Denny G. Foust
DEPUTY OIL & GAS INSPECTOR

EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEC 21 1998

Approved

CANDADO #23 A (CH &MV)
Meter/Line ID - 93298

RECEIVED
JUL 2 1998
OIL CON. DIV.
DIST. 3

SITE DETAILS

Legals - Twn: 26 **Rng:** 07 **Sec:** 09 **Unit:** P
NMOCD Hazard Ranking: 40 **Land Type:** 2 - Federal
Operator: CENTRAL RESOURCES INC. **Pit Closure Date:** 08/24/98

RATIONALE FOR RISK-BASED CLOSURE:

The above mentioned production pit was assessed and ranked according to the criteria in the New Mexico Conservation Division's Unlined Surface Impoundment Closure Guidelines.

The primary source, discharge to the pit, has been removed. There has been no discharge to the production pit for at least five years and the pit has been closed for at least three years.

The production pit has been remediated to the practical extent of the trackhoe or to the top of bedrock. Initial laboratory analysis has indicated that the soil remaining at the bottom of the excavation is above standards based on the hazard ranking score. Contaminated soil was removed and transported to an approved landfarm for disposal. The initial excavation was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching any residual hydrocarbons remaining in the soil. Therefore, further mobility of residual hydrocarbons is unlikely.

Since the soil samples from the initial excavation were above standards, a test boring was drilled and a sample was collected to evaluate the vertical extent of impact to soils. Test boring sample results indicated soils below standards beneath the original excavation.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- Discharge to the pit has not occurred in over five years and the pit has been closed for over three years.
- The bulk of the impacted soil was removed during the initial excavation.
- The excavation was backfilled with clean soil and graded to divert precipitation away from the excavation area.
- All source material has been removed from the ground surface, eliminating potential direct contact with livestock and the general public.
- Groundwater was not encountered in the initial excavation or test boring; therefore, impact to groundwater is unlikely.
- Soil samples collected beneath the initial excavation were below standards.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soil at the bottom of the initial excavation will naturally degrade in time with minimal risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93-298 / 93-299 Location: Candado No. 23-A (CH and MV)
Operator #: 0373 Operator Name: Central Resources P/L District: Ballard
Coordinates: Letter: P Section 9 Township: 26 Range: 7
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6/1/94 Area: 07 Run: 62

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
Indian _____

Depth to Groundwater
Less Than 50 Feet (20 points) ☒ (1)
50 Ft to 99 Ft (10 points) ☐ (2)
Greater Than 100 Ft (0 points) ☐ (3)

Wellhead Protection Area :
Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body
Less Than 200 Ft (20 points) ☒ (1)
200 Ft to 1000 Ft (10 points) ☐ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body Largo Canyon
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)
Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 40 **POINTS**

REMARKS

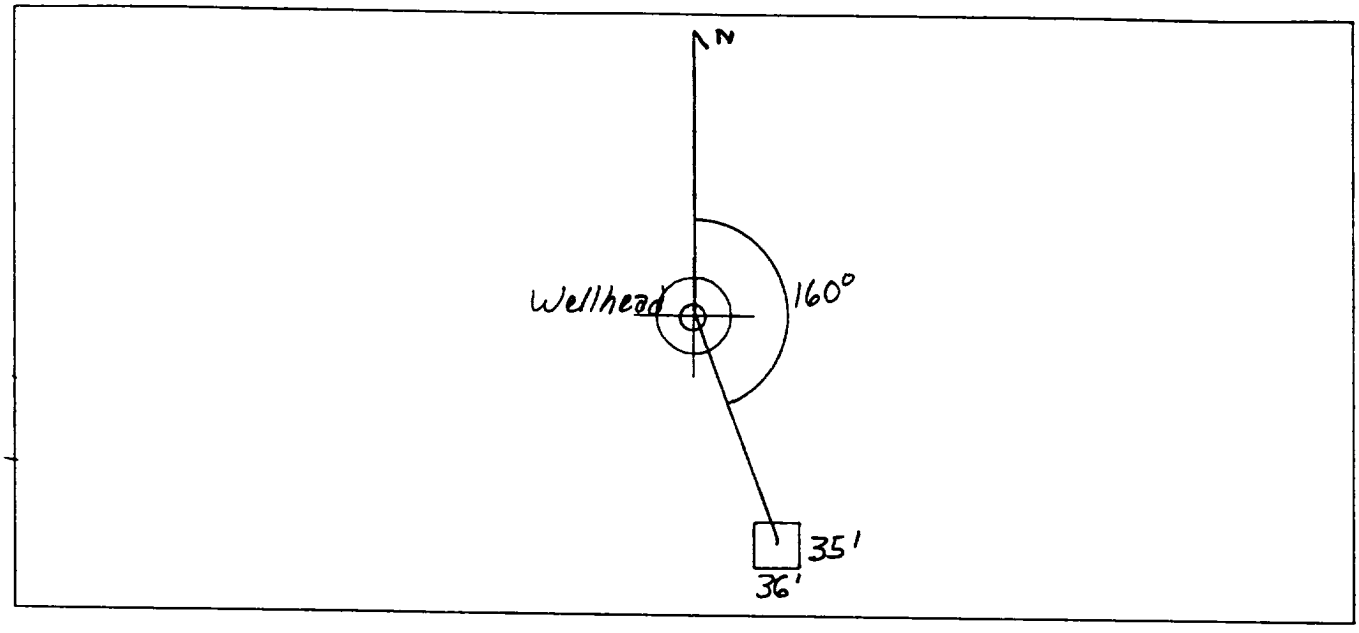
Remarks : Redline Book - Inside Vulnerable Zone Topo - Inside
OK 9/1/93
One pit, pit has oil in it, will close one pit
Three ↗
(Called Ballard office and notified them of liquid in pit.)
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 160° Footage from Wellhead 110'

