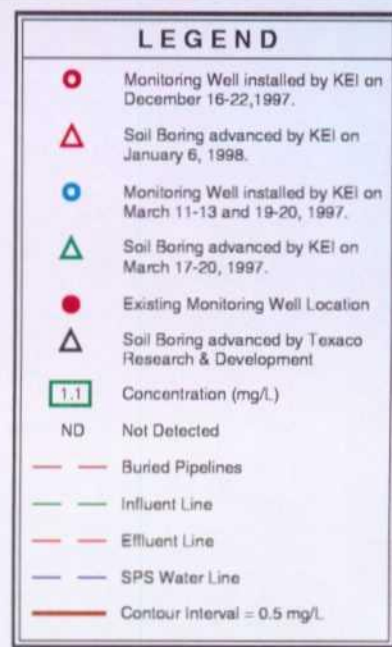
LEGEND

- 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
- 24.1 Concentration (mg/L)
- ND Not Detected
- Buried Pipelines
- Influent Line
- Effluent Line
- SPS Water Line
- Contour Interval = 2.0 mg/L

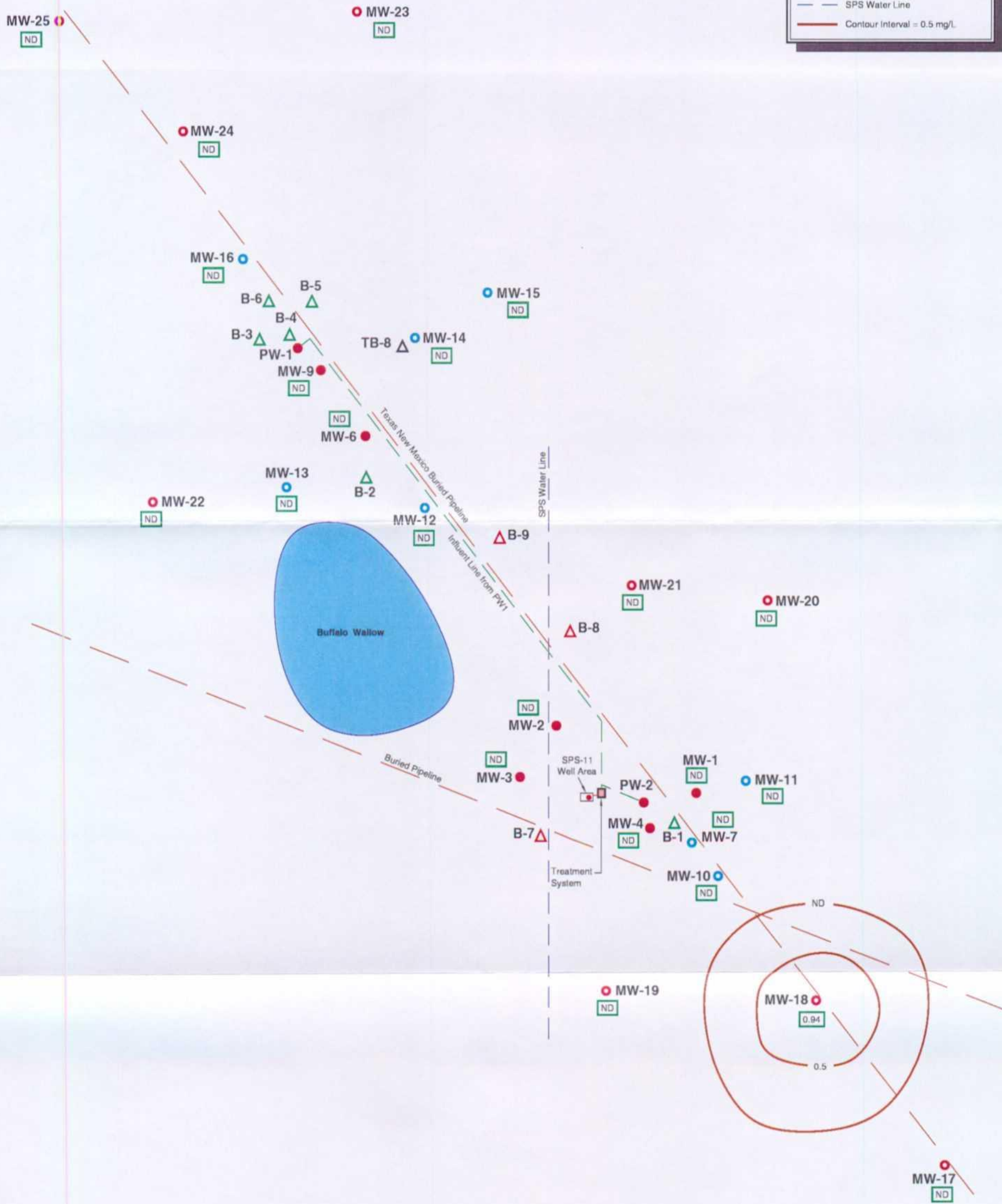
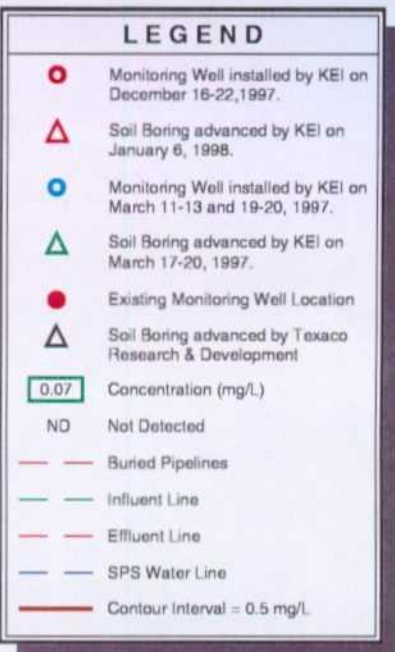
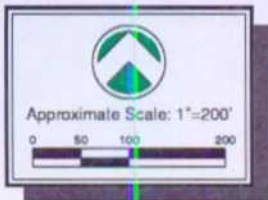


0122796-RM 033ADFT/PROJECTS/TNMP/SPS-11/MONITORING/LOC176



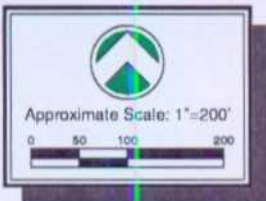


01/27/99 (M) G:\SADFT\PROJECTS\TNMPL\610099\MONITOR\STRONTIUM

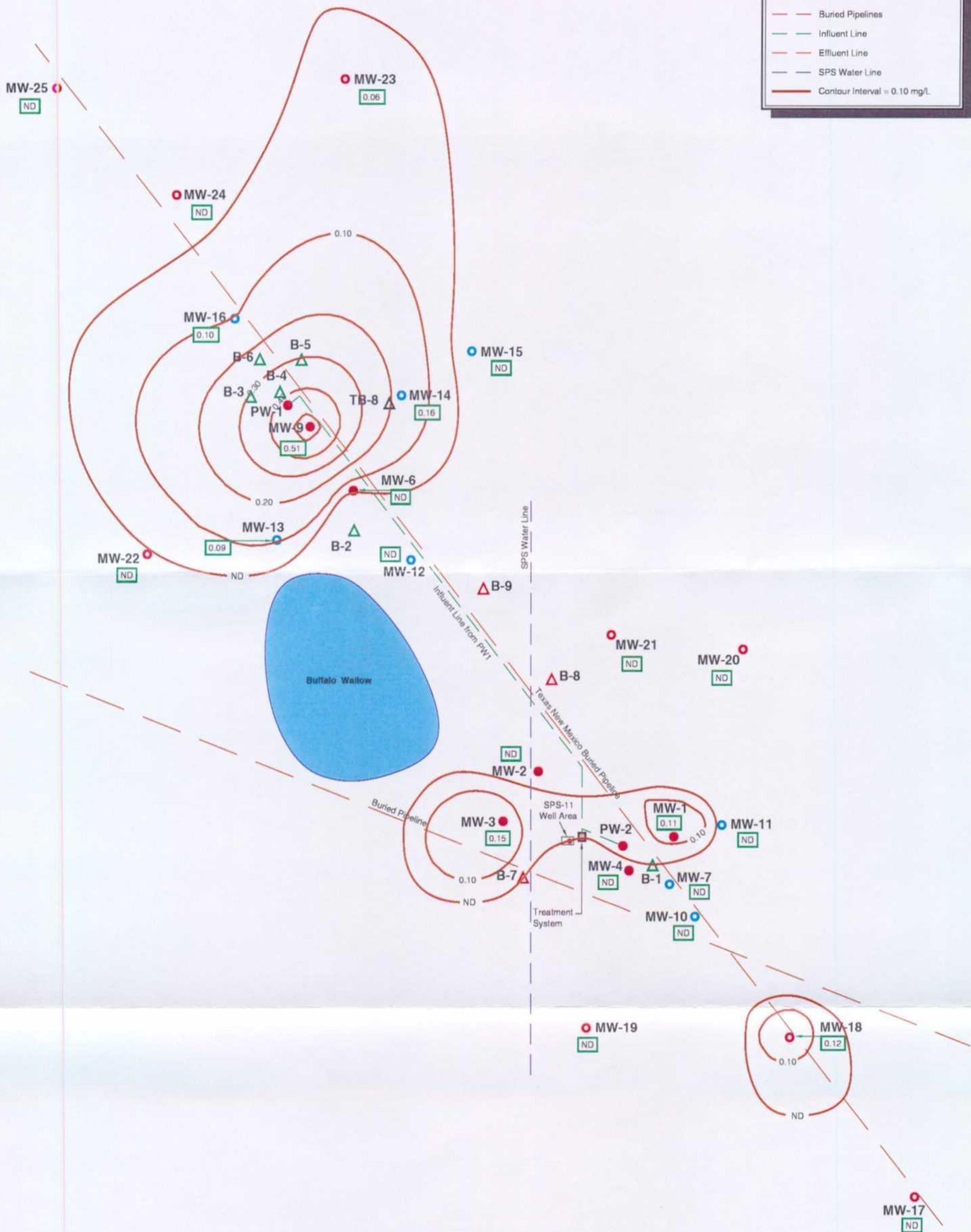


0127799-RM G33ADFT/PROJECTS/TNMP/US00099/MONITOR/TINOC2798





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
0.07	Concentration (mg/L)
ND	Not Detected
---	Buried Pipelines
---	Influent Line
---	Effluent Line
---	SPS Water Line
---	Contour Interval = 0.10 mg/L



01/27/99 - FM GSA/DT PROJECTS/TNMP/LA/10099/MONITORING/22NOV99



ZINC ISOPLETH MAP - OCTOBER 28, 1998

610099-1-0

TNMP

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.

Note: MW-5 and MW-8 both plugged and not in use for this program.

Method detection limits:

Water:	BTEX	- 0.001 to 0.2 mg/l
	PAH	- 0.002 mg/l
	Metals	- 0.006 to 1.1 mg/l
	VOC	- 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 and 8021B
	PAH	- EPA Method 8270 and 8100
	Metals	- EPA Method 6020
	Mercury	- EPA Method 7470
	Boron	- 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)	ETHYL-BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)
MW-1	04/10/92	4.92	2.06	1.2	1.13	9.31
MW-1	10/15/96	6.445	1.132	1.184	0.913	9.674
MW-1	05/01/97	7.79	0.78	1.28	0.81	10.66
MW-1	08/28/97	3.8	0.3	0.6	0.5	5.1
MW-1	11/17/97	11.800	2.500	2.200	1.400	17.900
MW-1	01/21/98	7.540	1.110	1.760	1.590	12.000
MW-1	04/15/98	4.360	0.070	1.060	0.320	5.810
MW-1	07/11/98	1.310	0.110	0.420	0.105	1.948
MW-1	10/28/98	9.300	ND	2.100	2.100	13.500
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-2	10/28/98	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-3	10/28/98	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

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-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
MW-4	10/28/98	0.02	0.005	0.007	0.009	0.036
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	0.03	ND	ND	ND	0.03
MW-6	07/11/98	0.01	ND	ND	ND	0.01
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	0.04	0.02	0.02	0.05	0.13
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	2.500	0.200	0.700	0.500	3.900
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

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-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	0.03	0.014	0.024	0.151
MW-10	10/28/98	0.33	0.31	0.25	0.44	1.33
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	2.12
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	3.61
MW-12	05/01/97	ND	0.003	0.001	0.027	0.031
MW-12	08/28/97	0.099	0.032	0.03	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	0.25
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	1.5	2.4	1.6	16.7
MW-14	04/14/98	5.46	ND	1.22	0.27	6.95
MW-14	07/11/98	6.7	0.1	0.83	0.28	7.91
MW-14	10/28/98	12.3	0.1	2.3	2.4	17.1

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	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	0.18	ND	ND	ND	0.18
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	0.09	0.015	0.012	0.218
MW-16	08/28/97	0.112	0.119	0.06	0.036	0.327
MW-16	11/17/97	0.053	0.061	0.021	0.035	0.17
MW-16	01/22/98	ND	ND	ND	ND	ND
MW-16	04/14/98	0.015	0.024	0.005	0.006	0.05
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	0.04	0.38
MW-17	04/14/98	0.247	0.278	0.089	0.108	0.722
MW-17	07/11/98	0.086	0.069	0.01	0.079	0.244
MW-17	10/28/98	0.89	0.61	0.16	0.34	2
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

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-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	1.25
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-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	1.4	0.23	0.15	0.11	1.89
MW-24	04/14/98	1.192	0.074	0.152	0.049	1.467
MW-24	07/11/98	0.37	0.018	0.041	0.011	0.44
MW-24	10/28/98	2.84	0.12	0.19	0.32	3.47
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 II

SUMMARY OF 1997 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 1998 GROUND WATER LABORATORY RESULTS - WQCC 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 1998 GROUND WATER LABORATORY RESULTS - WQCC 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:	CONCENTRATION (mg/l)								
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 III

SUMMARY OF 1997 GROUND WATER LABORATORY RESULTS - WQCC 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

SUMMARY OF 1998 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 IV

SUMMARY OF 1998 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:	CONCENTRATION (mg/l)								
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 IV

SUMMARY OF 1997 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 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	---	---
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	---	---

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	
07/14/98	3859.08	56.32	3802.76	---	---
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	---	---
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	---	---
12/31/98	3859.08	56.27	3802.81	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3860.76	56.94	3803.82	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3861.15	57.36	3803.79	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3859.62	54.44	3805.18	---	---

TABLE V

**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	---	---
10/15/96	Unknown	DRY	NA	---	---

NOTE: MW-5 was plugged in 1992.

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3862.47	56.82	3805.65	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3859.31	56.56	3802.75	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3861.88	55.72	3806.16	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3860.58	58.06	3802.52	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3860.00	57.48	3802.52	---	---

TABLE V

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	---	---
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 V

**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	
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	---	---
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	---	---
12/31/98	3863.10	57.98	3805.12	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3862.44	56.33	3806.11	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3862.95	57.40	3805.55	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3861.70	56.50	3805.20	---	---

TABLE V

**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	---	---
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	---	---

TABLE V

**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	
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	---	---
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	---	---
12/31/98	3863.15	56.24	3806.91	---	---

TABLE V

**MONITORING WELL MW-17
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	
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	---	---

TABLE V

**MONITORING WELL MW-17
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	
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	---	---
12/31/98	3859.17	58.92	3800.25	---	---

TABLE V

**MONITORING WELL MW-18
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	
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	---	---

TABLE V

**MONITORING WELL MW-18
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	
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	---	---
12/31/98	3859.98	58.52	3801.46	---	---

TABLE V

**MONITORING WELL MW-19
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	
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	---	---

TABLE V

**MONITORING WELL MW-19
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	
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	---	---
12/31/98	3862.30	59.35	3802.95	---	---

TABLE V

**MONITORING WELL MW-20
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	
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	---	---

TABLE V

**MONITORING WELL MW-20
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	
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	---	---
12/31/98	3861.30	58.54	3802.76	---	---

TABLE V

**MONITORING WELL MW-21
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	
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	---	---

TABLE V

**MONITORING WELL MW-21
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	
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	---	---
12/31/98	3862.30	58.68	3803.62	---	---

TABLE V

MONITORING WELL MW-22
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	
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	---	---

TABLE V

**MONITORING WELL MW-22
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	
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	---	---
12/31/98	3864.01	56.96	3807.05	---	---

TABLE V

**MONITORING WELL MW-23
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	
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	---	---

TABLE V

**MONITORING WELL MW-23
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	
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	---	---
12/31/98	3862.44	55.84	3806.60	---	---

TABLE V

**MONITORING WELL MW-24
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	
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	---	---

TABLE V

**MONITORING WELL MW-24
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	
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	---	---
12/31/98	3864.36	56.83	3807.53	---	---

TABLE V

**MONITORING WELL MW-25
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	
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	---	---

TABLE V

**MONITORING WELL MW-25
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	
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	---	---
12/31/98	3864.16	55.57	3808.59	---	---

TABLE V

**PUMPING WELL PW-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	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	---	---

TABLE V

**PUMPING WELL PW-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	
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	---	---
12/31/98	3849.08	52.46	3796.62	---	---

TABLE V

**PUMPING WELL PW-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	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
05/11/98	3847.23	81.09	3766.14	3766.16	0.02
05/13/98	3847.23	80.58	3766.65	3766.66	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	3763.12	0.52
06/08/98	3847.23	55.28	3791.95	3792.17	0.26
06/12/98	3847.23	80.54	3766.69	3767.17	0.57
06/15/98	3847.23	55.05	3792.18	3792.59	0.48
06/22/98	3847.23	54.89	3792.34	3792.83	0.58
06/29/98	3847.23	54.82	3792.41	3792.91	0.59
07/10/98	3847.23	54.90	3792.33	3792.99	0.78
07/14/98	3847.23	54.83	3792.40	3792.83	0.50
07/24/98	3847.23	55.23	3792.00	3792.74	0.87
07/27/98	3847.23	80.66	3766.57	3767.26	0.81
08/04/98	3847.23	81.15	3766.08	3767.31	1.45
08/10/98	3847.23	55.86	3791.37	3792.44	1.26
08/18/98	3847.23	54.75	3792.48	3792.76	0.33
08/26/98	3847.23	54.96	3792.27	3792.77	0.59
09/02/98	3847.23	54.73	3792.50	3792.88	0.45
09/10/98	3847.23	54.91	3792.32	3792.94	0.73
09/18/98	3847.23	54.94	3792.29	3792.97	0.80
09/24/98	3847.23	79.45	3767.78	3768.76	1.15

TABLE V

**PUMPING WELL PW-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	
09/29/98	3847.23	54.55	3792.68	3792.71	0.04
10/02/98	3847.23	78.55	3768.68	3768.69	0.01
10/06/98	3847.23	78.33	3768.90	3768.91	0.01
10/15/98	3847.23	78.38	3768.85	3768.86	0.01
10/26/98	3847.23	78.70	3768.53	3768.54	0.01
11/02/98	3847.23	80.09	3767.14	3767.81	0.79
11/09/98	3847.23	79.74	3767.49	3768.33	0.99
11/12/98	3847.23	79.74	3767.49	3768.33	0.99
11/16/98	3847.23	79.22	3768.01	3768.45	0.52
11/23/98	3847.23	55.42	3791.81	3792.33	0.61
12/01/98	3847.23	79.95	3767.28	3768.00	0.85
12/03/98	3847.23	79.95	3767.28	3768.00	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	3792.81	0.32
12/31/98	3847.23	54.71	3792.52	3792.83	0.36

TABLE VI

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

DATE	FLOW						CUMULATIVE (bbls)
	PW-1			PW-2			
	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	
10/01/97	4,843,000	-		5,013,400	-		
10/08/97	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	484,257
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
11/05/97	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
12/03/97	7,127,942	581,086	2,284,942	7,522,197	646,045	2,508,797	4,793,739
12/09/97	7,419,328	291,386	2,576,328	7,848,750	326,553	2,835,350	5,411,678
01/07/98	8,492,643	1,073,315	3,649,643	9,175,746	1,326,996	4,162,346	7,811,989
02/06/98	9,766,830	2,347,502	4,923,830	10,761,190	2,912,440	5,747,790	10,671,620
02/06/98	9,766,830	2,347,502	4,923,830	10,761,190	2,912,440	5,747,790	10,671,620
02/06/98	9,766,830	2,347,502	4,923,830	10,761,190	2,912,440	5,747,790	10,671,620
02/06/98	9,766,830	1,274,187	4,923,830	10,761,190	1,585,444	5,747,790	10,671,620
02/12/98	10,083,750	316,920	5,240,750	11,122,935	361,745	6,109,535	11,350,285
02/18/98	10,418,830	335,080	5,575,830	11,509,685	386,750	6,496,285	12,072,115
02/25/98	10,429,869	11,039	5,586,869	11,523,183	13,498	6,509,783	12,096,652
03/23/98	10,611,040	181,171	5,768,040	11,721,900	198,717	6,708,500	12,476,540
04/07/98	11,075,110	464,070	6,232,110	12,267,570	545,670	7,254,170	13,486,280
04/09/98	11,083,145	8,035	6,240,145	12,276,535	8,965	7,263,135	13,503,280
04/10/98	11,139,643	56,498	6,296,643	12,338,620	62,085	7,325,220	13,621,863

