EPFS PIT CLOSURE SUMMARY

Denny G. Foust
DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Approved

Rincon Unit # 25
Meter/Line ID - 70880

SITE DETAILS

Legals - Twn: 27 **Rng:** 7 **Sec:** 36 **Unit:** A
NMOCD Hazard Ranking: 20 **Land Type:** STATE
Operator: UNOCAL

PREVIOUS ACTIVITIES

Site Assessment: 11/15/94 **Excavation:** 11/23/94 **Soil Boring:** 8/28/95
Monitor Well: N/A **Re-Excavation:** N/A **Geoprobe:** N/A

CONCLUSIONS

The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID field screening indicated subsurface soils to be 778 ppm at 12 feet bgs. Excavation was terminated and a sample was collected and analyzed for BTEX and TPH. Sample analysis indicated total BTEX to be above standards at 181 mg/kg and TPH was above standards at 5,230 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soils. The soil lithology beneath the initial excavation consisted of a tan, fine to medium grained sand, which continued to approximately 21 feet bgs. At 21 feet bgs a hard tan silty sand (possible sandstone) was encountered, which graded to a gray silt at 26 feet bgs and continued to the termination of the boring at 30 feet bgs. A sample was collected for BTEX and TPH analysis at 28-30 feet bgs. Laboratory analysis showed total BTEX to be below laboratory detection limits and TPH present at 39.6 mg/kg.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 16 feet beneath the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils 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: 70880 Location: Rincon unit #25

Operator #: _____ Operator Name: UNOCAL P/L District: Blanco

Coordinates: Letter: A Section 36 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Assessment Date: 11/15/94 Area: 03 Run: 62 22 Pillsbury

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 _____

(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: 20 **POINTS**

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OIL CON. DIV.
DIST. 3

REMARKS

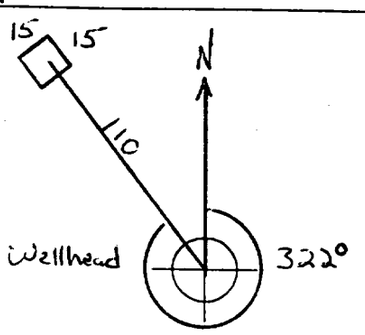
Remarks : TOPO Inside Redline - Inside

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 322° Footage from Wellhead 110'

b) Length : 15 Width : 15 Depth : 0



REMARKS

Remarks :

Pictures (5-8) 0915 Roll-4
Pit appeared to be moved all measurements taken from approximate center of old pits Approximate center of old pit marked w/ Survey lath

Completed By:

Scott T. Pope
Signature

11/15/94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70880 Location: Rincon Unit #25

Coordinates: Letter: A Section 36 Township: 27 Range: 7

Or Latitude _____ Longitude _____

Date Started : 11/23/94 Run: 03 22

FIELD OBSERVATIONS

Sample Number(s): KD 327 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 778 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 90
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☒	☐	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 11/23/94 Pit Closed By: BEI

REMARKS

Remarks : Unocal had previously covered pit. Removed Approximately 13 yds of Backfill, Excavated pit to 12', took PID Sample, closed Pit.

Signature of Specialist: Henry Deaton

(SP3181) 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:	KD377	946509
MTR CODE | SITE NAME:	70880	Rincon Unit #25
SAMPLE DATE | TIME (Hrs):	23-Nov-94	1400
PROJECT:	Phase I Excavation	
DATE OF TPH EXT. | ANAL.:	11/29/94	11/29/94
DATE OF BTEX EXT. | ANAL.:	12/1/94	12/3/94
TYPE | DESCRIPTION:	VC	Brown Sand and Clay

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<1.2	MG/KG				
TOLUENE	12	MG/KG				
ETHYL BENZENE	130	MG/KG				
TOTAL XYLENES	38	MG/KG				
TOTAL BTEX	181	MG/KG				
TPH (418.1)	5,230	MG/KG		•	2.08	28.0
HEADSPACE PID	778	PPM				
PERCENT SOLIDS	82.7	%				

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

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

Narrative:

Analytical Technologies analyzed this sample. * = The surrogate recovery was not obtainable due to sample dilution.

