Devel PASO FIELD SERVICES
DEPUTPRODUCTION PIT CLOSURE

Legals - Twn: 30 Rng: 09

Operator: AMOCO PRODUCTION COMPANY

NMOCD Hazard Ranking: 40

DEL 2 4 HOUR

STATE COM H#9 PC Meter/Line ID - 75875 DECEIVED N JUL 2 1998

OIL CON. DIV

MM. 3

SITE DETAILS

Sec: 16

Unit: B

Land Type: 1 - State

ind Type: 1 - State

Pit Closure Date: 05/10/94

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.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75875 Location: STATE COM # #9 P.C. Operator #: 6203 Operator Name: Amoco P/L District: Bloomfield Coordinates: Letter: B Section 6 Township: 30 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 4.22.94 Area: 10 Run: 33
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside
NS.	Remarks: 3 pits on Location, 2 will be closed. Pits dry
REMARAS	
RE	Dia 2 Hau)

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 75875 Location: STATE Com H #9 P.C Coordinates: Letter: B Section 16 Township: 30 Range: 9 Or Latitude Longitude Date Started: 5-10-94 Area: 10 Run: 33
L OBSERVATIONS	Sample Number(s): KDSD Sample Depth: 17' Feet Final PID Reading 373 pp PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
	Description Mathed :
URE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation [2] [3]
CLOSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 5-10-94 Pit Closed By: BET
RKS CLOSURE	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 5-10-94 Pit Closed By: BET
OSOTO	Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 5-10-94 Pit Closed By: BET



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 50	945109
MTR CODE SITE NAME:	75875	N/A
SAMPLE DATE TIME (Hrs):	5-10-94	1215
SAMPLED BY:		/A
DATE OF TPH EXT. ANAL.:	5.12.44	5-12-91
DATE OF BTEX EXT. ANAL.	5/17/94	5/19/94
TYPE DESCRIPTION:	VC	Brown Sand
TITE DEGOIM TOTAL	9 0	

REMARKS:	

RESULTS

PARAMETER	RESULT	UNITS		RS		
PARAMETER			DF	Q	M(g)	V(ml)
BENZENE	42.5	MG/KG	100			
TOLUENE	11	MG/KG	100			
ETHYL BENZENE	2.9	MG/KG	100			
TOTAL XYLENES	34	MG/KG	100			
TOTAL BTEX	50	MG/KG			114/19	
TPH (418.1) / 21,700	21,600 Anis	4/94 MG/KG	-	· Jan	2.63	28
HEADSPACE PID	373	PPM				
PERCENT SOLIDS	88,4	%	Assumed 8020			···

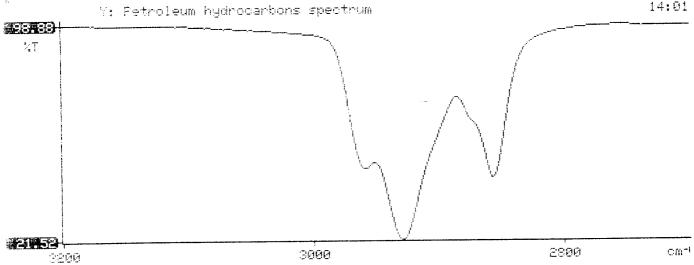
- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -

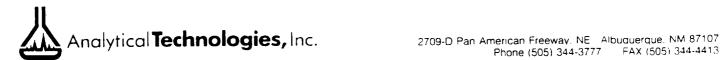
_TP	t is by EPA Method 418.1 and BIEX is by EPA Me	emba 8020 —	
The Surrogate Recovery was at	100 % for this sample	All QA/QC was acceptable.	
Narrative: ATI <u>Vesuls</u>	attached.		
DF = D ution Factor Used			
Approved By:	li'	Date: 1/9/9/	

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Test Method for *

The Method for *

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ATI I.D. 405359

May 25, 1994

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

Project Name/Number: PIT CLOSURE 24324

John Lambdin Attention:

On 05/13/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. 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.

EPA Method 418.1 analysis was added for sample 945125 on 05/17/94.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letítia Krakowski, Ph.D.