TABLE VI

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

DATE	FLOW						CUMULATIVE (bbls)	
	PW-1			PW-2				
	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)		
04/13/98	11,145,060	5,417	6,302,060	12,344,900	6,280	7,331,500	13,633,560	324,609
04/20/98	11,177,420	32,360	6,334,420	12,344,900	-	7,331,500	13,665,920	325,379
04/27/98	11,461,415	283,995	6,618,415	12,344,900	-	7,331,500	13,949,915	332,141
05/04/98	11,783,255	321,840	6,940,255	12,344,900	-	7,331,500	14,271,755	339,804
05/05/98	11,843,290	60,035	7,000,290	12,408,649	63,749	7,395,249	14,395,539	342,751
05/11/98	12,026,200	182,910	7,183,200	12,721,580	312,931	7,708,180	14,891,380	354,557
05/18/98	12,238,460	212,260	7,395,460	12,939,030	217,450	7,925,630	15,321,090	364,788
05/26/98	12,357,940	119,480	7,514,940	13,064,000	124,970	8,050,600	15,565,540	370,608
06/02/98	12,550,220	192,280	7,707,220	13,269,245	205,245	8,255,845	15,963,065	380,073
06/03/98	12,557,604	7,384	7,714,604	13,277,099	7,854	8,263,699	15,978,303	380,436
06/04/98	12,561,289	3,685	7,718,289	13,281,004	3,905	8,267,604	15,985,893	380,617
06/10/98	12,604,953	43,664	7,761,953	13,489,784	208,780	8,476,384	16,238,337	386,627
06/12/98	12,607,980	3,027	7,764,980	13,493,990	4,206	8,480,590	16,245,570	386,799
06/14/98	12,641,765	33,785	7,798,765	13,527,199	33,209	8,513,799	16,312,564	388,394
06/15/98	12,660,241	18,476	7,817,241	13,546,041	18,842	8,532,641	16,349,882	389,283
06/26/98	12,660,470	229	7,817,470	13,546,480	439	8,533,080	16,350,550	389,299
06/29/98	12,662,804	2,334	7,819,804	13,548,747	2,267	8,535,347	16,355,151	389,408
07/01/98	12,675,202	12,398	7,832,202	13,591,746	42,999	8,578,346	16,410,548	390,727
07/03/98	12,675,202	-	7,832,202	13,595,278	3,532	8,581,878	16,414,080	390,811
07/16/98	12,817,330	142,128	7,974,330	13,742,575	147,297	8,729,175	16,703,505	397,703
07/24/98	12,911,480	94,150	8,068,480	13,847,725	105,150	8,834,325	16,902,805	402,448
07/27/98	13,054,630	143,150	8,211,630	13,993,440	145,715	8,980,040	17,191,670	409,325
07/30/98	13,086,097	31,467	8,243,097	14,025,201	31,761	9,011,801	17,254,898	410,831

TABLE VI

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

	FLOW						CUMULATIVE (bbls)
	PW-1			PW-2			
	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	
DATE							
08/04/98	13,314,780	228,683	8,471,780	14,256,480	231,279	9,243,080	421,782
08/06/98	13,431,710	116,930	8,588,710	14,375,075	118,595	9,361,675	427,390
08/10/98	13,482,125	50,415	8,639,125	14,426,507	51,432	9,413,107	429,815
08/13/98	13,482,576	451	8,639,576	14,426,921	414	9,413,521	429,836
08/14/98	13,485,310	2,734	8,642,310	14,429,957	3,036	9,416,557	429,973
08/18/98	13,487,040	1,730	8,644,040	14,431,830	1,873	9,418,430	430,059
08/21/98	13,599,350	112,310	8,756,350	14,547,364	115,534	9,533,964	435,484
08/26/98	13,611,651	12,301	8,768,651	14,560,372	13,008	9,546,972	436,086
08/27/98	13,612,585	934	8,769,585	14,561,280	908	9,547,880	436,130
08/28/98	13,634,181	21,596	8,791,181	14,583,649	22,369	9,570,249	437,177
09/02/98	13,641,505	7,324	8,798,505	14,591,494	7,845	9,578,094	437,538
09/03/98	13,649,724	8,219	8,806,724	14,603,707	12,213	9,590,307	438,025
09/04/98	13,651,988	2,264	8,808,988	14,608,277	4,570	9,594,877	438,187
09/05/98	13,653,754	1,766	8,810,754	14,610,058	1,781	9,596,658	438,272
09/10/98	13,655,421	1,667	8,812,421	14,611,828	1,770	9,598,428	438,354
09/11/98	13,667,060	11,639	8,824,060	14,624,283	12,455	9,610,883	438,927
09/12/98	13,668,122	1,062	8,825,122	14,625,426	1,143	9,612,026	438,980
09/13/98	13,669,034	912	8,826,034	14,626,444	1,018	9,613,044	439,026
09/14/98	13,673,520	4,486	8,830,520	14,631,314	4,870	9,617,914	439,248
09/22/98	13,679,835	6,315	8,836,835	14,639,159	7,845	9,625,759	439,586
09/23/98	13,679,835	-	8,836,835	14,639,159	-	9,625,759	439,586
09/24/98	13,742,431	62,596	8,899,431	14,703,749	64,590	9,690,349	442,614
09/25/98	13,773,509	31,078	8,930,509	14,734,946	31,197	9,721,546	444,097

TABLE VI

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

DATE	FLOW						CUMULATIVE (bbls)
	PW-1			PW-2			
	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	
09/26/98	13,835,979	62,470	8,992,979	14,801,382	66,436	9,787,982	447,166
09/27/98	13,844,273	8,294	9,001,273	14,810,668	9,286	9,797,268	447,584
10/01/98	13,951,726	107,453	9,108,726	14,922,453	111,785	9,909,053	452,804
10/02/98	14,004,076	52,350	9,161,076	14,977,096	54,643	9,963,696	455,352
10/03/98	14,059,860	55,784	9,216,860	15,035,420	58,324	10,022,020	458,069
10/05/98	14,159,627	99,767	9,316,627	15,140,098	104,678	10,126,698	462,936
10/06/98	14,202,523	42,896	9,359,523	15,185,117	45,019	10,171,717	465,030
10/07/98	14,215,150	12,627	9,372,150	15,198,500	13,383	10,185,100	465,649
10/08/98	14,227,582	12,432	9,384,582	15,211,549	13,049	10,198,149	466,256
10/09/98	14,281,526	53,944	9,438,526	15,268,876	57,327	10,255,476	468,905
10/11/98	14,392,326	110,800	9,549,326	15,386,996	118,120	10,373,596	474,355
10/14/98	14,560,333	168,007	9,717,333	15,567,009	180,013	10,553,609	482,641
10/15/98	14,573,569	13,236	9,730,569	15,586,598	19,589	10,573,198	483,423
10/16/98	14,589,190	15,621	9,746,190	15,598,000	11,402	10,584,600	484,066
10/19/98	14,628,193	39,003	9,785,193	15,640,383	42,383	10,626,983	486,004
10/20/98	14,667,744	39,551	9,824,744	15,683,721	43,338	10,670,321	487,978
10/21/98	14,721,063	53,319	9,878,063	15,741,288	57,567	10,727,888	490,618
10/22/98	14,773,564	52,501	9,930,564	15,798,322	57,034	10,784,922	493,226
10/23/98	14,774,294	730	9,931,294	15,799,076	754	10,785,676	493,261
10/26/98	14,811,625	37,331	9,968,625	15,840,321	41,245	10,826,921	495,132
10/29/98	14,874,759	63,134	10,031,759	15,910,341	70,020	10,896,941	498,302
10/30/98	14,928,000	53,241	10,085,000	15,964,845	54,504	10,951,445	500,868
10/31/98	14,971,650	43,650	10,128,650	16,019,722	54,877	11,006,322	503,214

TABLE VI

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

	FLOW						CUMULATIVE (bbls)
	PW-1			PW-2			
	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	METER READING (gallons)	FLOW BETWEEN METER READINGS (gallons)	TOTAL FLOW (gallons)	
11/02/98	14,992,336	20,686	10,149,336	16,043,666	23,944	11,030,266	504,276
11/03/98	15,010,586	18,250	10,167,586	16,064,253	20,587	11,050,853	505,201
11/04/98	15,061,894	51,308	10,218,894	16,122,411	58,158	11,109,011	507,807
11/09/98	15,336,199	274,305	10,493,199	16,429,284	306,873	11,415,884	521,645
11/12/98	15,433,894	97,695	10,590,894	16,538,132	108,848	11,524,732	526,563
11/13/98	15,478,922	45,028	10,635,922	16,587,776	49,644	11,574,376	528,817
11/16/98	15,550,510	71,588	10,707,510	16,665,809	78,033	11,652,409	532,379
11/18/98	15,642,722	92,212	10,799,722	16,765,574	99,765	11,752,174	536,950
11/19/98	15,670,140	27,418	10,827,140	16,795,188	29,614	11,781,788	538,308
11/23/98	15,685,637	15,497	10,842,637	16,811,796	16,608	11,798,396	539,072
11/30/98	15,691,953	6,316	10,848,953	16,818,937	7,141	11,805,537	539,393
12/01/98	15,735,289	43,336	10,892,289	16,865,739	46,802	11,852,339	541,539

TABLE VII

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOC
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	10/12/97	10/13/97	10/14/97	10/15/97	10/21/97
COMPOUND		CONCENTRATION (ug/l)									
BENZENE	5	13.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE (MEK)		---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-BUTYL BENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SEC-BUTYL BENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYL BENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYL METHYL ETHER (MTBE)		---	---	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
CARBON TETRACHLORIDE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE		<0.5	<0.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5
CHLOROFORM	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOCHLOROMETHANE	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE	0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE VII

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOC
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	10/12/97	10/13/97	10/14/97	10/15/97	10/21/97
COMPOUND		CONCENTRATION (ug/l)									
1,1-DICHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	700	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
HEXACHLOROBUTADIENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-ISOPROPYLTOLUENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NAPHTHALENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
PROPYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2,2-TETRACHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRAHYDRFURAN (THF)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TOLUENE	1000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE VII

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOC
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	10/12/97	10/13/97	10/14/97	10/15/97	10/21/97
COMPOUND		CONCENTRATION (ug/l)									
1,1,1-TRICHLOROETHANE	200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROFLUOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3,5-TRIMETHYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	2	<0.5	<0.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
O-XYLENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
P AND M-XYLENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TOTAL XYLENES	10000	2.9	2.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE VII

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

DATE SAMPLED	MCL	10/22/97	10/29/97	01/07/98	01/13/98	02/12/98	03/23/98	04/13/98	05/05/98	09/24/98	10/29/98	11/18/98
COMPOUND		CONCENTRATION (ug/l)										
BENZENE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	9.2	13.9
BROMOBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE (MEK)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
n-BUTYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYL METHYL ETHER (MTBE)		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CARBON TETRACHLORIDE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROFORM	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOCHLOROMETHANE	80	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE	0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	600	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	75	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE VII

SUMMARY OF EFFLUENT LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY

SPS-11

LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	10/22/97	10/29/97	01/07/98	01/13/98	02/12/98	03/23/98	04/13/98	05/05/98	09/24/98	10/29/98	11/18/98
COMPOUND		CONCENTRATION (ug/l)										
1,1-DICHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	700	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.1	1.6
HEXACHLOROBUTADIENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-ISOPROPYLTOLUENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NAPHTHALENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.5
PROPYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	100	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2,2-TETRACHLOROETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRAHYDRFURAN (THF)		<5.0	<5.0	<5.0	<5.0	---	---	---	---	---	<0.5	---
TOLUENE	1000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	70	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE VII

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

DATE SAMPLED	MCL	10/22/97	10/29/97	01/07/98	01/13/98	02/12/98	03/23/98	04/13/98	05/05/98	09/24/98	10/29/98	11/18/98
COMPOUND		CONCENTRATION (ug/l)										
1,1,1-TRICHLOROETHANE	200	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROFLUOROMETHANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
1,3,5-TRIMETHYLBENZENE		<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	2	<2.0	<2.0	<2.0	<2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
O-XYLENE		<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---
P AND M-XYLENE		<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	---	---
TOTAL XYLENES	10000	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	1.8

TABLE VIII

PUMPING WELL PW-1
SUMMARY OF WATER LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	4/9/97	4/29/97	7/15/97	10/8/97	1/13/98	2/12/98	3/23/98	4/13/98	5/5/98	6/4/98	7/27/98	8/13/98	9/24/98	10/29/98	11/18/98
COMPOUND		CONCENTRATION (ug/l)														
BENZENE	5	5.6	15.8	4.8	3.2	32.8	15.0	16.0	16.9	15.4	<0.5	15.8	<0.5	5.2	9.2	13.9
BROMOBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE (MEK)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
n-BUTYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SEC-BUTYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TERT-BUTYL METHYL ETHER (MTBE)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CARBON TETRACHLORIDE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	100	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROFORM	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOCHLOROMETHANE	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE	0.05	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	75	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE VIII

PUMPING WELL PW-1
SUMMARY OF WATER LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	4/9/97	4/29/97	7/15/97	10/8/97	1/13/98	2/12/98	3/23/98	4/13/98	5/5/98	6/4/98	7/27/98	8/13/98	9/24/98	10/29/98	11/18/98
COMPOUND		CONCENTRATION (ug/l)														
1,1-DICHLOROETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROETHANE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	7	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	70	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	100	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	700	2.4	3.1	0.7	0.6	4.8	2.5	1.7	1.6	1.4	<0.5	2.1	<0.5	0.7	1.1	1.6
HEXACHLOROBUTADIENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE		<0.5	---	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-ISOPROPYLTOLUENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
METHYLENE CHLORIDE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NAPHTHALENE		<0.5	---	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	0.5	0.5
PROPYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
STYRENE	100	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRAHYDRFURAN (THF)		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	---
TOLUENE	1000	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	70	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE VIII

PUMPING WELL PW-1
SUMMARY OF WATER LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	4/9/97	4/29/97	7/15/97	10/8/97	1/13/98	2/12/98	3/23/98	4/13/98	5/5/98	6/4/98	7/27/98	8/13/98	9/24/98	10/29/98	11/18/98
COMPOUND	CONCENTRATION (ug/l)															
1,1,1-TRICHLOROETHANE	200	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROETHENE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRICHLOROFLUOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,3-TRICHLOROPROPANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRIMETHYLBENZENE		<0.5	---	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
1,3,5-TRIMETHYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
VINYL CHLORIDE	2	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
O-XYLENE		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
P AND M-XYLENE		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL XYLENES	10000	1.5	0.14	1.1	0.75	2.5	1.0	1.1	1.4	1.3	<0.5	2.3	<0.5	0.9	1.0	1.8

TABLE IX

PUMPING WELL PW-2
SUMMARY OF WATER LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED COMPOUND	MCL	4/9/97	4/29/97	7/15/97	10/8/97	1/13/98	2/12/98	3/23/98	4/13/98	5/5/98	6/4/98	7/27/98	8/13/98	9/24/98	10/29/98	11/18/98
		CONCENTRATION (mg/l)														
BENZENE	5	<0.5	12.0	11.1	2.5	135	96.4	131	160	146	243	137	107	139	124	110
BROMOBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOCHLOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMODICHLOROMETHANE	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOFORM	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
BROMOMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-BUTANONE (MEK)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
n-BUTYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	2.0	2.8	<0.5	0.77	0.6	1.0	0.6	1.6	1.1
SEC-BUTYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	0.6	0.8	0.8	0.8	0.7	1.0	0.7	0.8	0.6
TERT-BUTYLBENZENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	3.3	7.2	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5
TERT-BUTYL METHYL ETHER (MTBE)		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CARBON TETRACHLORIDE	5	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROBENZENE	100	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROFORM	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CHLOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2-CHLOROTOLUENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
4-CHLOROTOLUENE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMO-3-CHLOROPROPANE	0.2	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOCHLOROMETHANE	80	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DIBROMOETHANE	0.05	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DIBROMOMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROBENZENE	600	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,4-DICHLOROBENZENE	75	<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DICHLORODIFLUOROMETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHANE		<0.5	---	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE IX

PUMPING WELL PW-2
SUMMARY OF WATER LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

DATE SAMPLED	MCL	4/9/97	4/29/97	7/15/97	10/8/97	1/13/98	2/12/98	3/23/98	4/13/98	5/5/98	6/4/98	7/27/98	8/13/98	9/24/98	10/29/98	11/18/98
COMPOUND																
1,2-DICHLOROETHANE	5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROETHENE	7	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,2-DICHLOROETHENE	70	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,2-DICHLOROETHENE	100	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2-DICHLOROPROPANE	5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,3-DICHLOROPROPANE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
2,2-DICHLOROPROPANE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1-DICHLOROPROPENE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CIS-1,3-DICHLOROPROPENE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TRANS-1,3-DICHLOROPROPENE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ETHYLBENZENE	700	<0.5	1.0	0.96	<0.5	33.5	25.3	36.0	40.9	41.9	58.5	44.1	29	47.6	51	39.4
HEXACHLOROBUTADIENE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
ISOPROPYLBENZENE		<0.5	--	<0.5	<0.5	2.0	2.0	2.3	2.6	2.9	2.4	2.8	4.5	2.9	3.4	2.4
4-ISOPROPYLTOLUENE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	0.67	0.6	0.9	0.6	0.9	<0.5
METHYLENE CHLORIDE	5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
NAPHTHALENE		<0.5	--	<0.5	<0.5	1.7	1.4	1.2	1.3	2.1	1.69	2.5	4.2	2.4	2.9	2.0
PROPYLBENZENE		<0.5	--	<0.5	<0.5	1.0	0.9	1.1	1.3	1.6	1.35	3.1	4.8	3.0	3.4	2.4
STYRENE	100	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.1	<0.5	<0.5	<0.5
1,1,1,2-TETRACHLOROETHANE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2,2-TETRACHLOROETHANE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRACHLOROETHENE	5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TETRAHYDRFURAN (THF)		<0.5	--	<0.5	<0.5	<0.5	--	--	--	--	--	--	--	--	--	--
TOLUENE	1000	<0.5	<0.5	<0.5	<0.5	63	7.1	14.8	21.8	19.7	39.9	16.9	18.6	25.7	26	9.6
1,2,3-TRICHLOROBENZENE		<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,2,4-TRICHLOROBENZENE	70	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,1-TRICHLOROETHANE	200	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
1,1,2-TRICHLOROETHANE	5	<0.5	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

PUMPING WELL PW-2
SUMMARY OF WATER LABORATORY RESULTS - VOC
TEXAS - NEW MEXICO PIPE LINE COMPANY
SPS-11
LEA COUNTY, NEW MEXICO

p:\tmp\610099\annual\annul98.xls (TABLE IX)

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

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



HOUSTON - DALLAS - SAN ANTONIO

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Houston - Dallas - San Antonio - Latin America

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!



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	Sample Collected	Addition Requested	Extraction	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	Oct 22, 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 08:15		Nov 6, 1998 by AO	Nov 11, 1998 14:54 by CG
22			Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 08:15		Nov 6, 1998 by AO	Nov 13, 1998 15:31 by CG
23			BTEX	SW-846	ppm	10 days	Oct 28, 1998 08:15		Oct 29, 1998 by HL	Oct 29, 1998 14:44 by HL
24			PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 08:15		Oct 30, 1998 by SS	Nov 3, 1998 18:17 by LC
25			Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 08:15		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



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

NM

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 08:15		Oct 30, 1998 by SS	Nov 3, 1998 19:02 by LC
		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 08:15		Nov 6, 1998 by ALO	Nov 9, 1998 14:26 by MAB
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
		BTEX	SW-946	ppm	10 days	Oct 28, 1998 09:30		Oct 30, 1998 by HL	Oct 30, 1998 18:37 by HL
		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 09:30		Oct 30, 1998 by SS	Nov 3, 1998 19:47 by LC
		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 09:30		Nov 6, 1998 by ALO	Nov 9, 1998 14:32 by MAB
		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
MW-10	184188-008	BTEX	SW-946	ppm	10 days	Oct 28, 1998 13:10		Oct 30, 1998 by HL	Oct 30, 1998 20:24 by HL
		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 13:10		Oct 30, 1998 by SS	Nov 3, 1998 20:32 by LC
		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 13:10		Nov 6, 1998 by ALO	Nov 9, 1998 14:37 by MAB
		Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 13:10		Nov 6, 1998 by AO	Nov 11, 1998 14:58 by CG
		Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 13:10		Nov 6, 1998 by AO	Nov 13, 1998 15:13 by CG
MW-11	184188-009	BTEX	SW-946	ppm	10 days	Oct 28, 1998 12:30		Oct 30, 1998 by HL	Oct 30, 1998 21:02 by HL
		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 12:30		Oct 30, 1998 by SS	Nov 3, 1998 21:18 by LC
		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 12:30		Nov 6, 1998 by ALO	Nov 9, 1998 14:42 by MAB
		Tot. Boron	EPA	mg/L	14 days	Oct 28, 1998 12:30		Nov 6, 1998 by AO	Nov 13, 1998 15:16 by CG
		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
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
		BTEX	SW-946	ppm	10 days	Oct 28, 1998 11:45		Oct 30, 1998 by HL	Oct 30, 1998 18:00 by HL
		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:45		Oct 30, 1998 by SS	Nov 3, 1998 22:03 by LC
		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:45		Nov 6, 1998 by ALO	Nov 9, 1998 14:47 by MAB
		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
MW-13	184188-011	BTEX	SW-946	ppm	10 days	Oct 28, 1998 11:15		Oct 29, 1998 by HL	Oct 29, 1998 15:40 by HL
		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:15		Oct 30, 1998 by SS	Nov 3, 1998 22:48 by LC
		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:15		Nov 6, 1998 by ALO	Nov 9, 1998 14:52 by MAB
		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
		Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 11:15		Nov 6, 1998 by AO	Nov 13, 1998 15:51 by CG
MW-14	184188-012	BTEX	SW-946	ppm	10 days	Oct 28, 1998 11:00		Oct 29, 1998 by HL	Oct 29, 1998 16:36 by HL



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	Sample Collected	Addition Requested	Extraction	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 16:05 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

