

1R - 124

REPORTS

DATE:

03-2000

ANNUAL MONITORING REPORT

**EOTT PIPELINE COMPANY
MONUMENT 18
LEA COUNTY, NEW MEXICO**

PREPARED FOR:

**EOTT PIPELINE COMPANY
P. O. BOX
MIDLAND, TEXAS 79704**

Ms. Lennah Frost

PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
4600 WEST WALL STREET
MIDLAND, TEXAS 79704**

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 February 5, May 17, September 8, and November 10, 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 November 10, 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 general gradient of approximately 0.002 ft/ft to the southeast. The depth to groundwater, as measured from the top of the well casing, ranged between 30.92 to 35.16 feet for the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitoring wells MW-1, MW-3, and MW-4 during the quarterly sampling events. A maximum thickness of 3.03 in MW-1, 2.52 in MW-3, and 0.65 in MW-4 was measured and is shown on Table 1.

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.

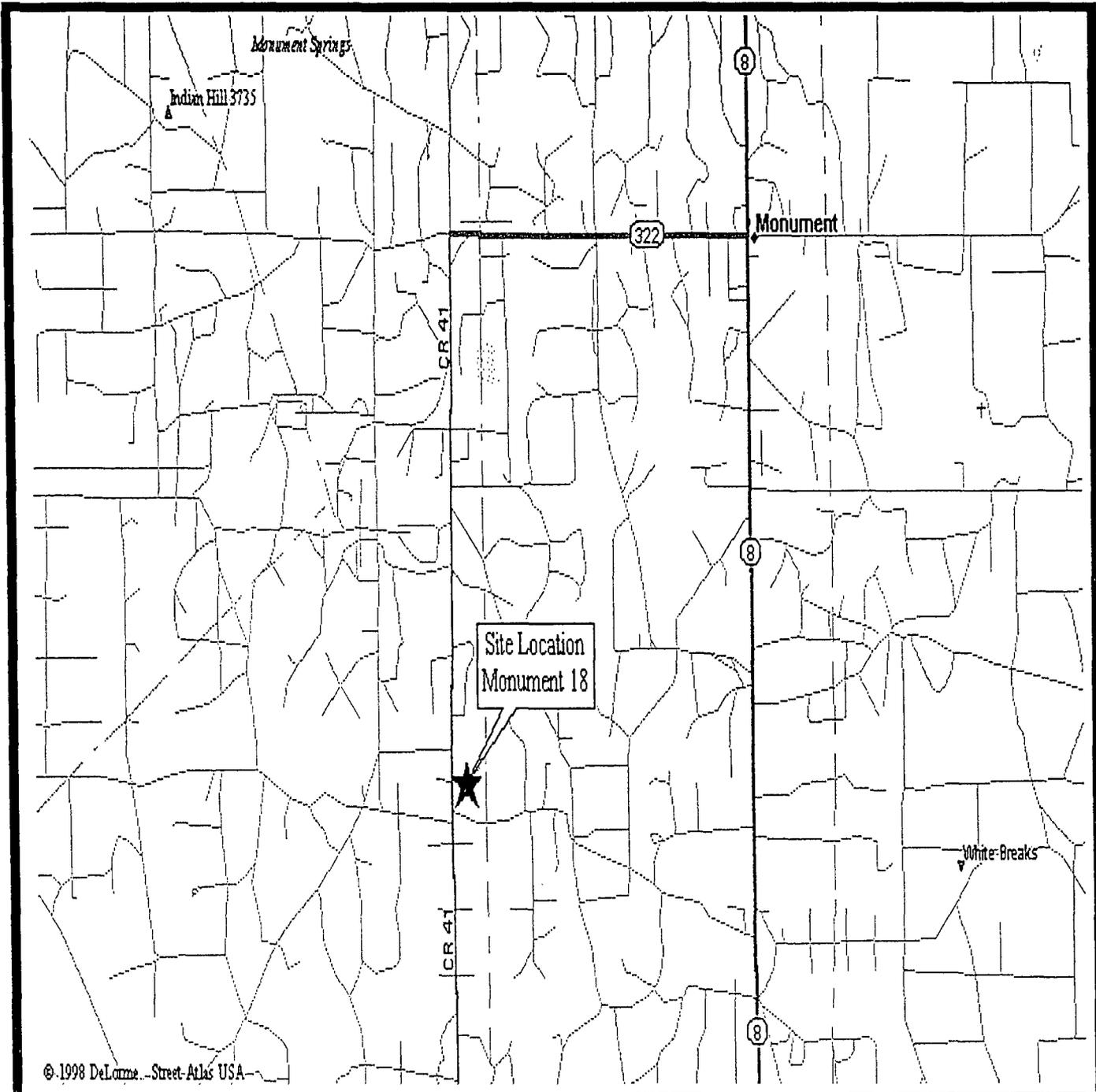
Laboratory results for all of the site ground water samples, obtained during the 1999 annual period, indicated that BTEX concentrations were above detection limits for all monitor wells on-site. However, all of the concentrations, including that for benzene, were below MCLs.

