Legals - Twn: 26

NMOCD Hazard Ranking: 20

Operator: MERIDIAN OIL INC

 $\mathcal{G}_{\mathcal{H}}$

TIBBAR FED #2 (PIT 2) Meter/Line ID - 75605 DECEIVED

SITE DETAILS

Rng: 09 **Sec:** 13

Unit: P Land Type: 2 - Federal OIL COM, DIV.

Pit Closure Date: 08/09/94

DIMI. 3

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.

#2

FIELD PIT SITE ASSESSMENT FORM

4									
GENERAL	Meter: 75605 Location: Tibbar Fed #2 Meridian P/HT) Operator #: 6640299 Operator Name: 3-to Doordoor P/L District: Ballard Coordinates: Letter: P Section 13 Township: 76 Range: 91. Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6-24-94 Area: Run: 82_								
	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM								
	-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)								
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) ☒ (2) NO (0 points)								
SITE ASS	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 Blanco Dos								
	(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: POINTS								
RKS	Remarks: 3 pits on location. Drip pit isdry other pits								
REMARKS	ove deby pit (liquideoil) and separator. See other Assessment from this location.								
2	Inside V.Z. on Realized Topo								

IT	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North _//_ Footage from Wellhead 147 b) Length: _/6 _ Width: _/6 _ Depth:Z
ORIGINAL PIT	weilhead
	Remarks:
! د	End dump
REMARK	
	Completed By:
	Signature Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

Meter: 15605 Location: Tibbar Fed *2 Coordinates: Letter: P Section 13 Township: 26 Range: 9 Or Latitude Longitude Date Started: 8-9-94 Run: 11 82
Sample Number(s): KP 73 Sample Depth: 12' Feet Final PID Reading 064 Yes No Groundwater Encountered Approximate Depth Feet
Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: \$9.949 Pit Closed By: \$\mathbb{B} \overline{\mathbb{E}} \overline{\mathbb{T}}
Remarks: Some Line markels ONLOCATION. Started Remediating to 12' Soil Turned Light gray with A smell At 12' Soil Still Light gray with A Little smell Pid 664 Closed Pit. Line Drif Morth of meter House Signature of Specialist: Kelly Padilla



ATI I.D. 408346

August 23, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/12/94, 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.

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 408346

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	M.	ATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945873	NC	QA-NC	08/09/94	08/15/94	08/17/94	1
02	945874	NO	QA-NC	08/09/94	08/15/94	08/18/94	20
03	945875	No	QA-NC	08/09/94	08/15/94	08/17/94	10
PARAME	TER			UNITS	01	02	03
BENZEN				MG/KG	<0.025	2.4	1.2
TOLUEN	IE			MG/KG	0.058	130	33
ETHYLE	BENZENE			MG/KG	0.041	41	7.2
	XYLENES			MG/KG	0.48	420	100
SURRO	GATE:						
BROMO	FLUOROBENZENE	(%)			85	55*	115

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



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	SAMPLE	IDENTIFICA	11014			
	Field	ID		Lab ID		
SAMPLE NUMBER:	KP173	\	945	873		
MTR CODE SITE NAME:	75605	ζ		N/A		
SAMPLE DATE TIME (Hrs):	8-9-0	74	09	25		
SAMPLED BY:		N/.	A	2.1		
DATE OF TPH EXT. ANAL.:	8/11/94		81119	79		
DATE OF BTEX EXT. ANAL.:	2/1	5/94	811	<u> </u>		
TYPE DESCRIPTION:	\ \ \ \ \ \		Light br	own san	d	
REMARKS:						
MEMANICO.						
		RESULTS				
	an la la parece		<u> </u>			and the second
PARAMETER	RESULT	RESULT UNITS		QUALIFIERS DF Q M(g)		
			DF 1	Q	M(g)	V(ml)
BENZENE	40.025	MG/KG				
TOLUENE	0.058	MG/KG				
ETHYL BENZENE	0.041	MG/KG				
TOTAL XYLENES	0.48	MG/KG				
TOTAL BTEX	0.60	MG/KG				
TPH (418.1) 23le	-340 July 8	(3) 94 MG/KG			2,25	28
HEADSPACE PID	64	PPM			:	
PERCENT SOLIDS	87.7	%				
Fl. C Page very was at	TPH is by EPA Method	1 418.1 and BTEX is by E % for this sampl		was accents	ible	
The Surrogate Recovery was at Narrative:			e All UA/UC	was accepte		
ATI res	uts att	ached.				
			 			