		Date and Time						
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction
85		Mercury, Tot	SW846-7470	mg/L	5 days	Oct 28, 1998 13:55		Nov 6, 1998 by AO
86	184188-018	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 12:15		Nov 6, 1998 by AO
87		Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 12:15		Nov 6, 1998 by AO
88		BTEX	SW-846	ppm	10 days	Oct 28, 1998 12:15		Oct 29, 1998 by HL
89		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 12:15		Nov 3, 1998 by SS
90		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 12:15		Nov 6, 1998 by ALO
91	184188-019	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 12:00		Nov 6, 1998 by AO
92		BTEX	SW-846	ppm	10 days	Oct 28, 1998 12:00		Oct 30, 1998 by HL
93		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 12:00		Nov 3, 1998 by SS
94		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 12:00		Nov 6, 1998 by ALO
95		Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 12:00		Nov 6, 1998 by AO
96	184188-020	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 11:30		Nov 6, 1998 by AO
97		BTEX	SW-846	ppm	10 days	Oct 28, 1998 11:30		Oct 29, 1998 by HL
98		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 11:30		Nov 3, 1998 by SS
99		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 11:30		Nov 6, 1998 by ALO
..		Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 11:30		Nov 6, 1998 by AO
..	184188-021	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 10:00		Nov 6, 1998 by AO
..		BTEX	SW-846	ppm	10 days	Oct 28, 1998 10:00		Oct 30, 1998 by HL
..		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:00		Nov 3, 1998 by SS
..		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:00		Nov 6, 1998 by ALO
..		Mercury, Tot	SW846-7470	mg/L	Standard	Oct 28, 1998 10:00		Nov 6, 1998 by AO
..	184188-022	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 10:00		Nov 6, 1998 by AO
..		BTEX	SW-846	ppm	10 days	Oct 28, 1998 10:00		Oct 30, 1998 by HL
..		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:00		Nov 3, 1998 by SS
..		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:00		Nov 6, 1998 by ALO
..		Mercury, Tot	SW846-7470	mg/L	5 days	Oct 28, 1998 10:00		Nov 6, 1998 by AO
..	184188-023	Tot. Boron	EPA	mg/L	10 days	Oct 28, 1998 10:15		Nov 6, 1998 by AO
..		BTEX	SW-846	ppm	Standard	Oct 28, 1998 10:15		Nov 6, 1998 by AO
..		PAHs	SW846-8270	mg/L	10 days	Oct 28, 1998 10:15		Oct 30, 1998 by HL
..		Tot. Metals	EPA	mg/L	10 days	Oct 28, 1998 10:15		Nov 3, 1998 by SS
..		Tot. Boron	EPA	mg/L	7 days	Oct 28, 1998 09:45		Nov 6, 1998 by ALO
..		BTEX	SW-846	ppm	10 days	Oct 28, 1998 09:45		Nov 6, 1998 by AO
..								Oct 30, 1998 by HL



Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Date and Time			
						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

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 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	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/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	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/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	10/30/98 ppm	10/29/98 ppm	10/29/98 ppm	10/29/98 ppm	10/29/98 ppm	10/30/98 ppm
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 (0.006)
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	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/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

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 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
PAHs by GC-MS EPA 8270		Analyzed: Units:	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/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 ICP-MS Metal		Analyzed: Units:	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/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

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

Total Metals by ICP-MS ICP-MS Metal	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
		11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L
Molybdenum	Analyzed: Units:						
Nickel		< 0.11 (0.11)	< 0.11 (0.11)	< 0.11 (0.11)	< 0.11 (0.11)	< 0.11 (0.11)	< 0.11 (0.11)
Selenium		< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Silicon		< 0.05 (0.05)	< 0.05 (0.05)	< 0.05 (0.05)	< 0.05 (0.05)	< 0.05 (0.05)	< 0.05 (0.05)
Silver		24.1 (1.1)	25.0 (1.1)	17.4 (1.1)	17.3 (1.1)	22.4 (1.1)	21.0 (1.1)
Strontium		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
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		< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)
Zinc		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	0.04 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
		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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 Eddie L. Clemons, II
 QA/QC Manager

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 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	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/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	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/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	10/30/98 ppm	10/30/98 ppm	10/30/98 ppm	10/30/98 ppm	10/29/98 ppm	10/29/98 ppm
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	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/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
Eddie L. Clemons, II

QA/QC Manager

Project ID: 610099-1-0
 Project Manager: S.Grover
 Project Location: Lea County, NM

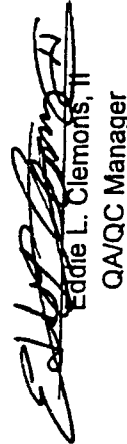
K.E.I. Consultants, Inc.
 Project Name: SPS-11

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 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
		11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L	11/03/98 mg/L
PAHs by GC-MS	Analyzed: Units:						
EPA 8270							
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)	< 0.002 (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: Units:						
ICP-MS Metal							
Aluminum		11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L
Arsenic		< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)
Barium		< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Beryllium		0.49 (0.03)	0.42 (0.03)	0.17 (0.03)	0.18 (0.03)	0.12 (0.03)	0.55 (0.03)
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		< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)
Chromium		140 (0.6)	192 (0.6)	190 (0.6)	130 (0.6)	89.3 (0.6)	196 (0.6)
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		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Iron		0.08 (0.06)	< 0.03 (0.03)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Lead		4.83 (0.56)	0.89 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	3.56 (0.56)
Magnesium		< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Manganese		37.6 (0.6)	51.8 (0.6)	17.8 (0.6)	19.1 (0.6)	10.2 (0.6)	49.2 (0.6)
		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

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

Total Metals by ICP-MS ICP-MS Metal	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
		11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L
Molybdenum	Analyzed: Units:	< 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 (1.1)
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)	< 0.03 (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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Eddie L. Clemons, II
QA/QC Manager

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: 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	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/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	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/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	10/29/98 ppm	10/29/98 ppm	10/30/98 ppm	10/29/98 ppm	10/29/98 ppm	10/29/98 ppm
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	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/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

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: 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 EPA 8270						
Dibenz(a,h)anthracene	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L
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 ICP-MS Metal						
Aluminum	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L
Arsenic	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)	< 1.1 (1.1)
Barium	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Beryllium	0.16 (0.03)	0.15 (0.03)	0.14 (0.03)	0.16 (0.03)	0.12 (0.03)	0.13 (0.03)
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	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)	< 0.006 (0.006)
Chromium	158 (0.6)	117 (0.6)	170 (0.6)	172 (0.6)	197 (0.6)	184 (0.6)
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	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Iron	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)	< 0.06 (0.06)
Lead	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)	< 0.56 (0.56)
Magnesium	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)	< 0.03 (0.03)
Manganese	16.4 (0.6)	15.3 (0.6)	16.3 (0.6)	18.8 (0.6)	14.0 (0.6)	16.7 (0.6)
	< 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

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
Total Metals by ICP-MS						
ICP-MS Metal						
Molybdenum	11/09/98 mg/L < 0.11 (0.11)	11/09/98 mg/L < 0.11 (0.11)	11/09/98 mg/L < 0.11 (0.11)	11/09/98 mg/L < 0.11 (0.11)	11/09/98 mg/L < 0.11 (0.11)	11/09/98 mg/L < 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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Eddie L. Clemons, II
QA/QC Manager

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: 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
	Analyzed: Units:		11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L	11/13/98 mg/L
Total Boron EPA 6010			0.14 (0.11)	0.12 (0.11)	0.15 (0.11)	0.17 (0.11)	0.14 (0.11)
Boron							
Total Mercury EPA 7470			11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/L	11/11/98 mg/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			10/30/98 ppm	10/29/98 ppm	10/30/98 ppm	10/30/98 ppm	10/30/98 ppm
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			11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/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
Eddie L. Clemons, II
QA/QC Manager

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

PAHs by GC-MS EPA 8270	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
		11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L	11/04/98 mg/L
Dibenz(a,h)anthracene	Analyzed: Units:	< 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	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L
		R.L.	R.L.	R.L.	R.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)	< 0.06 (0.06)	< 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)

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

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

 Total Metals by ICP-MS
 ICP-MS Metal

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
Analyzed: Units:	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/L	11/09/98 mg/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)

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

EPA SW846/6010 Total Boron

Date Validated: Nov 16, 1998 13:09

Analyst: CG

Date Analyzed: Nov 13, 1998 16:34

Matrix: Liquid

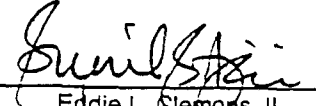
BLANK SPIKE ANALYSIS							
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Detection	QC	LIMITS	Qualifier
	Result	Result	Spike		Blank Spike	Recovery	
	mg/L	mg/L	Amount	Limit	Recovery	Range	
	mg/L	mg/L	mg/L	mg/L	%	%	
Boron	< 0.111	1.992	2.220	0.111	89.7	70-125	

Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

N/A 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

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

Q.C. Sample ID 18A46A56-001 Parameter	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS			
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]
	Sample Result mg/L	Duplicate Result mg/L	Detection Limit mg/L	QC Relative Difference %	LIMITS Relative Difference %	Matrix Spike Result mg/L	Matrix Spike Amount mg/L	QC Matrix Spike Recovery %	LIMITS Recovery Range %
Boron	0.260	0.248	0.111	4.7	25.0	2.341	2.22	93.7	70-125

Relative Difference [D] = $200 \cdot (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \cdot (F-A)/(G)$
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. Clemens, II
Eddie L. Clemens, II
QC Manager



Certificate Of Quality Control for Batch : 18A46A56

EPA SW346/6010 Total Boron

Date Validated: Nov 16, 1998 13:09

Date Analyzed: Nov 13, 1998 15:51

Analyst: CG

Matrix: Liquid

Q.C. Sample ID 18A46A56- 011 Parameter		MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E]	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]	[I]	[J] Recovery Range %	[K] Qualifier
					QC	Relative Difference %	LIMITS			QC	Matrix Spike Recovery %		
Boron		0.132	0.136	0.111	3.0	25.0	2.236	2.22	94.8	70-125			

Relative Difference [D] = $200 \cdot (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \cdot (F-A)/(G)$
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. Glemond, II
QA/QC Manager



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 18A133- 021	Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	Qualifier	
		Sample Result mg/L	Duplicate Result mg/L	Detection Limit mg/L	QC	LIMITS							
					Relative Difference %	Relative Difference %							
Mercury		< 0.0011	< 0.0011	0.0011	N.C	25.0	0.0029	0.0028	103.6		70-120		

Relative Difference [D] = $200 \cdot (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \cdot (F-A)/(G)$
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



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 18A133- 001	Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[G]
		Sample Result mg/L	Duplicate Result mg/L	Detection Limit mg/L	QC	LIMITS	Matrix Spike Result mg/L	Matrix Spike Amount mg/L	QC	Recovery Range %	Qualifier
					Relative Difference %	Relative Difference %			Matrix Spike Recovery %		
		< 0.0011	< 0.0011	0.0011	N.C	25.0	0.0028	0.0028	100.0	70-120	
	Mercury										

Relative Difference [D] = $200 \cdot (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \cdot (F-A)/(G)$
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. Clemens, II
Eddie L. Clemens, II
Lab Manager



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

Q.C. Sample ID 18A183B-011 Parameter		MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E]	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]		[I] LIMITS Recovery Range %	[J] Qualifier
					QC	Relative Difference %	LIMITS Relative Difference %			QC	Matrix Spike Recovery %		
Mercury		< 0.0011	< 0.0011	0.0011	N.C	25.0	0.0029	0.0028	103.6	70-120			

Relative Difference [D] = $200 \cdot (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \cdot (F-A)/(G)$
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

Swilstein
Eddie L. Clemons, II
Range Manager

SW- 846 5030/8021B BTEX

Date Validated: Nov 2, 1998 09:45

Analyst: HL

Date Analyzed: Oct 30, 1998 15:49

Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	ppm	ppm	ppm	ppm	Blank Spike Recovery %	Recovery Range %	
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	

 Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

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

Certificate Of Quality Control for Batch : 18A25D81

SW- 346 5030/3021B 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 184183- 002 Parameter		[A]	[B]	[C]	[D]	[E]	Matrix Limit	[F]	[G]	[H]	[I]	[J]
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Detection Limit ppm	Relative Difference	QC	QC	M.S.D. Recovery	Matrix Spike Recovery Range %	Qualifier
								Spike Relative Difference %	Matrix Spike Recovery %			
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] = $200 \cdot (B-C)/(B+C)$

Matrix Spike Recovery [G] = $100 \cdot (B-A)/[D]$

M.S.D. = Matrix Spike Duplicate

M.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

[Signature]
Eddie L. Clemons, II

QA/QC Manager

SW- 846 5030/8021B BTEX

Date Validated: Oct 30, 1998 16:30

Analyst: HL

Date Analyzed: Oct 29, 1998 12:34

Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	ppm	ppm	ppm	ppm	Blank Spike Recovery %	Recovery Range %	
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] = $100 \times (B-A)/(C)$

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

SW346- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04

Analyst: CG

Date Analyzed: Nov 11, 1998 15:17

Matrix: Liquid

BLANK SPIKE ANALYSIS

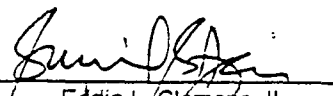
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Detection	QC	LIMITS	Qualifier
	Result	Result	Spike		Blank Spike	Recovery	
	mg/L	mg/L	Amount	Limit	Recovery	Range	
			mg/L	mg/L	%	%	
Mercury	< 0.0011	0.0029	0.0028	0.0011	103.6	70-120	

Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

N.D. = 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

SW346- 7470 Total Mercury

Date Validated: Nov 12, 1998 11:04

Analyst: CG

Date Analyzed: Nov 11, 1998 14:37

Matrix: Liquid

BLANK SPIKE ANALYSIS

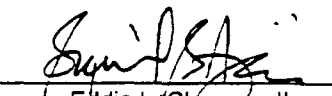
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Mercury	< 0.0011	0.0030	0.0028	0.0011	107.1	70-120	

Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

= 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

Certificate Of Quality Control for Batch : 18A25D83

SW- 346 5030/3021B 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	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		[G] QC Matrix Spike Recovery %	[H] QC		[I] Matrix Spike Recovery Range %	[J] Qualifier
								Spike Relative Difference %	Difference %		M.S.D. Recovery %	Recovery %		
	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] = $200 \cdot (B-C)/(B+C)$
Matrix Spike Recovery [G] = $100 \cdot (B-A)/[D]$
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$
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

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

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY												
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]		
	Blank Result mg/L	Blank Spike Result mg/L	Blank Spike Duplicate Result mg/L	Blank Spike Amount mg/L	Detection Limit mg/L	Blank Limit Relative Difference %	QC	Blank Spike Recovery %	B.S.D. Recovery %	Blank Spike Recovery Range %		
							Spike Relative Difference %					
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] = $200 \cdot (B-C)/(B+C)$

Blank Spike Recovery [G] = $100 \cdot (B-A)/[D]$

B.S.D. = Blank Spike Duplicate

B.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II
Eddie L. Clemons, II
QA/QC Manager

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]		[G]		[H]		[I] Blank Spike Recovery Range %	[J] Qualifier
							QC	Spike Relative Difference %	QC	Blank Spike Recovery %	QC	B.S.D. Recovery %		
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] = $200 \cdot (B-C)/(B+C)$

Blank Spike Recovery [G] = $100 \cdot (B-A)/[D]$

B.S.D. = Blank Spike Duplicate

B.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Eddie L. Clemons, II

Eddie L. Clemons, II

QA/QC Manager

Houston Dallas San Francisco

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17

Analyst: MAB

Date Analyzed: Nov 9, 1998 16:48

Matrix: Liquid

BLANK SPIKE ANALYSIS

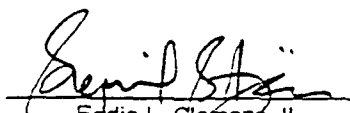
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Aluminum	< 0.56	2.13	2.22	0.56	95.9	70-125	
Arsenic	< 0.028	2.050	2.220	0.028	92.3	70-125	
Barium	< 0.028	0.884	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	
Copper	< 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	

 Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

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. Clemmons, II
 QA/QC Manager



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

Q.C. Sample ID 18A48A- 021	MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
	[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] 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 %	[J] Qualifier
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] = $200 \times (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \times (F-A)/(G)$
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. Clemens, II
QC Manager



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

Q.C. Sample ID 18-4188- 021 Parameter		MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E] LIMITS Relative Difference %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]	[I]	[J] Qualifier
					QC	Relative Difference %				QC	Recovery Range %	
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	0.058	0.028	13.3	25.0	1.112	1.10	95.3	70-125		

(A) LCS within acceptance limits.
Relative Difference [D] = $200 \times (B-A)/(B+A)$
Matrix Spike Recovery [H] = $100 \times (F-A)/(G)$
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. Clemens
QC Manager

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17

Analyst: MAB

Date Analyzed: Nov 9, 1998 13:23

Matrix: Liquid

BLANK SPIKE ANALYSIS

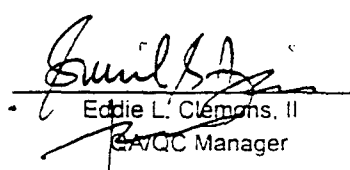
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Aluminum	3.03	11.52	10.00	2.78	84.9	70-125	
Arsenic	< 0.139	10.083	10.000	0.139	100.8	70-125	
Barium	< 0.139	4.281	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	
Copper	< 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	

 Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

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



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

Q.C. Sample ID 18A183B- 001	Parameter	MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E] LIMITS Relative Difference % %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]		[I] LIMITS Recovery Range %	[G] Qualifier
					QC	Relative Difference %				QC	Matrix Spike Recovery %		
	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] = $200 \cdot (B-A)/(B+A)$

Matrix Spike Recovery [H] = $100 \cdot (F-A)/[G]$

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. Clements, II
QA/QC Manager



Certificate Of Quality Control for Batch : 18A48A19

EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Nov 10, 1998 14:17

Analyst: MAB

Date Analyzed: Nov 9, 1998 13:39

Matrix: Liquid

Q.C. Sample ID 18A48A- 001 Parameter		MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E]	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]	[I]	[G] Qualifier	
					QC	Relative Difference %	LIMITS			QC	Recovery Range %		
							Relative Difference %						
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] = $200 \times (B-A)/(B+A)$

Matrix Spike Recovery [H] = $100 \times (F-A)/(G)$

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. Clements, II
QA/QC Manager



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

Q.C. Sample ID 18A48A- 011 Parameter		MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS						
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E] LIMITS	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]		[I] LIMITS	[J] Qualifier
					QC	Relative Difference				QC	Matrix Spike Recovery		
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 measurement attributed to sample non-homogeneity.

Relative Difference [D] = $200 \times (B-A)/(B+A)$

Matrix Spike Recovery [H] = $100 \times (F-A)/[G]$

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

David L. Clemmons, II
David L. Clemmons, II
QA/QC Manager



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

Q.C. Sample ID 18A48A-011 Parameter		MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Detection Limit mg/L	[D]		[E] LIMITS Relative Difference %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]		[I] LIMITS Recovery Range %	[J] Qualifier
					QC	Relative Difference %				QC	Matrix Spike Recovery %		
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 measurement attributed to sample non-homogeneity.

Relative Difference [D] = $200 \times (B-A)/(B+A)$

Matrix Spike Recovery [H] = $100 \times (F-A)/(G)$

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

Company YET SPS-11		Phone (210) 680-3767		Lab Only: 184188-SA					
Project Name Previously done at XENCO		Project ID 6100991-1-Q		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					
Location LEA COUNTY NM		Project Director (PD) M. NAWTMAHNE							
Fax Results to S. GROVER		Fax (210) 680-3763							
Invoice to ☐ Accounting ☐ Include Invoice with Final Report Attn PM ☐ Invoice must have a P.O. Bill to:		Quote No.							
Special DIs (RR1 RR2 DW QAPP See Lab PM Call Proj. PM)		P.O. No. 10099-1-D ☐ Call for a P.O.							
Specifications									
Sampler Name Ken Dutton		Signature 							
Sample ID	Sampling Date	Time	Depth # 5"	Matrix AP SW	Composite	# Containers	Container Size	Type	Preservatives
MW-1	28 OCT 98	0800			X	4	1 1/2	P, GA, CH, HNO3	
MW-2		0804							
MW-3		0845							
MW-4		0830							
MW-6		0915							
MW-7		0815							
MW-9		0930							
MW-10		1310							
MW-11		1230							
MW-12		1145							
Relinquished by (Initials and Signature) 			Relinquished to (Initials and Signature)			Date & Time		Total Containers per COC: 92	
						28 OCT 98 1500		Rush TATs Fax Due:	
								Final Report Data Package Due Date:	
						10/29/98 10:00		Rush Charges are Pre-Approved upon Requesting them. All Terms Apply	
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) _____									



- ☐ 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

Company COC No: 188

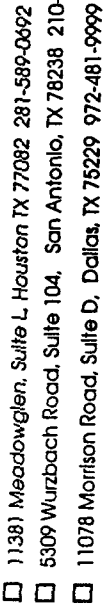
Work Order No: 1

10177

Page 2 of 3

Company		Phone		Lab Only		Lab Only Additions	
Project Name		Previously done at XENCO		Project ID			
Locallion							
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					
Sample ID	Sampling Date	Time	Depth	Matrix	Composite	Grab	# Containers
MW-13	21 Oct 98	1115					
MW-14		1100					
MW-15		1045					
MW-16		1030					
MW-17		1320					
MW-18		1340					
MW-19		1355					
MW-20		1215					
MW-21		2006					
MW-22		1130					
Relinquished by (Initials and Signature)		Relinquished to (Initials and Signature)		Date & Time		Total Containers per COC: 72	
						Rush TATs Fax Due:	
						Final Report Data Package Due Date:	
						Final Fax Due:	
Lab:		10/29/98 10:00		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) _____



ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
On-LINE Help & Technical Services at XENCO.com

TU178
 Page 3 of 3

Company COC No: 1888

[illegible]

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
Phone (281) 589-0692 Fax (281) 589-0695



11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
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.

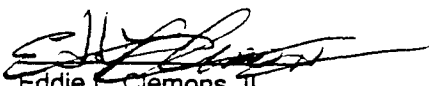
All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly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

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!

CERTIFICATE OF ANALYSIS SUMMARY 1-82651

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

K.E.I. Consultants, Inc.