Project Manager

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jd

Enclosure



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 405359

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
ID. #	945108	NON-AQ	05/10/94	05/17/94	05/18/94	1
02	945109	NON-AQ	05/10/94	05/17/94	05/19/94	100
03	945110	NON-AQ	05/10/94	05/17/94	05/18/94	1
PARAME	TER		UNITS	01	02	03
BENZEN	IE		MG/KG	<0.025	<2.5	<0.025
TOLUEN	ΙE		MG/KG	0.026	11	<0.025
ETHYLE	BENZENE		MG/KG	0.10	2.9	<0.025
	XYLENES		MG/KG	1.8	34	<0.025
SURROG	GATE:					
BROMO	FLUOROBENZENE	(%)		43*	106	91

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Roed Farmington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388

Elevation

Borehole Location

GWL Depth

Logged By

Drilled By

Date/Time Started

Date/Time Completed

SIR/95 1550

Borehole #		BH	1-/	
Well #				
Page	ι	of	2	
Pit				

Project Name
Project Number
Project Location
Project Location
Project Location

EPNG PI+
Phase 4DD2 77
Phase 4DD2 77
Project Location
State Con#9 PC 75875

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

Drilling Method 414 10 H5A

Air Monitoring Method 410 CG1

Depth (Feet)	Sample Number	Sample Interval	Sample : Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air U BZ	Air Monitoring Units: NDU C		Drilling Conditions & Blow Counts
-				BackFill TPIZ						
5										
- - - 10										
15	1	15-17	10"	Gr silty Sand, fored sand, loose, stroisy odor						-1346
20	a	70-77	5"	Grandy Clay, VF-Fsand, soft, low plassic, odor			14	72	355 8 35	- 1355
25	ز	25-72	104	Br Sandy Clay, VF-F sand, SOFT) low plasts, adar			٥	מצו	1,090	-1413
30	ч	20.97	11"	BIKsandy Clay, of sand, med stiff,			4	69	254 668	-1426
35	5	35-37	احمر	AA.			8	178	910	1457
40	Ь	40-43	12"	Br silty Clay, Fastaining, hard, no-pl			6	60	90/50	1457

Comments:	
	*
	Geologist Signature

RE

Drilled By

RECORD OF SUBSURFACE EXPLORATION PHILIP ENVIRONMENTAL	Borehole # Well # Page of 2
4000 Monroe Road Farmington, New Mexico 87401 (506) 328-2262 FAX (506) 326-2388	Project Number Project Location State Com 9 PC 75875
Elevation Borehole Location GWL Depth Logged By	Well Logged By Personnel On-Site Contractors On-Site Client Personnel On-Site

ate/Time	Started				Drilling Method Air Monitoring Method				Drilling Method Air Monitoring Method							
Depth (Feet)	pth Sample Sample Type & Number Interval Recovery		Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU BZ BH PS			Drilling Conditions & Blow Counts						
40 45 55 1 60 1 65 1 65 1 65 1 65 1 65 1 65	7	45-47	(inches)	Green sh, silty, hard, al fissle TUB 45'					PRS	Orling Harder -1524						
7: 7: 7:																

45-47 SA-Comments: Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC 12	946823
MTR CODE SITE NAME:	75875	N/A
SAMPLE DATE TIME (Hrs):	5-18-95	1528
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	5-19-95	5-19-95
DATE OF BTEX EXT. ANAL.:	5/19/95	5/23/91
TYPE DESCRIPTION:	J (-	Dark Dimori Clan
		in 2 63.37v

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
PARAIVIETEN	1120011		DF	Q	M(g)	V(ml)
BENZENE	20.50	MG/KG				
TOLUENE	<0.50	MG/KG				
ETHYL BENZENE	LU.SU	MG/KG				
TOTAL XYLENES	CLSV	MG/KG				
TOTAL BTEX	< 3.00	MG/KG				
TPH (418.1)	(m 95/ 22.4	MG/KG			2.04	295
HEADSPACE PID	15	PPM				
PERCENT SOLIDS	27.8	%				

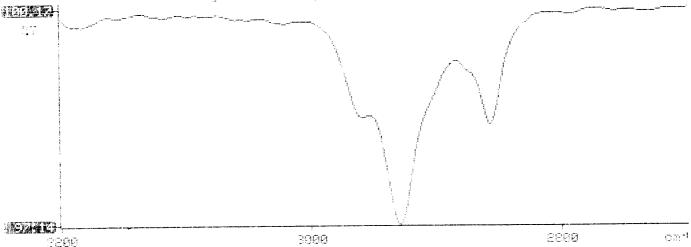
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --% for this sample All QA/QC was acceptable.

