EPFS PIT CLOSURE ŞUMMARY

DEPUTY OIL & GAS INSPECTOR

JUL 1 7 1998

Atlantic A LS 1 Meter/Line ID - 70096

SITE DETAILS

Legals - Twn: 31 Rng: 1

NMOCD Hazard Ranking: 🏚

Operator: Amoco

Sec: 27 Unit: H

Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 8/31/94 Monitor Well: N/A Excavation: 9/14/94 Re-Excavation: N/A Soil Boring: 8/2/95 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 411 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX to be below standards at 43.8 mg/kg and TPH was above standards at 2,450 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 gray, coarse grained sand, which continued to approximately 53 feet bgs. At 53 feet bgs the soil lithology changed again to a dark gray, clayey sand, which continued to the termination of the boring at 55 feet bgs. A soil sample was collected for BTEX and TPH analysis at 53-55 feet bgs. Laboratory analysis showed total BTEX and TPH to be below standards at 1.22 mg/kg and 55.2 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 41 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.

DECEIVED N MAR - 9 1998

OIL CON. DIV. DIST. 3

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 70-096 Location: Atlantic A LS Operator #: 0203 Operator Name: Production P/L District: M2+ec Coordinates: Letter: # Section 27 Township: 31 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: \$\frac{5}{31/94}\$ Area: \$\frac{04}{24}\$ Run: \$\frac{6}{24}\$
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; ls it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (10 points) Greater Than 1000 Ft (10 points) Copyright Greater Than 1000 Ft (10 points) Greater Than 1000 Ft (0 points) Greater Body Greater Body Ferennial 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:
REMARKS	Remarks: Realine Book - Inside Vulnerable Zone Tape- Inside Four pits, location drip pit is dry. Will close one pit
REN	DIG 9 HAUL

PHASE I EXCAVATION

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FIELD PIT REMEDIATION/CLOSURE FORM

GENERAĹ	Meter: 70096 Location: Atlantic A 45 1 Coordinates: Letter: H Section 27 Township: 31 Range: 10 Or Latitude Longitude Longitude Longitude Run: 04 61
FIELD OBSERVATIONS	Sample Number(s): KD 759 Sample Depth: 12' Feet Final PID Reading 411 ppm PID Reading Depth 12' Feet Yes No Groundwater Encountered
CLOSTIRE	
PEWARKS	Remarks: Excavated pit to 12', 700K pip Sample, Closed pit. Signature of Specialist: My Jum (SP3181) 93/16/8

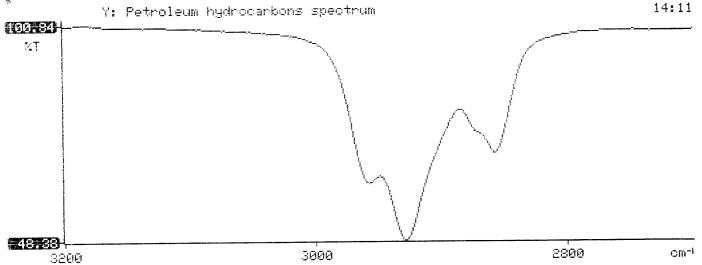


FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICA	TION				
	Field	I ID		Lab ID			
SAMPLE NUMBER:	KD 25	9	946124				
MTR CODE SITE NAME:	70096			N/A			
SAMPLE DATE TIME (Hrs):	9-14-6		160)5			
SAMPLED BY:			I/A	- /			
DATE OF TPH EXT. ANAL.:	9-15-	94	9-	15-94			
DATE OF BTEX EXT. ANAL.:			Blackcon	sand & Cl	201		
TYPE DESCRIPTION:	VC		100	Jane O G	40		
REMARKS:			,				
HEMARKS:							
		RESULTS	·				
	RESULT UNITS	UNITS		QUALIFIE	QUALIFIERS		
PARAMETER			DF	Q	M(g)	V(ml)	
BENZENE	0.81	MG/KG					
TOLUENE	2.5	MG/KG					
ETHYL BENZENE	3.5	MG/KG					
TOTAL XYLENES	37	MG/KG					
TOTAL BTEX	43.8	MG/KG					
TPH (418.1)	2450	MG/KG			204	28	
HEADSPACE PID	411	PPM		e roky.			
PERCENT SOLIDS	91.4	%	gi e i i				
	TPH is by EPA Metho				abla		
The Surrogate Recovery was at Narrative:	152	% for this sam	ple All QA/Q0	was accept	able.		
DE - Dilution Factor Used	V (3)						

