EL PASO FIELD SERVICES
PRODUCTION PIT CLOSURE

DEPUTY OIL & GAS INSPECTOR

DEC 27 1994

RECEIVED
JUL 2 1998
OIL CON. DIV.

RINCON UNIT #154
Meter/Line ID - 73319

SITE DETAILS

Legals - Twn: 27 **Rng:** 06 **Sec:** 30 **Unit:** O
NMOCD Hazard Ranking: 10 **Land Type:** 2 - Federal
Operator: UNOCAL CORPORATION **Pit Closure Date: 01/09/95**

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.

J: 18954 rbc

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 73319 Location: RINCON UNIT #154
Operator #: _____ Operator Name: UNOCAL P/L District: BLANCO
Coordinates: Letter: O Section 30 Township: 27 Range: 6
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 12.5.94 Area: 03 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 EPHEMERAL DRAINAGE TO PALLICHE 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: 10 **POINTS**

REMARKS

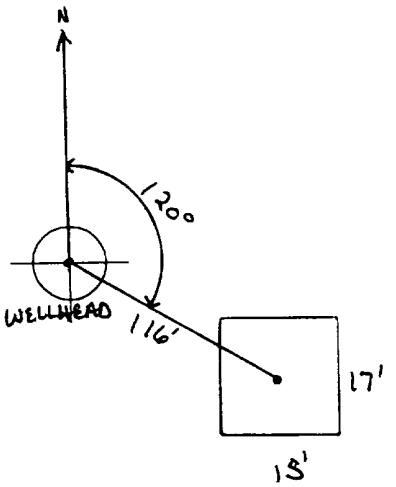
Remarks : REDLINE & TOPO SHOW LOCATION INSIDE V.Z. ONE PIT ON LOCATION - BELONGS TO UNOCAL EPNG LOCATION DRIP HAS BEEN CLOSED. WILL RE-DIG CLOSED PIT. NOTE ORANGE STAKE.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 120° Footage from Wellhead 116'

b) Length : 17' Width : 15' Depth : 0



REMARKS

Remarks :

PHOTOS - 1056

Completed By:

Signature

12.5.94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 73319 Location: Rincon unit #154

Coordinates: Letter: O Section 30 Township: 27 Range: 6

Or Latitude _____ Longitude _____

Date Started : 1-9-95 Run: 03 62

FIELD OBSERVATIONS

Sample Number(s): MK 318 _____ _____ _____

Sample Depth: 12 Feet

Final PID Reading 360 PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 60

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 1-9-95 Pit Closed By: _____

REMARKS

Remarks : pit was already close remove 2' of overburdin before we hit contaminated soil. soil is Gray has a strong Hydro carbon odor

Signature of Specialist: Morgan Killion

(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:	MK 318	96/6558
MTR CODE | SITE NAME:	73319	N/A
SAMPLE DATE | TIME (Hrs):	1-9-95	1615
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	1-12-95	1-12-95
DATE OF BTEX EXT. | ANAL.:	1/11/95	1/12/95
TYPE | DESCRIPTION:	VC	Brown clay

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	6.06	MG/KG	0.26936		4.95	20
TOLUENE	56.9	MG/KG	↓		↓	↓
ETHYL BENZENE	26.9	MG/KG	↓		↓	↓
TOTAL XYLENES	234	MG/KG	↓	D1	↓	↓
TOTAL BTEX	324	MG/KG				
TPH (418.1)	5290	MG/KG			1.98	28
HEADSPACE PID	360	PPM				
PERCENT SOLIDS	87.6	%				

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

The Surrogate Recovery was at 138 % for this sample All QA/QC was acceptable.

