EPFS PIT CLOSURE SUMMARY

Denny S. Fruit DEPUTY OIL & GAS INSPECTOR

JUL 1 7 1998

Ballard No. 1 Meter/Line ID - 70768

Legals - Twn: 26

Ring: 9

NMOCD Hazard Ranking 30

Operator: Meridian

SITE DETAILS

Sec: 10

Unit: M

Land Type: BLM

PREVIOUS ACTIVITIES

Site Assessment: 6/20/94 Monitor Well: N/A Excavation: 8/12/94

Re-Excavation: N/A

Soil Boring: 8/17/95

Geoprobe: N/A

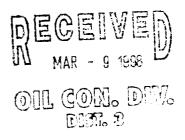
CONCLUSIONS

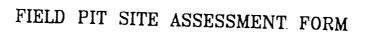
The initial excavation was excavated to the practical extent of the trackhoe, which was 12 feet below ground surface (bgs). PID Field screening indicated soils to be 359 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated total BTEX was just above standards at 51 mg/kg, and TPH was above standards at 3,070 mg/kg. A test boring was advanced in the center of the initial excavation to determine the extent of the impact to soils. The soil lithology consisted of brown medium grained sand. A sample was collected for BTEX and TPH analysis at 43-45 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 33.1 mg/kg present in the soil.

RECOMMENDATIONS

No further action is recommended at the site for the following reasons:

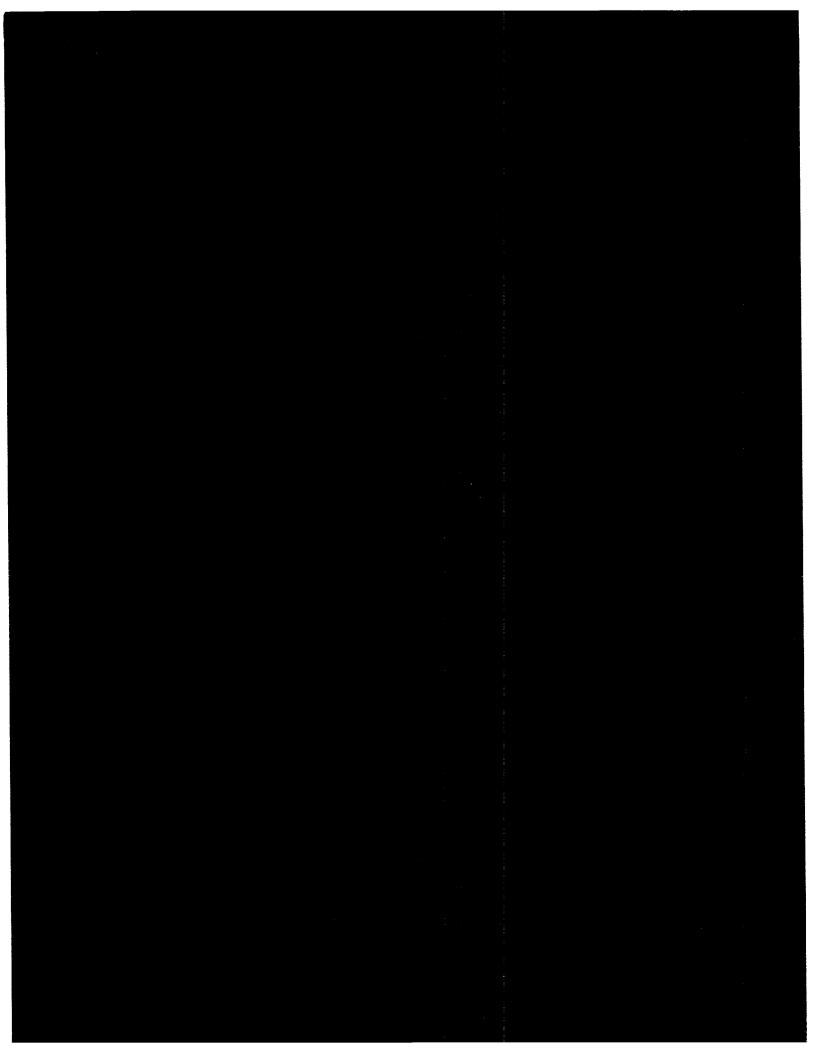
- The bulk of the impacted soil was removed during the phase 1 excavation.
- Test boring sample results indicated soils below standards 31 feet below the initial excavation.
- No groundwater was encountered in the test boring.
- No potential receptors are within 1,000 feet of the site.
- Residual hydrocarbons remaining in the soils at the bottom of the <u>initial excavation</u> will naturally degrade with time with minimal risk to the environment.