SUMMARY

This report presents the results of monitoring activities for the annual monitoring period of calendar year 1999. A measurable thickness of PSH was detected in MW-1, MW-3, and MW-4 during the quarterly sampling events. A maximum thickness of 3.03 in MW-1, 2.52 in MW-3, and 0.65 in MW-4 was measured and is shown on Table 1.

Laboratory results for all of the site ground water samples, obtained during the 1999 annual period, indicated that BTEX concentrations were above detection limits for all monitor wells on-site. However, all of the concentrations, including that for benzene, were below MCLs.

FIGURES



FIGURE

1

Not To Scale

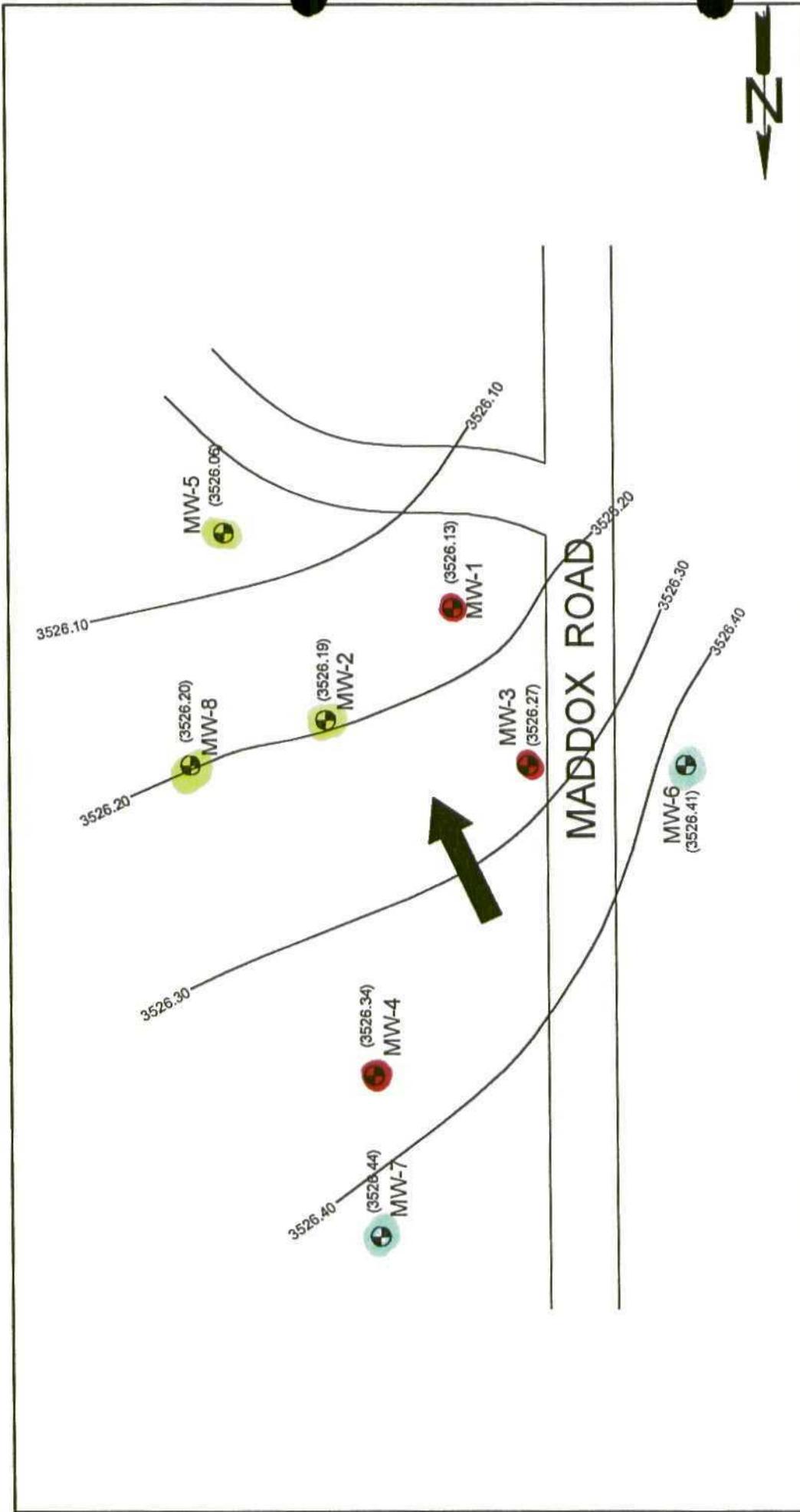
Site Location Map

EOTT Energy Corp.
Monument 18
Lea County NM

Environmental
Technology
Group, Inc.

02 - 8 - 00 RS

ETGI Project # EOT 1015C



LEGEND:

- Monitoring Well Locations
- Ground Water Contour Lines

Figure 2
Inferred Ground Water Contours 11/10/99
E.O.T.T. Energy Monument 18
Lea County, NM

Environmental Technology Group, Inc.
ETG
Environmental Technology Group, Inc. providing consulting & remediation services

Environmental Technology Group, Inc.	
Scale: 1"=55'	Prep By: RS
February 1, 2000	Checked By: JT
ETGI Project # EOT 1015C	

TABLES

TABLE 1
GROUNDWATER ELEVATION TABLE
MONUMENT 18
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	02/05/99	3,558.71	31.88	34.25	2.37	3,526.47