Project Name: SPS-11

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
		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.
BTEX								
EPA 8020								
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

Project ID: 610099-1-0 Project Manager: P. Hartnett/T. Nix Project Location: Lea County, NM		K.E.I. Consultants, Inc. Project Name: SPS-11		Date Received in Lab : Jul 14, 1998 10:00 Date Report Faxed: Jul 20, 1998 XENCO contact : Carlos Castro/Eddie Clemons				
Analysis Requested BTEX EPA 8020 Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total BTEX		Lab ID: Field ID: Depth: Matrix: Sampled:	182651 007 MW-9 Liquid 07/11/98 11:31 R.L. 07/16/98 ppm	182651 008 MW-10 Liquid 07/11/98 10:17 R.L. 07/16/98 ppm	182651 009 MW-11 Liquid 07/11/98 10:30 R.L. 07/16/98 ppm	182651 010 MW-12 Liquid 07/11/98 11:10 R.L. 07/16/98 ppm	182651 011 MW-14 Liquid 07/11/98 11:45 R.L. 07/16/98 ppm	182651 012 MW-15 Liquid 07/11/98 11:52 R.L. 07/16/98 ppm
			0.412 (0.004)	0.083 (0.004)	0.458 (0.001)	0.088 (0.001)	6.70 (0.02)	< 0.001 (0.001)
			< 0.004 (0.004)	0.030 (0.004)	0.001 (0.001)	0.028 (0.001)	0.10 (0.02)	< 0.001 (0.001)
			0.080 (0.004)	0.014 (0.004)	< 0.001 (0.001)	0.018 (0.001)	0.83 (0.02)	< 0.001 (0.001)
			< 0.008 (0.008)	0.014 (0.008)	< 0.002 (0.002)	0.018 (0.002)	0.18 (0.04)	< 0.002 (0.002)
			< 0.004 (0.004)	0.010 (0.004)	< 0.001 (0.001)	0.009 (0.001)	0.10 (0.02)	< 0.001 (0.001)
			0.492	0.151	0.459	0.161	7.910	N.D.

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 Eddie L. Clemons, II
 QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY 1-82651

Project ID: 610099-1-0

Project Manager: P. Hartnett/T. Nix

Project Location: Lea County, NM

K.E.I. Consultants, Inc.

Project Name: SPS-11

Date Received in Lab : Jul 14, 1998 10:00

Date Report Faxed: Jul 20, 1998

XENCO contact : Carlos Castro/Eddie Clemons

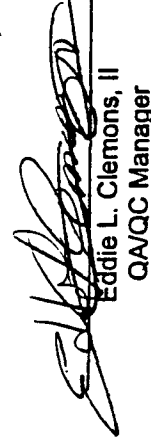
Analysis Requested	Lab ID:		182651 013	182651 014	182651 015	182651 016	182651 017	182651 018
	Field ID:	Depth:	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21
	Matrix:		Liquid	Liquid	Liquid	Liquid	Liquid	Liquid
	Sampled:		07/11/98 12:25	07/11/98 09:34	07/11/98 09:42	07/11/98 09:50	07/11/98 10:40	07/11/98 10:45
BTEX	Analyzed:		R.L.	R.L.	R.L.	R.L.	R.L.	R.L.
EPA 8020	Units:		ppm	ppm	ppm	ppm	ppm	ppm
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

Project ID: 610099-1-0 Project Manager: P. Hartnett/T. Nix Project Location: Lea County, NM		K.E.I. Consultants, Inc. Project Name: SPS-11		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.
Benzene		< 0.001 (0.001)	< 0.001 (0.001)	0.370 (0.001)	< 0.001 (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)	< 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)	< 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)	< 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)	< 0.001 (0.001)
Total BTEX		N.D.	N.D.	0.440	N.D.	N.D.	N.D.

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 Eddie L. Clemons, II
 QA/QC Manager

SW- 846 5030/8020 BTEX
Date Validated: Jul 17, 1998 15:00

Analyst: HL

Date Analyzed: Jul 16, 1998 17:15

Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	ppm	ppm	ppm	ppm	Blank Spike Recovery %	Recovery Range %	
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] = $100 \times (B-A)/(C)$

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

Certificate Of Quality Control for Batch : 18A25G31

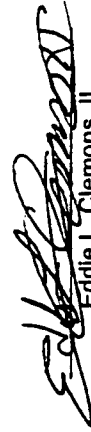
SW- 846 5030/8020 BTEX

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]		[J] Qualifier
								QC	M.S.D. Recovery %	
	Benzene	< 0.0010	0.1090	0.1070	0.1000	0.0010	20.0	1.9	107.0	70-125
	Toluene	< 0.0010	0.1010	0.1030	0.1000	0.0010	20.0	2.0	103.0	70-125
	Ethylbenzene	< 0.0010	0.1010	0.1030	0.1000	0.0010	20.0	2.0	103.0	70-125
	m,p-Xylenes	< 0.0020	0.2100	0.2130	0.2000	0.0020	20.0	1.4	106.5	70-125
	o-Xylene	< 0.0010	0.1040	0.1080	0.1000	0.0010	20.0	1.9	106.0	70-125

Spike Relative Difference [F] = $200 \cdot (B-C)/(B+C)$
Matrix Spike Recovery [G] = $100 \cdot (B-A)/D$
M.S.D. = Matrix Spike Duplicate
M.S.D. Recovery [H] = $100 \cdot (C-A)/D$
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

SW- 846 5030/8020 BTEX

Date Validated: Jul 16, 1998 15:00

Analyst: HL

Date Analyzed: Jul 15, 1998 15:44

Matrix: Liquid

BLANK SPIKE ANALYSIS							
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Detection Limit	QC	LIMITS	
	ppm	ppm	ppm	ppm	Blank Spike Recovery %	Recovery Range %	
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	

 Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

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

Certificate of Quality Control for Batch: 18A25C29

SW- 346 5030/3020 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	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Detection Limit ppm	Limit Relative Difference %	QC Spike Relative Difference %	QC Matrix Spike Recovery %	QC M.S.D. Recovery %	Matrix Spike Recovery Range %	Qualifier
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] = $200 \cdot (B-C)/(B+C)$
 Matrix Spike Recovery [G] = $100 \cdot (B-A)/[D]$
 M.S.D. = Matrix Spike Duplicate
 M.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$
 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



ANALYTICAL CHAIN OF 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

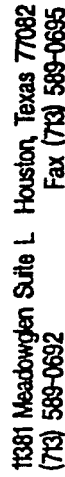
Project Name: SPS-11

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	Sample Collected	Addition Requested	Date and Time	
									Extraction	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 08:58		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 18:23 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



Page 1 of

Lab. Batch # 18265/-SA

Contractor K.E.I. Consultants		Phone (210) 680-3767		Contractor COC # 157												
Address 5309 Wurzbach, Ste 100 San Antonio, TX 78238		Project Name SPS-11		Quote #: PO No: 610099-1-0												
Project Location Lea County, NM		Project Director Mike Hawthorne		No coolers this shipment: Carrier: UPS												
Sampler Signature <i>[Signature]</i>		Project Manager Paul Barnett/Theresa Nix		Airbill No.												
Project No. 610099-1-0		Project No. 610099-1-0		Total 20												
SAMPLE CHARACTERIZATION		Preservative		Total												
Field ID	Date	Time	D E P T H	S O I L	W A T E R	C O M P	G R A B	Container Size Type P.G.	Is	Other	Ual Dies Ker Unknown	Wase Oil	PTT No:	Tank No:	Sample Description	
MW-1	11 July 98	10:23						40 ML		HC1						
MW-2		11:00														
MW-3		10:53														
MW-4		9:58														
MW-5		11:37														
MW-7		10:07														
MW-9		11:31														
MW-10		10:17														
MW-11		10:30														
MW-12		11:10														
No of CONTAINERS																
BTEX (5030/6020-602)																
TFH (481)																
Please Hold																
Turn-around																
ASAP																
24 hrs																
48 hrs																
Standard																
Remarks																
Please call Theresa if you have any questions on the Analysis																
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
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

[illegible]

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

* Pre-scheduling is recommended

Precision Analytical Services



11381 Meadowlark Suite L Houston, Texas 77082
(713) 589-0692

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 3 of 3
Lab. Batch # 182655A

Contractor K.C.I. Consultants		Phone (210) 680-3767		No. of CONTAINERS		No. coolers this shipment:		Contractor COC # 157							
Address 5309 Wurzbach Ste 100, San Antonio, TX 78238		Project Director Mike Hawthorne		Carrier: UPS		Quote #:		P.O. No: 610099-1-0							
Project Name SPS-11		Project Manager Paul Hartney/Theresa Wix		Airbill No.											
Project Location Lea County, NM		Project No. 610099-1-0													
Sampler Signature <i>[Signature]</i>		Project No. 610099-1-0													
SAMPLE CHARACTERIZATION															
Field ID	Date	Time	D E P T H	S O I L	W A T E R	C O M P	G R A B	Container Size Type P.G.	Preservative	Unl Dia Ker Unknown	Waste Oil	PTT No:	Sample Description	Tank No:	
MW-24	July 98	12:10						40 mL	/ HCL						
MW-25	July 98	12:19						40 mL	/ HCL						
MW-13	July-11	11:18							/ HCL						
Please Hold															
Turn-around															
* ASAP															
* 24 hrs															
* 48 hrs															
Standard															
Remarks															
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
Relinquished by: <i>[Signature]</i>										Signature		DATE		TIME	
7-13-98										7-13-98		1500			
Received For Laboratory by: <i>[Signature]</i>										Signature		DATE		TIME	
7/14/98										7/14/98		1000			
Remarks Please Fax Analytical Results to Theresa at 210-680-3763 * BTEX: EPA Method SW846-8020															

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

* Pre-scheduling is recommended

Precision Analytical Services

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



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!

CERTIFICATE OF ANALYSIS SUMMARY 1-81391

K.E.I. Consultants, Inc.

Project Name: SPS-11

Date Received in Lab : Apr 16, 1998 09:30

Project ID: 610099-1-0-0

Project Manager: Theresa Nix

Date Report Faxed: Apr 21, 1998

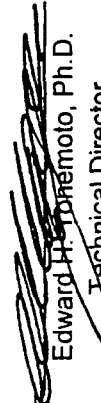
Project Location: Lea County, NM

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested

Lab ID: Field ID: Depth: Matrix: Sampled:	181391 001 MW-1 Liquid 04/15/98 07:17	181391 002 MW-2 Liquid 04/15/98 07:41	181391 003 MW-3 Liquid 04/15/98 07:30	181391 004 MW-4 Liquid 04/15/98 07:05	181391 005 MW-6 Liquid 04/14/98 14:30	181391 006 MW-7 Liquid 04/15/98 06:55
BTEX	04/17/98 ppm	04/16/98 ppm	04/16/98 ppm	04/16/98 ppm	04/16/98 ppm	04/16/98 ppm
EPA 8020						
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

Project ID: 610099-1-0-0

Project Manager: Theresa Nix

Project Location: Lea County, NM

K.E.I. Consultants, Inc.

Project Name: SPS-11

Date Received in Lab : Apr 16, 1998 09:30

Date Report Faxed: Apr 21, 1998

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested

BTEX EPA 8020	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
		Analyzed: Units:	04/17/98 ppm	04/17/98 ppm	04/17/98 ppm	04/17/98 ppm	04/17/98 ppm
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

Project ID: 610099-1-0-0 Project Manager: Theresa Nix Project Location: Lea County, NM		K.E.I. Consultants, Inc. Project Name: SPS-11 Date Received in Lab: Apr 16, 1998 09:30 Date Report Faxed: Apr 21, 1998 XENCO contact: Carlos Castro/Edward Yonemoto						
Analysis Requested BTEX EPA 8020 Benzene Toluene Ethylbenzene m,p-Xylenes o-Xylene Total BTEX	Lab ID: Field ID: Depth: Matrix: Sampled:	181391 013 MW-16 Liquid 04/14/98 13:22 R.L. ppm	181391 014 MW-17 Liquid 04/14/98 11:10 R.L. ppm	181391 015 MW-18 Liquid 04/14/98 11:25 R.L. ppm	181391 016 MW-19 Liquid 04/14/98 11:35 R.L. ppm	181391 017 MW-20 Liquid 04/14/98 12:18 R.L. ppm	181391 018 MW-21 Liquid 04/14/98 12:28 R.L. ppm	
		0.015 (0.001)	0.247 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	0.844 (0.004)
		0.024 (0.001)	0.278 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
		0.005 (0.001)	0.089 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
		0.004 (0.002)	0.080 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.008 (0.008)
		0.002 (0.001)	0.028 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.004 (0.004)
	0.050	0.722	N.D.	N.D.	N.D.	N.D.	0.844	

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 Edward H. Yonemoto, Ph.D.
 Technical Director

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

K.E.I. Consultants, Inc.
 Project Name: SPS-11

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

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 Edward H. Yonemoto, Ph.D.
 Technical Director

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]	[B]	[C]	[D]	[E]	Blank Limit	[F]	[G]	[H]	[I]	[J]	Qualifier
	Blank Result ppm	Blank Spike Result ppm	Blank Spike Duplicate Result ppm	Blank Spike Amount ppm	Detection Limit ppm	Relative Difference %	QC	QC	QC	Blank Spike Recovery Range %	Blank Spike Recovery %	
							Spike Relative Difference %	Blank Spike Recovery %	B.S.D. Recovery %			
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] = $200 \cdot (B-C)/(B+C)$

Blank Spike Recovery [G] = $100 \cdot (B-A)/[D]$

B.S.D. = Blank Spike Duplicate

B.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Houston · Dallas · San Antonio


Edward J. Yonemoto, Ph.D.
Technical Director

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]		[G]		[H]		[I]		[J] Qualifier
							QC	Spike Relative Difference %	QC	Blank Spike Recovery %	QC	B.S.D. Recovery %	Blank Spike Recovery Range %		
Benzene	< 0.0010	0.0944	0.0948	0.1000	0.0010	20.0	0.4	94.4	94.8	94.8	65-135				
Toluene	< 0.0010	0.1110	0.0975	0.1000	0.0010	20.0	12.9	110.8	97.5	97.5	65-135				
Ethylbenzene	< 0.0010	0.1060	0.0978	0.1000	0.0010	20.0	8.0	105.9	97.8	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	102.4	65-135				
o-Xylene	< 0.0010	0.1080	0.1010	0.1000	0.0010	20.0	6.7	107.9	100.9	100.9	65-135				

Spike Relative Difference [F] = $200 \cdot (B-C)/(B+C)$
 Blank Spike Recovery [G] = $100 \cdot (B-A)/[D]$
 B.S.D. = Blank Spike Duplicate
 B.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$
 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

Certificate of Quality Control for Batch : 18A25B22

SW- 846 5030/3020 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	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	0.0022	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] = $200 \cdot (B-C) / (B+C)$

Matrix Spike Recovery [G] = $100 \cdot (B-A) / [D]$

M.S.D. = Matrix Spike Duplicate

M.S.D. Recovery [H] = $100 \cdot (C-A) / [D]$

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



ANALYTICAL CHAIN 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

Date and Time										
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	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 18:37 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	



11381 Meadowlark Suite L Houston, Texas 77082
(713) 589-0692

CHOICE OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page / of

Lab. Batch # 181391-SA

Contractor K.E.I. Consultants		Phone (210) 1680-3767		No. coolers this shipment:		Contractor COC #	
Address 5309 Wurzbach, Suite 100 San Antonio, TX 78238		Project Director Mike Kewell		Carrier: UPS		Quote #: CALL T, MIX FOR P.O.	
Project Name SPS-11		Project Manager Theresa Wix		Airbill No.		PO No:	
Project Location Lee County, NM		Project No. 610099-1-0-0					
Sampler Signature <i>[Signature]</i>							
SAMPLE CHARACTERIZATION							
Field ID	Date	Time	DEPTH	SOIL	WATER	COMPA	GRA
MLW-1	15 APR 98	7:17					
MLW-2	15 APR 98	7:41					
MLW-3	15 APR 98	7:30					
MLW-4	15 APR 98	7:05					
MLW-6	14 APR 98	14:30					
MLW-7	15 APR 98	6:55					
MLW-9	14 APR 98	14:03					
MLW-11	14 APR 98	12:06					
MLW-12	15 APR 98	8:04					
MLW-13	15 APR 98	8:20					
PRESERVATIVE				Container	Size	Type	P, G
				Is	Other		
				Uhl	Dies	Ker	Unknown
				Waste Oil	PTT No:	Tank No:	
				Sample Description			
Total							
2							
BTEX (5030/2020-602)							
TFH (483)							
Please Hold							
Turn-around							
ASAP							
24 hrs							
48 hrs							
Standard							
Remarks							
Please Drill for Theresa Wix Analysis							
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
Remarks							
Fax Analytical Results to Theresa Wix							
210-680-3763							
BTEX: EPA METHOD SW846-8020							

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

* Pre-scheduling is recommended

Precision Analytical Services



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 # 181391-8A

Contractor K.E.I. Consultants		Phone (210) 680-3767		No coolers this shipment: Carrier: UPS Airbill No.		Contractor COC #		Quote #: P.O. No: PO							
Address 5309 Wurzbach, Suite 100 San Antonio, TX 78238		Project Director Mike Hawthorne		Project Manager Theresa Nix		Project No. 610099-1-0-0		LAB ONLY ID #							
Project Name GRS-11		Project Location Lee County, NM		Project Signature <i>[Signature]</i>		Project No. 610099-1-0-0		Turn-around - ASAP - 24 hrs - 48 hrs Standard							
Field ID		Date	Time	SAMPLE CHARACTERIZATION		Preservative		Remarks							
				D E P T H	S O I L	W A T E R	C O M P	G R A B	Container Size Type P.G	Is Other	Unl Dies Ker Unknown	Tank No:	Sample Description		
MW-14	14 Apr 98	13:50							40m	1K1					
MW-15	14 Apr 98	13:40													
MW-16	14 Apr 98	13:22													
MW-17	14 Apr 98	11:10													
MW-18	14 Apr 98	11:25													
MW-19	14 Apr 98	11:35													
MW-20	14 Apr 98	12:18													
MW-21	14 Apr 98	12:28													
MW-22	15 Apr 98	8:15													
MW-23	14 Apr 98	13:08													
Requisitioned by <i>[Signature]</i>		Signature <i>[Signature]</i>		DATE 4-15-98		TIME 1300		Received by <i>[Signature]</i>		Signature <i>[Signature]</i>		DATE 4-14-98		TIME 930	
Remarks Please Fax Analytical Results To Theresa Nix: 210-680-3763 BTEX: EDA METHOD SW846-8020															

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

** Pre-scheduling is recommended

Precision Analytical Services

[illegible]

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

*** Pre-scheduling is recommended**

Precision Analytical Services

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

K.E.I. Consultants, Inc.
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

BTEX EPA 8020	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
		01/25/98 ppm	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm
Benzene	Analyzed: Units:	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

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

K.E.I. Consultants, Inc.
Project Name: SPS-11

Project ID: 610099
Project Manager: Theresa Nix
Project Location: 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 007 MW-9 Liquid 01/22/98 11:18	180255 008 MW-11 Liquid 01/21/98 13:58	180255 009 MW-12 Liquid 01/22/98 10:43	180255 010 MW-13 Liquid 01/22/98 11:00	180255 011 MW-14 Liquid 01/22/98 11:58	180255 012 MW-15 Liquid 01/22/98 12:06
BTEX	01/25/98	01/25/98	01/25/98	01/25/98	01/25/98	01/25/98
EPA 8020	Units:	Units:	Units:	Units:	Units:	Units:
Benzene	1.592 (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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Edward H. Yonemoto, Ph.D.
 Technical Director



CERTIFICATE OF ANALYSIS SUMMARY 1-80255

Project ID: 610099

Project Manager: Theresa Nix

Project Location: SPS-11

K.E.I. Consultants, Inc.

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
Analyzed: Units:	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm	01/25/98 ppm
BTEX						
EPA 8020						
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

Project ID: 610099 Project Manager: Theresa Nix Project Location: SPS-11		K.E.I. Consultants, Inc. 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		Analyzed: Units:	01/25/98 ppm	01/25/98 ppm	01/26/98 ppm	01/26/98 ppm
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.

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

Certificate Of Quality Control for Batch : 18A25A24

SW- 346 5030/3020 RTX

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		[G] QC		[H] QC		[I] Matrix Spike Recovery Range %	[J] Qualifier
								Spike Relative Difference %		Matrix Spike Recovery %		M.S.D. Recovery %			
	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] = $200 \times (B-C)/(B+C)$

Matrix Spike Recovery [G] = $100 \times (B-A)/[D]$

M.S.D. = Matrix Spike Duplicate

M.S.D. Recovery [H] = $100 \times (C-A)/[D]$

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

SW- 846 5030/8020 RTX

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]	[G]	[H]	[I] Blank Spike Recovery Range %	[J] Qualifier
							QC	QC	QC		
							Spike Relative Difference %	Blank Spike Recovery %	B.S.D. Recovery %		
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	85-135	
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)

$$\text{Blank Spike Recovery [G]} = 100 \cdot (\text{B-A}) / [\text{D}]$$

B.S.D. = Blank Spike Duplicate

B.S.D. Recovery $[H] = 100 \cdot (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Houston - Dallas - San Antonio

Edward H. Yonemoto, Ph.D.
Technical Director

Certificate Of Quality Control for Batch : 18A25A25

SW- 346 5030/3020 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		[G] QC	[H] QC		[I] Blank Spike Recovery Range %	[J] Qualifier
							Spike Relative Difference %			Blank Spike Recovery %	B.S.D. Recovery %		
Benzene	< 0.0010	0.1110	0.1070	0.1000	0.0010	20.0	3.7		110.3	106.3	106.3	65-135	
Toluene	< 0.0010	0.1070	0.1030	0.1000	0.0010	20.0	3.8		106.9	102.9	102.9	65-135	
Ethylbenzene	< 0.0010	0.1120	0.1080	0.1000	0.0010	20.0	3.6		111.9	107.9	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	114.9	65-135	
o-Xylene	< 0.0010	0.1110	0.1060	0.1000	0.0010	20.0	4.6		110.9	105.9	105.9	65-135	

Spike Relative Difference [F] = $200 \cdot (B-C) / (B+C)$
Blank Spike Recovery [G] = $100 \cdot (B-A) / [D]$
B.S.D. = Blank Spike Duplicate
B.S.D. Recovery [H] = $100 \cdot (C-A) / [D]$
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



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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Lab. Batch # 186255-88

[illegible]

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

*** Pre-scheduling is recommended**

Precision Analytical Services

[illegible]

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

*** Pre-scheduling is recommended**

Precision Analytical Services

[illegible]

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

• Pre-scheduling is recommended

Precision Analytical Services

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 4
Report # 9812071015

Date: 12/07/98

ANALYTICAL REPORT

To: KEI
Attn: Paul Hartnett
5309 Wurzbach, Suite 100
San Antonio, TX 78238

210-680-3767

Purchase Order #

Below are the results for VOCs.

