

DRYDEN 2E Meter/Line ID - 95174

SITE DETAILS

Legals - Twn: 28 **NMOCD Hazard Ranking: 40**

Rng: 08

Sec: 22

Land Type: 2 - Federal

Operator: KOCH EXPLORATION COMPANY

Pit Closure Date: 06/10/94

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 minimat risk to the environment.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 95174 Location: Oryles 2E Operator #: 554D Operator Name: KOCH P/L District: BLAN() Coordinates: Letter: Section 22 Township: 28 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Other: Site Assessment Date: 5/20/14 Area: 13 Run: 62									
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) Is it less than 200 ft from wells, springs, or other sources of fresh water extraction?, or; is it less than 200 ft from a private domestic water source? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) (3) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) (3) Name of Surface Water Body (5) Greater Than 1000 Ft (0 points) (5) (6) Greater Than 1000 Ft (0 points) (7) (8) (9) Greater Than 1000 Ft (10 points) (10) (11) (22) Greater Than 1000 Ft (10 points) (33) Name of Surface Water Body (5) (5) (5) (5) (5) (6) (7) (7) (7) (7) (8) (9) (10									
ß	TOTAL HAZARD RANKING SCORE: 40 POINTS									
REMARKS	Remarks: Redline & Vuln - Inside 3 pits. Clase L. Pit Dry									
REM	VIC VIIVIN									
	DIG4 HAUL									

J.

Z	ORIGINAL PIT LOCATION 97' Original Pit: a) Degrees from North 190° Footage from Wellhead 190° b) Length: 22' Width: 22' Depth: 7'
ORIGINAL PIT LOCATION	22°
	Remarks:
	END DUMP
RKS	
REMARKS	
,	
	Completed By:
	Signature $5/20/94$

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLUSURE FORM

GENERAL	Meter: 95174 Location: DrydeN 2E Coordinates: Letter: I Section 22 Township: 28 Range: 8 Or Latitude Longitude Date Started: 6-10-94 Area: 13 Run: 62
FIELD OBSERVATIONS	Sample Number(s): 49 Feet Sample Depth: 12 Feet Final PID Reading 449 PID Reading Depth 12 Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 6-10-94 Pit Closed By: B.ET
SHANNAC	
1	(SP3191) 04/07,



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 99	9-15-425
MTR CODE SITE NAME:	95174	N/A
SAMPLE DATE TIME (Hrs):	4-10-94	1347
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	6-13-94	6/13/94
DATE OF BTEX EXT. ANAL.:	6/15/94	6/18/94
TYPE DESCRIPTION:	√ C,	Blacklorey Fine Sand
• • • • • •		

REMARKS:	

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
			DF	Q	M(g)	V(ml)	
BENZENE	L0.50	MG/KG	20				
TOLUENE	43	MG/KG	20				
ETHYL BENZENE	6.1	MG/KG	20				
TOTAL XYLENES	210	MG/KG	20				
TOTAL BTEX	260	MG/KG					
TPH (418.1)	4190	MG/KG			2.07	28	
HEADSPACE PID	449	PPM					
PERCENT SOLIDS	93.6	%					

The Surrogate Recovery was at 63 % for this sample All QA/QC was acceptable.

Narrative:

ATTI results attached. Surrogate recovery was outside

ATTI QC Imits due to marrix in terrogate.

DF = Dilution Factor Used

Date: 7/17/94

```
in Water and Soil
          Perkin-Elmer Model 1600 FT-IR
20.006/15 12:11
Tample identification
 Thitial mass of sample, g
Volume of sample after extraction, ml
ZE.300
* Petroleum hydrocarbons, ppm
-4177.709
- Net abscrbance of hydrocarbons (2930 cm-1)
-0.347
                                                           12:11
        M: Fetroleum hydrocarbons spectrum
\times \mathsf{T}
```

3000

3290

2890

 $\in \mathbb{M}^{-1}$



ATI I.D. 406351

July 08, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 06/14/94, 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.

This report is being reissued to correct surrogate notation for sample 945425.

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

Letitia Krakowski, Ph.D.

Project Manager

MR: jd

Enclosure

Laboratory Manager

H. Mitchell Rubenstein, Ph.D.





GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 406351

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
25	945424	NON-AQ	06/10/94	06/15/94	06/17/94	1
26	945425	NON-AQ	06/10/94	06/15/94	06/18/94	20
27	945426	NON-AQ	06/10/94	06/15/94	06/18/94	20
PARAME	TER		UNITS	25	26	27
BENZEN	E		MG/KG	<0.025	<0.50	<0.50
TOLUEN	E		MG/KG	0.030	43	16
ETHYLB	ENZENE		MG/KG	<0.025	6.1	5.9
TOTAL	XYLENES		MG/KG	0.11	210	120
SURROG	ATE:					
BROMOF	LUOROBENZENE	(%)		106	63*	44*

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

PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

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

Elevation

Borehole Location QT-522-T28-R8

GWL Depth
Logged By
Drilled By
Date/Time Started
Date/Time Completed

Borehole #		BH	-1	
Well#				
Page	ĺ	of	l	Z .