MW-1	05/17/99	3,558.71	31.87	34.66	2.79	3,526.42
MW-1	09/08/99	3,558.71	32.00	34.99	2.99	3,526.26
MW-1	11/10/99	3,558.71	32.13	35.16	3.03	3,526.13
MW-2	02/05/99	3,559.64	-	33.07	0.00	3,526.57
MW-2	05/17/99	3,559.64	-	33.09	0.00	3,526.55
MW-2	09/08/99	3,559.64	-	33.30	0.00	3,526.34
MW-2	11/10/99	3,559.64	-	33.45	0.00	3,526.19
MW-3	02/05/99	3,558.53	31.57	33.93	2.36	3,526.61
MW-3	05/17/99	3,558.53	31.64	34.03	2.39	3,526.53
MW-3	09/08/99	3,558.53	31.77	34.00	2.23	3,526.43
MW-3	11/10/99	3,558.53	31.88	34.40	2.52	3,526.27
MW-4	02/05/99	3,558.14	31.44	31.44	0.00	3,526.70
MW-4	05/17/99	3,558.14	31.50	31.50	0.00	3,526.64
MW-4	09/08/99	3,558.14	31.64	31.74	0.10	3,526.49
MW-4	11/10/99	3,558.14	31.70	32.35	0.65	3,526.34
MW-5	02/05/99	3,560.07	-	33.60	0.00	3,526.47
MW-5	05/17/99	3,560.07	-	33.74	0.00	3,526.33
MW-5	09/08/99	3,560.07	-	33.90	0.00	3,526.17
MW-5	11/10/99	3,560.07	-	34.01	0.00	3,526.06
MW-6	02/05/99	3,557.64	-	30.92	0.00	3,526.72
MW-6	05/17/99	3,557.64	-	30.96	0.00	3,526.68
MW-6	09/08/99	3,557.64	-	31.11	0.00	3,526.53
MW-6	11/10/99	3,557.64	-	31.23	0.00	3,526.41
MW-7	02/05/99	3,558.65	-	31.86	0.00	3,526.79
MW-7	05/17/99	3,558.65	-	31.92	0.00	3,526.73
MW-7	09/08/99	3,558.65	-	32.08	0.00	3,526.57
MW-7	11/10/99	3,558.65	-	32.21	0.00	3,526.44
MW-8	02/05/99	3,559.30	-	32.70	0.00	3,526.60
MW-8	05/17/99	3,559.30	-	32.84	0.00	3,526.46
MW-8	09/08/99	3,559.30	-	32.99	0.00	3,526.31
MW-8	11/10/99	3,559.30	-	33.10	0.00	3,526.20