b) Length : 36' Width : 35' Depth : 3'



REMARKS

Remarks :

Pictures @ 1319 (5-8)

End Dump

Completed By:

Sarah Kelly
Signature

7/1/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

93 298
Meter: 93299 Location: Candado No. 23A (CH & MV)

Coordinates: Letter: P Section 9 Township: 26 Range: 7

Or Latitude _____ Longitude _____

Date Started : 8-24-94 Run: 07 62

FIELD OBSERVATIONS

Sample Number(s): KP 206 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 334 PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 200
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☒	☐	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 8-24-94 Pit Closed By: BEI

REMARKS

Remarks : Some Line Marker's. Pit has a lot of water & oil. Had to mix two trucks before we could haul off. At 12' soil still gray looking with a smell.

Signature of Specialist: Kelly Padilla

(SP3191) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 206	946005
MTR CODE | SITE NAME:	93298 / 93299	N/A
SAMPLE DATE | TIME (Hrs):	8-24-94	1650
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8-25-94	8-25-94
DATE OF BTEX EXT. | ANAL.:	8/28/94	8/28/94
TYPE | DESCRIPTION:	JC	Dark brown sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG	20			
TOLUENE	8.3	MG/KG	20			
ETHYL BENZENE	<0.5	MG/KG	20			
TOTAL XYLENES	64	MG/KG	20			
TOTAL BTEX	73	MG/KG				
TPH (418.1)	3240	MG/KG			2.02	28
HEADSPACE PID	334	PPM				
PERCENT SOLIDS	91.6	%				