DF = Dilution Factor Used

Approved By: John Sanders

Date: Original - 12/27/94 Reprint - 2/10/98

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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                     *
**********************************************************
*
 94/11/29 '14:53
*
*  Sample identification
 946509
*
*  Initial mass of sample, g
 2.080
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 5226.879
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.673
*
*
*
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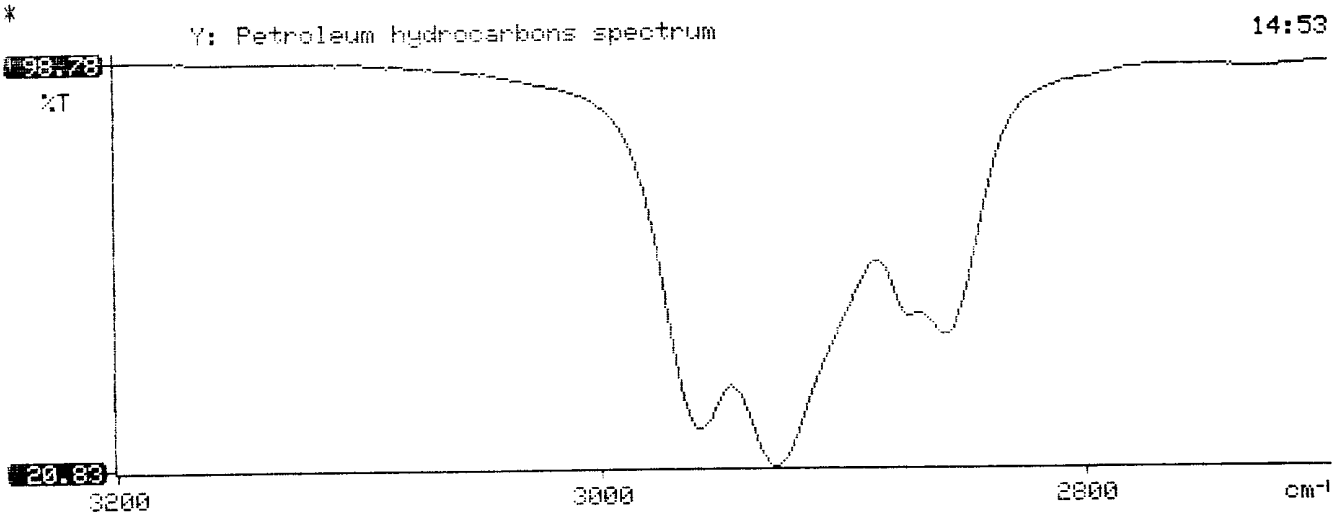

Analytical Technologies, Inc.
2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. **411401**

December 7, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **11/30/94**, 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.

Letitia Krakowski, Ph.D.
Project Manager

H. Mitchell Rubenstein, **Ph.D.**
Laboratory Manager

MR:jt

Enclosure

DEC 1994

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 411401

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
07	946509	NON-AQ	11/23/94	12/01/94	12/03/94	50
08	946510	NON-AQ	11/23/94	12/01/94	12/03/94	50
09	946511	NON-AQ	11/28/94	12/01/94	12/03/94	50

PARAMETER	UNITS	07	08	09
BENZENE	MG/KG	<1.2	2.7	<1.2
TOLUENE	MG/KG	12	42	13
ETHYLBENZENE	MG/KG	130	160	120
TOTAL XYLENES	MG/KG	38	11	45
SURROGATE:				
BROMOFLUOROBENZENE (%)		NA*	NA*	NA*

*SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

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 #25, 70880

Elevation
Borehole Location T27, R7, S.36, H
GWL Depth
Logged By S.Kelly
Drilled By M. Donohue
Date/Time Started 5/28/95, 1415
Date/Time Completed 5/29/95, 1610

Well Logged By S.Kelly
Personnel On-Site M. Donohue, J. O'Keefe
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 5/15 BZ	Air Monitoring Units: NDU 5/15 BH	Air Monitoring Units: NDU 5/15	Drilling Conditions & Blow Counts
0				Backfill to 12'.						
5										
10										
15										
20	1	18-26	.6'/2.0'	SAND, tan, fine to med. sand, dense, dry		21			62/278	1441 Hard drilling, like rock.
25	2	23-25	1.0'/2.0'	silty SAND, tan, 5-20% silt, fine sand, dense, dry		26			12/219	1446
30	3	28-30	.5'/2.0'	SILT, grey, dense, dry					6/4	1503
35				TOB - 30.0'						
40										