TABLE 2
GROUND WATER CHEMISTRY
MONUMENT 18
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-2	02/05/99	0.004	<0.001	<0.001	<0.002	<0.001
MW-2	05/17/99	0.003	0.002	0.002	<0.002	<0.001
MW-2	09/08/99	0.003	<0.001	0.002	<0.001	0.001
MW-2	11/10/99	0.002	0.001	0.001	0.001	0.002
MW-5	02/05/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-5	05/17/99	0.003	0.002	<0.001	<0.002	<0.001
MW-5	09/08/99	0.002	0.001	<0.001	<0.001	0.001
MW-5	11/10/99	0.002	0.001	<0.001	<0.001	0.001
MW-6	02/05/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	05/17/99	0.001	0.001	<0.001	<0.002	<0.001
MW-6	09/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	11/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	02/05/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-7	05/17/99	0.002	0.002	0.003	0.011	0.002
MW-7	09/08/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	11/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	02/05/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	05/17/99	0.002	0.002	0.001	0.003	<0.001
MW-8	09/08/99	0.001	<0.001	<0.001	<0.001	0.001
MW-8	11/10/99	0.002	<0.001	<0.001	<0.001	0.001

Methods: EPA SW 846-8020, 5030

APPENDIX A



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

Reference: XENCO Report No.: -90525
Project Name: Monument 18
Project ID: 610057-6-18
Project Address: Lea Co., 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 -90525.r 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. -90525r 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 CUSTODY REPORT
CHRONOLOGY OF SAMPLES

KEI Consultants, Inc.

XENCO COC#: -90525

Project ID: 610057-6-18

Project Name: Monument 18

Date Received in Lab: Feb 9, 1999 10:20 by DA

Project Manager: S. Grover/T. Nix

XENCO contact : Carlos Castro/Karen Olson

Project Location: Lea Co., NM

Date and Time									
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW-2	90525-001	BTEX	SW-846	ppm	10 days	Feb 5, 1999 12:30		Feb 12, 1999 by MGC	Feb 12, 1999 10:41 by MGC
2 MW-5	90525-002	BTEX	SW-846	ppm	10 days	Feb 5, 1999 13:00		Feb 11, 1999 by MGC	Feb 11, 1999 20:13 by MGC
3 MW-6	90525-003	BTEX	SW-846	ppm	10 days	Feb 5, 1999 13:30		Feb 12, 1999 by MGC	Feb 12, 1999 11:03 by MGC
4 MW-7	90525-004	BTEX	SW-846	ppm	10 days	Feb 5, 1999 14:00		Feb 11, 1999 by MGC	Feb 11, 1999 20:36 by MGC
5 MW-8	90525-005	BTEX	SW-846	ppm	10 days	Feb 5, 1999 14:30		Feb 11, 1999 by MGC	Feb 11, 1999 20:58 by MGC



CERTIFICATE OF ANALYSIS SUMMARY -90525

Project ID: 610057-6-18

Project Manager: S. Grover/T. Nix

Project Location: Lea Co., NM

KEI Consultants, Inc.

