ERES PIT CLOSURE SUMMARY

Denny Foust

DEPUTY OIL & GAS INSPECTOR

JUL 17 1998

Approved

MKL # 6
Meter/Line ID - 70078

SITE DETAILS

Legals - Twn: 26 **Rng:** 7 **Sec:** 6 **Unit:** D
NMOCD Hazard Ranking: 30 **Land Type:** FEE
Operator: Louis Dreyfus

PREVIOUS ACTIVITIES

Site Assessment: 6/14/94 **Excavation:** 7/26/94 **Soil Boring:** 7/28/95
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 subsurface soils to be 274 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 below standards at 36 mg/kg and TPH was above standards at 1,470 mg/kg. A test boring was drilled in the center of the initial excavation to determine the vertical extent of the impact to soils. The soil lithology consisted of a brown silt, which continued to the termination of the boring at 15.75 feet bgs. A sample was collected for BTEX and TPH analysis at 15-15.75 feet bgs. Laboratory analysis showed total BTEX to be below laboratory detection limits and TPH present at 66.8 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 3 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.

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 70078 Location: MKL #6
Operator #: 0448 Operator Name: LOUIS DREYFUS P/L District: BALLARD
Coordinates: Letter: D Section 6 Township: 26 Range: 7
Or Latitude _____ Longitude _____
Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____
Site Assessment Date: 6-14-94 Area: 07 Run: 51

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)
200 Ft to 1000 Ft (10 points) ☒ (2)
Greater Than 1000 Ft (0 points) ☐ (3)
Name of Surface Water Body CAÑON LARGO

RECEIVED
MAR - 9 1998
OIL CON. DIV.
DIST. 3

(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: 30 **POINTS**

REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS IN LARGO CANYON. REDLINE AND TOPO CONFIRMED LOCATION IS INSIDE V.Z.

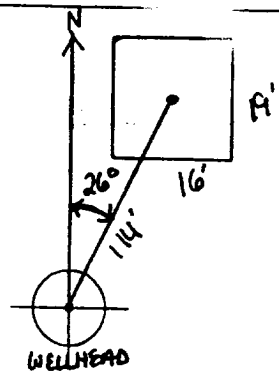
DIG & HAUL

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from N - 26° Footage from Wellhead 114'

b) Length : 19' 16' Depth : 2'



REMARKS

Remarks :

TOOK PICTURES AT 3:15 P.M.
END DUMP

Completed By:

Robert Thompson
Signature

6-14-94
Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 70078 Location: MKL #6

Coordinates: Letter: D Section 6 Township: 26 Range: 7

Or Latitude _____ Longitude _____

Date Started : 7/26/94 Run: 07 51

FIELD OBSERVATIONS

Sample Number(s): ~~KD 164~~ 165 KD 7-26-94 _____ _____ _____

Sample Depth: 12' Feet

Final PID Reading 274 ppm PID Reading Depth 12' Feet

	Yes	No
Groundwater Encountered	☐	☒

Approximate Depth _____ Feet

CLOSURE

Remediation Method :

Excavation ☒ Approx. Cubic Yards 80

Onsite Bioremediation ☐

Backfill Pit Without Excavation ☐

Soil Disposition:

Envirotech ☒ ☐ Tierra

Other Facility ☐ Name: _____

Pit Closure Date: 7/26/94 Pit Closed By: BEI

REMARKS

Remarks : Excavated pit to 12', Took P.D Sample, Closed Pit.

Signature of Specialist: Kerry Dean

(SP3181) 03/16/94

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KD165	945761
MTR CODE | SITE NAME:	70078	N/A
SAMPLE DATE | TIME (Hrs):	7-26-94	1520
SAMPLED BY:	N/A	
DATE OF TPH EXT. | ANAL.:	7-28-94	7/28/94
DATE OF BTEX EXT. | ANAL.:	7/29/94	7/29/94
TYPE | DESCRIPTION:	VC	Coarse DK Brown Sand/Clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.025	MG/KG	20			
TOLUENE	<0.025	MG/KG	20			
ETHYL BENZENE	<0.025	MG/KG	20			
TOTAL XYLENES	36	MG/KG	20			
TOTAL BTEX	36	MG/KG				
TPH (418.1)	1470	MG/KG			2.02	28
HEADSPACE PID	274	PPM				
PERCENT SOLIDS	89.8	%				

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

The Surrogate Recovery was at 93 % for this sample All QA/QC was acceptable.