9	
GENERAL	Meter: 70768 Location: Ballard*1 Operator #: 2999 Operator Name: Meridian P/L District: Ballard Coordinates: Letter: M Section 10 Township: 26 Range: 9W Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 6-20-94 Area: Run: 91
	NMOCD Zone: Land Type: BLM ⋈ (1) (From NMOCD State (2) Maps) Inside (1) Fee (3) Outside (2) Indian 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)
SITE 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) 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 Reed Canyon Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) Distance to Nearest Ephemeral Stream (1) < 100'(Navajo Pits Only) (2) > 100' TOTAL HAZARD RANKING SCORE: 30 POINTS
SS	Remarks: One pit. Dry
REMARKS	
REN	Inside V.Z. on Redline & Topo

NC	ORIGINAL PIT LOCATION Original Pit : a) Degrees from North 139 Footage from Wellhead 10° b) Length : 16 Width : 15 Depth : 4
ORIGINAL PIT LOCATION	Wellhead 139°
REMARKS	Remarks: Photos-1447
	Completed By: 6-20-94 Signature Date



	ż
•	

FIELD PIT REMEDIATION/CLOSUKE FORM

GENERAL	Meter: 70768 Location: Ballard # Coordinates: Letter: M Section 10 Township: 76 Range: 96 Or Latitude Longitude Date Started: 8/12/94 Run: 11 91
FIELD OBSERVATIONS	Sample Number(s): KD 212 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Envirotech Other Facility Name: Pit Closure Date: 8/12/94 Pit Closed By: BET
REMARKS	Remarks: Excavated pit to 12', Took >10 Sample, Closed pit



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 212	945915
MTR CODE SITE NAME:	70768	N/A
SAMPLE DATE TIME (Hrs):	8/12/94	1315
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	8/14/94	8/16/94
DATE OF BTEX EXT. ANAL.:	8/17/94	8/19/94
TYPE DESCRIPTION:	VC	Fine Brown Sand Ichan
<u></u>		
REMARKS:		

RESULTS

PARAMETER	RESULT	UNITS		RS		
		1 2 2	DF	Q	M(g)	V(ml)
BENZENE	L0.25	MG/KG	(0)			
TOLUENE	11	MG/KG	(0			
ETHYL BENZENE	1.2	MG/KG	10			
TOTAL XYLENES	39	MG/KG	10			
TOTAL BTEX	21	MG/KG				
TPH (418.1)	3070	MG/KG			2.21	28
HEADSPACE PID	359	РРМ				
PERCENT SOLIDS	90.8	%				

-- 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.

ATI	resu	US	attached	3. 5	2000	gate	rece	vem	was
outside	ATI	00	limits	due	d	J m	atrix	inter	Leienc
DF = Dilution Factor Us	ed							U	

Narrative:

· 一本電影學學表示學者表示學生學學學學學學學學學學學學學學學學學學學學學學學學學學學學 Test Method for Cil and Grease and Patroleum Hydrocarbons in Water and Soil Perkin-Elmer Model 1600 FT-IR Analysis Report 三次國際深度原因政府電影響器畫者
第233
第23
82
82
82
82
83
83
83
83
84
84
84
85
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86
86