Project Name: Monument 18

Date Received in Lab : Feb 9, 1999 10:20

Date Report Faxed: Feb 12, 1999

XENCO contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	90525 001 MW-2 Liquid 02/05/99 12:30	90525 002 MW-5 Liquid 02/05/99 13:00	90525 003 MW-6 Liquid 02/05/99 13:30	90525 004 MW-7 Liquid 02/05/99 14:00	90525 005 MW-8 Liquid 02/05/99 14:30
BTEX	Analyzed: Units:	02/12/99 ppm	02/11/99 ppm	02/12/99 ppm	02/11/99 ppm	02/11/99 ppm
EPA 8021B		R.L.	R.L.	R.L.	R.L.	R.L.
Benzene		0.004 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Toluene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Ethylbenzene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylene		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
o-Xylene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Total BTEX		0.004	N.D.	N.D.	N.D.	N.D.

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.

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



Certificate of Quality Control for Batch : 19A03A66

SW- 346 5030/302HB BTEX

Date Validated: Feb 12, 1999 10:30
 Date Analyzed: Feb 11, 1999 13:05

Analyst: MGC
 Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A]	[B]	[C]	[D]	[E]	[F]		[G]		[H]		[I]	Qualifier
	Blank Result ppm	Blank Spike Result ppm	Blank Spike Duplicate Result ppm	Blank Spike Amount ppm	Detection Limit ppm	Blank Limit Relative Difference %	QC Spike Relative Difference %	QC Blank Spike Recovery %	QC Blank Spike Recovery %	QC B.S.D. Recovery %	Blank Spike Recovery Range %		
Benzene	< 0.0010	0.1090	0.1090	0.1000	0.0010	20.0	0.0	108.9	108.9	108.9	65-135		
Toluene	< 0.0010	0.1110	0.1110	0.1000	0.0010	20.0	0.0	110.9	110.9	110.9	65-135		
Ethylbenzene	< 0.0010	0.1140	0.1140	0.1000	0.0010	20.0	0.0	113.9	113.9	113.9	65-135		
m,p-Xylene	< 0.0020	0.2220	0.2220	0.2000	0.0020	20.0	0.0	111.0	111.0	111.0	65-135		
o-Xylene	< 0.0010	0.1080	0.1080	0.1000	0.0010	20.0	0.0	107.9	107.9	107.9	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

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



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

May 20, 1999

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

Reference: XENCO Report No.: -91995
Project Name: EOTT
Project ID: 610057-6-18
Project Address: Monument, 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 -91995.r 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. -91995r 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 O. CUSTODY REPORT CHRONOLOGY OF SAMPLES

KEI Consultants, Ltd.

Project ID: 610057-6-18
 Project Manager: S. Grover/T. Nix
 Project Location: Monument, NM

Project Name: EOTT

XENCO COC#: -91995

Date Received in Lab: May 18, 1999 12:05 by DA

XENCO contact : Carlos Castro/Debbie Simmons

		Date and Time							
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW-2	91995-001	BTEX	SW-846	ppm	7 days	May 17, 1999 13:00		May 18, 1999 by HAL	May 18, 1999 22:35 by HIA
2 MW-5	91995-002	BTEX	SW-846	ppm	7 days	May 17, 1999 12:00		May 18, 1999 by HAL	May 18, 1999 22:52 by HIA
3 MW-6	91995-003	BTEX	SW-846	ppm	7 days	May 17, 1999 14:00		May 18, 1999 by HAL	May 18, 1999 23:10 by HIA
4 MW-7	91995-004	BTEX	SW-846	ppm	7 days	May 17, 1999 13:30		May 18, 1999 by HAL	May 19, 1999 00:20 by HIA
5 MW-8	91995-005	BTEX	SW-846	ppm	7 days	May 17, 1999 12:30		May 18, 1999 by HAL	May 19, 1999 00:38 by HIA

CERTIFICATE OF ANALYSIS SUMMARY -91995

KEI Consultants, Ltd.