Comments: 28'-30' sample (SEK 71) sent to lab (BTEX & TPH.) Sample was bagged & iced prior to being put in jar. 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:	SEK71	947344
MTR CODE | SITE NAME:	70880	Rincon Unit #25
SAMPLE DATE | TIME (Hrs):	08-28-95	1503
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/29/95	
DATE OF BTEX EXT. | ANAL.:	8/30/95	9/3/95
TYPE | DESCRIPTION:	V6	Grey sand & 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)	RLP 9/18/95 40 39.6	MG/KG			2.01	28
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	90.7	%				

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

The Surrogate Recovery was at 93% for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: J-L Date: 9-7-95

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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                     *
**********************************************************
*
 95/08/29  14:18
*
*  Sample identification
 947344
*
*  Initial mass of sample, g
 2.010
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 39.559
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.015
*
*
*
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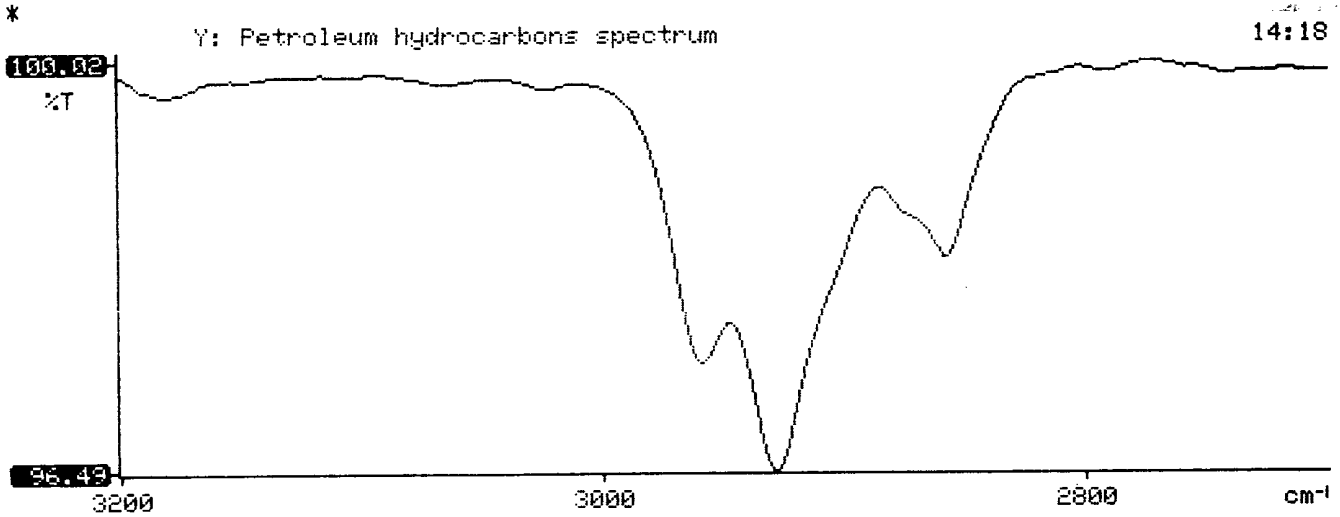

BTEX SOIL SAMPLE WORKSHEET

File	:	7344	Date Printed	:	9/6/95
Soil Mass (g)	:	5.00	Multiplier (L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analytical)	:	200
Shot Volume (uL)	:	100	DF (Report)	:	0.20000

					Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg):	0.000	0.500
Toluene (ug/L)	:	0.29	Toluene (mg/Kg):	0.058	0.500
Ethylbenzene (ug/L)	:	0.00	Ethylbenzene (mg/Kg):	0.000	0.500
p & m-xylene (ug/L)	:	0.00	p & m-xylene (mg/Kg):	0.000	1.000
o-xylene (ug/L)	:	0.00	o-xylene (mg/Kg):	0.000	0.500
			Total xylenes (mg/Kg):	0.000	1.500
			Total BTEX (mg/Kg):	0.058	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090395-1.007
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947344,5.00G,100U
Acquired : Sep 02, 1995 18:39:52
Printed : Sep 04, 1995 08:27:57
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.957	2136597	89.7764
TOLUENE	6.790	291266	0.2930
ETHYLBENZENE	10.557	67824	-0.1555
M & P XYLENE	10.913	386944	-2.0563
O XYLENE	11.950	0	0.0000
BFB	13.453	32822432	93.4454