Narrative: ATI results attached.

DF = Dilution Factor Used

Approved By: Date: 8/12/94

Test Method for
Oil and Grease and Petroleum Hydrocarbons
in Water and Soil

Perkin-Elmer Model 1600 FT-IR
Analysis Report

24/07/29 13:53

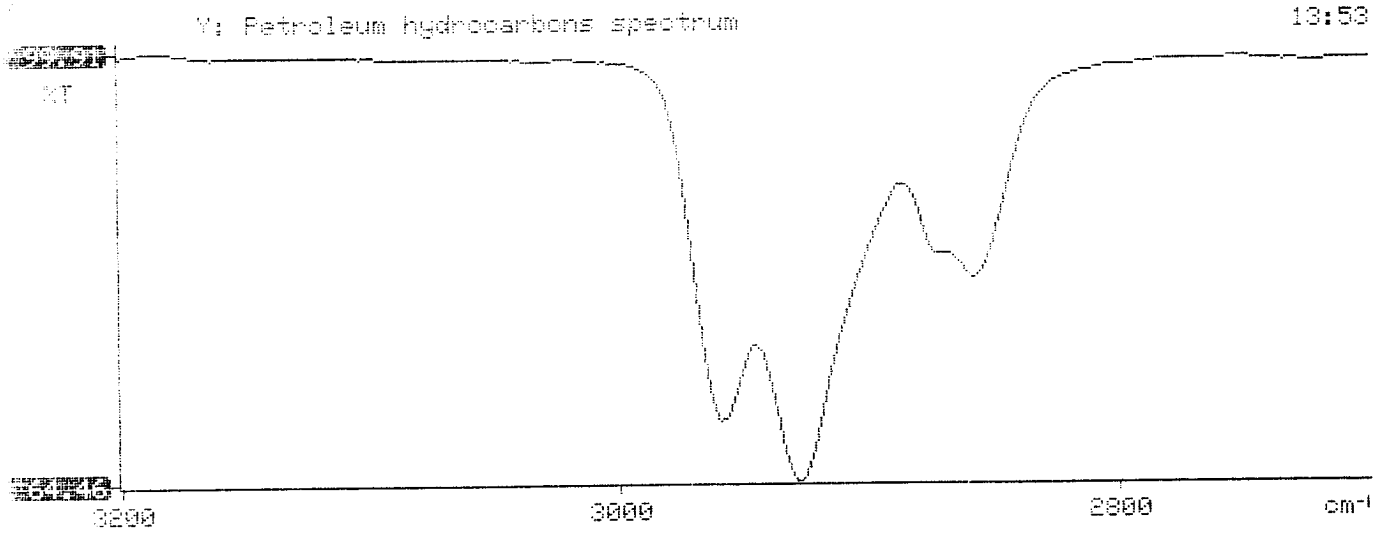
Sample identification
245741

Initial mass of sample, g
1.020

Volume of sample after extraction, ml
28.000

Petroleum hydrocarbons, ppm
1471.511

Net absorbance of hydrocarbons (2930 cm-1)
0.188



Analytical Technologies, Inc.

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

ATI I.D. **407422**

August 3, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On **07/29/94**, 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.

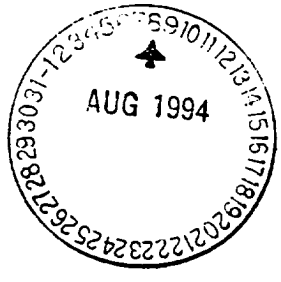
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Letitia Krakowski, Ph.D.
Project Manager

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.: 407422
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945759	NON-AQ	07/25/94	07/29/94	07/29/94	20
02	945760	NON-AQ	07/26/94	07/29/94	07/29/94	1
03	945761	NON-AQ	07/26/94	07/29/94	07/29/94	20