Narrative:
BFB co-eluted with hydrocarbons

DF = Dilution Factor Used

Approved By: _____ Date: 2-22-95

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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                 *
******************************************************
*
 95/01/12  10:44
*
*  Sample identification
 946558
*
*  Initial mass of sample, g
 1.980
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 5291.051
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.649
*
*
*
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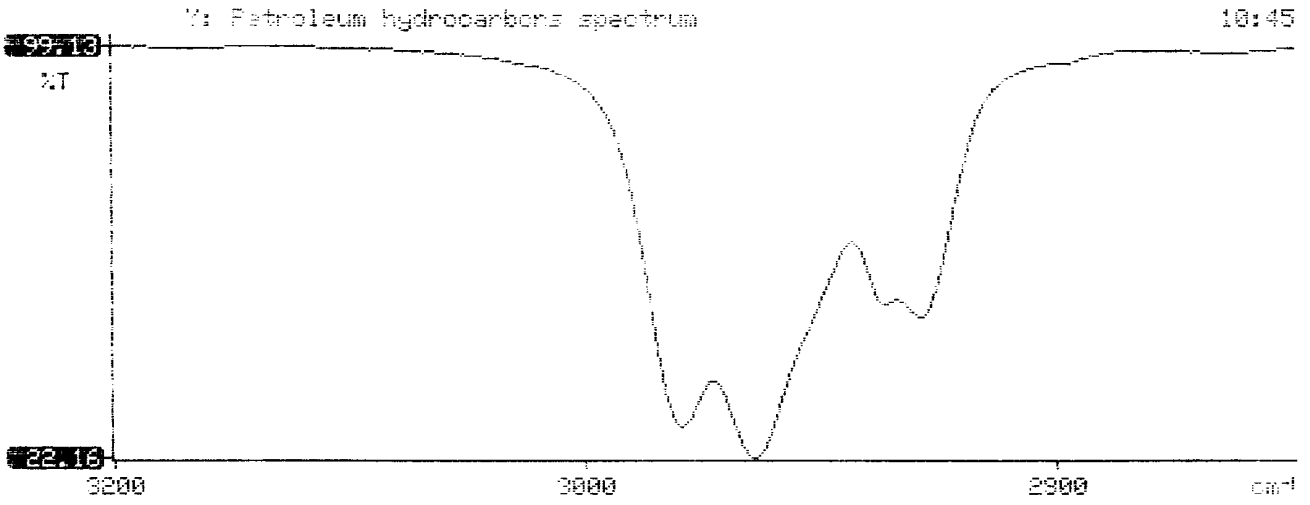


BTEX SOIL SAMPLE WORKSHEET

File	: 946558A	**Date Printed**	: 1/16/95		
Soil Mass (g)	: 4.95	**Multiplier (L/g)**	: 0.00101		
Extraction vol. (mL)	: 20	**DF (Analytical)**	: 266.667		
Shot Volume (uL)	: 75	**DF (Report)**	: 0.26936		

				Det. Limit
Benzene (ug/L)	: 22.51	**Benzene (mg/Kg):**	**6.063**	1.347
Toluene (ug/L)	: 211.38	**Toluene (mg/Kg):**	**56.937**	1.347
Ethylbenzene (ug/L)	: 99.78	**Ethylbenzene (mg/Kg):**	**26.877**	1.347
p & m-xylene (ug/L)	: 595.12	p & m-xylene (mg/Kg):	160.302	2.694
o-xylene (ug/L)	: 274.82	o-xylene (mg/Kg):	74.026	1.347
		Total xylenes (mg/Kg):	**234.327**	4.040
		Total BTEX (mg/Kg):	**324.205**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