(MDL=Method detection limit)

Sample I.D. AA99640

Sample Description: Well 11A-PW1

Sample collection date: 11/18/98

Sample collection time: 09:45

Submittal date: 11/19/98

Submittal time: 10:48

WSS# 93213

Request ID No. U044503

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	13.9	ug/L	0.5	11/19/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
n-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
sec-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC

Sample I.D. AA99640

Sample Description: Well 11A-PW1

Sample collection date: 11/18/98

Sample collection time: 09:45

Submittal date: 11/19/98

Submittal time: 10:48

WSS# 93213

Request ID No. U044503

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 524.2	1.6	ug/L	0.5	11/19/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Isopropylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
4-Isopropyltoluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Naphthalene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Propylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Toluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	0.5	ug/L	0.5	11/19/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Xylenes	EPA 524.2	1.8	ug/L	0.5	11/19/98	MAC

Sample I.D. AA99641

Sample Description: Well 11B-PW2

Sample collection date: 11/18/98

Sample collection time: 10:05

Submittal date: 11/19/98

Submittal time: 10:48

WSS# 93213

Request ID No. U044504

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	110	ug/L	0.5	11/19/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC

Sample I.D. AA99641

Sample Description: Well 11B-PW2

Sample collection date: 11/18/98

Sample collection time: 10:05

Submittal date: 11/19/98

Submittal time: 10:48

WSS# 93213

Request ID No. U044504

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
n-Butylbenzene	EPA 524.2	1.1	ug/L	0.5	11/19/98	MAC
sec-Butylbenzene	EPA 524.2	0.6	ug/L	0.5	11/19/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Ethylbenzene	EPA 524.2	39.4	ug/L	0.5	11/19/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Isopropylbenzene	EPA 524.2	2.4	ug/L	0.5	11/19/98	MAC
4-Isopropyltoluene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Naphthalene	EPA 524.2	2.0	ug/L	0.5	11/19/98	MAC
Propylbenzene	EPA 524.2	2.4	ug/L	0.5	11/19/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Toluene	EPA 524.2	9.6	ug/L	0.5	11/19/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	7.2	ug/L	0.5	11/19/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	1.5	ug/L	0.5	11/19/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	11/19/98	MAC
Xylenes	EPA 524.2	46.3	ug/L	0.5	11/19/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,



Andrew Lee Bristol
Laboratory Manager
(505) 646-4422

Las Cruces, NM 88003 Telephone: (505) 648-4422

2 User Code #: 64000		3 Request ID No.: U044503-C		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
8 State: NM		9 Sample Location: WELL 11A - PW1		ID# 31	
10 Collected By: Bobby Blackwood		On: 98/11/18		At: 10191415	
11 Codes: 088 932-13 WSO535		Date: (YYMMDD)		Time: 24 hr. Clock	
13 Report Name: Paul Hartnett		14 Phone #: 210-880-3767		12 Latitude (DDMMSS)	
Address: RFI		5309 Wurzbach, Suite 100		Longitude (DDMMSS)	
City, State Zip: San Antonio, Texas 78238		15 Sample Purpose		Sampling Information	
		☒ Compliance		☒ Grab	
		☐ NAMED Monitoring		☐ Composite	
		☐ Confirmation		☐ Chain of Custody	
		☐ Special			
16 Field Data: pH: Conductivity: uncalibrated @ Temperature: C.		Chlorine Residual: mg/l			
17 Sample Source: ☐ Entry Point to Distribution ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other:		18 Field Remarks: SAMPLE TAKEN FROM 1/4"		SAMPLE PORT AT WELL HEAD	
19 Sample Type: ☒ Water ☐ Unpreserved		20 Preservation: ☐ NP		No Preservative: Sample stored at room temperature	
This form accompanies a single sample consisting of:		☒ F-ice		Sample stored in an ice bath (Not Frozen)	
2 septum vial(s) volume = 40 ml ea.		☒ F-TS		Sample Preserved with Sodium Thiosulfate to remove chlorine residual	
glass bottle(s) volume = 120 ml ea.		☒ F-HCl		Sample Preserved with Hydrochloric Acid (2 drops/40ml)	
		☐ F-HgCl2		Sample Preserved with 25mg/l Mercuric Chloride	
		Other			

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Alcohols Headspace (Qualitative Screen)
- ☐ Aromatics & Halogenated Compounds (EPA 801/2)
- ☐ Mass Spectrometer Parameters (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 801.1)
- ☒ SDWA VOCs I [21 REGULATED 4] (EPA 802.2)
- ☐ SDWA VOCs II [EDS & DBCP] (EPA 804)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds of Interest:

- ☐ 1
- ☐ 2

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
- ☐ Herbicides: Phenoxy (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCBs) in Oil
- ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

PD # 610099-1-0

2 User Code #: 64000		3 Request ID No.: U044504-C		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
8 State: NM		9 Sample Location: WELL 11B - PW2		10 ID# 32	
11 Collected By: Bobby Blackwood		12 Date: 11/18/98		13 At: 11:06:15	
14 First: Bobby		15 Last: Blackwood		16 Phone: 396-3341	
17 Codes: 068 932-13 WS0535		18 Submitter: WBS #		19 Organization: WS0535	
20 Report Name: Paul Hartnett		21 Phone #: 210-680-3767		22 Latitude (DDMMSS):	
23 Address: KEI		24 City, State, Zip: San Antonio, Texas 78238		25 Longitude (DDMMSS):	
26 Field Data: pH: Conductivity: umhos/cm @ Temperature: C.		27 Chlorine Residual: mg/l		28 Sample Purpose: Compliance ☒ NMED Monitoring ☐ Confirmation ☐ Social ☐	
29 Sampling Information: Grab ☒ Composite ☐ Chain of Custody ☐		30 Sample Source: ☐ Entry Point to Distribution ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other: ☐		31 Field Remarks: SAMPLE TAKEN FROM 1/4" SAMPLE PORT AT WELLHEAD	
32 Sample Type: ☒ Water ☐ Unfiltered ☐ Chlorinated		33 Preservation: ☐ NP ☒ P-10 ☐ P-15 ☐ P-10 ☐ P-15 ☐ P-10 ☐ P-15 ☐ P-10 ☐ P-15		34 No Preservation: Sample stored at room temperature	
35 This form accompanies a sample consisting of: 2 septum vial(s) volume = 40 mL		36 glass jug(s) volume = 40 mL		37 Sample stored in an ice bath (Not Frozen)	
38 Sample Preserved with Sodium Thiosulfate to remove chlorine residual		39 Sample Preserved with Hydrochloric Acid (2 drops/40mL)		40 Sample Preserved with 20mg/L Mercuric Chloride	

21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Hydrocarbons (Qualitative Screen)
- ☐ Aromatic & Halogenated Hydrocarbons (EPA 801/2)
- ☐ Mass Spectrometry (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 801.1)
- ☒ SWDA VOCs (21 REGULATED) (EPA 802.2)
- ☐ SWDA VOCs (ETES & DSCP) (EPA 804)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds of Classes:

- ☐ ()
- ☐ ()

Semi-volatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
- ☐ Base/Neutral/Acid Extractables (EPA 827)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
- ☐ Fertilizers: Triazines (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCBs) in Oil
- ☐ SWDA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

DO# 610099-1-0

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

610099
Page 1 of 4
Report #9811101047

Date: 11/10/98

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. AA98600

Sample Description: Well 11B - PW2 ID#32

Sample collection date: 10/29/98

Sample collection time: 14:10

Submittal date: 10/30/98

Submittal time: 11:06

WSS# 93213

Request ID No. U044501

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	124	ug/L	0.5	11/05/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
n-Butylbenzene	EPA 524.2	1.6	ug/L	0.5	11/05/98	MAC
sec-Butylbenzene	EPA 524.2	0.8	ug/L	0.5	11/05/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC

Sample I.D. AA98600

Sample Description: Well 11B - PW2 ID#32

Sample collection date: 10/29/98

Sample collection time: 14:10

Submittal date: 10/30/98

Submittal time: 11:06

WSS# 93213

Request ID No. U044501

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 524.2	51	ug/L	0.5	11/05/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Isopropylbenzene	EPA 524.2	3.4	ug/L	0.5	11/05/98	MAC
4-Isopropyltoluene	EPA 524.2	0.9	ug/L	0.5	11/05/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Naphthalene	EPA 524.2	2.9	ug/L	0.5	11/05/98	MAC
Propylbenzene	EPA 524.2	3.4	ug/L	0.5	11/05/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Toluene	EPA 524.2	26	ug/L	0.5	11/05/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	9.6	ug/L	0.5	11/05/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	1.8	ug/L	0.5	11/05/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Xylenes	EPA 524.2	64.6	ug/L	0.5	11/05/98	MAC

Sample I.D. AA98601

Sample Description: Well 11A - PW1 ID#31

Sample collection date: 10/29/98

Sample collection time: 14:25

Submittal date: 10/30/98

Submittal time: 11:06

WSS# 93213

Request ID No. U044502

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	9.2	ug/L	0.5	11/05/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC

Sample I.D. AA98601

Sample Description: Well 11A - PW1 ID#31

Sample collection date: 10/29/98

Sample collection time: 14:25

Submittal date: 10/30/98

Submittal time: 11:06

WSS# 93213

Request ID No. U044502

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
n-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
sec-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Ethylbenzene	EPA 524.2	1.1	ug/L	0.5	11/05/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Isopropylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
4-Isopropyltoluene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Naphthalene	EPA 524.2	0.5	ug/L	0.5	11/05/98	MAC
Propylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Toluene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	11/05/98	MAC
Xylenes	EPA 524.2	1.0	ug/L	0.5	11/05/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,



Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Date

Received:

2 User Code #: 64000		3 Request ID No.: U044502-C		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
8 State: NM					
9 Sample Location: WELL 11A - PW1		ID# 31			
10 Collected By: Bobby Blackwood		On: 98-11-12		At: 1141215	
First Last		Phone: 306-3341		Data: (YYMMDD) Time: 24 hr. Clock	
11 Codes: 068 932-13 WS0535		12 Latitude (DDMMSS)			
Submitter WSS # Organization		Longitude (DDMMSS)			
13 Report Name: Paul Hartnett		14 Phone #: 210-680-3767			
Address: KEI		15 Sample Purpose		Sampling Information	
5309 Wurzbach, Suite 100		☒ Compliance		☒ Grab	
City, State Zip: San Antonio, Texas 78238		☐ NMED Monitoring		☐ Composite	
		☐ Confirmation		☐ Chain of Custody	
		☐ Special			
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: Chlorine Residual: mg/l					
17 Sample Source:		18 Field Remarks:			
☐ Entry Point to Distribution		SAMPLE TAKEN FROM 1/4"			
☒ Well Depth:		SAMPLE PORT AT WELLHEAD			
☐ Spring					
☐ Distribution					
☐ Other:					
19 Sample Type: ☒ Water ☐ Unchlorinated ☐ Chlorinated		20 Preservation:			
form accompanies a single sample consisting of:		☐ NP No Preservation: Sample stored at room temperature			
2 septum vial(s) volume = 40 ml ea.		☒ P-ice Sample stored in an ice bath (Not Frozen)			
glass jug(s) volume = ml ea.		☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual			
volume =		☒ P-HCl Sample Preserved with Hydrochloric Acid (24 drops/40ml)			
		☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride			
		☐ Other			

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
- ☐ Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ Mass Spectrometer Purgeables (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 501.1)
- ☒ SDWA VOC's I [21 REGULATED +] (EPA 502.2)
- ☐ SDWA VOC's II [EDS & DBCP] (EPA 504)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds of Classes:

- ☐ ()
- ☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 625)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
- ☐ Herbicides: Triazine (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCB's) in Oil
- ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: P.O. # 610099-1-0

User Code #:	64000	3 Request ID No.:	U044501-C	4 Priority Code:	3		
Facility Name:	SPS-Cunningham	6 County:	Lea	7 City:	Hobbs	8 State:	NM
Sample Location:	WELL 11B - PW2	ID#	32				

Collected By: Bobby Blackwood
First Last Phone: 396-3341
Cn: 92 / 10 / 29
Alt: 1141116
Date: (YY/MM/DD) Time: 24 hr. Clock

Codes: 068 932-13 WS0535
Submitter WSS # Organization
12 Latitude (DDMMSS)
Longitude (DDMMSS)

Report Name: Paul Hartnett
To: Paul Hartnett
14 Phone #: 210-680-3767

15 Sample Purpose Sampling Information
☒ Compliance ☒ Grab
☐ NMED Monitoring ☐ Composite
☐ Confirmation ☐ Chain of Custody
☐ Special
Name: KEI
Address: 5309 Wurzbach, Suite 100
City/State/Zip: San Antonio, Texas 78238

Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l

Sample Source:
☐ Entry Point to Distribution
☒ Well: Depth:
☐ Spring
☐ Distribution
☐ Other:
18 Field Remarks: SAMPLE TAKEN FROM 1/4" SAMPLE PORT AT WELLHEAD

Sample TV: ☒ Water ☐ Unchlorinated ☐ Chlorinated
This accompanies a single sample consisting of:
2. septum vial(s) volume = 40 ml ea.
glass jug(s) volume = ml ea.
20 Preservation:
☐ NP No Preservation; Sample stored at room temperature
☒ P-10 Sample stored in an ice bath (Not Frozen)
☒ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml)
☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride
☐ Other

Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
- ☐ Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ Mass Spectrometer Purgeables (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 501.1)
- ☒ SDWA VOCs I (21 REGULATED) (EPA 502.2)
- ☐ SDWA VOCs II (EDB & DBCP) (EPA 504)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds of Classes:

- ☐ ()
- ☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 625)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
- ☐ Herbicides: Triazines (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCB's) in Oil
- ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks: P.O. # 610009-1-0

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 4
Report #9810121534

Date: 10/12/98

ANALYTICAL REPORT

To: KEI

210-680-3767

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. AA97249

Sample Description: Well 11B - PW2 ID#32

Sample collection date: 09/24/98

Sample collection time: 14:30

Submittal date: 09/25/98

Submittal time: 11:51

WSS# 93213

Request ID No. U041940

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	139	ug/L	0.5	10/07/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
n-Butylbenzene	EPA 524.2	0.6	ug/L	0.5	10/07/98	MAC
sec-Butylbenzene	EPA 524.2	0.7	ug/L	0.5	10/07/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC

Sample I.D. AA97249

Sample Description: Well 11B - PW2 ID#32

Sample collection date: 09/24/98

Sample collection time: 14:30

Submittal date: 09/25/98

Submittal time: 11:51

WSS# 93213

Request ID No. U041940

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 524.2	47.6	ug/L	0.5	10/07/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Isopropylbenzene	EPA 524.2	2.9	ug/L	0.5	10/07/98	MAC
4-Isopropyltoluene	EPA 524.2	0.6	ug/L	0.5	10/07/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Naphthalene	EPA 524.2	2.4	ug/L	0.5	10/07/98	MAC
Propylbenzene	EPA 524.2	3.0	ug/L	0.5	10/07/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Toluene	EPA 524.2	25.7	ug/L	0.5	10/07/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	7.8	ug/L	0.5	10/07/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	1.6	ug/L	0.5	10/07/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Xylenes	EPA 524.2	50.4	ug/L	0.5	10/07/98	MAC

Sample I.D. AA97250

Sample Description: Well 11A - PW1 ID#31

Sample collection date: 09/24/98

Sample collection time: 14:40

Submittal date: 09/25/98

Submittal time: 11:51

WSS# 93213

Request ID No. U041938

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	5.2	ug/L	0.5	10/07/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC

Sample I.D. AA97250

Sample Description: Well 11A - PW1 ID#31

Sample collection date: 09/24/98

Sample collection time: 14:40

Submittal date: 09/25/98

Submittal time: 11:51

WSS# 93213

Request ID No. U041938

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
n-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
sec-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Ethylbenzene	EPA 524.2	0.7	ug/L	0.5	10/07/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Isopropylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
4-Isopropyltoluene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Naphthalene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Propylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Toluene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	10/07/98	MAC
Xylenes	EPA 524.2	0.9	ug/L	0.5	10/07/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,



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

Page 1 of 2
Report # 9810121041

Date: 10/12/98

ANALYTICAL REPORT

To: KEI

210-680-3767

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. AA97251

Sample Description: Treatment Skin ID#33

Sample collection date: 09/24/98

Sample collection time: 14:50

Submittal date: 09/25/98

Submittal time: 11:51

WSS# 93213

Request ID No. U041939

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Bromobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Bromochloromethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Bromodichloromethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Bromoform	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Bromomethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
n-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
sec-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
tert-Butylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Carbon tetrachloride	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Chlorobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Chloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Chloroform	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Chloromethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
2-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
4-Chlorotoluene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Dibromochloromethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2-Dibromo-3-chloropropane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2-Dibromoethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Dibromomethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,3-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,4-Dichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Dichlorodifluoromethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2-Dichloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
cis-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
trans-1,2-Dichloroethene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,3-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
2,2-Dichloropropane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
cis-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
trans-1,3-Dichloropropene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC

Sample I.D. AA97251

Sample Description: Treatment Skin ID#33

Sample collection date: 09/24/98

Sample collection time: 14:50

Submittal date: 09/25/98

Submittal time: 11:51

WSS# 93213

Request ID No. U041939

Collector: B BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Hexachlorobutadiene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Isopropylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
4-Isopropyltoluene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Methylene chloride	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Naphthalene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Propylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Styrene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1,1,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1,2,2-Tetrachloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Tetrachloroethene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Toluene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2,3-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2,4-Trichlorobenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1,1-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,1,2-Trichloroethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Trichloroethene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Trichlorofluoromethane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2,3-Trichloropropane	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,2,4-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
1,3,5-Trimethylbenzene	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Vinyl chloride	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC
Xylenes	EPA 524.2	Not detected	ug/L	0.5	09/30/98	MAC

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Please advise should you have questions concerning these data.

Respectfully submitted,



Andrew Lee Bristol

Laboratory Manager

(505) 646-4422

Las Cruces, NM 88003 Telephone: (505) 645-1423

2 User Code #: 64000		3 Request ID No.: U041938-C		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
8 State: NM		9 Sample Location: WELL 11A - PWI		10 ID# 31	
11 Collected By: Bobby Blackwood		12 Date: 09/09/98		13 Time: 11:41 AM	
14 First: Bobby		15 Last: Blackwood		16 Phone: 396-3341	
17 Codes: 088 932-13 WS0535		18 Latitude (DDMMSS):		19 Longitude (DDMMSS):	
20 Report Name: Paul Hartnett		21 Phone #: 210-680-3767		22 Sample Purpose: Compliance	
23 Address: KEI		24 City, State, Zip: San Antonio, Texas 78238		25 Sampling Information: Grab	
26 Field Data: pH: Conductivity: unboiled @ Temperature: C. Chlorine Residual: mg/l		27 Sample Source: ☐ Entry Point to Distribution ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other:		28 Field Remarks: SAMPLE TAKEN FROM 1/4"	
29 Sample Type: ☒ Water ☐ Unfiltered ☐ Chlorinated		30 Preservation: ☐ NP ☒ P-10 ☒ P-TS ☒ P-HCI ☒ P-HgCl2 ☐ Other		31 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.	

32 Volatile Screens:		33 Semivolatile Screens:	
☐ Alkylate Hydrocarbons (Qualitative Screen)		☐ Gas Chromatograph/Mass Spectrometry (EPA 821)	
☐ Aromatic & Halogenated Hydrocarbons (EPA 801/2)		☐ Base Neutral/Acid Extractables (EPA 8270)	
☐ Mass Spectrometer Parameters (EPA 824)		☐ Chlorinated Pesticides (EPA 831.1)	
☐ SWDA Total Trihalomethanes (EPA 801.1)		☐ Herbicides: Glyphosate (EPA 815.1)	
☒ SDWA VOCs (21 REGULATED) (EPA 802.2)		☐ Herbicides: Fluroxypyr (EPA 807)	
☐ SDWA VOCs (14 REGULATED) (EPA 804)		☐ Hydrocarbon Fuel Screen (EPA 8015)	
☐ Composite Sample for Analysis No. _____		☐ Organochlorine Pesticides (EPA 805)	
Other Specific Compounds or Classes:		☐ Organophosphate Pesticides (EPA 807)	
☐ _____		☐ Polychlorinated Biphenyls (PCBs) in Oil	
☐ _____		☐ SDWA Synthetic Org. Compds. (EPA 815.1/805)	
☐ _____		☐ Total Petroleum Hydrocarbons (EPA 418.1)	

Remarks:

2 User Code #: 64000		3 Request ID No.: U041940-C		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
8 State: NM		9 Sample Location: WELL 11B - PW2		10 ID# 32	
11 Collected By: Bobby Blackwood		12 Date: 9/28/98		13 At: 11/14/13 10	
14 First: Last: Phone: 396-3341		15 Date (YYMMDD)		16 Time: 24 hr. Clock	
17 Codes: 068 932-13 W90535		18 Submitter: WBS #		19 Organization	
20 Report Name: Paul Hartnett		21 Phone #: 210-680-3767		22 Latitude (DDMMSS)	
23 Address: KEI		24 5309 Wurzbach, Suite 100		25 Longitude (DDMMSS)	
26 City, State Zip: San Antonio, Texas 78238		27 Sample Purpose		28 Sampling Information	
29 16 Field Data: pH: Conductivity: un/ohm/cm @ Temperature: Chlorine Residual: mg/l		30 ☒ Compliance ☒ Grab		31 ☐ NMED Monitoring ☐ Composite	
32 ☐ Confirmation ☐ Chain of Custody		33 ☐ Social		34	
35 17 Sample Source: ☐ Easy Point to Distribute ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other		36 18 Field Remarks: SAMPLE TAKEN FROM 1/4" SAMPLE PORT AT WELLHEAD		37	
38 19 Sample Type: ☒ Water ☐ Unfiltered ☐ Chlorinated		39 20 Preservation: ☐ NP No Preservation; Sample stored at room temperature ☒ Pice Sample stored in an ice bath (Not Frozen) ☐ P-TB Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☐ P-HCl Sample Preserved with Hydrochloric Acid (2drops/60ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other		40	

21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Hydrocarbons (Qualitative Screen)
☐ Aromatic & Halogenated Hydrocarbons (EPA 801.2)
☐ Mass Spectrometer Parameters (EPA 824)
☐ SWDA Total Trihalomethanes (EPA 801.1)
☒ SDWA VOCs (EPA 801.2) (REGULATED) (EPA 802.2)
☐ SDWA VOCs (EPA 801.2) (EPA 804)
☐ Composite Sample for Analysis No.