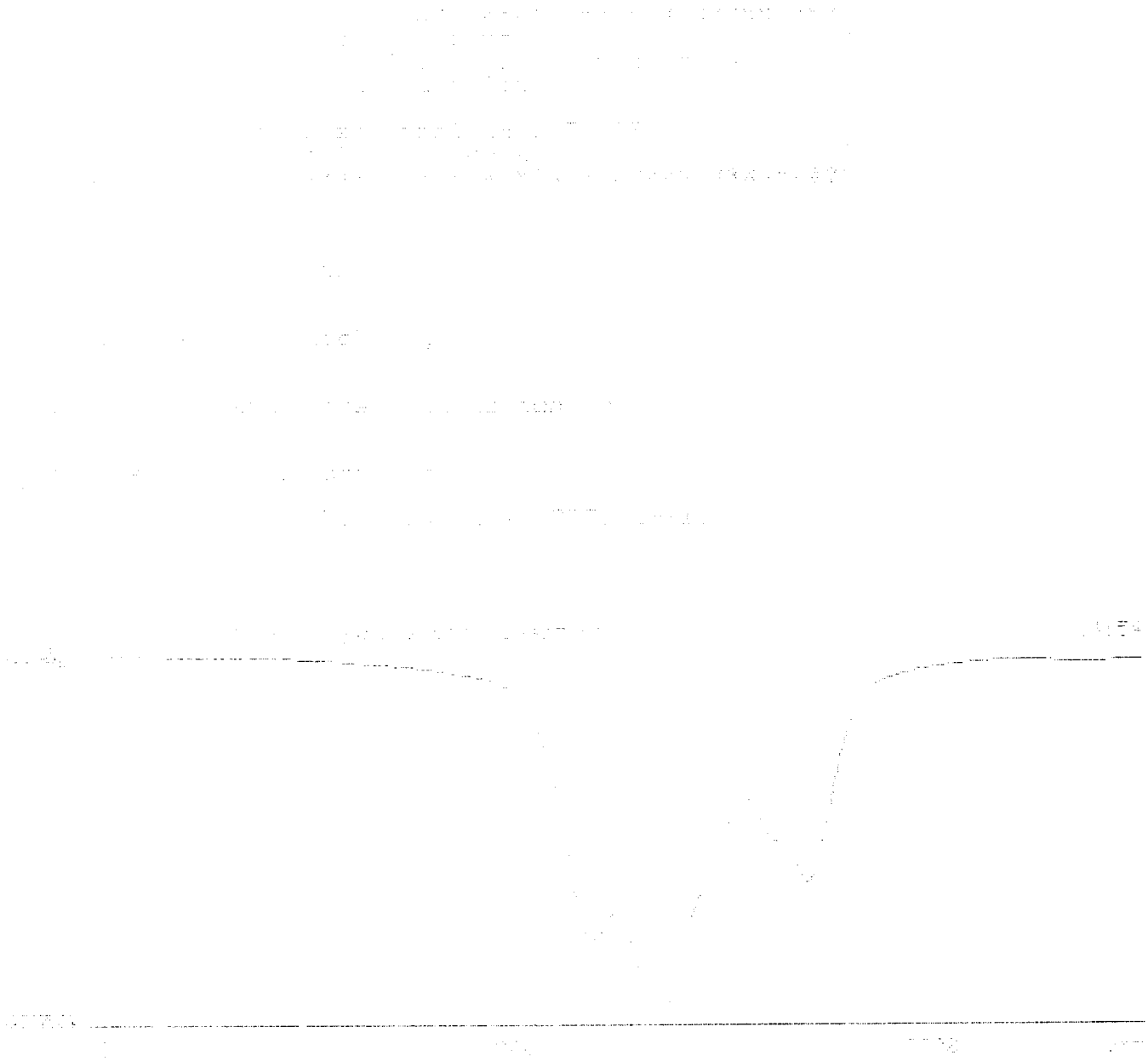
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 97 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: _____ Date: 9/30/94



Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **408405**

August 30, 1994

El Paso Natural Gas Co.
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

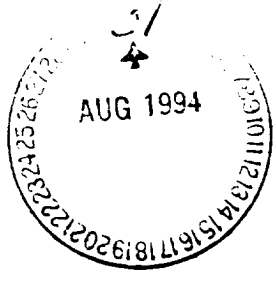
On **08/26/94**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408405
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	945998	NON-AQ	08/23/94	08/28/94	08/28/94	20
05	946004	NON-AQ	08/24/94	08/28/94	08/29/94	1
06	946005	NON-AQ	08/24/94	08/28/94	08/28/94	20

PARAMETER	UNITS	04	05	06
BENZENE	MG/KG	<0.5	<0.025	<0.5
TOLUENE	MG/KG	7.2	<0.025	8.3
ETHYLBENZENE	MG/KG	3.4	<0.025	<0.5
TOTAL XYLENES	MG/KG	19	<0.025	64
SURROGATE: BROMOFLUOROBENZENE (%)		123*	80	97

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

PHILIP ENVIRONMENTAL
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG PITS
Project Number 14509 Phase 6000 77
Project Location Candado No. 23-A 93298/932

Elevation
Borehole Location QP-S9-T26-R7
GWL Depth
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 8/18/95-0830
Date/Time Completed 8/18/95-0950

Well Logged By CM Chance
Personnel On-Site K Padilla, F. Rivera, D. Charlie
Contractors On-Site
Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM BZ	BH	S HS	Drilling Conditions & Blow Counts
0				Backfill to 12'						
15	1	15-17	6"	DK gry clayey SAND, vf-F sand, loose, sl moist,			0	0	306/477	0845
20	2	20-22	12	DK gry silty SAND, vf-F sand, grades to med, loose, sl moist			0	10	270/395	0848
25	3	25-27	8"	DK gry SAND, vf, F sand, loose, sl moist			4	100	853/826	0853
30	4	30-32	6"	AA			0	80	28/46	0905
				Br sandy CLAY, vf sand, soft, med plastic, moist			0	110	4/19	0905
	5	32-34	6"	AA						
35				TDB 34'						
40										

Comments: Split spoon #4 (30-32') cleaned up in the shoe. Took split spoon from 32-34' & submitted to lab. CMC 80. BH grouted to surface. (Took measurement to see if water had been encountered after sample 4. No water after sample #4 #5.)

