EPFS PIT CLOSURE SUMMARY

Rng: 8

DEPUTY OIL & GAS INSPECTOR

JUL 1 7 1998

Brookhaven Com D No. 5 Meter/Line ID - 70597

SITE DETAILS

Sec: 36

Unit: E

Land Type: STATE

Legals - Twn: 27 Ri NMOCD Hazard Ranking:

Operator: Meridian

PREVIOUS ACTIVITIES

Site Assessment: 6/13/94 Monitor Well: N/A

Excavation: 8/1/94 Re-Excavation: N/A Soil Boring: 7/21/95 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 470 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 199 mg/kg and TPH above standards at 9,270 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 brown, fine to coarse grained sand, which continued to approximately 30 feet bgs. At 30 feet bgs a brown, fine to coarse grained sandstone was encountered and continued to the termination of the boring at 35 feet bgs. A sample was collected for BTEX and TPH analysis at 30-31 feet bgs, due to the poor sample recovery. Laboratory analysis showed total BTEX to be below laboratory detection limits and TPH present at 59.5 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 18 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 MAR + 9 1958

OIL CON. DIV.

## FIELD PIT SITE ASSESSMENT FORM

	_
GENERAL	Meter: 70597 Location: Brookhaven Com D No. 5  Operator #: 2999 Operator Name: MOT P/L District: Ballard  Coordinates: Letter: E Section 36 Township: 27 Range: 8  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: Line Drip: Other:  Site Assessment Date: 6/13/94 Area: 07 Run: 51
	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  Depth to Groundwater  Less Than 50 Feet (20 points)  State (2)  (1)  Fee (3)  Indian  Depth to 99 Ft (10 points)  Greater Than 100 Ft (0 points)  (2)  Greater Than 100 Ft (0 points)
ASSESSMENT	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)
SITE AS	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 (Cotton Lond Carven) (off of Large)  DECE WAR - 9 1938
	(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, Vunterable Zone Topo-Inside
MAF	I pit. Will close Pit dry
RE	016+HAUL

### FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 70597 Location: BROOKhaven Com D No.5  Coordinates: Letter: E Section 36 Township: 27 Range: 8  Or Latitude Longitude  Date Started: 8-1-94 Run: 07 51
FIELD OBSERVATIONS	Sample Number(s): KP 160  Sample Depth: 12' Feet  Final PID Reading 470 PID Reading Depth 12' Feet  Yes No  Groundwater Encountered \( \Bar{\text{Y}} \) Approximate Depth Feet
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Name:
REMARKS	Pit Closure Date: 8-1-94 Pit Closed By: BET
	Signature of Specialist: Ally Padille (SP3191) 03/16/94



# FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

### SAMPLE IDENTIFICATION

-						
_	Field	ID	<u> </u>	Lab ID		
SAMPLE NUMBER:	KPI	945	945803			
MTR CODE   SITE NAME:	705		N/A			
SAMPLE DATE   TIME (Hrs):	8-1-9	74	114	10		
SAMPLED BY:		N	/A			
DATE OF TPH EXT.   ANAL.:	8-2-94			2 - 94		
DATE OF BTEX EXT.   ANAL.:	814194			194	101	
TYPE   DESCRIPTION:	VC		Blackie	rey San	nd Clay	1
				V	,	
REMARKS:						
		RESULTS				
		NESOE 15				
PARAMETER	RESULT	JLT UNITS	DF	QUALIF	IERS M(g)	V(ml)
	105		70			
BENZENE	20.5	MG/KG		<del> </del>		
TOLUENE	40.5	MG/KG	20			
ETHYL BENZENE	8.4	MG/KG	20			_
	190	MG/KG	20			
TOTAL XYLENES			1			
TOTAL BTEX	199	MG/KG			+	0.00
TPH (418.1)	9270	MG/KG			1.05	28
HEADSPACE PID	470	PPM		.*		
	914	%				
PERCENT SOLIDS	TPH is by EPA Method		A Method 8020 —			
The Surrogate Recovery was at	620	_% for this samp		C was accep	otable.	
Narrative:	Hacks	ed. Sim	made	re,cove		SAA
ATI results		its due	- (As	matrix	Mer	leren
DF = Dilution Factor Used				,	(	)
0 1	<i>P</i> .		Date:	9/2/49	/	
Approved By:	<del> </del>	····				

**ILLEGIBLE** 

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Perkin-Elmer Model 1400 FT-IR Analysis R**eport** 