The Surrogate Recovery was at Narrative:

DF = Dilution Factor Used

5/24/45-

Test Method for Cil and Grease and Petroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 75/05/19 13:11 Cample identification | 98-5223 k Initial mass of sample, g 2.040 Volume of sample after extraction, ml * Petroleum hydrocarbons, ppm 22.408 t Not absorbance of hydrocarbons (29%0 cm-1)
0.013 ż 杂 Y: Petroleum hydrocarbons spectrum



13:11

BTEX SOIL SAMPLE WORKSHEET

File	:	946823A	Date Printed	:	5/24/95
Soil Mass (g) :	5.04	Multiplier (L/g)	:	0.00099
Extraction vol. (m	L) :	20	DF (Analytical)	:	200
Shot Volume (u	L) :	100	DF (Report)	:	0.19841

					De	et. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.00	0.496
Toluene	(ug/L) :	0.00	Toluene (mg/Kg):	0.00	0.496
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.00	0.496
p & m-xylene	(ug/L) :	0.00	p & m-xylene	(mg/Kg):	0.00	0.992
o-xylene	(ug/L) :	0.00	o-xylene	(mg/Kg):	0.00	0.496
•	, - ,		Total vylenes /	ma/Ka)·	0.00	1 488

Total xylenes (mg/Kg): 0.00 Total BTEX (mg/Kg): 0.00

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\946823A Method : C:\LABQUEST\METHODS\9000.MET

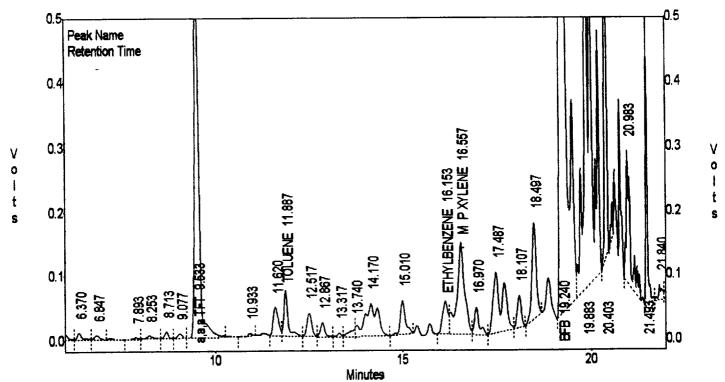
Sample ID : 946823,5.04/100UL Acquired : May 23, 1995 23:20:43 Printed : May 23, 1995 23:46:56

User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.253	0	0.0000
a,a,a TFT	9.533	4883622	76.4156
TOLUENE	11.887	536240	-3.6555
ETHYLBENZENE	16.153	514928	-2.4023
M & P XYLENE	16.557	2041547	-1.2370
O XYLENE	17.700	0	0.0000
BFB	19.240	56440376	92.5290

C:\LABQUEST\CHROM000\946823A - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\946823A Method : C:\LABQUEST\METHODS\9000.MET

Sample ID : 946823,5.04/100UL Acquired : May 23, 1995 23:20:43 Printed : May 23, 1995 23:47:01

User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.370	206025	21.3432
a,a,a TFT	9.540	307814	102.9249
TOLUENE	11.923	0	0.0000
ETHYLBENZENE	16.187	0	0.0000
M & P XYLENE	16.563	54301	16.4973
O XYLENE	17.707	0	0.0000
BFB	19.247	1944802	88.9134

C:\LABQUEST\CHROM000\946823A - Channel B