Project ID: 610057-6-18
 Project Manager: S. Grover/T. Mix
 Project Location: Monument, NM

Project Name: EOTT

Date Received in Lab : May 18, 1999 12:05

Date Report Faxed: May 20, 1999

XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	91995 001 MW-2		91995 002 MW-5		91995 003 MW-6		91995 004 MW-7		91995 005 MW-8	
		Liquid 05/17/99 13:00	R.L.	Liquid 05/17/99 12:00	R.L.	Liquid 05/17/99 14:00	R.L.	Liquid 05/17/99 13:30	R.L.	Liquid 05/17/99 12:30	R.L.
BTEX	Analyzed: Units:	0.003 (0.001)	R.L.	0.003 (0.001)	R.L.	0.001 (0.001)	R.L.	0.002 (0.001)	R.L.	0.002 (0.001)	R.L.
EPA 8021B		0.002 (0.001)		0.002 (0.001)		0.001 (0.001)		0.002 (0.001)		0.002 (0.001)	
Benzene		0.002 (0.001)		< 0.001 (0.001)		< 0.001 (0.001)		0.003 (0.001)		0.001 (0.001)	
Toluene		< 0.002 (0.002)		< 0.002 (0.002)		< 0.002 (0.002)		0.011 (0.002)		0.003 (0.002)	
Ethylbenzene		< 0.001 (0.001)		< 0.001 (0.001)		< 0.001 (0.001)		0.002 (0.001)		< 0.001 (0.001)	
m,p-Xylene		0.007		0.005		0.002		0.020		0.006	
o-Xylene											
Total BTEX											

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. Clemons, II
 QA/QC Manager



Certificate Of Quality Control for Batch: 19A25C16

SW- 846 5030/302IB BTEX

Date Validated: May 19, 1999 15:00

Analyst: HA

Date Analyzed: May 18, 1999 11:58

Matrix: Liquid

Parameter	[A]	[B]	[C]	[D]	[E]	Blank Limit Relative Difference %	[F]	[G]	[H]	[I]	Qualifier
	Blank Result ppm	Blank Spike Result ppm	Blank Spike Duplicate Result ppm	Blank Spike Amount ppm	Detection Limit ppm		QC Spike Relative Difference %	QC Blank Spike Recovery %	QC B.S.D. Recovery %	Blank Spike Recovery Range %	
Benzene	< 0.0010	0.0892	0.0947	0.1000	0.0010	20.0	6.0	89.2	94.7	65-135	
Toluene	< 0.0010	0.0890	0.0955	0.1000	0.0010	20.0	7.0	89.0	95.5	65-135	
Ethylbenzene	< 0.0010	0.0838	0.0922	0.1000	0.0010	20.0	9.5	83.8	92.2	65-135	
m,p-Xylene	< 0.0020	0.1701	0.1777	0.2000	0.0020	20.0	4.4	85.1	88.9	65-135	
o-Xylene	< 0.0010	0.0940	0.1007	0.1000	0.0010	20.0	6.9	94.0	100.7	65-135	

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

Eddie L. Clemons, II

QA/QC Manager

GROUND WATER MONITORING AND SAMPLING DATA

JOB NO.: MONUMENT 18 FIELD TECHNICIAN: RD DATE: 8 SEP 99

WELL NO.	TIME WELL PURGED	TOTAL WELL DEPTH (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	WELL FACTOR	CALC. WELL VOLUME (gal)	TOTAL WATER PURGED (gal)	ESTIMATED NO. WELL VOLUMES PURGED	1999 TIME SAMPLE TAKE/DATE	DEPTH TO PSH (feet)	PSH THICKNESS (feet)	SAMPLE CHARACTERISTIC
MW-1			2	(1-2)=3	2"=16 4"=65 6"=115 4	(3x4)=5	6	65		32.00	2.99	
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-2	4050	41.32	33.30	8.02	.16	1.28	3.84	3.0	1110 9-8		T 20.2 PH 6.66	C 23.36MS ORP 154MV
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-3			34.00							31.77	2.23	
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-4			31.74							31.64	0.10	
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-5	0955	46.15	33.90	12.25	.16	1.96	5.88	3.0	1015 9-8		T 20.4 PH 6.61	C 22.46MS ORP 243 MV
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-6	0930	40.91	31.11	9.80	.16	1.56	4.70	3.0	0940 9-8		T 20.2 PH 6.51	C 13.54MS ORP 190MV
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-7	1120	42.16	32.08	10.08	.16	1.61	4.83	3.0	1135 9-8		T 19.8 PH 6.66	C 22.29MS ORP 181MV
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
MW-8	1025	42.84	32.99	9.85	.16	1.57	4.72	3.0	1040 9-8		T 20.5 PH 6.67	C 21.87MS ORP 262MV
CONDITION: Cover: Cap: Casing: Lock: Manway/Pad:												
										Total Removed: <u>23.97</u> gal.		