Geologist Signature Cory Chance

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 80	947286
MTR CODE | SITE NAME:	93298/93299	Candado No. 23-A
SAMPLE DATE | TIME (Hrs):	08-18-95	09:05
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/21/95	8-21-95
DATE OF BTEX EXT. | ANAL.:	8/23/95	8/23/95
TYPE | DESCRIPTION:	VG	Dark brown clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .5	MG/KG				
TOLUENE	< .5	MG/KG				
ETHYL BENZENE	< .5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	~~55~~ 34.8	MG/KG			2.01	2.8
HEADSPACE PID	19	PPM				
PERCENT SOLIDS	83.8	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 105 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Date: 8/28/95

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**************************************************
*                  Test Method for               *
*      Oil and Grease and Petroleum Hydrocarbons  *
*                 in Water and Soil              *
*                                                *
*            Perkin-Elmer Model 1600 FT-IR       *
*                  Analysis Report               *
**************************************************

 95/09/21   16:07

  Sample identification
 947286

  Initial mass of sample, g
 2.010

  Volume of sample after extraction, ml
 28.000

  Petroleum hydrocarbons, ppm
 34.789
  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
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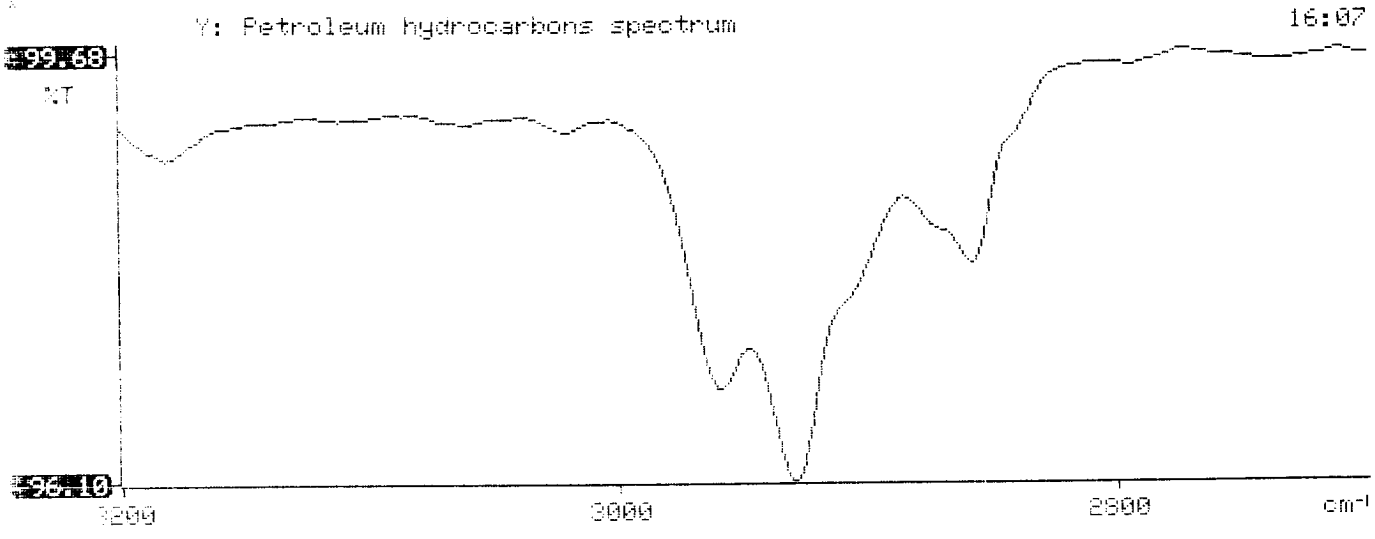

BTEX SOIL SAMPLE WORKSHEET

File	947286	**Date Printed**	8/25/95	
Soil Mass (g)	4.97	**Multiplier (L/g)**	0.00101	
Extraction vol. (mL)	20	**DF (Analytical)**	200	
Shot Volume (uL)	100	**DF (Report)**	0.20121	
				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.503
Toluene (ug/L)	0.00	**Toluene (mg/Kg):**	**0.000**	0.503
Ethylbenzene (ug/L)	0.00	**Ethylbenzene (mg/Kg):**	**0.000**	0.503
p & m-xylene (ug/L)	0.00	p & m-xylene (mg/Kg):	0.000	1.006
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.503
		Total xylenes (mg/Kg):	**0.000**	1.509
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082395-1.023
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947286,4.97G,100U
Acquired : Aug 24, 1995 05:40:14
Printed : Aug 24, 1995 06:06:28
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.440	0	0.0000
a,a,a TFT	4.900	4859882	93.4419
TOLUENE	6.733	81714	-0.5214
ETHYLBENZENE	10.487	72592	-0.3112
M & P XYLENE	10.833	58979	-5.0033
O XYLENE	11.957	0	0.0000
BFB	13.380	75436960	104.7245