Test Method for Oil and Grease and Petroleum Hydrocarbons * in Water and Soil 火. * Perkin-Elmer Model 1600 FT-IR 盘 Ý Analysis Report ****************** * 94/09/15 14:11 李 Sample identification * 946126 求 Initial mass of sample, g 2.040 * Volume of sample after extraction, ml * 28.000 求 * Petroleum hydrocarbons, ppm 2448.818 Net absorbance of hydrocarbons (2930 cm-1) 0.315 Ж * #





ATI I.D. 409367

October 27, 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.

This report is being reissued to correct surrogate recovery notations on samples 946108 and 946126.

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

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





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

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

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

	SAMPLED	EXTRACTED	ANALYZED	DIL. FACTOR	
NON-AQ	09/14/94	09/19/94	09/19/94	20	
	UNITS	13			
	MG/KG	0.81			
	MG/KG	2.5			
MG/KG		3.5			
	MG/KG	37			
	NON-AQ	UNITS MG/KG MG/KG MG/KG	UNITS 13 MG/KG 0.81 MG/KG 2.5 MG/KG 3.5	UNITS 13 MG/KG 0.81 MG/KG 2.5 MG/KG 3.5	

SURROGATE:

BROMOFLUOROBENZENE (%)

152*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

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RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 328-2262 FAX (505) 326-2388

Elevation

Borehole Location T31 R 10, 527 H

GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed

Date/Time Completed

Borehole # BH Page of 2

Project Name EPNG Pits

Project Number 14509 Phase 601 6060

Project Location Atlantic A LS | 70 - 096

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

Drilling Method 4/4/1 HS A
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 Soil to	•				
10			,	12'					•
15					•				encountries hand unit
20)	18-20	6/2	SAND, 6 cay denne, cooms grains quants constituents not well rounded. dry				192/	8152
25	2	23-25	15/5	Sant, Light gray, coons grain, boxed				399/ /518	9100 .
30	3	⊃8 ⁷ -30	3/2	s.A.A.				308/	9:07 8
35	4	33-35	0/15	s.A.A				139/ /30	9:16
40	. 5	38-4T	52	5.A.A				100	9:24

Comments:	
	Geologist Signature

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp. 4000 Monroe Road Farmington, New Mexico 87401 (506) 328-2262 FAX (506) 328-2388

Elevation
Borehole Location
GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed
Date/Time Completed
Date/Time Completed
Date/Time Started

Borehole # B H # 1
Well #
Page 2 of 2

Project Name EPNG Pits

Project Number 14509 Phase 601 6000

Project Location At article A LS 70 - 096

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

Drilling Method

Air Monitoring Method

CGI, PID

			,			Depth				·
			Sample	Samala Barasiasian	uscs	Lithology	Δie	Monitor	ina	Drilling Conditions
Depth	Sample	Sample	Type &	Sample Description	Symbol	Change		nits: ND	-	& Blow Counts
(Feet)	Number	interval	Recovery	Classification System: USCS	3,	(feet)	BZ	вн	s/s	
<u> </u>	_		(inches)						, ,	*
Γ— 45°										
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50	6	48-50		Notable to reconcer sample.						71,
 	•	48.20		sample.						
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 - -,	7	53-55		clarey sand (20% clay), denk					A3	1
10	,	l		May, SHIFF, Dry						
 -		1	1	201	I					
I├─ │				clayer sand (20% clay), dank gray, StiFF, Dry Boring terminated at 55'						
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Comments: Sample Collected at 53'to 55'. Analysis to be run (BTEX, TPH). Sample Collected First placed in baggy with O head space and stored in cooler at 4°C AFRINGAL Soil was placed in Sample time 5 minutes. BH. growthed to sur Face Geologist Signature