Test Method for 3

Coll and Grease and Petroleum Hydrocarbons 3

In Water and Soil 3

Perkin-Elmer Model 1600 FT-IR 4

Analysis Report 3

Analysis Report 4

Analysis Report 5

Invisial mass of sample, g

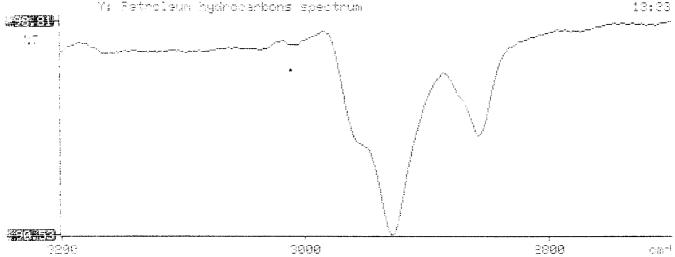
Total and mass of sample after extraction, ml

Total and hydrocarbons, ppm

Tital boorbance of hydrocarbons (2930 cm-i)

Code

Y: Fetroleum hydrocarbons spectrum



PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

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

Date/Time Completed 68116195

Elevation

Borehole Location

GWL Depth

Logged By

Drilled By

Date/Time Started

Borehole #	BH-1
Weil #	
Page	of

Project Name
Project Number
Project Location
Project Location
Project Location
Project Location
Project Name

EPNG Pits

14509
Phase 6000.77

Tibber Fedural # 2 75605

Part located 75 west of Merce

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

 Drilling Method
 4 1/4 ID HSA

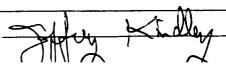
 Air Monitoring Method
 PID, CGI

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change	Air Monitoring Units: PPM		Orilling Conditions & Blow Counts
10			(inches)	CLAY, gray, Stiff, Lry Boring terminated at 20 Feet:		(feet)	BZ BH	\$/	1210
25 									

Comments:

Sample collected at 18 to 20' and submitted For analysis of BTEX and TPH. BH growthat to surface,

Geologist Signature



RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

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

Borehole Location

T 26, (91) 513, P

Jeff W. Kindley

06, Sydduth

08, 17,95, 0622

10,00

Well # **EPNG Pits** Project Name 14509 Phase 6000.77 Project Number 16 2 75605 Tibbar Fed Pita 37 North of enishing mercu Jeff W. Kindley D. Roberts, G. Siddethy Personnel On-Site Contractors On-Site Client Personnel On-Site 4 1/4 ID HSA Drilling Method PID, CGI Air Monitoring Method

Borehole #

BH-1

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Monitori nits: PPI BH	-	Drilling Conditions & Blow Counts
				BackFil material to R					
5				, (
10									
15			1						
20	i i	18-20	120	CLAY, dank gray, Stiff, dry odor				118/ 125	0905
25	2	23-75	10 P	SA.A,				38 81	0911
30	3	28-30	18	5.A.A				13/	0911 0918
			210	S.A.A. Boring terminated at 30'					
35	-								
40									

comments: Sample called For analysis of BTEX/TPH at 28 to 30'. BH
grouted to surgere

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK18	947252
MTR CODE SITE NAME:	75605	TibberFederal #2
SAMPLE DATE TIME (Hrs):	08-16-95	12:10
PROJECT:	Phose I Drilling	
DATE OF TPH EXT. ANAL.:	8/17/95	
DATE OF BTEX EXT. ANAL.:	8/21/95	
TYPE DESCRIPTION:	VG	light grey sand tolan - sand stone
Field Remarks:		
	DECLUTO	*

RESULIS

PARAMETER	RESULT	UNITS	QUALIFIERS					
			DF	Q	M(g)	V(ml)		
BENZENE	4 .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)	37.0	MG/KG			2.04	28		
HEADSPACE PID	0	PPM						
PERCENT SOLIDS	88.8	%						

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --108% for this sample All QA/QC was acceptable. The Surrogate Recovery was at Narrative: DF = Dilution Factor Used