74/08/16 12:59

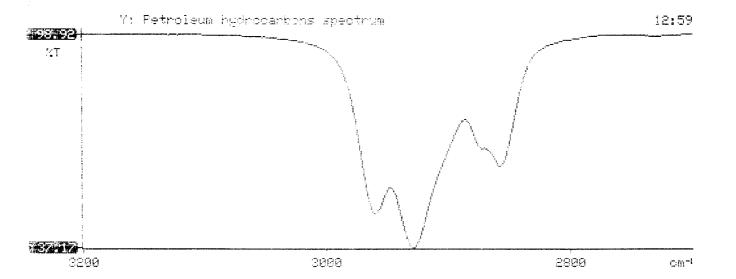
Sample identification 945715

3 Initial mass of sample, q

- Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm

3069.740 Met absorbance of hydrocarbons (2930 cm-1)





GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408364

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

INOUL	.01 11.212				משמח	DIL.
SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	FACTOR_
ID. #	945914	NON-AQ	08/12/94	08/17/94	08/19/94	1
14	945915	NON-AQ	08/12/94	08/17/94	08/19/94	10
15	945916	NON-AQ	08/12/94	08/17/94	08/19/94	1
PARAN			UNITS	13	14	15
BENZE			MG/KG	<0.025	<0.25	<0.025
TOLUI			MG/KG	<0.025	11	0.028
	LBENZENE		MG/KG	<0.025	1.2	<0.025
			MG/KG	<0.025	39	<0.025
TOTA.	L XYLENES					
כנוסס	OGATE:					
				96	412*	99
BROM	OFLUOROBENZENE (%)			-		

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



ATI I.D. 408364

August 24, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/17/94, 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

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road Farmington, New Mexico 87401 (505) 326-2262 FAX (506) 326-2388

Elevation Borehole Location	T26, R9W,	510, M
GWL Depth		
Logged By	Jeff W. Kindley	
Drilled By	G. Sudduth	
Date/Time Started	08/17/95	1414
Date/Time Comple	ted 08 10 195	1545
Date/Time Comple	ted Gainian	

Borehole #	BH-1	
Well #		
Page	of 2_	

D! Nome	EPNG Pits	_		
Project Name	14509	Phase	6000.77	
Project Number	Balland	#1	70768	
Project Location	Dallava	741		

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 (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Monitorin nits: PPM BH	1	Drilling Conditions & Blow Counts
5				Bockfill material to 12'					
10									
20	, 1	18-30	1.5	sano, aroun, rudium ignormed) lase, dry, odor				106	427
25	2	23-25	5 2.0	5, A, A.				76/	1433
30	3	28-31	0 2.0	5.A.A.				弘	1438
3	5 4	33-2	野空。	sand, brown, come grained, losse, dry, odor				1	1
	5	3 8 -	10 20	5.A.A				24/5	1437

Comments:	
	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	T26, R9W, 510, M	•
GWL Depth		_
Logged By	Jeff W. Kindley	-
Drilled By	G. Sudduth	-
Date/Time Started	08117195 1414	_
Date/Time Comple		

Borehole #		BH-1		
Well #				
Page	2	of	2	

Project Name	EPNG Pits			
•	14509	Phase	6000.77	
Project Number	Balland	生! つ	0768	
Project Location	EXAMINA CI	13		

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 (inches)	CI	Sample Description assification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Monitorin its: PPM BH		Drilling Conditions & Blow Counts
	6	43-45		SAA, Bosing	terminated at 45	,			%	1506
10										
20										
31										
	ю									

Comments:	Somple calleted at 43 to 45. BH grouted to Surface
0011111	
	Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

Lab ID Field ID *JWK25 947274 SAMPLE NUMBER: Ballard #1 70768 MTR CODE | SITE NAME: 08-17-95 15:06 SAMPLE DATE | TIME (Hrs): PROJECT: DATE OF TPH EXT. | ANAL.: 8/21 DATE OF BTEX EXT. | ANAL.: Dark himm TYPE | DESCRIPTION: VG

Field Remarks:

RESULTS

PARAMETER		RESULT	UNITS	QUALIFIERS			
			41	DF	Q	M(g)	V(ml)
BENZENE	7	. 5	MG/KG		F		
TOLUENE	4	. 5	MG/KG				
ETHYL BENZENE	<	. 5	MG/KG		_		
TOTAL XYLENES	<	1.5	MG/KG				
TOTAL BTEX	4	3	MG/KG				
TPH (418.1)		33.18	% MG/KG			2.04	28
HEADSPACE PID		8	PPM				
PERCENT SOLIDS		93.7	%				

