## Renny EPFS PIT-CLOSURE SUMMARY

#### **DEPUTY OIL & GAS INSPECTOR**

TWING TO THE PROPERTY OF A SECOND SEC

JUL 1 7 1998

Atlantic B LS 5 Meter/Line ID - 70109

SITE DETAILS

Legals - Twn: 30 Rng: NMOCD Hazard Ranking: 40

**R**ng: 10 Sec: 5

Unit: B

Land Type: BLM

Operator: Amoco

PREVIOUS ACTIVITIES

Site Assessment: 8/16/94 Monitor Well: N/A Excavation: 9/14/94 Re-Excavation: N/A

Soil Boring: 7/26/95 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 165 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be above standards at 183 mg/kg and TPH was above standards at 4,770 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of impact to soil. The soil lithology beneath the excavation consisted of a dark gray, silty clay, which continued to approximately 22 feet bgs. At 22 feet bgs a gray, fine to medium grained silty sand was encountered and continued to approximately 27 feet bgs. At 27 feet bgs the soil lithology changed again to a black, nonplastic silty clay, which continued to the termination of the boring at 35 feet bgs. A soil sample was collected for BTEX and TPH analysis at 33-35 feet bgs. Laboratory analysis showed total BTEX and TPH to be below standards at .027 mg/kg and 43.4 mg/kg respectively.

#### 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 21 feet beneath the initial excavation.
- The excavation was terminated in a clay material.
- 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

l	· Commence of the second of th
GENERAL	Meter: 70-109 Location: Atlantic B 155  Operator #: 0203 Operator Name: Amoco ProductionP/L District: Aztec  Coordinates: Letter: B Section 5 Township: 30 Range: 10  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: X Line Drip: Other:  Site Assessment Date: 8/16/94 Area: Area: Run: 63
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Outside  (2)  Indian  Depth to Groundwater  Less Than 50 Feet (20 points)  Greater Than 100 Ft (0 points)  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?  Is it less than 1000 ft (1) YES (20 points)  Horizontal Distance to Surface Water Body  Less Than 200 Ft (20 points)  Greater Than 1000 Ft (10 points)  (2)  Greater Than 1000 Ft (10 points)  (3)  MAR - 9 1998  Greater Than 1000 Ft (0 points)
70	TOTAL HAZARD RANKING SCORE: 40 POINTS
REMARKS	Remarks: Realine Book-Inside Vulnerable Zone Topa- Inside Five pits, location drip pit has liquid in it, Will 105e one pit:
24	DTG + HAUL

## PHASE I EXCAVATION

## FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70109 Location: A+LANTIC B LS5  Coordinates: Letter: B Section S Township: 30 Range: 10  Or Latitude Longitude  Date Started: 9-14-94 Run: 04 63
FIELD OBSERVATIONS	Sample Number(s):
CLOSURE	Remediation Method:  Excavation Onsite Bioremediation Backfill Pit Without Excavation  Soil Disposition: Envirotech Other Facility Name:  Pit Closure Date: 9-14-94  Pit Closed By: B.E.T.
PEWARKS	
	Signature of Specialist: Luly Paulle (SP3191) 03/16/9



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

	Fie	id ID		Lab ID	_	
SAMPLE NUMBER:	KP2		944	123		
MTR CODE   SITE NAME:	7018			N/A		
SAMPLE DATE   TIME (Hrs):	9-14-	9-14-94		1400		
SAMPLED BY:		١	I/A		_	
DATE OF TPH EXT.   ANAL.:	9-15-	94	9.	15-94	_	
DATE OF BTEX EXT.   ANAL.:	9-19	.94	Q -	19-9-		
TYPE   DESCRIPTION:		VC		Brown Sand + Chay		
REMARKS:						
		RESULTS				
PARAMETER	RESULT	UNITS		QUALIFIERS		
LWIMIETER			DE .	O M(a)	V/ml	

PARAMETER	RESULT	UNITS		QUALIFIE	RS	
PANAIVIETER	784 28 J		DF	Q	M(g)	≥ V(ml)
BENZENE	۷٥٠٤	MG/KG	20			
TOLUENE	<0.5	MG/KG	20			
ETHYL BENZENE	12	MG/KG	20			
TOTAL XYLENES	170	MG/KG	20			
TOTAL BTEX	DIR 183	MG/KG				
TPH (418.1)	4770	MG/KG			1.80	28
HEADSPACE PID	165	PPM				
PERCENT SOLIDS	86.1	%	y 1			

<u> </u>	TPH is by EPA Method 418.1 and BTEX is by E	PA Method 80	020	
The Surrogate Recovery was at	% for this sampl	e All QA	/QC was acceptable.	
Narrative:	a Hachia. Surrogale Reco		LTA spirite acce	ac ac
	matrix interference	2		
DF = Dilution Factor Used	WILLY TO BE SEEN TO SEE SEE			
			12 12 12 12	
Approved By:		Date: _	10/23/4[/	_

```
Test Method for
*
     Oil and Grease and Petroleum Hydrocarbons
                                             *
               in Water and Soil
75
          Perkin-Elmer Model 1600 FT-IR
                Analysis Report
******************
寨
94/09/15 15:43
^{*}
*
  Sample identification
946123
*
  Initial mass of sample, g
 1.800
  Volume of sample after extraction, ml
李
  Petroleum hydrocarbons, ppm
 4766.203
  Net absorbance of hydrocarbons (2930 cm-1)
0.533
求
                                                         15:43
        Y: Petroleum hydrocarbons spectrum
100,49
  2.T
```

3000

3200

2899

 $cm^{-1}$ 



ATI I.D. 409367

September 22, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 09/16/94, 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