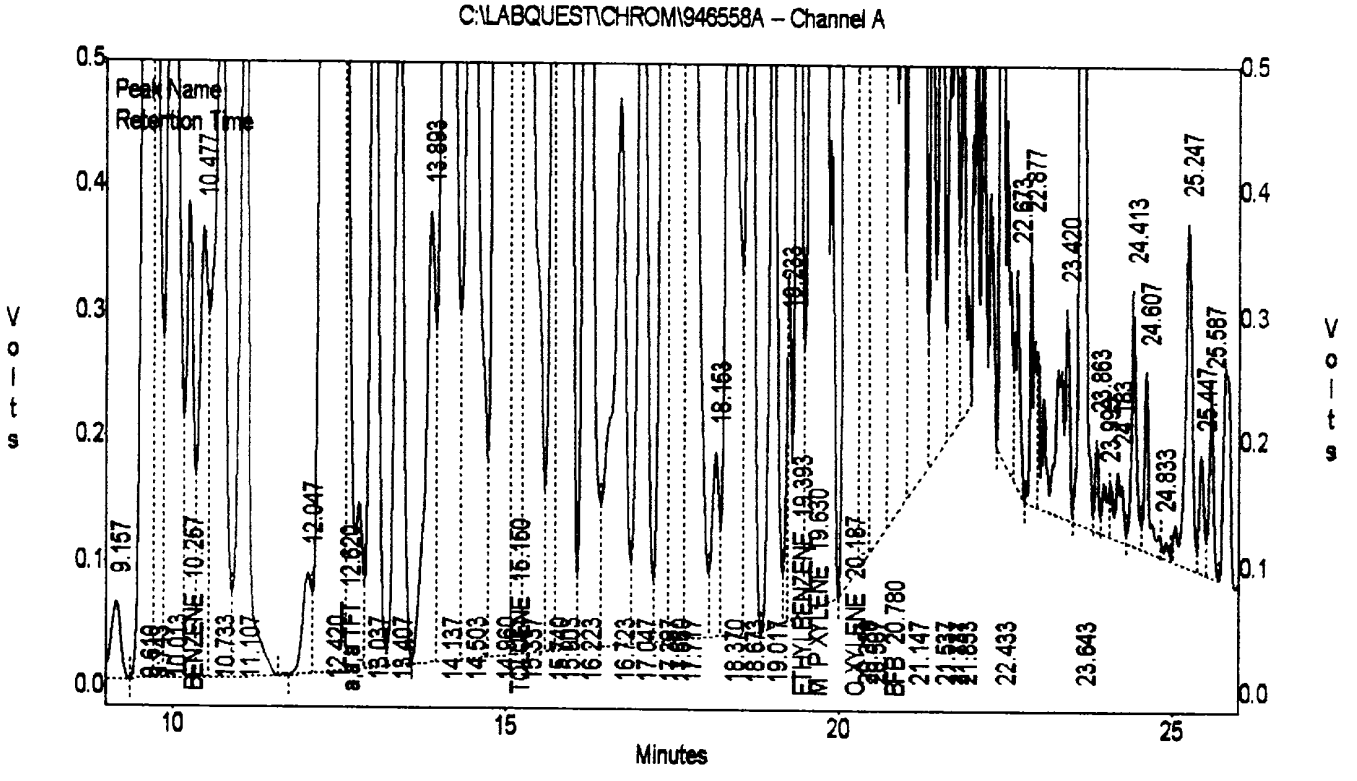
File : C:\LABQUEST\CHROM\946558A
Method : C:\LABQUEST\METHODS\SOILS.MET
Sample ID : 946558,4.95G/75uL
Acquired : Jan 13, 1995 00:39:14
Printed : Jan 13, 1995 01:05:28
User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.257	2995010	139592.09375	22.5149
a,a,a TFT	12.620	3531560	6372.49561	479.0377
TOLUENE	15.150	28210506	169100.54688	211.3751
ETHYLBENZENE	19.393	11770427	129068.31250	99.7848
M & P XYLENE	19.630	79014184	178734.17188	595.1165
O XYLENE	20.187	30275404	127976.28906	274.8220
BFB	20.780	32549216	232900.28125	138.4324

Totals :