DRUMS ON-SITE: _____ COMMENTS: _____
 CARBON DRUM TRAILER: (yes/no) _____
 DISCHARGE SAMPLE (time/date): _____
 pH: _____
 1113gwmo.doc August 2, 1999

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 915-520-4310

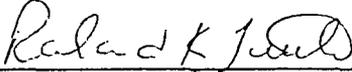
Sample Type: Water
Sample Condition: Intact/ Iced/HCl
Project #: Monument 18
Project Name: None Given
Project Location: Lea County, N.M.

Sampling Date: 09/08/99
Receiving Date: 09/11/99
Analysis Date: 09/11/99

ELT#	FIELD CODE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	m,p-XYLENE (mg/L)	o-XYLENE (mg/L)
19931	MW-2	0.003	<0.001	0.002	<0.001	0.001
19932	MW-5	0.002	0.001	<0.001	<0.001	0.001
19933	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
19934	MW-7	<0.001	<0.001	<0.001	<0.001	<0.001
19935	MW-8	0.001	<0.001	<0.001	<0.001	0.001

% IA	99	95	95	94	94
% EA	97	94	93	92	92
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8020,5030


Raland K. Tuttle

9-14-99
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763
 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC: 013

Project Manager: **JESSE TAYLOR**
 Phone #: (915) 664-9166
 FAX #:

ANALYSIS REQUEST

Company Name & Address: **ETG-I**
P.O. Box 4845 MIDLAND TX 79704

Project #:

MONUMENT 18

Project Name:

LEA COUNTY, NH

Sampler Signature:

Ken Dutton

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		REMARKS			
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER		DATE	TIME	
19931	MW-2	2	V	X				X						9-8	1110	X	TCLP Metals Ag As Ba Cd Cr Pb Hg Se TCLP Metals Ag As Ba Cd Cr Pb Hg Se TCLP Volatiles TCLP Semi Volatiles TDS RCI
19932	MW-5														1015		
19933	MW-6														0945		
19934	MW-7														1135		
19935	MW-8														1040		

BTX 8020/5030
TPH 418.1

Relinquished by: <i>Ken Dutton</i>	Date: 11 SEP 99	Times: 1145	Received by: <i>R. L. Dutton</i>
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

MAIL RESULTS:
 KEN DUTTON
 1606 W. CALLE SUR, APT B
 HOBBS, NH 88240-0985

INVOICE: LENUMAN FROST PO # 1015H

GROUND WATER MONITORING AND SAMPLING DATA

JOB NO.: Muniment 18 FIELD TECHNICIAN: SC DATE: 11-10-99

WELL NO.	TIME WELL PURGED	TOTAL WELL DEPTH (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	WELL FACTOR	CALC. WELL VOLUME (gal)	TOTAL WATER PURGED (gal)	ESTIMATED RO. WELL VOLUMES PURGED G/S	TIME SAMPLE TAKE/DIATE	DEPTH TO PSH (feet)	PSH THICKNESS (feet)	SAMPLE CHARACTERISTIC
MW 1			35.16		2 4 6 4		6		1999	32.13	3.03	
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 2	0836	42.20	33.45	7.75	.16	1.24	3.72	3.0	11-10		18.8	C 23.55 MS
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 3			34.40						0845	31.88	2.52	0 131 MV
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 4			32.35							31.70	0.65	
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 5	1039	46.13	34.01	12.12	.16	1.93	5.89	3.0	11-10		21.0	C 22.18 MS
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 6	1108	40.88	31.23	9.65	.16	1.54	4.63	3.0	1048		7.36	0 124 MV
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 7	0930	42.15	32.21	9.94	.16	1.59	4.77	3.0	11-10		20.5	C 15.00 MS
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW 8	1002	42.85	33.10	9.75	.16	1.56	4.68	3.0	11-10		7.39	0 86 MV
CONDITION: Cover: Casing: Lock: Manway/Pad:												
CONDITION: Cover: Casing: Lock: Manway/Pad:												
Total Removed 23.59 gal.												