Other Specific Compounds of Classes:

- ☐ ()
☐ ()

Semi-volatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
☐ Base/Neutral/Acid Extractables (EPA 8270)
☐ Carbamate Pesticides (EPA 531.1)
☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
☐ Herbicides: Triazines (EPA 507)
☐ Hydrocarbon Fuel Screen (EPA 14-8015)
☐ Organochlorine Pesticides (EPA 505)
☐ Organophosphate Pesticides (EPA 507)
☐ Polychlorinated Biphenyls (PCBs) in Oil
☐ SDWA Synthetic Org. Grpds. (EPA 515.1/505)
☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

1 User Code #: 64000		3 Request ID No.:		4 Priority Code: 2	
5 Facility Name: SPS-Cunningham		6 City: Lea		7 City: Hobbs	
8 State: NI					
9 Sample Location: Treatment Skid ID# 33					
10 Collected By: Bobby Blackwood On: 9/24/98 At: 1141516					
11 Contact: 068 932-13 WS0535 Date: (YYMMDD) Time: 11:41:51 AM					
12 Latitude (DDMMSS):					
13 Report Name: Paul Hartnett 14 Phone #: 210-680-3767					
15 Sample Purpose: Compliance Grab					
16 Field Data: pH: Conductivity: umho/cm @ Temperature: C, Residual: mg					
17 Sample Source: ☐ Entry Point to Distribution ☐ Well Depth: ☐ Spring ☐ Distribution ☒ Other: Treatment Skid					
18 Field Remarks: SAMPLE TAKEN FROM EFFLUENT SAMPLE PORT AT TREATMENT SKID.					
19 Sample Type: ☒ Water ☐ Unfiltered ☐ Filtered					
20 Preservation: ☐ None ☒ P-10 ☐ P-15 ☐ P-40 ☐ P-40C2 ☐ Other					
21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required.					
Volatiles Screens: ☐ Aromatic Hydrocarbons (Qualitative Screen) ☐ Aromatic & Halogenated Purgeables (EPA 801.2) ☐ Mass Spectrometric Purgeables (EPA 824) ☒ SWCA Total Trihalomethanes (EPA 801.1) ☐ SDWA VOCs (21 REGULATED) (EPA 802.2) ☐ SDWA VOCs (17 DBP) (EPA 804) ☐ Composite Sample for Analysis No.					
Other Specific Compounds of Concern: ☐ (C) ☐ (P)					
Semi-volatile Screens: ☐ Base Neutral Extractables (EPA 825) ☐ Base Neutral Acid Extractables (EPA 827) ☐ Carbamate Pesticides (EPA 831.1) ☐ Herbicides, Chlorophenyl Acid (EPA 515.1) ☐ Herbicides, Thiocarb (EPA 807) ☐ Hydrocarbon Fuel Screen (EPA 8015) ☐ Organochlorine Pesticides (EPA 805) ☐ Organophosphate Pesticides (EPA 507) ☐ Polychlorinated Biphenyls (PCBs) in Oil ☐ SDWA Synthetic Org. Chpts. (EPA 515.1/505) ☐ Total Petroleum Hydrocarbons (EPA 418.1)					

Remarks:

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 4
Report # 980901K45

Date: 09/01/98

ANALYTICAL REPORT

To: K.E.I. CONSULTANTS
ATTN: PAUL HARTNETT
5309 WURZBACH, SUITE 100
SAN ANTONIO, TX 78238

210-680-3767

Purchase Order #

Below are the results for VOCs.

(MDL=Method detection limit)

Sample I.D. AA95901

Sample Description: WELL 11A-PW-1 ID#31

Sample collection date: 08/13/98

Sample collection time: 12:30

Submittal date: 08/14/98

Submittal time: 14:26

WSS# 93213

Request ID No. U041936

Collector: STANLEY GRO

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	08/25/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC

Sample I.D. AA95901

Sample Description: WELL 11A-PW-1 ID#31
Sample collection date: 08/13/98 Sample collection time: 12:30
Submittal date: 08/14/98 Submittal time: 14:26
WSS# 93213 Request ID No. U041936 Collector: STANLEY GRO
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	08/25/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC

Sample I.D. AA95902

Sample Description: WELL 11B-PW-2 ID#32
Sample collection date: 08/13/98 Sample collection time: 12:35
Submittal date: 08/14/98 Submittal time: 14:26
WSS# 93213 Request ID No. U041937 Collector: STANLEY GRO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	107	ug/L	0.5	08/25/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC

Sample I.D. AA95902

Sample Description: WELL 11B-PW-2 ID#32

Sample collection date: 08/13/98

Sample collection time: 12:35

Submittal date: 08/14/98

Submittal time: 14:26

WSS# 93213

Request ID No. U041937

Collector: STANLEY GRO

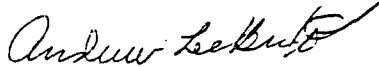
Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
n-Butylbenzene	EPA 502.2	1.0	ug/L	0.5	08/25/98	MAC
sec-Butylbenzene	EPA 502.2	1.0	ug/L	0.5	08/25/98	MAC
tert-Butylbenzene	EPA 502.2	1.2	ug/L	0.5	08/25/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Ethylbenzene	EPA 502.2	29	ug/L	0.5	08/25/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Isopropylbenzene	EPA 502.2	4.5	ug/L	0.5	08/25/98	MAC
4-Isopropyltoluene	EPA 502.2	0.9	ug/L	0.5	08/25/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Naphthalene	EPA 502.2	4.2	ug/L	0.5	08/25/98	MAC
Propylbenzene	EPA 502.2	4.8	ug/L	0.5	08/25/98	MAC
Styrene	EPA 502.2	2.1	ug/L	0.5	08/25/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Toluene	EPA 502.2	18.6	ug/L	0.5	08/25/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	12.5	ug/L	0.5	08/25/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	2.5	ug/L	0.5	08/25/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	08/25/98	MAC
Xylenes	EPA 502.2	54.9	ug/L	0.5	08/25/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,



Andrew Lee Bristol
Laboratory Manager
(505)646-4422

Lab No. _____

Date
Received:

2) User Code #: 64000		3) Request ID No.: U041936-C		4) Priority Code: 3	
5) Facility Name: SPS-11 Cunningham		6) County: Lee		7) City: Hobbs	
8) State: NM					
9) Sample Location: Well 11A - PW-1		ID# 31			
10) Collected By: Stanley Grover		390-9767		Date (YYYYMMDD): 9/13/13	
First Last Phone				Time: 11:23:10	
11) Codes: 068 932-13 WSO572		Subscriber Well # Organization		12) Latitude (DDMMSS)	
13) Report Name: Paul Hartnett		14) Phone #: 210-680-3767		Longitude (DDMMSS)	
Address: K.E.I. Consultants				15) Sample Purpose	
5309 Wurzbach, Ste 100				Sampling Information	
City, State Zip: San Antonio, TX 78238				☒ Compliance ☒ Grab ☐ NEMD Monitoring ☐ Composite ☐ Confirmation ☐ Chain of Custody ☐ Special	
16) Field Data: pH: Conductivity: umhos/cm Temperature: C		Chlorine Residual: mg/l			
17) Sample Source:		18) Field Remarks:			
☐ Entry Point to Distribution ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other:		Sample taken from sample port located at well head			
19) Sample Type: ☒ Water ☐ Unfiltered		20) Preservation:			
This form accompanies a chain custody consisting of 2 - carbon copies, 1 - original, 1 - glass copy		☐ NP No Preservation: Sample stored at room temperature ☒ P-Ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (200ppm) ☐ P-MgCl2 Sample Preserved with 200ppm Magnesium Chloride ☐ Other			
21) Analytical Requirements:					
Volatiles Screening: ☐ Alpha Hexachlorocyclopentadiene (EPA 821) ☐ Aroclor & Halogenated Compounds (EPA 821) ☐ Mass Spectrometer Fingerprint (EPA 821) ☐ SWDA Total Trihalomethanes (EPA 821) ☒ SWDA VOCs (21 REGULATED) (EPA 821) ☐ SWDA VOCs 6 (EDS & DBP) (EPA 821) ☐ Composite Sample for Analysis No.					
Other Specific Contaminants of Concern:					
☐ () ☐ ()					

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

NMSU - SWAT LABORATORY
Gerard Thomas Hall Room 200, Box 30003
Las Cruces, NM 88003 Telephone: (505) 648-4422

Lab No.

Date Received:

U041937-C

2 User Code #: <u>64000</u>		3 Request ID No.: <u>U041937-C</u>		4 Priority Code: <u>3</u>	
5 Facility Name: <u>SPS-11 - Cunningham</u>		6 County: <u>Lee</u>		7 City: <u>Hobbs</u>	
8 State: <u>NM</u>		9 Sample Location: <u>Well 11B - PW-2</u>		10 ID# <u>32</u>	
11 Collected By: <u>Stanley Grover</u>		12 Phone: <u>390-9767</u>		13 Date (YYMMDD): <u>9/28/13</u>	
14 Time: <u>11:23:15</u>		15 Latitude (DDMMSS): <u>32-13-06.8</u>		16 Longitude (DDMMSS): <u>106-57-21.3</u>	
17 Report Name: <u>Paul Hartnett</u>		18 Phone #: <u>210-680-3767</u>		19 Sample Purpose: ☒ Compliance ☒ Grab	
20 Address: <u>K.E.I. Consultants</u>		21 City, State Zip: <u>San Antonio, TX 78238</u>		22 Sampling Information: ☐ NMED Monitoring ☐ Composite	
23 Field Data: pH: <u> </u> Conductivity: <u> </u> umhos/cm @ <u> </u> Temperature: <u> </u> C. Residual: <u> </u> mg/l		24 Sample Source: ☐ Every Point in Distribution ☒ Well Depth: <u> </u> ☐ Spring ☐ Distribution ☐ Other: <u> </u>		25 Field Remarks: <u>Sample gathered from sample port located on well head</u>	
26 Sample Type: ☒ Water ☐ Other: <u> </u>		27 Preservation: ☐ NP No Preservation; Sample stored at room temperature ☒ P-ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other: <u> </u>		28 Analyte Requested: ☐ Alpha Hexachlorocyclopentadiene (EPA 821) ☐ Acute & Metabolized Organophosphates (EPA 821) ☐ Mass Spectrometer Parameters (EPA 821) ☐ SWDA Total Trihalomethanes (EPA 821.1) ☒ SWDA VOCs (EPA 821.1) ☐ SWDA VOCs (EPA 821.1) ☐ Composite Sample for Analysis No. ☐ Other Specific Compounds of Interest: <u> </u>	
29 Remarks: <u> </u>		30		31	

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 4
Report # 9808191030

Date: 08/19/98

ANALYTICAL REPORT

To: KEI CONSULTANTS
ATTN: PUAL HARTNETT
5309 WURZBACH, STE 100
SAN ANTONIO, TX 78238

(210) 680-3767

Purchase Order #

Below are the results for VOCs.

(MDL=Method detection limit)

Sample I.D. AA95390

Sample Description: WELL 11A-PW1 ID #31

Sample collection date: 07/27/98

Sample collection time: 08:45

Submittal date: 07/28/98

Submittal time: 14:03

WSS# 93213

Request ID No. U041934

Collector: STANLEY GRO

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	15.8	ug/L	0.5	08/05/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC

Sample I.D. AA95390

Sample Description: WELL 11A-PW1 ID #31
Sample collection date: 07/27/98 Sample collection time: 08:45
Submittal date: 07/28/98 Submittal time: 14:03
WSS# 93213 Request ID No. U041934 Collector: STANLEY GRO
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	2.1	ug/L	0.5	08/05/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Naphthalene	EPA 502.2	0.5	ug/L	0.5	08/05/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Toluene	EPA 502.2	0.6	ug/L	0.5	08/05/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Xylenes	EPA 502.2	2.3	ug/L	0.5	08/05/98	MAC

Sample I.D. AA95391

Sample Description: WELL 11B-PW2 ID #32

Sample collection date: 07/27/98

Sample collection time: 08:30

Submittal date: 07/28/98

Submittal time: 14:03

WSS# 93213

Request ID No. U041935

Collector: STANLEY GRO

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	137	ug/L	0.5	08/05/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
n-Butylbenzene	EPA 502.2	0.6	ug/L	0.5	08/05/98	MAC
sec-Butylbenzene	EPA 502.2	0.7	ug/L	0.5	08/05/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Ethylbenzene	EPA 502.2	44.1	ug/L	0.5	08/05/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Isopropylbenzene	EPA 502.2	2.8	ug/L	0.5	08/05/98	MAC
4-Isopropyltoluene	EPA 502.2	0.6	ug/L	0.5	08/05/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Naphthalene	EPA 502.2	2.5	ug/L	0.5	08/05/98	MAC
Propylbenzene	EPA 502.2	3.1	ug/L	0.5	08/05/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Toluene	EPA 502.2	16.9	ug/L	0.5	08/05/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC

Sample I.D. AA95391

Sample Description: WELL 11B-PW2 ID #32
Sample collection date: 07/27/98 Sample collection time: 08:30
Submittal date: 07/28/98 Submittal time: 14:03
WSS# 93213 Request ID No. U041935 Collector: STANLEY GRO
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	08/05/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	8.5	ug/L	0.5	08/05/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	1.6	ug/L	0.5	08/05/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	08/05/98	MAC
Xylenes	EPA 502.2	57.2	ug/L	0.5	08/05/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,

Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505) 646-4422

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ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

NMSU - SWAT LABORATORY
Gerald Thomas Hall Room 269, Box 30003
Las Cruces, NM 88003 Telephone: (505) 646-4422

Lab No.

Date

Received:

1. User Code #: 64000	3. Request ID No.: U041934-C	4. Priority Code: 3
5. Facility Name: SPS - Cunningham	6. County: Lea	7. City: Lordsburg
8. State: NM		
9. Sample Location: Well 11A - 2W-1	ID# 31	
10. Collected By: Stanley Grover	390-9767	On: 98/07/27 At: 0181415
First Last Phone:	Date (YY/MM/DD)	Time: 24 Hr. Clock
11. Codes: 068 932-13 W50572	12. Latitude (DDMMSS)	Longitude (DDMMSS)
Submitter WSS # Organization		
13. Report Name: To: Paul Hornett	14. Phone #: 210-680-3767	
Address: K.E.I. Consultants		
5309 Wurzbach, Ste 100		
City, State Zip: San Antonio, TX 78238		
15. Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l		
17. Sample Source: ☐ Entry Point to Distribution ☒ Well: Depth: _____ ☐ Spring ☐ Distribution ☐ Other: _____	18. Field Remarks: Sample taken from sample port located at well head.	
19. Sample Type: ☒ Water ☐ Unchlorinated ☐ Chlorinated	20. Preservation: ☐ NP No Preservation; Sample stored at room temperature ☒ P-ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other	
This form accompanies a sample consisting of: 2 septum vial(s) volume = 40 ml glass jug(s) volume = _____		

21. Analyses Requested: Please check the appropriate box(es) below to indicate the type of analysis screen(s) required. Whenever possible, list specific compounds suspected or required, and check below whenever highly contaminated samples are suspected.

Volatiles Screens:

- ☐ Aliphatic Hydrocarbons (Qualitative Screen)
- ☐ Aromatic & Halogenated Purgeables (EPA 801/2)
- ☐ Mass Spectrometer Purgeables (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 501.1)
- ☒ SDWA VOC's I (21 REGULATED +) (EPA 502.2)
- ☐ SDWA VOC's II (EDB & DBCP) (EPA 504)
- ☐ Composite Sample for Analysis No. _____

Other Specific Compounds or Classes:

- ☐ () _____
- ☐ () _____

Semivolatiles Screens:

- ☐ Base/Neutral Extractables (EPA 825)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 831.1)
- ☐ Herbicides: Chlorthaloximic Acid (EPA 515.1)
- ☐ Herbicides: Thiocarbonyl (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCB's) in Oil
- ☐ SDWA Synthetic Org. Compounds (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

ORGANIC CHEMISTRY ANALYTICAL REQUEST FORM

NMSU - SWAT LABORATORY
Gerald Thomas Hall Room 259, Box 30003
Las Cruces, NM 88003 Telephone: (505) 646-4422

Lab No.

Date Received:

User Code #: 64000

3 Request ID No.:

U041935-C

4 Priority Code:

3

5 Facility Name:

SPS-II - Cunningham

6 County:

hea

7 City:

Hobbs

8 State:

NM

9 Sample Location:

Well 11B - pw2

ID# 32

10 Collected By:

Stanley Grover

390-9767

On:

9/8/97/27

At:

0181310

First

Last

Phone:

Date (YY/MM/DD)

Time: 24 hr. Local

3pm = 1500 hrs

11 Codes:

068

932-13

WCS0572

Submitter

WSS #

Organization

12 Latitude (DDMMSS)

Longitude (DDMMSS)

13 Report Name:

To: Paul Hartnett

14 Phone #:

Address:

Kei Consultants

5309 Wurzbach, Ste. 100

City, State Zip

San Antonio, TX 78238

16 Field Data:

pH:

Conductivity:

umhos/cm @

Temperature:

Chlorine Residual:

mg/l

17 Sample Source:

- ☐ Entry Point to Distribution
☐ Well Depth:
☐ Spring
☐ Distribution
☐ Other:

18 Field Remarks:

Sample taken from sample port
located on well head.

Sample Type:

☒ Water☐ Unchlorinated
☐ Chlorinated

This form accompanies a sample consisting of:

2 septum vial(s) volume = 40 ml

-class jug(s) volume = 200 ml

volume =

20 Preservation:

- ☐ NP
☒ P-ice
☐ P-TS
☒ P-HCl
☐ P-HgCl2
☐ Other

No Preservation: Sample stored at room temperature

Sample stored in an ice bath (Not Frozen)

Sample Preserved with Sodium Thiosulfate to remove chlorine residual

Sample Preserved with Hydrochloric Acid (2 drops/40ml)

Sample Preserved with 20mg/l Mercuric Chloride

21 Analytes Requested:

Please check the appropriate box(es) below to indicate the type of analysis screen(s) required.
Whenever possible, list specific compounds suspected or required, and indicate whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Hydrocarbons (Qualitative Screen)
☐ Aromatic & Halogenated Purgeables (EPA 801/2)
☐ Mass Spectrometer Purgeables (EPA 624)
☐ SWDA Total Trihalomethanes (EPA 501.1)
☒ SDWA VOCs I (21 REGULATED) (EPA 502.2)
☐ SDWA VOCs II (EDB & DBCP) (EPA 504)
☐ Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ ()
☐ ()

Semi-volatile Screens:

- ☐ Base/Neutral Extractables (EPA 625)
☒ Base/Neutral/Acid Extractables (EPA 6270)
☐ Carbamate Pesticides (EPA 631.1)
☐ Herbicides: Chlorthalonyl Acid (EPA 515.1)
☐ Herbicides: Isoproturon (EPA 607)
☐ Hydrocarbon Fuel Screen (EPA M-3015)
☐ Organochlorine Pesticides (EPA 505)
☐ Organophosphate Pesticides (EPA 507)
☐ Polychlorinated Biphenyls (PCBs) in Oil
☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

Date: 06/15/98

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. AA94253

Sample Description: WELL 11B-PW2 ID #32

Sample collection date: 06/04/98

Sample collection time: 13:30

Submittal date: 06/05/98

Submittal time: 13:23

WSS# 93213

Request ID No. U041933

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	243	ug/L	0.5	06/05/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
sec-Butylbenzene	EPA 502.2	0.77	ug/L	0.5	06/05/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC

Sample I.D. AA94253

Sample Description: WELL 11B-PW2 ID #32

Sample collection date: 06/04/98

Sample collection time: 13:30

Submittal date: 06/05/98

Submittal time: 13:23

WSS# 93213

Request ID No. U041933

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Ethylbenzene	EPA 502.2	58.5	ug/L	0.5	06/05/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Isopropylbenzene	EPA 502.2	2.42	ug/L	0.5	06/05/98	MAC
4-Isopropyltoluene	EPA 502.2	0.67	ug/L	0.5	06/05/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Naphthalene	EPA 502.2	1.69	ug/L	0.5	06/05/98	MAC
Propylbenzene	EPA 502.2	1.35	ug/L	0.5	06/05/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Toluene	EPA 502.2	39.9	ug/L	0.5	06/05/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	7.74	ug/L	0.5	06/05/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	1.22	ug/L	0.5	06/05/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Xylenes	EPA 502.2	63.6	ug/L	0.5	06/05/98	MAC

Sample I.D. AA94254

Sample Description: WELL 11A-PW1 ID #31

Sample collection date: 06/04/98

Sample collection time: 13:25

Submittal date: 06/05/98

Submittal time: 13:23

WSS# 93213

Request ID No. U041932

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	06/05/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC

Sample I.D. AA94254

Sample Description: WELL 11A-PW1 ID #31
Sample collection date: 06/04/98 Sample collection time: 13:25
Submittal date: 06/05/98 Submittal time: 13:23
WSS# 93213 Request ID No. U041932 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	06/05/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	06/05/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	06/05/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,