94/08/02 14:20

Sample identification 945803

: Initial mass of sample, g i.050

Volume of sample after extraction, ml 25.000

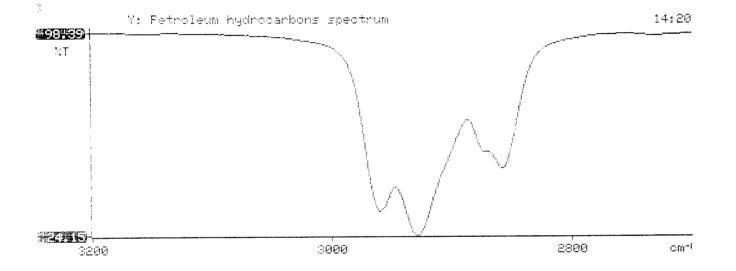
: Petroleum hydrocarbons, ppm 9271.973

Net absorbance of hydrocarbons (2930 cm-1)

0.609

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ATI I.D. 408313

August 12, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/03/94, 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.

8015 analysis was added on 08/08/94 for sample 945789 per John Lambdin.

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.

AUG 1994

Laboratory Manager

MR:jt

Enclosure

Corporate Offices: 5550 Morenouse Drive San Diego, CA 92121 (619) 458-9141



#### GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 408313

PROJECT #

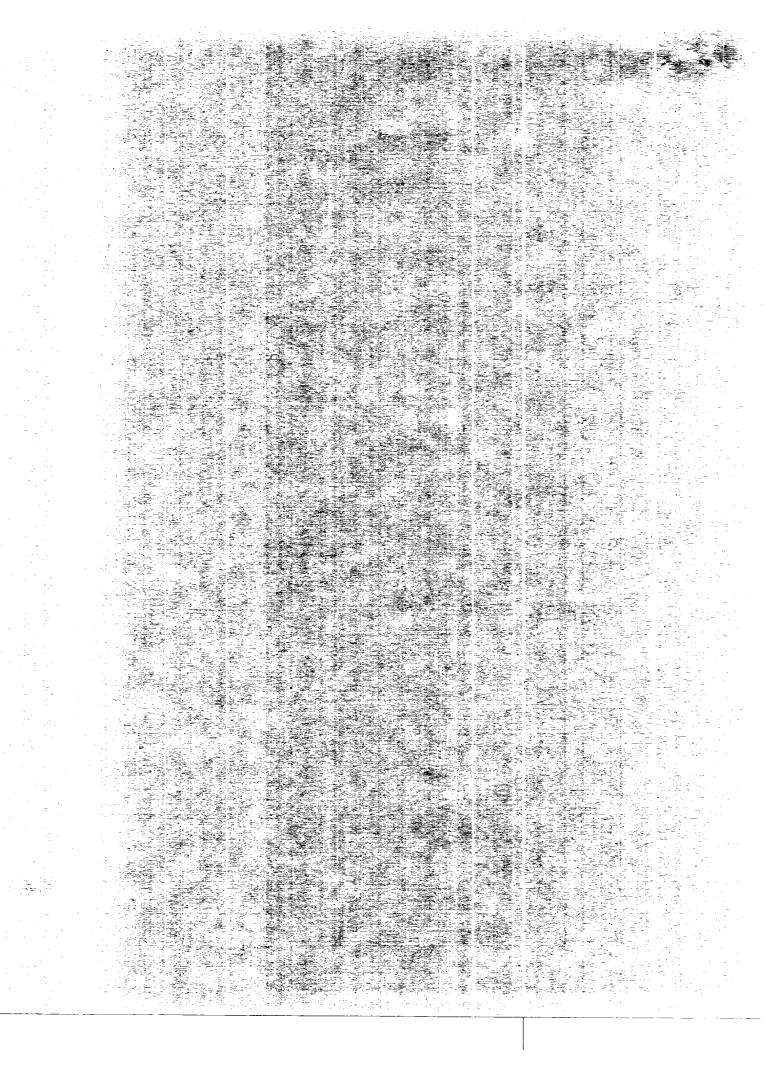
: 24324

PROJECT NAME : PIT CLOSURE

21100 202					
SAMPLE ID. # CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
16 945803	NON-AQ	08/01/94	08/04/94	08/08/94	20
PARAMETER		UNITS			
BENZENE		MG/KG	<0.5		
TOLUENE		MG/KG <0.5			
ETHYLBENZENE		MG/KG 8.4			
TOTAL XYLENES		MG/KG	190		
SURROGATE:					
BROMOFILIOROBENZENE (%)			620*		

<sup>\*</sup>OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

# PHASE II



#### RECORD OF SUBSURFACE EX. LORATION

Burlington Environmental Inc. 4000 Monroe Road Farmington, New Mexico 87401 (506) 326-2282 FAX (505) 326-2388

Elevation Borehole Location Letter E-536-T27-R8 GWL Depth Logged By J.F. LaBarbera K. Padilla Drilled By Date/Time Started 7/21/95-Date/Time Completed