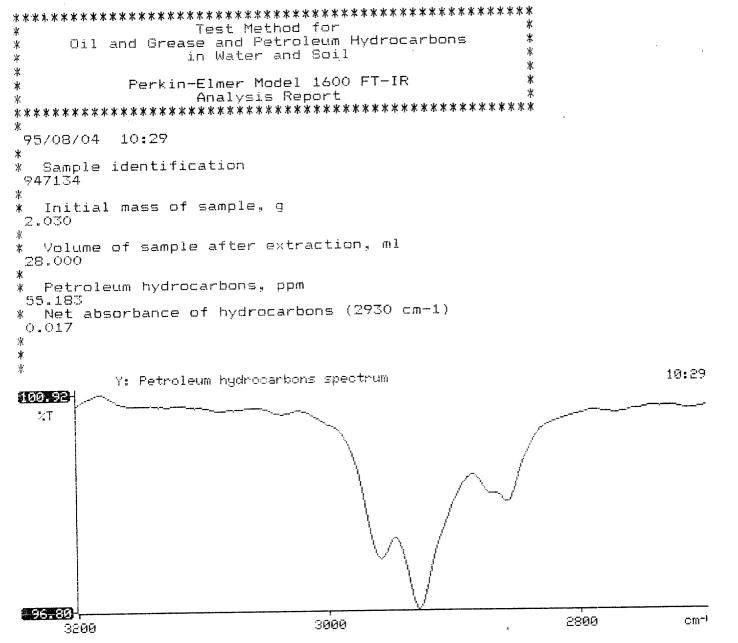
FIELD SERVICES LABORATORY ANALYTICAL REPORT

AtlanticALSI

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	SAMPLE	IDENTITION				
	Field	ID		Lab ID		
SAMPLE NUMBER:	5EK 50		9471	34		
MTR CODE SITE NAME:	70096			N/A		
SAMPLE DATE TIME (Hrs):	8/2/95		09:4	14		
SAMPLED BY:		N//		1 00		
DATE OF TPH EXT. ANAL.:	8-4-9		8-4	1-95		
DATE OF BTEX EXT. ANAL.:	8-9-6	75	8-10 Grey San	1 × 0h		
TYPE DESCRIPTION:	VG		grey)311	d (100		
REMARKS:						
		RESULTS				
			T is			
PARAMETER	RESULT	UNITS		QUALIFIERS		- 11
			DF ,	<u> </u>	M(g)	V(ml)
BENZENE	0.57	MG/KG	l			
TOLUENE	0.47	MG/KG	1		_	
ETHYL BENZENE	20.025	MG/KG				
TOTAL XYLENES	0.18	MG/KG	1			
TOTAL BTEX	1.22	MG/KG		<u> </u>		
TPH (418.1)	55:2	MG/KG			2.03	28
HEADSPACE PID	23	PPM				
PERCENT SOLIDS	90.2	%	No. of the state o			
	_	d 418.1 and BTEX is by E			ntable.	
The Surrogate Recovery was at	99	_% for this sampl	e All UA/U	c was accer	ilaule.	
Narrative: ATIRES	Itsatta	Led.				
	-					
DF = Dilution Factor Used				,	/. /	





ATI I.D. 508342

August 11, 1995

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

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

Attention: John Lambdin

On 08/08/95, 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

Malall

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.: 508342

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	E CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	947134	NON-AQ	08/02/95	08/09/95	03/10/95	1
02	947135	NON-AQ	08/02/95	08/09/95	08/09/95	1
03	947137	NON-AQ	08/02/95	08/09/95	08/ 09/95	1
PARAMI	ETER		UNITS	01	02	03
BELLEI	NE		MG/KG	0.57	<0.025	<0.025
TOLUE	NE		MG/KG	0.47	<0.025	0.052
ETHYL	BENZENE		MG/KG	<0.025	<0.025	<0.025
	XYLENES		MG/KG	0.18	<0.025	<0.025
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)			99	104	108