Andrew Lee Bristol
Laboratory Manager
(505) 646-4422

9806151255

2 User Code #: 64000		3 Request ID No.: U041933-C		Received:	
5 Facility Name: SPS-Cunningham		6 County: Lea		4 Priority Code: 3	
Sample Location: WELL 11B - PW2		ID# 32		7 City: Hobbs	
8 State: NM					
10 Collected By: Bobby Blackwood		On: 08/06/04		At: 11:33:10	
First Last Phone: 396-3341		Date: (YY/MM/DD)		Time: 24 hr. Clock	
11 Codes: 068 932-13 WS0535		12 Latitude (DDMMSS)			
Submitter WGS # Organization		Longitude (DDMMSS)			
13 Report Name: Paul Hartnett		14 Phone #: 210-680-3767			
Address: KEI					
5309 Wurzbach, Suite 100					
City, State Zip: San Antonio, Texas 78238					
15 Sample Purpose		Sampling Information			
☒ Compliance		☒ Grab			
☐ NMED Monitoring		☐ Composite			
☐ Confirmation		☐ Chain of Custody			
☐ Special					
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l					
17 Sample Source:		18 Field Remarks:			
☐ Entry Point to Distribution		Sample taken from sample port			
☒ Well Depth:		on well head			
☐ Spring					
☐ Distribution					
☐ Other:					
19 Sample Type: ☒ Water ☐ Unchlorinated ☐ Chlorinated		20 Preservation:			
This form accompanies a single sample consisting of:		☐ NP No Preservator: Sample stored at room temperature			
2 - septum vial(s) volume = 40 ml ea.		☒ P-Ice Sample stored in an ice bath (Not Frozen)			
- glass jug(s) volume = ml ea.		☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residu			
volume = ml ea.		☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml)			
		☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride			
		☐ Other			
21 Analytes Requested:		Please check the appropriate box(es) below to indicate the type of analytical screen(s) required.			
		Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.			
Volatile Screens:		Semi-volatile Screens:			
☐ Aliphatic Headspace (Qualitative Screen)		☐ Base/Neutral Extractables (EPA 625)			
☐ Aromatic & Halogenated Purgeables (EPA 801/2)		☐ Base/Neutral/Acid Extractables (EPA 8270)			
☐ Mass Spectrometer Purgeables (EPA 624)		☐ Carbamate Pesticides (EPA 531.1)			
☐ SWDA Total Trihalomethanes (EPA 501.1)		☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)			
☒ SDWA VOC's I (21 REGULATED +) (EPA 502.2)		☐ Herbicides: Triazine (EPA 507)			
☐ SDWA VOC's II (EDS & DBCP) (EPA 504)		☐ Hydrocarbon Fuel Screen (EPA M-8015)			
☐ Composite Sample for Analysis No.		☐ Organochlorine Pesticides (EPA 505)			
Other Specific Compounds or Classes:		☐ Organophosphate Pesticides (EPA 507)			
☐ ()		☐ Polychlorinated Biphenyls (PCB's) in Oil			
☐ ()		☐ SDWA Synthetic Org. Compds. (EPA 516.1/505)			
		☐ Total Petroleum Hydrocarbons (EPA 418.1)			
Remarks:					

SWAT 0001-OR

Please RETAIN A COPY of your form

Date
Received:

U041932-C

2 User Code #: 64000		3 Request ID No.:		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham			6 County: Lea		7 City: Hobbs
8 State: N					
9 Sample Location: WELL 11A - PW1 ID# 31					
10 Collected By: Bobby Blackwood On: 98/06/04 AC: 1113121					
First Last Phone: 396-3341 Date: (YY/MM/DD) Time: 24 hr. Clock					
11 Codes: 068 932-13 WS0535			12 Latitude (DDMMSS)		
Submitter WSS # Organization			Longitude (DDMMSS)		
13 Report Name: Paul Hartnett			14 Phone #: 210-680-3767		
Address: REI			15 Sample Purpose		
5309 Wurzbach, Suite 100			☒ Compliance ☒ Grab		
City, State Zip: San Antonio, Texas 78238			☐ NMED Monitoring ☐ Composite		
			☐ Confirmation ☐ Chain of Custody		
			☐ Special		
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: Chlorine Residual: mg/l					
17 Sample Sources:			18 Field Remarks:		
☐ Entry Point to Distribution			Sample taken from sample port		
☒ Well, Depth:			on well head		
☐ Spring					
☐ Distribution					
☐ Other:					
19 Sample Type: ☒ Water ☐ Unchlorinated Chlorinated			20 Preservation:		
This form accompanies a single sample consisting of:			☐ NP No Preservation; Sample stored at room temperature		
2 - septum vial(s) volume = 40 ml ea.			☒ P-ice Sample stored in an ice bath (Not Frozen)		
-glass jug(s) volume = ml ea.			☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine resid		
			☒ P-HCl Sample Preserved with Hydrochloric Acid (2drops/40ml)		
			☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride		
			☐ Other		

21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:	Semivolatile Screens:
☐ Aliphatic Hydrocarbons (Qualitative Screen)	☐ Base/Neutral Extractables (EPA 825)
☐ Aromatic & Halogenated Purgeables (EPA 801/2)	☐ Base/Neutral/Acid Extractables (EPA 8270)
☐ Mass Spectrometer Purgeables (EPA 824)	☐ Carbamate Pesticides (EPA 531.1)
☐ SWDA Total Trihalomethanes (EPA 501.1)	☐ Herbicides; Chlorophenoxy Acid (EPA 515.1)
☒ SDWA VOC's I [21 REGULATED +] (EPA 502.2)	☐ Herbicides; Triazine (EPA 507)
☐ SDWA VOC's II [EDS & DBCP] (EPA 504)	☐ Hydrocarbon Fuel Screen (EPA M-8015)
☐ Composite Sample for Analysis No.	☐ Organochlorine Pesticides (EPA 505)
Other Specific Compounds of Classes:	☐ Organophosphate Pesticides (EPA 507)
☐ ()	☐ Polychlorinated Biphenyls (PCB's) in Oil
☐ ()	☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
	☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

SWAT 0001-OR

Please RETAIN A COPY of your form

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 3
Report # 9805131016

Date: 05/15/98

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. AA93545

Sample Description: Well #11B-PW2 ID #32

Sample collection date: 05/05/98

Sample collection time: 08:35

Submittal date: 05/06/98

Submittal time: 10:47

WSS# 93213

Request ID No. U041931

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	146	ug/L	0.5	05/12/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
sec-Butylbenzene	EPA 502.2	0.8	ug/L	0.5	05/12/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC

Sample I.D. AA93545

Sample Description: Well #11B-PW2 ID #32

Sample collection date: 05/05/98

Sample collection time: 08:35

Submittal date: 05/06/98

Submittal time: 10:47

WSS# 93213 Request ID No. U041931

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	05/12/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Ethylbenzene	EPA 502.2	41.9	ug/L	0.5	05/12/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Isopropylbenzene	EPA 502.2	2.9	ug/L	0.5	05/12/98	MAC
4-Isopropyltoluene	EPA 502.2	0.5	ug/L	0.5	05/12/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Naphthalene	EPA 502.2	2.1	ug/L	0.5	05/12/98	MAC
Propylbenzene	EPA 502.2	1.6	ug/L	0.5	05/12/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Toluene	EPA 502.2	19.7	ug/L	0.5	05/12/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	6.3	ug/L	0.5	05/12/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	1.0	ug/L	0.5	05/12/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	05/12/98	MAC
Xylenes	EPA 502.2	48.5	ug/L	0.5	05/12/98	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 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 an asterisk.

Please advise should you have questions concerning these data.
Respectfully submitted,



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

Page 1 of 4
Report # 9808130946

Date: 05/13/98

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. AA93543

Sample Description: Treatment Skid ID #33

Sample collection date: 05/05/98

Sample collection time: 08:20

Submittal date: 05/06/98

Submittal time: 10:47

WSS# 93213

Request ID No. U041929

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	05/08/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC

Sample I.D. AA93543

Sample Description: Treatment Skid ID #33

Sample collection date: 05/05/98

Sample collection time: 08:20

Submittal date: 05/06/98

Submittal time: 10:47

WSS# 93213

Request ID No. U041929

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	05/08/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC

Sample I.D. AA93544

Sample Description: Well #11A-PW1 ID #31

Sample collection date: 05/05/98

Sample collection time: 08:45

Submittal date: 05/06/98

Submittal time: 10:47

WSS# 93213

Request ID No. U041930

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	15.4	ug/L	0.5	05/08/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Ethylbenzene	EPA 502.2	1.4	ug/L	0.5	05/08/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC

Sample I.D. AA93544

Sample Description: Well #11A-PW1 ID #31

Sample collection date: 05/05/98

Sample collection time: 08:45

Submittal date: 05/06/98

Submittal time: 10:47

WSS# 93213

Request ID No. U041930

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	05/08/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	05/08/98	MAC
Xylenes	EPA 502.2	13	ug/L	0.5	05/08/98	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 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 an asterisk.

Please advise should you have questions concerning these data.

Respectfully submitted,



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

Page 1 of 5
Report #9804240904

Date: 04/24/98

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. AA92888

Sample Description: Treatment Skid Id #33

Sample collection date: 04/13/98

Sample collection time: 11:45

Submittal date: 04/14/98

Submittal time: 11:21

WSS# 93213

Request ID No. U041926

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	04/14/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC

Sample I.D. AA92888

Sample Description: Treatment Skid Id #33

Sample collection date: 04/13/98

Sample collection time: 11:45

Submittal date: 04/14/98

Submittal time: 11:21

WSS# 93213

Request ID No. U041926

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	04/14/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC

Sample I.D. AA92889

Sample Description: Well 11B-PW2 ID #32

Sample collection date: 04/13/98

Sample collection time: 11:30

Submittal date: 04/14/98

Submittal time: 11:21

WSS# 93213

Request ID No. U041927

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	160	ug/L	0.5	04/14/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
n-Butylbenzene	EPA 502.2	2.8	ug/L	0.5	04/14/98	MAC
sec-Butylbenzene	EPA 502.2	0.8	ug/L	0.5	04/14/98	MAC
tert-Butylbenzene	EPA 502.2	7.2	ug/L	0.5	04/14/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Ethylbenzene	EPA 502.2	40.9	ug/L	0.5	04/14/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Isopropylbenzene	EPA 502.2	2.6	ug/L	0.5	04/14/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Naphthalene	EPA 502.2	1.3	ug/L	0.5	04/14/98	MAC
Propylbenzene	EPA 502.2	1.3	ug/L	0.5	04/14/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Toluene	EPA 502.2	21.3	ug/L	0.5	04/14/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC

Sample I.D. AA92889

Sample Description: Well 11B-PW2 ID #32

Sample collection date: 04/13/98

Sample collection time: 11:30

Submittal date: 04/14/98

Submittal time: 11:21

WSS# 93213

Request ID No. U041927

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	04/14/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	1.0	ug/L	0.5	04/14/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Xylenes	EPA 502.2	53.5	ug/L	0.5	04/14/98	MAC

Sample I.D. AA92890

Sample Description: Well 11B-PW1 ID #31

Sample collection date: 04/13/98

Sample collection time: 11:55

Submittal date: 04/14/98

Submittal time: 11:21

WSS# 93213

Request ID No. U041928

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	16.9	ug/L	0.5	04/14/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC

Sample I.D. AA92890

Sample Description: Well 11B-PW1 ID #31

Sample collection date: 04/13/98

Sample collection time: 11:55

Submittal date: 04/14/98

Submittal time: 11:21

WSS# 93213

Request ID No. U041928

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	04/14/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Ethylbenzene	EPA 502.2	1.6	ug/L	0.5	04/14/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/14/98	MAC
Xylenes	EPA 502.2	1.4	ug/L	0.5	04/14/98	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 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 an asterisk.

Please advise should you have questions concerning these data.

Respectfully submitted,



Andrew Lee Bristol

Laboratory Manager

(505) 646-4422

NMSU - SWAT LABORATORY
Gerald Thomas Hall Room 269, Box 30003
Las Cruces, NM 88003 Telephone: (505) 646-4422

Lab No. Date Received:

U041928-C

2 User Code #: 64000		3 Request ID No.: U041928-C		4 Priority Code: 2	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
				8 State: NM	
9 Sample Location: WELL 11A - PW1 ID# 31					
10 Collected By: Bobby Blackwood On: 98/04/13 At: 11/15/98					
11 Codes: 068 932-13 WS0535		12 Latitude (DDMMSS)			
Submitter WSS # Organization		Longitude (DDMMSS)			
13 Report Name: Paul Hartnett		14 Phone #: 210-680-3767		15 Sample Purpose	
Address: KEI				Sampling Information	
5309 Wurzbach, Suite 100				☒ Compliance ☒ Grab	
City, State Zip: San Antonio, Texas 78238				☐ NMED Monitoring ☐ Composite	
				☐ Confirmation ☐ Chain of Custody	
				☐ Special	
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l					
17 Sample Source: ☐ Entry Point to Distribution ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other:					
18 Field Remarks: SAMPLE TAKEN FROM SAMPLE PER ON WELL HEAD.					
19 Sample Type: ☒ Water ☐ Unchlorinated ☐ Chlorinated					
20 Preservation: ☐ NP No Preservation: Sample stored at room temperature ☒ P-ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2drops/40ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other					

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
- ☐ Aromatic & Halogenated Purgeables (EPA 601/2)
- ☐ Mass Spectrometer Purgeables (EPA 624)
- ☐ SWDA Total Trihalomethanes (EPA 501.1)
- ☒ SDWA VOCs I (21 REGULATED +) (EPA 502.2)
- ☐ SDWA VOCs II (EDS & DBCP) (EPA 504)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds of Classes:

- ☐ ()
- ☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 625)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
- ☐ Herbicides: Triazine (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCB's) in Oil
- ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

NMSU - SWAT LABORATORY
Gerald Thomas Hall Room 269, Box 30003
Las Cruces, NM 88003 Telephone: (505) 646-4422

Lab No.

Date Received:

U041927-C

2 User Code #: 64000		3 Request ID No.:		4 Priority Code:	
5 Facility Name: SPS-Cunningham		6 County: Lea		7 City: Hobbs	
8 State: NM					
9 Sample Location: WELL 11B - PW2 ID# 32					
10 Collected By: Bobby Blackwood On: 98/04/13 At: 11/13 10					
First Last		Phone: 396-3341		Date: (YY/MM/DD) Time: 24 hr. Clock	
11 Codes: 068 Submitter		932-13 WSS #		WS0535 Organization	
13 Report To: Paul Hartnett		14 Phone #: 210-680-3767		12 Latitude (DDMMSS)	
Address: KEI				Longitude (DDMMSS)	
5309 Wurzbach, Suite 100				15 Sample Purpose Sampling Information	
City, State Zip: San Antonio, Texas 78238				☒ Compliance ☒ Grab ☐ NMED Monitoring ☐ Composite ☐ Confirmation ☐ Chain of Custody ☐ Special	
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l					
17 Sample Source:					
☐ Entry Point to Distribution ☒ Well Depth: _____ ☐ Spring ☐ Distribution ☐ Other: _____					
18 Field Remarks:					
19 Sample Type: ☒ Water ☐ Unchlorinated ☐ Chlorinated					
This form accompanies a single sample consisting of: 2 septum vial(s) volume = 40 ml ea. glass jug(s) volume = _____ ml ea. volume = _____					
20 Preservation:					
☐ NP No Preservation: Sample stored at room temperature ☒ P-Ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other					

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
☐ Aromatic & Halogenated Purgeables (EPA 601/2)
☐ Mass Spectrometer Purgeables (EPA 624)
☐ SWDA Total Trihalomethanes (EPA 501.1)
☒ SOWA VOC's I [21 REGULATED +] (EPA 502.2)
☐ SDWA VOC's II (EDB & DBCP) (EPA 504)
☐ Composite Sample for Analysis No. _____

Other Specific Compounds of Classes:

- ☐ () _____
☐ () _____

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 625)
☐ Base/Neutral/Acid Extractables (EPA 8270)
☐ Carbamate Pesticides (EPA 531.1)
☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
☐ Herbicides: Triazine (EPA 507)
☐ Hydrocarbon Fuel Screen (EPA M-8015)
☐ Organochlorine Pesticides (EPA 505)
☐ Organophosphate Pesticides (EPA 507)
☐ Polychlorinated Biphenyls (PCB's) in Oil
☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

SWAT 0001-OR

Please RETAIN A COPY of your form

Date: 04/09/98

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. AA92361

Sample Description: Treatment Skid ID #33

Sample collection date: 03/23/98

Sample collection time: 12:20

Submittal date: 03/24/98

Submittal time: 11:06

WSS# 93213

Request ID No. U041923

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	04/04/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC

Sample I.D. AA92361

Sample Description: Treatment Skid ID #33

Sample collection date: 03/23/98 Sample collection time: 12:20

Submittal date: 03/24/98 Submittal time: 11:06

WSS# 93213 Request ID No. U041923 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	04/04/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC

Sample I.D. AA92362

Sample Description: Well 11A-PW1 ID #31

Sample collection date: 03/23/98

Sample collection time: 12:40

Submittal date: 03/24/98

Submittal time: 11:06

WSS# 93213

Request ID No. U041924

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	16.0	ug/L	0.5	04/04/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Ethylbenzene	EPA 502.2	1.7	ug/L	0.5	04/04/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC

Sample I.D. AA92362

Sample Description: Well 11A-PW1 ID #31
Sample collection date: 03/23/98 Sample collection time: 12:40
Submittal date: 03/24/98 Submittal time: 11:06
WSS# 93213 Request ID No. U041924 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	04/04/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Xylenes	EPA 502.2	1.1	ug/L	0.5	04/04/98	MAC

Sample I.D. AA92363

Sample Description: Well 11B-PW2 ID #32
Sample collection date: 03/23/98 Sample collection time: 12:30
Submittal date: 03/24/98 Submittal time: 11:06
WSS# 93213 Request ID No. U041925 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	131	ug/L	0.5	04/04/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
n-Butylbenzene	EPA 502.2	2.0	ug/L	0.5	04/04/98	MAC
sec-Butylbenzene	EPA 502.2	0.6	ug/L	0.5	04/04/98	MAC
tert-Butylbenzene	EPA 502.2	3.3	ug/L	0.5	04/04/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC

Sample I.D. AA92363

Sample Description: Well 11B-PW2 ID #32

Sample collection date: 03/23/98

Sample collection time: 12:30

Submittal date: 03/24/98

Submittal time: 11:06

WSS# 93213

Request ID No. U041925

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	04/04/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Ethylbenzene	EPA 502.2	36.0	ug/L	0.5	04/04/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Isopropylbenzene	EPA 502.2	2.3	ug/L	0.5	04/04/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Naphthalene	EPA 502.2	1.2	ug/L	0.5	04/04/98	MAC
Propylbenzene	EPA 502.2	1.1	ug/L	0.5	04/04/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Toluene	EPA 502.2	14.8	ug/L	0.5	04/04/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	5.3	ug/L	0.5	04/04/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	0.8	ug/L	0.5	04/04/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	04/04/98	MAC
Xylenes	EPA 502.2	44.2	ug/L	0.5	04/04/98	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 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 an asterisk.

Please advise should you have questions concerning these data.

Respectfully submitted,



Andrew Lee Bristol
Laboratory Manager
(505) 646-4422

U041923-C

2 User Code #: 64000	3 Request ID No.:	4 Priority Code: 2		
5 Facility Name: SPS-Cunningham	6 Country: Lea	7 City: Hobbs		
8 State: NA				
9 Sample Location: Treatment Skid ID# 33				
10 Collected By: Bobby Blackwood	On: 98/03/23	At: 1/12/21		
First Last Phone: 396-3341	Date: (YYMMDD)	Time: 2:00 PM		
11 Codes: 088 932-13 WS0535	12 Latitude (DDMMSS)			
Submitter WSS # Organization	Longitude (DDMMSS)			
13 Report Name: To: Paul Hartnett	14 Phone #: 210-680-3767	15 Sample Purpose Sampling Information		
Address: REI		☒ Compliance ☒ Grab		
5309 Wurzbach, Suite 100		☐ NMED Monitoring ☐ Composite		
City, State Zip: San Antonio, Texas 78238		☐ Confirmation ☐ Chain of Custody		
		☐ Special		
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l				
17 Sample Source: ☐ Bore Point to Distribution ☐ Well Depth: ☐ Spring ☐ Distribution ☒ Other: Treatment Skid	18 Field Remarks: Sampled from effluent sample port on Treatment Skid.			
19 Sample Type: ☒ Water ☐ Unchlorinated Chlorinated	20 Preservation: ☐ NP No Preservation; Sample stored at room temperature ☒ P-100 Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine resid ☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other			
21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.				
<table border="0"> <tr> <td> Volatile Screens: ☐ Aliphatic Headspace (Qualitative Screen) ☐ Aromatic & Halogenated Purgeables (EPA 801/2) ☐ Mass Spectrometer Purgeables (EPA 824) ☐ SWDA Total Trihalomethanes (EPA 501.1) ☒ SDWA VOCs I (21 REGULATED +) (EPA 502.2) ☐ SDWA VOCs II (EDS & DBCP) (EPA 504) ☐ Composite Sample for Analysis No. </td> <td> Semivolatile Screens: ☐ Base/Neutral Extractables (EPA 825) ☐ Base/Neutral/Acid Extractables (EPA 8270) ☐ Carbamate Pesticides (EPA 531.1) ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1) ☐ Herbicides: Triazine (EPA 507) ☐ Hydrocarbon Fuel Screen (EPA M-8015) ☐ Organochlorine Pesticides (EPA 505) ☐ Organophosphate Pesticides (EPA 507) ☐ Polychlorinated Biphenyls (PCBs) in Oil ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505) ☐ Total Petroleum Hydrocarbons (EPA 418.1) </td> </tr> </table>			Volatile Screens: ☐ Aliphatic Headspace (Qualitative Screen) ☐ Aromatic & Halogenated Purgeables (EPA 801/2) ☐ Mass Spectrometer Purgeables (EPA 824) ☐ SWDA Total Trihalomethanes (EPA 501.1) ☒ SDWA VOCs I (21 REGULATED +) (EPA 502.2) ☐ SDWA VOCs II (EDS & DBCP) (EPA 504) ☐ Composite Sample for Analysis No.	Semivolatile Screens: ☐ Base/Neutral Extractables (EPA 825) ☐ Base/Neutral/Acid Extractables (EPA 8270) ☐ Carbamate Pesticides (EPA 531.1) ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1) ☐ Herbicides: Triazine (EPA 507) ☐ Hydrocarbon Fuel Screen (EPA M-8015) ☐ Organochlorine Pesticides (EPA 505) ☐ Organophosphate Pesticides (EPA 507) ☐ Polychlorinated Biphenyls (PCBs) in Oil ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505) ☐ Total Petroleum Hydrocarbons (EPA 418.1)
Volatile Screens: ☐ Aliphatic Headspace (Qualitative Screen) ☐ Aromatic & Halogenated Purgeables (EPA 801/2) ☐ Mass Spectrometer Purgeables (EPA 824) ☐ SWDA Total Trihalomethanes (EPA 501.1) ☒ SDWA VOCs I (21 REGULATED +) (EPA 502.2) ☐ SDWA VOCs II (EDS & DBCP) (EPA 504) ☐ Composite Sample for Analysis No.	Semivolatile Screens: ☐ Base/Neutral Extractables (EPA 825) ☐ Base/Neutral/Acid Extractables (EPA 8270) ☐ Carbamate Pesticides (EPA 531.1) ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1) ☐ Herbicides: Triazine (EPA 507) ☐ Hydrocarbon Fuel Screen (EPA M-8015) ☐ Organochlorine Pesticides (EPA 505) ☐ Organophosphate Pesticides (EPA 507) ☐ Polychlorinated Biphenyls (PCBs) in Oil ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505) ☐ Total Petroleum Hydrocarbons (EPA 418.1)			
Other Specific Compounds or Classes: ☐ () ☐ ()				
Remarks:				

SWAT 0001-CR

Please RETAIN A COPY of your form

NMSU - SWAT LABORATORY
Gerald Thomas Hall Room 268, Box 30003
Las Cruces, NM 88003 Telephone: (505) 646-4422

Date
Received:

Lab Code #: 64000

3 Request
ID No.:

U041924-C

4 Priority
Code: 2

Facility
Name: SPS-Cunningham

6 County: Lea

7 City: Hobbs

8 State: NM

Sample
Location: WELL 11A - PW1 ID# 31

Collected
by: Bobby Blackwood

On: 98/03/23

At: 1:12:410

First Last Phone: 396-3341

Date: (YY/MM/DD)

Time: 24 hr. Clock

Codes: 088 932-13 WS0535
Submitter WSS # Organization

12 Latitude (DDMMSS)

Longitude (DDMMSS)

Report Name: Paul Hartnett
14 Phone #: 210-680-3767

15 Sample Purpose Sampling Information

- ☒ Compliance ☒ Grab
☐ NMED Monitoring ☐ Composite
☐ Confirmation ☐ Chain of Custody
☐ Special

KEI
5309 Wurzbach, Suite 100
San Antonio, Texas 78238

Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l

Sample Source:

- ☐ Entry Point to Distribution
☒ Well Depth:
☐ Spring
☐ Distribution
☐ Other:

18 Field

Remarks: Sampled at 4 sample port on well head.