		Borehole # Well # Page -	BH-1				
-			/_of }				
Project Name	EPNG PITS						
Project Number	14509	Phase	6000.77				
Project Location	Brankk	aven C	Sh 1 5 70597				
Well Logged By	J.F.	LaBarbera					
Personnel On-Site	K. P	adilla, F. Rive	ora, D. Olianio D. Gat:				
Contractors On-Site							
Client Personnel On-	Site						

4 1/4 ID HSA

PID, CGI

						Depth				
5		C	Sample	Sample Description	uscs	Lithology	Ai	Monito	rino	Drilling Conditions
Depth	Sample	Sample Interval	Type & Recovery	Classification System: USCS	Symbol	Change	Units: ppm 11.5			& Blow Counts
(Feet)	Number	INCOLAM	1	Classification Systam. 5555	,	(feet)	ВZ	ВН	AS S	<b></b>
5			(inches)	Fill		liceti	82		3	
15	1	15-15-4	6 T	Brown, lease, fatocoorse, SAMB, &r 31/4, damp, adam	sw				3715 <b>63</b> 3	
20	2	20-21.	25/5	AR	5W		-7	62	8.0	08JF
25	3	25 - JK	12	All, me oder metel	5W		,	54	55°	091/2
30	4	<b>3</b> 2-31	1/	Brown, deroe, for to corre, SANSTENE, tr Elt, no eder noted	X		ಎ	51	5983 14	Calebrated PD NS = 1051
35	5	35°-	_	No recovery ToB at 35'- Refusal	: :		21		77	netwel of
40				N. Or USA/						

Drilling Method

Air Monitoring Method

Comments:

Sample JFL 26 from 30-31 sent to lob for BTEX/TPH analysis.

Geologist Signature

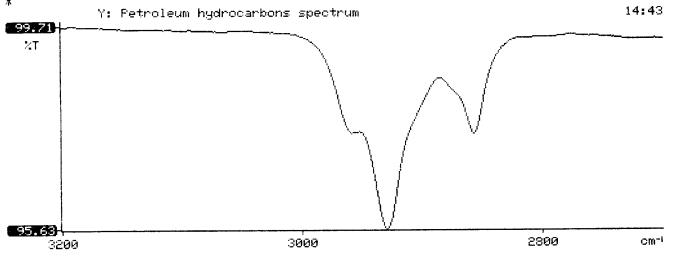


# ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICAT	ION			
	Field	ID		Lab ID		
SAMPLE NUMBER:	JFL 26		9470	088		
MTR CODE   SITE NAME:	70597					
SAMPLE DATE   TIME (Hrs):	07-26-9	5	09:30			
SAMPLED BY:		N/A	1			
DATE OF TPH EXT.   ANAL.:	07-27			27-95		
DATE OF BTEX EXT.   ANAL.:	8-1-9	75	8-1	1-95		
TYPE   DESCRIPTION:	٧G		<u> </u>			
REMARKS:						
		RESULTS				<del></del>
PARAMETER	RESULT	UNITS		QUALIFI		
			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	LO.025	MG/KG		·		
TOTAL BTEX	20.10	MG/KG				
TPH (418.1)	59.5	MG/KG			2.00	28
HEADSPACE PID	5983	PPM	RITE A			
PERCENT SOLIDS	98.4	%			The state of the s	Maria de la companya
he Surrogate Recovery was at larrative:	TPH is by EPA Method 103 Ults at-	418.1 and BTEX is by EF % for this sample + a cleed.		was accept	able.	
DF = Dilution Factor Used	)		Date:	£/z	2/95	

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* Test Method for Oil and Grease and Petroleum Hydrocarbons \* in Water and Soil Perkin-Elmer Model 1600 FT-IR \* Analysis Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* 95/07/27 14:43 Sample identification 947088 Initial mass of sample, g 2.000 Volume of sample after extraction, ml Petroleum hydrocarbons, ppm 59.465 Net absorbance of hydrocarbons (2930 cm-1) 0.018





ATI I.D. 508302

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 08/01/95, 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

Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141



#### 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

SAMPL ID. #	<del>_</del>	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947086	NON-AQ	07/26/95	08/01/95	08/01/95	1
05	947087	NON-AQ	07/26/95	08/01/95	08/01/95	1
06	947088	NON-AQ	07/26/95	08/01/95	08/01/95	1
PARAM	ETER		UNITS	04	05	06
BENZE			MG/KG	<0.025	<0.025	<0.025
TOLUE			MG/KG	<0.025	<0.025	<0.025
			MG/KG		<0.025	<0.025
ETHYLBENZENE TOTAL XYLENES			MG/KG	0.13	0.030	<0.025
	GATE: OFLUOROBENZENE (%)			111	109	103