MR:jt

Enclosure





#### GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 409367

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE		·	DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
10	946123	NON-AQ	09/14/94	09/19/94	09/19/94	20
11	946124	NON-AQ	09/14/94	09/19/94	09/19/94	1
12	946125	NON-AQ	09/14/94	09/19/94	09/19/94	20
PARAME	TER		UNITS	10	11	12
BENZEN	E		MG/KG	<0.5	<0.025	15
TOLUEN	E		MG/KG	<0.5	0.028	230 D(50)
ETHYLB	ENZENE		MG/KG	12	<0.025	28
TOTAL	XYLENES		MG/KG	170	0.046	330
SURROG	ATE:					
BROMOF	LUOROBENZENE (%)			118*	102	78

\*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE D(50)=DILUTED 50X, ANALYZED 09/21/94

# PHASE II

#### RECORD OF SUBSURFACE EX PRATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401 (506) 326-2262 FAX (505) 326-2388

Elevation
Borehole Location 730, R10, 5.5, B

GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed 7/26/95, 1630

Boréhole # BH | Of |

 Project Name
 EPNG Pits

 Project Number
 14509
 Phase
 601600

 Project Location
 4Hante 8455
 70109

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Drilling Method 4/4/TD H5/H
Air Monitoring Method CGI, PID

	Sample Sample Number Interval		Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Monito nits: NI BH	rim P <sup>U</sup> S[H	Drilling Conditions & Blow Counts
0		10 10 -10 10 10 10 10 10 10 10 10 10 10 10 10 1	Backfill to 12  Silty CLAY, dkgrey, 10-2590 silt, very soft, dampinonplastic  Silty SAND, grey, fine to Med. sand, loose, damp. trace clay-5-1590  Silty CLAY, black, 10- 2590 silt, soft, damp, nonplastic  SAA turning to a more brownish color.  BOH-35.0		22			-0905  0910-will continue drilling sample is still very grey, kind of smally  0926-will continue-sam reason as abo  0935

Comments:

33:35' sample (SEK39) sent to lab (BTEX4TPH) sample was bagged and iced prior to being put in jet. BH grouted to surface.

Geologist Signature

South Relly



### FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	SEK 39	947084
MTR CODE   SITE NAME:	70109	N/A
SAMPLE DATE   TIME (Hrs):	07-26-95	09:35
SAMPLED BY:		N/A
SAMPLED BY: DATE OF TPH EXT.   ANAL.:	07-2 <b>9</b> -95	N/A 07-27-95
<b>†</b>	07-2 <b>9</b> -95 8-1-95	

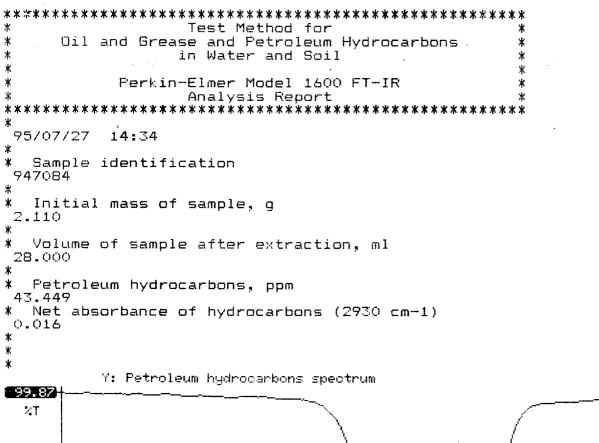
REMARKS:	

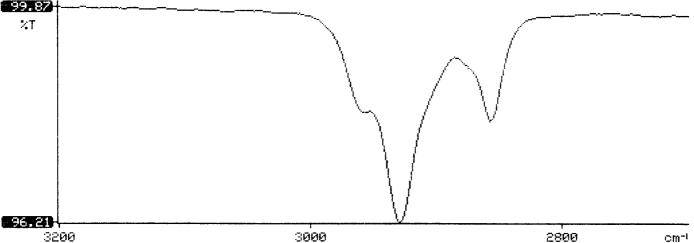
#### **RESULTS**

PARAMETER	RESULT	UNITS		QUALIFIERS		
			DF	Q	- M(g)	V(ml)
BENZENE	20.025	MG/KG				
TOLUENE	20.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	)			
TOTAL XYLENES	0.027	MG/KG				
TOTAL BTEX	0.027	MG/KG				
TPH (418.1)	43.4	MG/KG			2.11	28
HEADSPACE PID	12	PPM				
PERCENT SOLIDS	85.4	%				34286, c. j

-- 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. DF = Dilution Factor Used

Approved By:





14:34



ATI I.D. 508302

August 11, 1995

El Paso Natural Co. P.O. Box 4990 Farmington, NM 87439

Project Name/Number: PIT CLOSURE/PHASE I & II 24324

Attention: John Lambdin

On **08/01/95**, 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.

Kimberly D. McNeill

Project Manager

MR:jt

Enclosure

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager



#### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 508302

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947083	NON-AQ	07/26/95	08/01/95	08/01/95	1
02	947084	NON-AQ	07/26/95	08/01/95	08/01/95	1
03	947085	NON-AQ	07/26/95	08/01/95	08/01/95	1
PARAME	TER		UNITS	01	02	03
BENZEN	E		MG/KG	<0.025	<0.025	<0.025
TOLUEN	E		MG/KG	<0.025	<0.025	<0.025
ETHYLE	ENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES		MG/KG	<0.025	0.027	<0.025
SURROG	ATE:	•				
BROMOF	LUOROBENZENE (	%)		101	99	104