Sample Type: ☒ Water ☐ Unchlorinated Chlorinated
This form accompanies a single sample consisting of:
2 septum vial(s) volume = 40 ml ea.
glass jug(s) volume = ml ea.
volume =

20 Preservation:

- ☐ NP No Preservation; Sample stored at room temperature
☒ P-Ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml)
☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride
☐ Other

Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
☐ Aromatic & Halogenated Purgables (EPA 801.2)
☐ Mass Spectrometer Purgables (EPA 824)
☐ SWDA Total Trihalomethanes (EPA 501.1)
☒ SDWA VOC's I (21 REGULATED +) (EPA 502.2)
☐ SDWA VOC's II (EDS & DBCP) (EPA 504)
☐ Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ ()
☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
☐ Base/Neutral/Acid Extractables (EPA 8270)
☐ Carbamate Pesticides (EPA 831.1)
☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
☐ Herbicides: Triazine (EPA 507)
☐ Hydrocarbon Fuel Screen (EPA M-8015)
☐ Organochlorine Pesticides (EPA 505)
☐ Organophosphate Pesticides (EPA 507)
☐ Polychlorinated Biphenyls (PCB's) in Oil
☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

2 User Code #: 64000		3 Request ID No.: U041925-C		Received: 4 Priority Code: 2	
5 Facility Name: SPS-Cunningham			6 County: Lea		7 City: Hobbs
8 State: NM					
9 Sample Location: WELL 11B - PW2 ID# 32					
10 Collected By: Bobby Blackwood On: 9/03/23 At: 112131C First Last Phone: 396-3341 Date: (YY/MM/DD) Time: 24 hr. Clock 1-0 to 1-500 hrs					
11 Codes: 068 932-13 WS0535 Submitter WBS # Organization		12 Latitude (DDMMSS) Longitude (DDMMSS)			
13 Report Name: Paul Hartnett To: Paul Hartnett Address: KEI 5309 Wurzbach, Suite 100 City, State Zip: San Antonio, Texas 78238		14 Phone #: 210-680-3767			
15 Sample Purpose Sampling Information ☒ Compliance ☒ Grab ☐ NMED Monitoring ☐ Composite ☐ Confirmation ☐ Chain of Custody ☐ Special					
16 Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l					
17 Sample Source: ☐ Entry Point to Distribution ☒ Well Depth: ☐ Spring ☐ Distribution ☐ Other:			18 Field Remarks: Sampled from 4" sample port c/w well head.		
19 Sample Type: ☒ Water ☐ Unchlorinated ☐ Chlorinated This form accompanies a single sample consisting of: 2 -septum vial(s) volume = .40 ml ea. -glass jug(s) volume = ml ea. volume =			20 Preservation: ☐ NP No Preservation: Sample stored at room temperature ☒ P-ice Sample stored in an ice bath (Not Frozen) ☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual ☒ P-HCl Sample Preserved with Hydrochloric Acid (2drops/40ml) ☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride ☐ Other		

21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Hydrocarbons (Qualitative Screen)
☐ Aromatic & Halogenated Purgeables (EPA 801/2)
☐ Mass Spectrometer Purgeables (EPA 824)
☐ SWDA Total Trihalomethanes (EPA 501.1)
☒ SDWA VOC's I (21 REGULATED +) (EPA 502.2)
☐ SDWA VOC's II (EDB & DBCP) (EPA 504)
☐ Composite Sample for Analysis No.

Other Specific Compounds of Classes:

- ☐ ()
☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
☐ Base/Neutral/Acid Extractables (EPA 827D)
☐ Carbamate Pesticides (EPA 531.1)
☐ Herbicides, Chlorophenoxy Acid (EPA 515.1)
☐ Herbicides, Triazine (EPA 507)
☐ Hydrocarbon Fuel Screen (EPA M-8015)
☐ Organochlorine Pesticides (EPA 505)
☐ Organophosphate Pesticides (EPA 507)
☐ Polychlorinated Biphenyls (PCB's) in Oil
☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

Date: 02/25/98

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. AA91297

Sample Description: Treatment Skid Id #33

Sample collection date: 02/12/98

Sample collection time: 11:22

Submittal date: 02/13/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041960

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	02/17/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC

Sample I.D. AA91297

Sample Description: Treatment Skid Id #33

Sample collection date: 02/12/98

Sample collection time: 11:22

Submittal date: 02/13/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041960

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	02/17/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC

Sample I.D. AA91298

Sample Description: Well 11B-PW2 ID #32

Sample collection date: 02/12/98

Sample collection time: 11:29

Submittal date: 02/13/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041922

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	96.4	ug/L	0.5	02/17/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Ethylbenzene	EPA 502.2	25.3	ug/L	0.5	02/17/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Isopropylbenzene	EPA 502.2	2.0	ug/L	0.5	02/17/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Naphthalene	EPA 502.2	1.4	ug/L	0.5	02/17/98	MAC
Propylbenzene	EPA 502.2	0.9	ug/L	0.5	02/17/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Toluene	EPA 502.2	7.1	ug/L	0.5	02/17/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC

Sample I.D. AA91298

Sample Description: Well 11B-PW2 ID #32
Sample collection date: 02/12/98 Sample collection time: 11:29
Submittal date: 02/13/98 Submittal time: 09:44
WSS# 93213 Request ID No. U041922 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	02/17/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	5.2	ug/L	0.5	02/17/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	0.7	ug/L	0.5	02/17/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Xylenes	EPA 502.2	37.8	ug/L	0.5	02/17/98	MAC

Sample I.D. AA91299

Sample Description: Well 11A-PW1 ID #31
Sample collection date: 02/12/98 Sample collection time: 11:33
Submittal date: 02/13/98 Submittal time: 09:44
WSS# 93213 Request ID No. U041921 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	15.0	ug/L	0.5	02/17/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC

Sample I.D. AA91299

Sample Description: Well 11A-PW1 ID #31

Sample collection date: 02/12/98

Sample collection time: 11:33

Submittal date: 02/13/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041921

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	02/17/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Ethylbenzene	EPA 502.2	2.5	ug/L	0.5	02/17/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	02/17/98	MAC
Xylenes	EPA 502.2	1.0	ug/L	0.5	02/17/98	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 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 an asterisk.

Please advise should you have questions concerning these data.

Respectfully submitted,

Andrew Lee Bristol

Andrew Lee Bristol
Laboratory Manager
(505) 646-4422

98-1-1 638

2) User Code #: 64000 3) Request ID No.: U041960-C 4) Priority Code: 2

5) Facility Name: SPS-Cunningham 6) County: Lea 7) City: Hobbs 8) State: NM

9) Sample Location: Treatment Skid ID# 33

10) Collected By: Bobby Blackwood On: 02/12/12 At: 11/12/12
First Last Phone: 396-3341 Date: (YY/MM/DD) Time: 24 hr. Clock

11) Codes: 088 932-13 WS0535 12) Latitude (DDMMSS):
Submitter WSS # Organization Longitude (DDMMSS)

13) Report Name: Paul Hartnett 14) Phone #: 210-680-3767
Address: KEI
5309 Wurzbach, Suite 100
City, State Zip: San Antonio, Texas 78238

15) Sample Purpose Sampling Information
☒ Compliance ☒ Grab
☐ NMED Monitoring ☐ Composite
☐ Confirmation ☐ Chain of Custody
☐ Special

16) Field Data: pH: _____ Conductivity: _____ umhos/cm @ Temperature: _____ C. Chlorine Residual: _____ mg/l

17) Sample Source:
☐ Entry Point to Distribution
☐ Well, Depth: _____
☐ Spring
☐ Distribution
☒ Other: Treatment Skid

18) Field Remarks: Sampled from Effluent sample port on Treatment Skid.

19) Sample Type: ☒ Water ☐ Unchlorinated Chlorinated
This form accompanies a single sample consisting of:
2 septum vial(s) volume = 40 ml ea.
 glass jug(s) volume = _____ ml ea.
 volume = _____

20) Preservation:
☐ NP No Preservation: Sample stored at room temperature
☒ P-ice Sample stored in an ice bag (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☒ P-HCl Sample Preserved with Hydrochloric Acid (2drops/40ml)
☐ P-HgCl2 Sample Preserved with 20mg/l Mercury Chloride
☐ Other

21) Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
☐ Aromatic & Halogenated Purgeables (EPA 801/2)
☐ Mass Spectrometer Purgeables (EPA 824)
☐ SWDA Total Trihalomethanes (EPA 501.1)
☒ SDWA VOC's (21 REGULATED +) (EPA 502.2)
☐ SDWA VOC's II (EDS & DBCP) (EPA 504)
☐ Composite Sample for Analysis No. _____

Other Specific Compounds of Classes:

- ☐ () _____
☐ () _____

Semi-volatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
☐ Base/Neutral/Acid Extractables (EPA 8270)
☐ Carbamate Pesticides (EPA 831.1)
☐ Herbicides, Chlorophenoxy Acid (EPA 515.1)
☐ Herbicides, Triazine (EPA 507)
☐ Hydrocarbon Fuel Screen (EPA M-8015)
☐ Organochlorine Pesticides (EPA 505)
☐ Organophosphate Pesticides (EPA 507)
☐ Polychlorinated Biphenyls (PCB's) in Oil
☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

2 User Code #: 64000		3 Request ID No.: U041921-C		4 Priority Code: 3	
5 Facility Name: SPS-Cunningham			6 County: Lea		7 City: Hobbs
					8 State: NM
9 Sample Location: WELL 11A - PW1 ID# 31					
10 Collected By: Bobby Blackwood			On: 98 10/2/12		At: 11 11/3/13
First Last Phone: 396-3341			Date: (YY/MM/DD)		Time: 24 hr. Clock
11 Codes: 068 932-13 WS0535			12 Latitude (DDMMSS)		
Submitter WSS # Organization			Longitude (DDMMSS)		
13 Report Name: Paul Hartnett			14 Phone #: 210-680-3767		
Address: KEI			15 Sample Purpose Sampling Information		
5309 Wurzbach, Suite 100			☒ Compliance ☒ Grab		
City, State Zip San Antonio, Texas 78238			☐ NMED Monitoring ☐ Composite		
			☐ Confirmation ☐ Chain of Custody		
			☐ Special		
16 Field Data: pH: Conductivity: umhos/cm Temperature: C. Chlorine Residual: mg/l					
17 Sample Source:			18 Field Remarks:		
☐ Entry Point to Distribution			Sample taken from sample port		
☒ Well Depth:			on well head.		
☐ Spring					
☐ Distribution					
☐ Other:					
19 Sample Type: ☒ Water ☐ Unchlorinated Chlorinated			20 Preservation:		
This form accompanies a single sample consisting of:			☐ NP No Preservation: Sample stored at room temperature		
2 septum vial(s) volume = 40 ml ea.			☒ P-Ice Sample stored in an ice bath (Not Frozen)		
glass jug(s) volume = ml ea.			☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual		
volume = ml			☒ P-HCl Sample Preserved with Hydrochloric Acid (2drops/40ml)		
			☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride		
			☐ Other		

21 Analyses Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatiles Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
- ☐ Aromatic & Halogenated Purgeables (EPA 801/2)
- ☐ Mass Spectrometer Purgeables (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 501.1)
- ☒ SDWA VOC's I (21 REGULATED +) (EPA 502.2)
- ☐ SDWA VOC's II (EDB & DBCP) (EPA 504)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ ()
- ☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides: Chlorophenoxy Acid (EPA 515.1)
- ☐ Herbicides: Triazine (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCB's) in Oil
- ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

Las Cruces, NM 88003 Telephone: (505) 646-4422

U041922-C

Received:

Request Code #: 64000 3 Request ID No.: 4 Priority Code: 3

5 Facility Name: SPS-Cunningham 6 County: Lea 7 City: Hobbs 8 State: NM

9 Sample Location: WELL 11B - PW2 ID# 32

10 Collected By: Bobby Blackwood On: 1/02/12 AL: 1111219
First Last Phone: 396-3341 Date: (YY/MM/DD) Time: 24 or Clock

11 Codes: 068 932-13 WS0535
Submitter WSS # Organization

13 Report Name: Paul Hartnett 14 Phone #: 210-680-3767

Address: KEI
5309 Wurzbach, Suite 100
City, State Zip: San Antonio, Texas 78238

16 Field Data: pH: Conductivity: umhos/cm @ Temperature: C. Chlorine Residual: mg/l

17 Sample Source:
☐ Entry Point to Distribution
☒ Well Depth:
☐ Spring
☐ Distribution
☐ Other:
18 Field Remarks: Sample taken from sample port on well head.

19 Sample Type: ☒ Water ☐ Unchlorinated Chlorinated
This form accompanies a single sample consisting of:
2 septum vial(s) volume = 40 ml ea.
glass jug(s) volume = ml ea.
volumes =
20 Preservation:
☐ NP No Preservation: Sample stored at room temperature
☒ P-Ice Sample stored in an ice bath (Not Frozen)
☐ P-TS Sample Preserved with Sodium Thiosulfate to remove chlorine residual
☒ P-HCl Sample Preserved with Hydrochloric Acid (2 drops/40ml)
☐ P-HgCl2 Sample Preserved with 20mg/l Mercuric Chloride
☐ Other

21 Analytes Requested: Please check the appropriate box(es) below to indicate the type of analytical screen(s) required. Whenever possible, list specific compounds suspected or required, and note below whenever highly contaminated samples are suspected.

Volatile Screens:

- ☐ Aliphatic Headspace (Qualitative Screen)
- ☐ Aromatic & Halogenated Purgeables (EPA 801/2)
- ☐ Mass Spectrometer Purgeables (EPA 824)
- ☐ SWDA Total Trihalomethanes (EPA 501.1)
- ☒ SDWA VOC's I [21 REGULATED +] (EPA 502.2)
- ☐ SDWA VOC's II (EDB & DBCP) (EPA 504)
- ☐ Composite Sample for Analysis No.

Other Specific Compounds or Classes:

- ☐ ()
- ☐ ()

Semivolatile Screens:

- ☐ Base/Neutral Extractables (EPA 825)
- ☐ Base/Neutral/Acid Extractables (EPA 8270)
- ☐ Carbamate Pesticides (EPA 531.1)
- ☐ Herbicides, Chlorophenoxy Acid (EPA 515.1)
- ☐ Herbicides, Triazine (EPA 507)
- ☐ Hydrocarbon Fuel Screen (EPA M-8015)
- ☐ Organochlorine Pesticides (EPA 505)
- ☐ Organophosphate Pesticides (EPA 507)
- ☐ Polychlorinated Biphenyls (PCB's) in Oil
- ☐ SDWA Synthetic Org. Compds. (EPA 515.1/505)
- ☐ Total Petroleum Hydrocarbons (EPA 418.1)

Remarks:

Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 5
Report # 9801261000

Date: 01/26/98

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. AA90009

Sample Description: Treatment Skid ID #33

Sample collection date: 01/13/98

Sample collection time: 13:15

Submittal date: 01/15/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041957

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	01/20/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC

Sample I.D. AA90009

Sample Description: Treatment Skid ID #33

Sample collection date: 01/13/98

Sample collection time: 13:15

Submittal date: 01/15/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041957

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	01/20/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC

Sample I.D. AA90010

Sample Description: Well 11A-PW1 ID #31

Sample collection date: 01/13/98

Sample collection time: 13:25

Submittal date: 01/15/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041958

Collector: B. BLACKWOOD

Sample Purpose: Compliance

Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	32.8	ug/L	0.5	01/20/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Ethylbenzene	EPA 502.2	4.8	ug/L	0.5	01/20/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Isopropylbenzene	EPA 502.2	0.6	ug/L	0.5	01/20/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Naphthalene	EPA 502.2	0.5	ug/L	0.5	01/20/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Toluene	EPA 502.2	0.7	ug/L	0.5	01/20/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC

Sample I.D. AA90010

Sample Description: Well 11A-PW1 ID #31
Sample collection date: 01/13/98 Sample collection time: 13:25
Submittal date: 01/15/98 Submittal time: 09:44
WSS# 93213 Request ID No. U041958 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	01/20/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	0.8	ug/L	0.5	01/20/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Xylenes	EPA 502.2	2.5	ug/L	0.5	01/20/98	MAC

Sample I.D. AA90011

Sample Description: Well 11B-PW2 ID #32
Sample collection date: 01/13/98 Sample collection time: 13:40
Submittal date: 01/15/98 Submittal time: 09:44
WSS# 93213 Request ID No. U041959 Collector: B. BLACKWOOD
Sample Purpose: Compliance Sampling Information: Grab

Compound	Method	Result	Units	MDL	Date of Analysis	Analyst
Benzene	EPA 502.2	135	ug/L	0.5	01/20/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dibromoethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC

Sample I.D. AA90011

Sample Description: Well 11B-PW2 ID #32

Sample collection date: 01/13/98

Sample collection time: 13:40

Submittal date: 01/15/98

Submittal time: 09:44

WSS# 93213

Request ID No. U041959

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	01/20/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Ethylbenzene	EPA 502.2	33.5	ug/L	0.5	01/20/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Isopropylbenzene	EPA 502.2	2.0	ug/L	0.5	01/20/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Naphthalene	EPA 502.2	1.7	ug/L	0.5	01/20/98	MAC
Propylbenzene	EPA 502.2	1.0	ug/L	0.5	01/20/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Toluene	EPA 502.2	6.3	ug/L	0.5	01/20/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	5.5	ug/L	0.5	01/20/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	0.8	ug/L	0.5	01/20/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	01/20/98	MAC
Xylenes	EPA 502.2	40.3	ug/L	0.5	01/20/98	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 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 an asterisk.

Please advise should you have questions concerning these data.

Respectfully submitted,



Andrew Lee Bristol

Laboratory Manager

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Soil Water and Air Testing Lab
New Mexico State University
BOX 30003
Las Cruces, NM 88003
(505) 646-4422

Page 1 of 3
Report # 9801530930

Date: 01/23/98

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. AA89839

Sample Description: Treatment Skid ID #33

Sample collection date: 01/07/98

Sample collection time: 10:30

Submittal date: 01/08/98

Submittal time: 13:18

WSS# 93213

Request ID No. U041956

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	01/15/98	MAC
Bromobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Bromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Bromodichloromethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Bromoform	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Bromomethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
n-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
sec-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
tert-Butylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Carbon tetrachloride	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Chlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Chloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Chloroform	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Chloromethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
2-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
4-Chlorotoluene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Dibromochloromethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2-Dibromo-3-chloropropane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC

Sample I.D. AA89839

Sample Description: Treatment Skid ID #33

Sample collection date: 01/07/98

Sample collection time: 10:30

Submittal date: 01/08/98

Submittal time: 13:18

WSS# 93213

Request ID No. U041956

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	01/15/98	MAC
Dibromomethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,3-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,4-Dichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Dichlorodifluoromethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2-Dichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
cis-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
trans-1,2-Dichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,3-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
2,2-Dichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
cis-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
trans-1,3-Dichloropropene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Ethylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Hexachlorobutadiene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Isopropylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
4-Isopropyltoluene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Methylene chloride	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Naphthalene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Propylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Styrene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1,1,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1,2,2-Tetrachloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Tetrachloroethene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Toluene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2,3-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2,4-Trichlorobenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1,1-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,1,2-Trichloroethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Trichloroethene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Trichlorofluoromethane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2,3-Trichloropropane	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,2,4-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
1,3,5-Trimethylbenzene	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Vinyl chloride	EPA 502.2	Not detected	ug/L	0.5	01/15/98	MAC
Xylenes	EPA 502.2	Not detected	ug/L	0.5	01/15/98	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

11-11-11
11-11-11
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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 3 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 VOC analyses were placed in 2 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 VOC 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 VOC, nitrate, nitrite, sulfate, cyanide, metals, and secondary group analyses using the methods described below. Effluent samples were shipped to an approved laboratory for VOC 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 VOC concentrations using EPA Method 502.2 and 524.2, BTEX concentrations using SW846-8020 and 8021B, PAH concentrations using EPA Method 8270 and 8100, metals concentrations using EPA Method 6020, mercury concentrations using EPA Method 7470, and boron concentrations using EPA Method 6010.