The Surrogate Recovery was at	96%	•	All QA/QC was acceptable.	
Narrative: Benzene TAken	from FID.			

```
************************
                 Test Method for
     Oil and Grease and Petroleum Hydrocarbons
                in Water and Soil
                                                本
          Perkin-Elmer Model 1600 FT-IR
                 Analysis Report
*******************
95/08/21 15:07
  Sample identification
947274
  Initial mass of sample, g
 2.040
  Volume of sample after extraction, ml
28.000
  Petroleum hydrocarbons, ppm
 33.120
* Net absorbance of hydrocarbons (2930 cm-1)
0.014
                                                            15:07
         Y: Petroleum hydrocarbons spectrum
98.88
  ^{2}T
```

3000

3200

2800

 cm^{-1}

BTEX SOIL SAMPLE WORKSHEET

File	:	94/2/4	Date Printed : 8/24/95
Soil Mass	(g) :	4.99	Multiplier (L/g) : 0.00100
Extraction vol. (n	ոL) :	20	DF (Analytical) : 200
Shot Volume (ıL) :	100	DF (Report) : 0.20040
			Det. Limit
Benzene (ug	/L) :	0.00	Benzene (mg/Kg): 0.000 0.501
, •	/L) :	0.00	Toluene (mg/Kg): 0.000 0.501

0.000 Ethylbenzene (ug/L): Ethylbenzene (mg/Kg): 0.501 0.00 p & m-xylene (ug/L): 0.00 p & m-xylene (mg/Kg): 0.000 1.002 o-xylene (ug/L): o-xylene (mg/Kg): 0.000 0.501 0.00

Total xylenes (mg/Kg): Total BTEX (mg/Kg): 0.000 1.503

0.000

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\082195-0.012 Method : C:\LABQUEST\METHODS\9000.MET

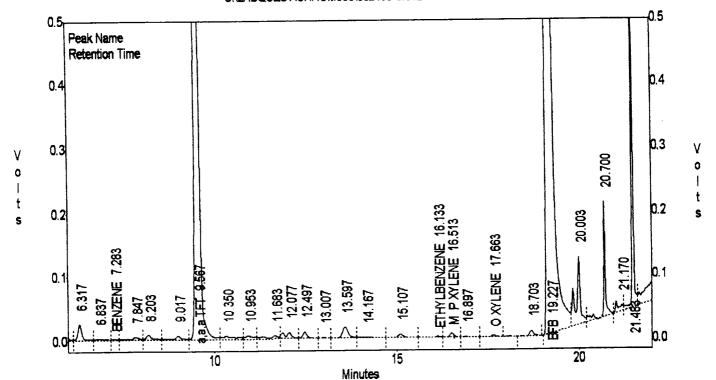
Sample ID : 947274,4.99G,100U Acquired : Aug 21, 1995 19:57:21 Printed : Aug 21, 1995 20:23:35

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.283	10133	-2.4391
a,a,a TFT	9.567	9218191	93.4881
TOLUENE	11.907	0	0.0000
ETHYLBENZENE	16.133	22634	-0.3024
M & P XYLENE	16.513	54384	-3.0944
O XYLENE	17.663	28234	-0.2036
BFB	19,227	71881472	95.6671

C:\LABQUEST\CHROM000\082195-0.012 -- Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\082195-0.012 Method : C:\LABQUEST\METHODS\9000.MET

Sample ID : 947274,4.99G,100U Acquired : Aug 21, 1995 19:57:21 Printed : Aug 21, 1995 20:23:40

User : MARLON

Channel B Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	7.243	0	0.0000
a,a,a TFT	9.573	301783	98.8503
TOLUENE	11.887	0	0.0000
ETHYLBENZENE	16.123	0	0.0000
M & P XYLENE	16.500	0	0.0000
O XYLENE	17.637	0	0.0000
BFB	19.217	1739615	108.6187

C:\LABQUEST\CHROM000\082195-0.012 - Channel B

