EPFS PIT CLOSURE SUMMARY

Denny E. Foust
DEPUTY OIL & GAS INSPECTOR
JUL 17 1998
Approved

Ballard No. 2
Meter/Line ID - 70775

SITE DETAILS

Legals - Twn: 26 **Rng:** 9 **Sec:** 10 **Unit:** P
NMOCD Hazard Ranking: 30 **Land Type:** BLM
Operator: Meridian

PREVIOUS ACTIVITIES

Site Assessment: 6/20/94 **Excavation:** 8/11/94 **Soil Boring:** 8/18/95
Monitor Well: N/A **Re-Excavation:** N/A **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 below 100 ppm at 12 feet bgs. Excavation was terminated and a sample was collected. Sample analysis indicated BTEX compounds were below standards, but TPH was above standards at 169 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 coarse grained sand. A sample was collected for BTEX and TPH analysis at 18-20 feet bgs. Laboratory analysis showed all BTEX compounds to be below detection limits and TPH analysis indicated 31.9 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 6 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 initial excavation will naturally degrade in time with minimal risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

11

GENERAL

Meter: 70775 Location: Ballard No. 2
Operator #: 2999 Operator Name: Meridian P/L District: Ballard
Coordinates: Letter: P Section 10 Township: 26N Range: 9W
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6-20-94 Area: 11 Run: 91

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
Inside ☒ (1)
Outside ☐ (2)

Land Type:
BLM ☒ (1)
State ☐ (2)
Fee ☐ (3)
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)

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)~~ KGW 6-20-94
200 Ft to 1000 Ft (10 points) ☒ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body Reed Canyon Wash
(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

RECEIVED
MAR - 8 1995
OIL CON. DIV.
DIST. 3

Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 30 **POINTS**

REMARKS

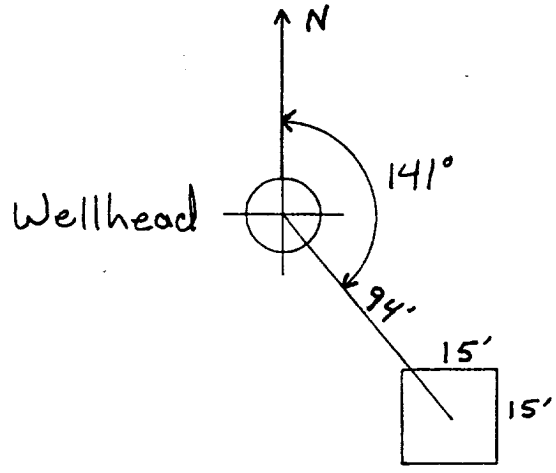
Remarks : one pit on location - dry
Inside V.Z. on Redline & Topo
Dig & Haul

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 141 Footage from Wellhead 94

b) Length : 15 Width : 15 Depth : 3



REMARKS

Remarks :

Photos - 1540

Completed By:

Ken Valt

Signature

6-20-94

Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70775 Location: Ballard #2

Coordinates: Letter: P Section 10 Township: 26N Range: 9W

Or Latitude _____ Longitude _____

Date Started : 8/11/94 Run: 11 91

FIELD OBSERVATIONS

Sample Number(s): KD 206 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 0ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation	☐	Approx. Cubic Yards 0
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☒	

Soil Disposition:

Envirotech ☐ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 8/11/94 Pit Closed By: BEI

REMARKS

Remarks : ~~Er~~ KD @ 11-94 Dug test hole to 12', took pid sample, closed pit

Signature of Specialist: _____

(SP3191) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD 206	945899
MTR CODE | SITE NAME:	70775	N/A
SAMPLE DATE | TIME (Hrs):	8-11-94	1020
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	8-16-94	8/16/94
DATE OF BTEX EXT. | ANAL.:	8/17/94	8/18/94
TYPE | DESCRIPTION:	VG	Brown Fine Sand

REMARKS: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	1			
TOLUENE	<0.025	MG/KG	1			
ETHYL BENZENE	<0.025	MG/KG	1			
TOTAL XYLENES	<0.025	MG/KG	1			
TOTAL BTEX	<0.10	MG/KG				
TPH (418.1)	169	MG/KG			2.07	28
HEADSPACE PID	0	PPM				
PERCENT SOLIDS	90.0	%	--			

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

The Surrogate Recovery was at 94 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: JF Date: 9/4/94