188346304		1821.0835

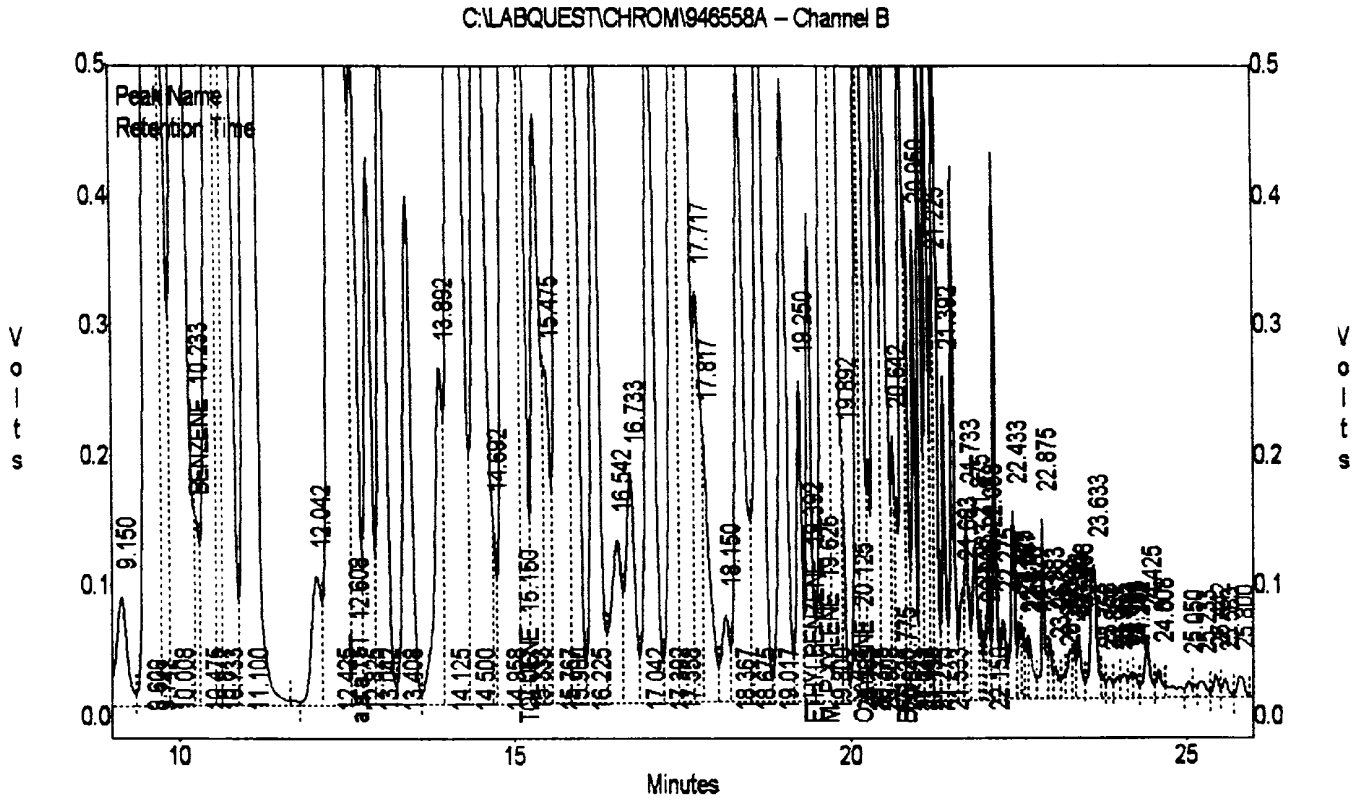


EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM\946558A
Method : C:\LABQUEST\METHODS\SOILS.MET
Sample ID : 946558,4.95G/75uL
Acquired : Jan 13, 1995 00:39:14
Printed : Jan 13, 1995 01:05:35
User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	10.233	681175	20735.91406	33.6028
a,a,a TFT	12.608	3531972	1914.54138	1751.0477
TOLUENE	15.150	4106700	21257.20508	204.5912
ETHYLBENZENE	19.392	1893390	19772.41406	98.8614
M & P XYLENE	19.625	11932246	20137.20898	602.1283
O XYLENE	20.125	2206670	19526.79688	116.7437
BFB	20.775	4493994	25983.21484	170.8183
Totals :		28846148		2977.7935



PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Project Name EPNG Pits
Project Number 14509 Phase ~~601~~ 6000
Project Location Rincon Unit #154, 73319

Elevation
Borehole Location T27, R6, S.30, O
GWL Depth
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 9/19/95, 1130
Date/Time Completed 9/19/95, 1335

Well Logged By S.Kelly
Personnel On-Site M. Donohue, C. Millican
Contractors On-Site
Client Personnel On-Site

Drilling Method 4¼" ID HSA
Air Monitoring Method CGI, PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ	BH	S	Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										Drilling gets hard at 10!
15										Drilling is very slow.
20	1	18-20	No rec.							
25	2	23-25	.5'/20'	Jayey SILT, reddish brown, 5-20% clay, dense, dry.		27			211/598	1204
30	3	28-30	.6'/2.0'	Jayey SILT, grey, 5-20% clay, dense, dry					80/622	1217
35	4	33-35	.5'/2.0'	SAA					100/297	1230
40				TOB - 35.0' Auger refusal at 33' Drove split spoon to 35'						

Comments: 33'-35' sample (SEK 88) sent to lab. BH grouted to surface.