PARAMETER	UNITS	01	02	03
BENZENE	MG/KG	0.90	<0.025	<0.025
TOLUENE	MG/KG	11	<0.025	<0.025
ETHYLBENZENE	MG/KG	8.4	<0.025	<0.025
TOTAL XYLENES	MG/KG	110	<0.025	36
SURROGATE: BROMOFLUOROBENZENE (%)		90	82	93

PHASE II

RECORD OF SUBSURFACE EXPLORATION

Burlington Environmental Inc.
4000 Monroe Road
Farmington, New Mexico 87401
(505) 326-2262 FAX (505) 326-2388

Borehole # BH-1
Well #
Page 1 of 1

Project Name: EPNG PITS
Project Number: 14509 Phase: 6000.77
Project Location: MKL #6 70078

Elevation:
Borehole Location: [illegible] D-S6-T26-R7
GWL Depth:
Logged By: J.F. LaBarbera
Drilled By: K. Padilla
Date/Time Started: 7/28/95 - 1417
Date/Time Completed: - 1445

Well Logged By: J.F. LaBarbera
Personnel On-Site: K. Padilla, F. Rivera, ~~D. Charlie~~ R. Padilla
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	HS	Drilling Conditions & Blow Counts
0–12				Fill						
15	1	15-15.75	10	Brown, med. stiff, SILT, dry, no odor noted TOB = 15.75'	ML		0	0.9	32 / 0.3	1425

Comments: Sample JFL 32 from 15-15.75' sent to lab for BTEX/TPH analysis

Geologist Signature: [signature]

7/14/95\DRILLOG.XLS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JFL32	947107
MTR CODE | SITE NAME:	70078	MKL #6
SAMPLE DATE | TIME (Hrs):	7/28/95	1425
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. | ANAL.:	7/31/95	7/31/95
DATE OF BTEX EXT. | ANAL.:	8/2/95	8/3/95
TYPE | DESCRIPTION:	VG	Fine light brown sand

Field Remarks: _____

ATI RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.03	MG/KG				
TOLUENE	<0.03	MG/KG				
ETHYL BENZENE	<0.03	MG/KG				
TOTAL XYLENES	<0.03	MG/KG				
TOTAL BTEX	<0.1	MG/KG				
TPH (418.1)	66.8	MG/KG			2.03	28
HEADSPACE PID	37	PPM				
PERCENT SOLIDS	96.2	%				

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

The Surrogate Recovery was at 103 for this sample All QA/QC was acceptable.

This Sample was analyzed for BTEX by ATI.

DF = Dilution Factor Used

Approved By: John Faulkner Date: 8/10/95

Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 508310
PROJECT # : 24324
PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947106	NON-AQ	07/28/95	08/02/95	08/03/95	1
05	947107	NON-AQ	07/28/95	08/02/95	08/03/95	1

PARAMETER	UNITS	04	05
BENZENE	MG/KG	<0.025	<0.025
TOLUENE	MG/KG	<0.025	<0.025
ETHYLBENZENE	MG/KG	<0.025	<0.025
TOTAL XYLENES	MG/KG	<0.025	<0.025
SURROGATE:			
BROMOFLUOROBENZENE (%)		99	103

Analytical Technologies, Inc.

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

ATI I.D. **508310**

August 7, 1995

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

Project Name/Number: PIT CLOSURE/PHASE I & PHASE II DRILLING
24324

Attention: John Lambdin

On **08/02/95**, 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

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure

El Paso Natural Gas Company

Pit # 2 Drilling

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (Signature) John Barbara DATE: 7/28/95

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID		PID HS	SEQUENCE #	REMARKS
	7/28/95	0922	Soil	JFL 31	1	VG	X	X			819	27	70595 Hammond Fed. #1 (25-~~25.75~~ 26') Bagged & Iced
	7/28/95	1425	Soil	JFL 32	1	VG	X	X			37	28	70078 MKL #6 (15-15.75') Bagged & Iced

CONTRACT LABORATORY P. O. NUMBER

REQUESTED ANALYSIS

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
John Barbara 3rd	7/28/95	Kelly Stovall	Kelly Stovall	7/31/95	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565 A (Rev. 05-94)