Test Method for
il and Grease and Petroleum Hydrocarbons
r Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

14/01/16 12:00

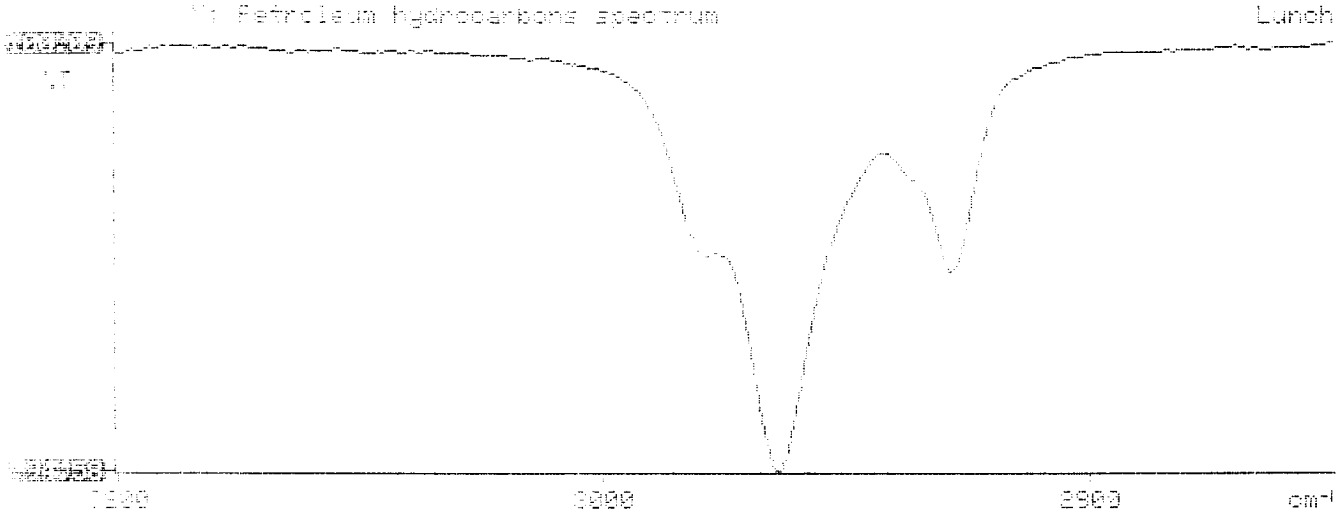
Sample Identification

Initial mass of sample, g

Volume of sample after extraction, ml

Petroleum hydrocarbons, ppm

Net Absorbance of hydrocarbons (2930 cm-1)



Analytical Technologies, Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

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

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408364
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945898	NON-AQ	08/11/94	08/17/94	08/18/94	1
02	945899	NON-AQ	08/11/94	08/17/94	08/18/94	1
03	945900	NON-AQ	08/11/94	08/17/94	08/18/94	10

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	<0.025	<0.025	<0.25
TOLUENE	MG/KG	<0.025	<0.025	2.9
ETHYLBENZENE	MG/KG	<0.025	<0.025	1.4
TOTAL XYLENES	MG/KG	<0.025	<0.025	25
SURROGATE: BROMOFLUOROBENZENE (%)		98	94	88

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1
Well #
Page 1 of 1

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

JWK 30

Project Name EPNG Pits
Project Number 14509 Phase 6000.77
Project Location Ballard No 2 70775

Elevation
Borehole Location T26N, R9W, S10, P
GWL Depth
Logged By Jeff W. Kindley
Drilled By G. Suddath
Date/Time Started 08/18/95 1315
Date/Time Completed 08/18/95 1345

Well Logged By Jeff W. Kindley
Personnel On-Site D. Roberts, G. Suddath, H Keil
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)	Air Monitoring Units: PPM BZ	BH	S	Drilling Conditions & Blow Counts
0				BackFill material to 12'						
5										
10										
15										
20	1	18-20'	1.6/2.0	SW, brown sand, coarse grained, moist, medium dense, no odor. Boring terminated at 20'					3/2	1328 27 blows per foot
25										
30										
35										
40										

Comments: Sample collected From 18 to 20' and submitted For analysis of BTEX and TPH. BH grouted to the surface