Geologist Signature Sarah Kelly

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:	SEK88	947495
MTR CODE | SITE NAME:	73319	Kinson Unit #154
SAMPLE DATE | TIME (Hrs):	09-19-95	1230
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	9-20-95	
DATE OF BTEX EXT. | ANAL.:	9/20/95	9/22/95
TYPE | DESCRIPTION:	V6	Grey Sand and Sandstone

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	74.3	MG/KG			1.96	28
HEADSPACE PID	297	PPM				
PERCENT SOLIDS	95.1	%				

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

The Surrogate Recovery was at 98% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 9-26-95

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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               *
**************************************************
*
 95/09/20  14:56
*
*  Sample identification
 947495
*
*  Initial mass of sample, g
 1.960
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 74.324
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.019
*
*
*
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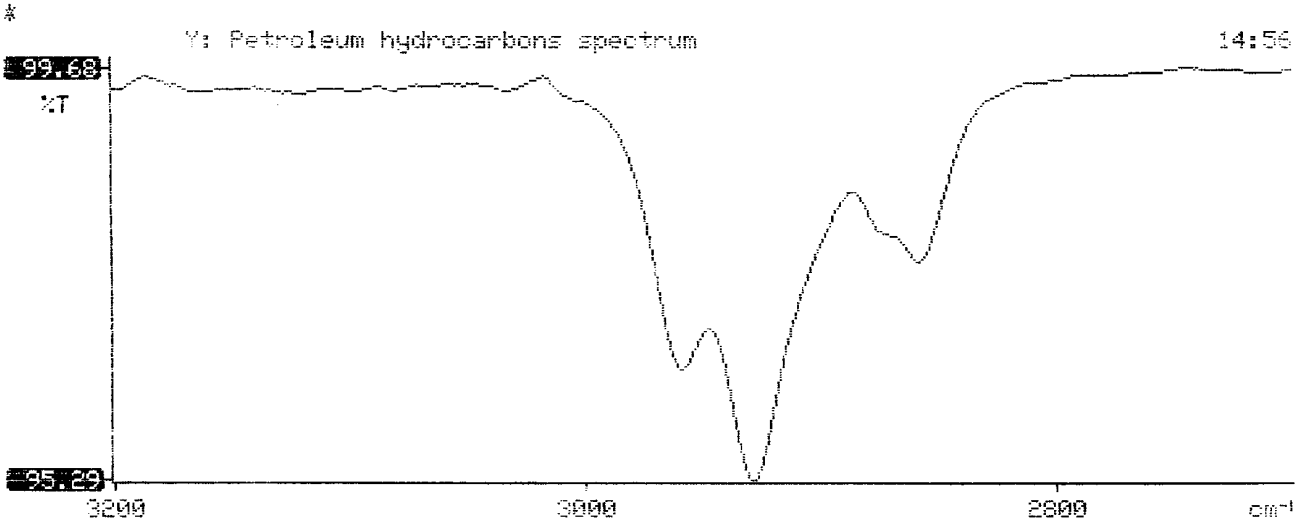

BTEX SOIL SAMPLE WORKSHEET

File	947495	**Date Printed**	9/25/95
Soil Mass (g)	5.05	**Multiplier (L/g)**	0.00099
Extraction vol. (mL)	10	**DF (Analytical)**	200
Shot Volume (uL)	50	**DF (Report)**	0.19802

				Det. Limit
Benzene (ug/L)	0.00	**Benzene (mg/Kg):**	**0.000**	0.495
Toluene (ug/L)	0.86	**Toluene (mg/Kg):**	**0.170**	0.495
Ethylbenzene (ug/L)	0.57	**Ethylbenzene (mg/Kg):**	**0.113**	0.495
p & m-xylene (ug/L)	3.67	p & m-xylene (mg/Kg):	0.727	0.990
o-xylene (ug/L)	0.56	o-xylene (mg/Kg):	0.111	0.495
		Total xylenes (mg/Kg):	**0.838**	1.485
		Total BTEX (mg/Kg):	**1.121**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092295-0.006
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947495,5.05G,50U
Acquired : Sep 22, 1995 13:01:00
Printed : Sep 22, 1995 13:31:27
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.140	0	0.0000
a,a,a-TFT	10.433	8229454	94.0662
TOLUENE	12.850	313207	0.8606
ETHYLBENZENE	17.237	191389	0.5685
M,P-XYLENES	17.580	1473685	3.6733
O-XYLENE	18.763	181954	0.5557
BFB	19.857	53219888	97.6367