Project Name FPNG P: +5
Project Number 14509 Phase 6000 - 77
Project Location Dryden 2F 95174

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

Drilling Method 4/4"TO HS4

Air Monitoring Method PID GF

Depth Sam (Feet) Num	1	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Monitori nits: ND		Drilling Conditions & Blow Counts
0	l l	55 10"	SAND, fine-grand, set dark gray, stong hydrocarbon eder, moist SAND, bus quined, beny set, sandy CLAY, very sett, black, strong hydrocarbon odor, moret, incherate plasticity CLAY, soft, moderate plasticit [strong brown, no odon, moist] 25.5' clayer SAND, fine-gran locise, brown, moist, to gypsu 27' - TD	1	19 25 25.5	7-1 91 48 48	to at 1	

Comments: (a)ketal sample PLM2 (3th (25-27') PLM3 (dup), and PLM4 (tirld blanks

Sent to lab (MTEX, TPH), BH growthed to surface, Sample brigged and

Scal prior to parking in San.

Geologist Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

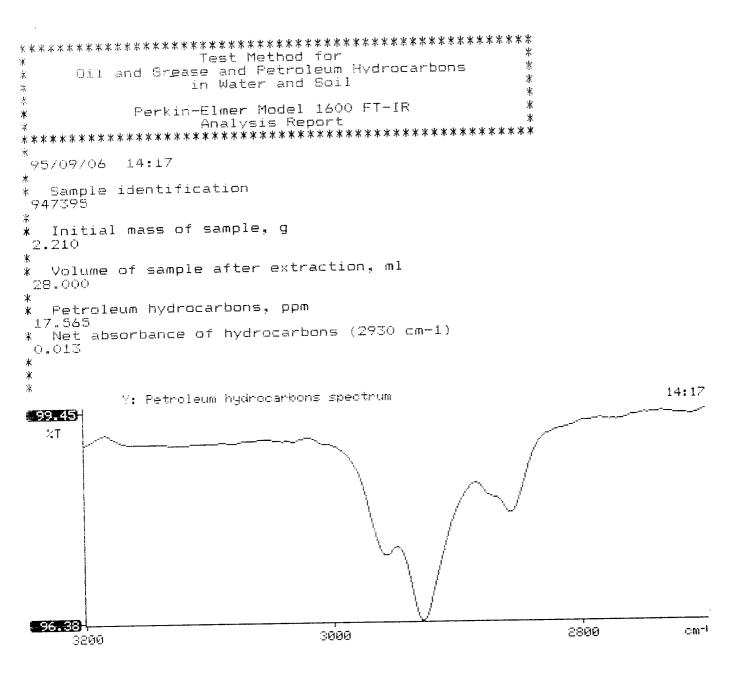
	Field ID	Lab ID
SAMPLE NUMBER:	PLM2	947395
<u> </u>	95174	Dryden 2E
MTR CODE SITE NAME:	19-05-95	1302
SAMPLE DATE TIME (Hrs):	Phase II Drilling	
PROJECT:	Phase II Dress	9-6-95
DATE OF TPH EXT. ANAL.:	61 10	9/1/95
DATE OF BTEX EXT. ANAL.:	7/6/95	
TYPE DESCRIPTION:	V6	DARK BROWN SAND + CLAY

Field Remarks: _		
	RESULTS	

	RESULT	UNITS	QUALIFIERS		IERS		
PARAMETER	RESULT		DF	Q	M(g)	V(ml)	
BENZENE	4 0.5	MG/KG					
TOLUENE	۷ 0.5	MG/KG					
ETHYL BENZENE	4 0.5	MG/KG			 		
TOTAL XYLENES	4 1.5	MG/KG					
TOTAL BTEX	4 3	MG/KG				10	
TPH (418.1)	17.6	MG/KG			2.21	128	
HEADSPACE PID	8	PPM					
PERCENT SOLIDS	87.8	%					

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

he Surrogate Recovery was at larrative:	99%	for this sample	All QA/QC was acceptable.	
OF = Dilution Factor Used				
SE E Dilation Lactor Good			Date:	9-13-95



BTEX SOIL SAMPLE WORKSHEET

File Soil Mass Extraction vol Shot Volume	s (g) : l. (mL) :	947395 5.09 20 100	Date Printed : Multiplier (L/g) : DF (Analytical) : DF (Report) :	9/12/95 0.00098 200 0.19646
				Det. Limit
Benzene	(ug/L) :	0.00	Benzene (mg/Kg):	0.000 0.491
Toluene	(ug/L) :	0.00	Toluene (mg/Kg):	0.000 0.491
Ethylbenzene	(ug/L) :	0.00	Ethylbenzene (mg/Kg):	0.000 0.491
p & m-xylene	(ug/L) :	0.00	p & m-xylene (mg/Kg):	0.000 0.982
o-xylene	(ug/L) :	0.00	o-xylene (mg/Kg):	0.000 0.491
O-Aylono	(-9/	-	Total xylenes (mg/Kg):	0.000 1.473
			Total BTEX (mg/Kg):	0.000

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\091195-0.001
Method : C:\LABQUEST\METHODS\9000.met

Sample ID : 947395,5.09g,100u Acquired : Sep 11, 1995 11:07:20 Printed : Sep 11, 1995 11:37:42

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE a,a,a-TFT TOLUENE ETHYLBENZENE M,P-XYLENES O-XYLENE BFB	7.983	45655	-1.1327
	11.340	12349473	95.6849
	14.350	526163	-1.1881
	19.363	186404	-1.0530
	19.777	1073252	-3.2723
	21.037	166613	-0.7915
	22.787	112385288	98.5940