Geologist Signature Jeffrey Kindley

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JWK30	947284
MTR CODE | SITE NAME:	70775	Ballard No. 2
SAMPLE DATE | TIME (Hrs):	08-18-95	1328
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	8/21/95	8-21-95
DATE OF BTEX EXT. | ANAL.:	8/23/95	8/23/95
TYPE | DESCRIPTION:	VG	Light brown sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< .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)	R 8/23/95 32 = 31.9	MG/KG			2.0	28
HEADSPACE PID	2	PPM				
PERCENT SOLIDS	97.5	%				

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

The Surrogate Recovery was at 102 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: _____ Date: 8/28/95

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**********************************************************
*                    Test Method for                     *
*      Oil and Grease and Petroleum Hydrocarbons         *
*                   in Water and Soil                    *
*                                                        *
*             Perkin-Elmer Model 1600 FT-IR              *
*                    Analysis Report                     *
**********************************************************
*
 95/08/21  16:03
*
*  Sample identification
 947284
*
*  Initial mass of sample, g
 2.000
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 31.860
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.014
*
*
*
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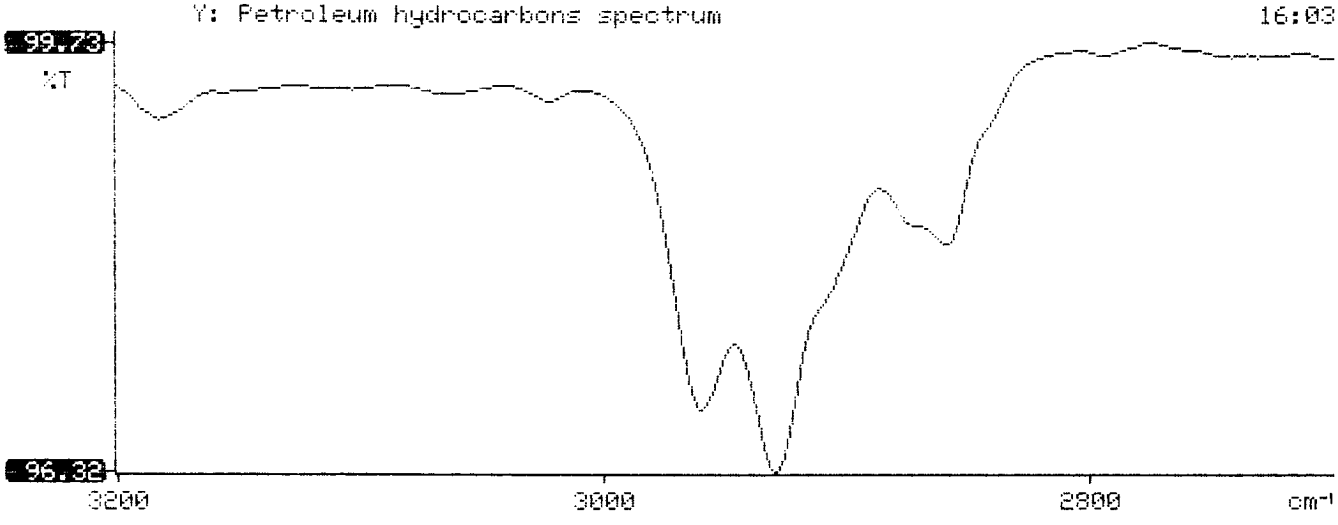

BTEX SOIL SAMPLE WORKSHEET

File	947284	**Date Printed**	8/25/95	
Soil Mass (g)	5	**Multiplier (L/g)**	0.00100	
Extraction vol. (mL)	20	**DF (Analytical)**	200	
Shot Volume (uL)	100	**DF (Report)**	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/Kg):	0.000	1.000
o-xylene (ug/L)	0.00	o-xylene (mg/Kg):	0.000	0.500
		Total xylenes (mg/Kg):	**0.000**	1.500
		Total BTEX (mg/Kg):	**0.000**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\082395-1.021
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947284,5.00G,100U
Acquired : Aug 24, 1995 04:28:33
Printed : Aug 24, 1995 04:54:52
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.440	0	0.0000
a,a,a TFT	4.883	4890131	94.0234
TOLUENE	6.813	74379	-0.5417
ETHYLBENZENE	10.513	0	0.0000
M & P XYLENE	10.867	115388	-4.8356
O XYLENE	11.957	0	0.0000
BFB	13.367	73524136	102.0691