DRUMS ON SITE: _____ COMMENTS: _____
 CARBON DRUM TRAILER (yes/no) _____
 DISCHARGE SAMPLE (time/date): _____
 pH: _____

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760 (Ken Dutton)

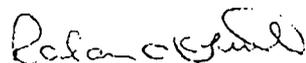
Sample Type: Water
Sample Condition: Intact/leed/HCl
Project #: Monument 18
Project Name: EOT 1015C
Project Location: Monument, N.M.

Sampling Date: 11/10/99
Receiving Date: 11/11/99
Analysis Date: 11/12/99

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
21539	MW-2	0.002	0.001	0.001	0.001	0.002
21540	MW-5	0.002	0.001	<0.001	<0.001	0.001
21541	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
21542	MW-7	<0.001	<0.001	<0.001	<0.001	<0.001
21543	MW-8	0.002	<0.001	<0.001	<0.001	0.001

% IA	94	91	94	96	94
% EA	100	98	101	104	100
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021.5030


Raland K. Tuttle

11-15-99
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763
 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC 41

Project Manager: Jesse Taylor Phone #: (915) 664-9166
 FAX #: (505) 392-3760

Company Name & Address: ETGI
P.O. Box 4845, MIDLAND, TX 79704

Project #: MONUMENT 18 Project Name: LOT 10150
 Project Location: MONUMENT, NM Sampler Signature: Simon Casas

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME	
21539	MW 2	2	V	X						X					11-10	0845
21540	MW 5	2	V													1048
21541	MW 6	2	V													1119
21542	MW 7	2	V													0939
21543	MW 8	2	V	V						V					V	1010

TPH 418.1
 BTEX 8120.5
 TCLP Metals Ag As Ba Cd Cr Pb Hg Se
 Total Metals Ag As Ba Cd Cr Pb Hg Se
 TCLP Volatiles
 TCLP Semi Volatiles
 TDS
 RCI

ANALYSIS REQUEST

REMARKS: Mail Results: K. DUTTON
 INVOICE: LENNAH FROST 1015M

Relinquished by: <u>Simon Casas</u>	Date: <u>11-11-98</u>	Times: <u>1405</u>	Received by: <u>J. Murney</u>
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 605-392-3760(Ken Dutton)

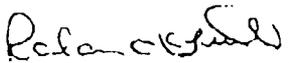
Sample Type: Water
Sample Condition: Intact/Lead/HCl
Project #: Monument 18
Project Name: EOT 1015C
Project Location: Monument, N.M

Sampling Date: 11/10/99
Receiving Date: 11/11/99
Analysis Date: 11/12/99

ALT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
21539	MW-2	0.002	0.001	0.001	0.001	0.002
21540	MW-5	0.002	0.001	<0.001	<0.001	0.001
21541	MW-8	<0.001	<0.001	<0.001	<0.001	<0.001
21542	MW-7	<0.001	<0.001	<0.001	<0.001	<0.001
21543	MW-8	0.002	<0.001	<0.001	<0.001	0.001

% IA	94	91	94	96	94
% EA	100	98	101	104	100
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021.5030


Roland K. Tuttle

11-15-99
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760(Ken Dutton)

Sample Type: Water
Sample Condition: Intact/Iced/HCl
Project #: Monument 18
Project Name: EOT 1015C
Project Location: Monument, N.M.

Sampling Date: 11/10/99
Receiving Date: 11/11/99
Analysis Date: 11/12/99

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
21539	MW-2	0.002	0.001	0.001	0.001	0.002
21540	MW-5	0.002	0.001	<0.001	<0.001	0.001
21541	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
21542	MW-7	<0.001	<0.001	<0.001	<0.001	<0.001
21543	MW-8	0.002	<0.001	<0.001	<0.001	0.001

% IA	94	91	94	96	94
% EA	100	98	101	104	100
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021,5030



Raland K. Tuttle

11-15-99

Date