Approved By:

```
Test Method for
*
    Oil and Grease and Petroleum Hydrocarbons
                                           宯
              in Water and Soil
*
                                           掌
4
         Perkin-Elmer Model 1600 FT-IR
               Analysis Report
95/08/17 14:30
1.
F.
  Sample identification
*
  Initial mass of sample, g
  Volume of sample after extraction, ml
 28.000
  Petroleum hydrocarbons, ppm
 35.965
* Net absorbance of hydrocarbons (2930 cm-1)
0.015
        Y: Petroleum hydrocarbons spectrum
                                                       14:31
99.43
 XT
```

3999

2800

 $\odot m^{-1}$

****25.88**

3290

BTEX SOIL SAMPLE WORKSHEET

File	:	947252	Date Pri	inted	:	8/24/95
Soil Mass (g)	:	5.00	Multiplier	(L/g)	:	0.00100
Extraction vol. (mL)	:	20	DF (Analyt	tical)	:	200
Shot Volume (uL)	:	100	DF (Re	port)	:	0.20000

							Det. Limit
Benzene	(ug/L)	:	0.00	Benzene	(mg/Kg):	0.000	0.500
Toluene	(ug/L)	:	0.00	Toluene	(mg/Kg):	0.000	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/ K g):	0.000	1.000
o-xylene	(ug/L)	:	0.00	o-xylene	(mg/Kg):	0.000	0.500
				Total xylenes Total BTEX	(mg/Kg): (mg/Kg):	0.000 0.000	1.500
				. Star Brex	(0.000	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082195.003
Method : C:\LABQUEST\METHODS\9001.met

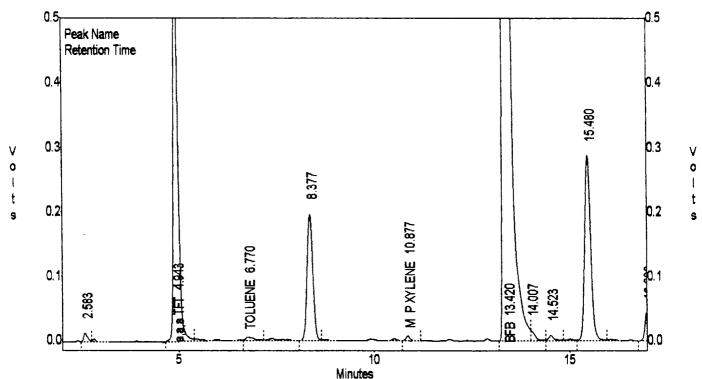
Sample ID : 947252,5.00G,100U Acquired : Aug 21, 1995 14:35:37 Printed : Aug 22, 1995 07:09:00

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.467	0	0.0000
a,a,a TFT	4.943	5121060	98.4636
TOLUENE	6.770	84308	-0.5142
ETHYLBENZENE	10.500	0	0.0000
M & P XYLENE	10.877	54500	-5.0166
O XYLENE	11.913	0	0.0000
BFB	13,420	78140824	108.4781

C:\LABQUEST\CHROM001\082195.003 - Channel A





FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	JWK 19	947268
MTR CODE SITE NAME:	75605	Tibbar Fed. No. 2
SAMPLE DATE TIME (Hrs):	08-17-95	09:18
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/21/95	8-21-95
DATE OF BTEX EXT. ANAL.:	8/21/95	874/95
TYPE DESCRIPTION:	VG	Light brown Sand & Clay

Field Remarks:		
		-

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF	Q	M(g)	V(ml)	
BENZENE	4 .5	MG/KG		F			
TOLUENE	< .5	MG/KG					
ETHYL BENZENE	< .5	MG/KG					
TOTAL XYLENES	< 1.5	MG/KG					
TOTAL BTEX	< 3	MG/KG				200	
TPH (418.1)	268 22 63.6	MG/KG			2.15	28	
HEADSPACE PID	18	PPM					
PERCENT SOLIDS	93.8	%					

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020							
_	ate Recovery	was at	96	<u>%</u>	for this sample	All QA/QC wa	s acceptable.
Narrative:	Benzene	TAKen	From	FID.			

```
Test Method for
4
     Dil and Grease and Petroleum Hydrocarbons
               in Water and Soil
          Perkin-Elmer Model 1600 FT-IR
                                               눑
                Analysis Report
********************************
95/08/21
        14:53
^{*}
  Sample identification
947268
  Initial mass of sample, g
素
  Volume of sample after extraction, ml
28.000
  Petroleum hydrocarbons, ppm
63.578
* Net absorbance of hydrocarbons (2930 cm-1)
0.018
         Y: Petroleum hydrocarbons spectrum
                                                           14:53
. 99.33H
 %T
95.05
```

3666

2899

 $\odot \mathbb{M}^{-i}$

3299

BTEX SOIL SAMPLE WORKSHEET

File :	947268	Date Printed	:	8/24/95
Soil Mass (g):	4.97	Multiplier (L/g)	:	0.00101
Extraction vol. (mL):	20	DF (Analytical)	:	200
Shot Volume (uL):	100	DF (Report)	:	0.20121

					Det. Limit
(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	0.503
(ug/L) :	0.00	Toluene	(mg/Kg):	0.000	0.503
(ug/L) :	0.00	Ethylbenzene	(mg/Kg):	0.000	0.503
(ug/L) :	0.00	p & m-xylene	(mg/Kg):	0.000	1.006
(ug/L) :	0.00	o-xylene	(mg/Kg):	0.000	0.503
		Total xylenes	(mg/Kg):	0.000	1.509
		Total BTEX	(mg/Kg):	0.000	
	(ug/L) : (ug/L) : (ug/L) :	(ug/L): 0.00 (ug/L): 0.00 (ug/L): 0.00	(ug/L): 0.00 Toluene (ug/L): 0.00 Ethylbenzene (ug/L): 0.00 p & m-xylene (ug/L): 0.00 o-xylene Total xylenes	(ug/L): 0.00 Toluene (mg/Kg): (ug/L): 0.00 Ethylbenzene (mg/Kg): (ug/L): 0.00 p & m-xylene (mg/Kg): (ug/L): 0.00 o-xylene (mg/Kg): Total xylenes (mg/Kg):	(ug/L): 0.00 Toluene (mg/Kg): 0.000 (ug/L): 0.00 Ethylbenzene (mg/Kg): 0.000 (ug/L): 0.00 p & m-xylene (mg/Kg): 0.000 (ug/L): 0.00 o-xylene (mg/Kg): 0.000 Total xylenes (mg/Kg): 0.000

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\082195-0.005 Method : C:\LABQUEST\METHODS\9000.MET

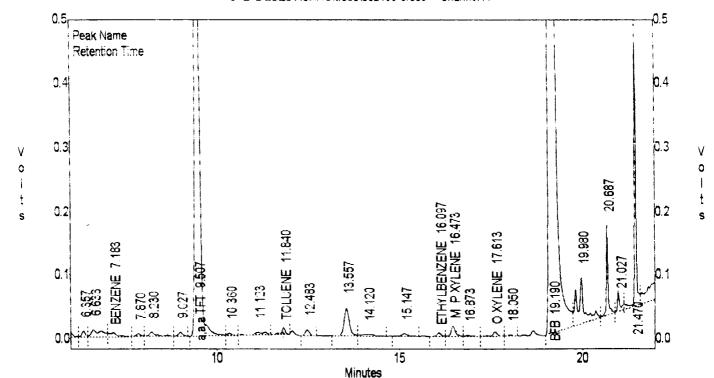
Sample ID : 947268,4.97G,100U Acquired : Aug 21, 1995 15:17:47 Printed : Aug 24, 1995 11:36:09

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.183	91926	-2.2141
a,a,a TFT	9.507	8880157	90.0599
TOLUENE	11.840	31406	-0.7571
ETHYLBENZENE	16.097	40989	-0.2551
M & P XYLENE	16.473	133917	-2.9014
O XYLENE	17.613	63844	-0.1095
BFB	19.190	72396376	96.3524

C:\LABQUEST\CHROM000\082195-0.005 -- Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\082195-0.005 Method : C:\LABQUEST\METHODS\9000.MET

Sample ID : 947268,4.97G,100U Acquired : Aug 21, 1995 15:17:47 Printed : Aug 24, 1995 11:36:15

User : MARLON

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.267	0	0.0000
a,a,a TFT	9.510	338310	110.3149
TOLUENE	11.897	U	0.0000
ETHYLBENZENE	16.147	0	0.0000
M & P XYLENE	16.530	0	0.0000
O XYLENE	17.667	0	0.0000
BFB	19.190	1751653	109.3704

C:\LABQUEST\CHROM000\082195-0.005 - Channel B

