MEC 2 1 1998

SAN JUAN 27-5 #48 PC Meter/Line ID - 72429

SITE DETAILS

DECEIVED

Legals - Twn: 27

Rng: 05

Sec: 19

Unit: K

Land Type: 4 - Fee

Pit Closure Date: 03/21/95

OIL COM. DIV

NMOCD Hazard Ranking: 20 Operator: MERIDIAN OIL INC

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.



FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72429 Location: SAN JUAN 27.5 #48 PC Operator #: Operator Name: MERIDIAN P/L District: BLOOMFIELD Coordinates: Letter: K Section 19 Township: 27 Range: 5 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 3.13.95 Area: 10 Run: 52						
	NMOCD Zone: Land Type: BLM □ (1) (From NMOCD State □ (2) Maps) Inside □ (2) Fee □ (3) Outside □ (2) Indian □ Bepth to Groundwater □ (2) □ (2) □ (2) Less Than 50 Feet (20 points) □ (2) □ (2) Greater Than 100 Ft (0 points) □ (3) □ (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						
	(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:						
KS	Remarks: PERLINE : TOPO SHOW LOCATION INSIDE V.Z. TWO PITS ON						
REMARKS	LOCATION, LOCATION DRIP PIT RELENGS TO EPNG. WILL CLOSE PIT.						
RE	~ · · · · · · · · · · · · · · · · · · ·						

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72429 Location: SANJUAN 27-5 #48 PC Coordinates: Letter: K Section 19 Township: 27 Range: 5 Or Latitude Longitude Date Started: 3-21-95 Run: 10 52
FIELD OBSERVATIONS	Sample Number(s): $\cancel{KP459}$ Sample Depth: $\cancel{9'}$ Feet Final PID Reading $\cancel{044}$ PID Reading Depth $\cancel{9'}$ Feet Yes No Groundwater Encountered \square Approximate Depth \square Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 3-21-95 Pit Closed By: 18-5-7
REMARKS	Remarks: No line markers. started Remediating to 12' Soil light gray with a light His order. At 9' samfled 044 Closed Pit. Signature of Specialist: Kelly Palille (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP 458	944752
MTR CODE SITE NAME:	72429	N/A
SAMPLE DATE TIME (Hrs):	3-21-95	1050
SAMPLED BY:	N	I/A
DATE OF TPH EXT. ANAL.:	3.23-95	3.23-95
DATE OF BTEX EXT. ANAL.:	3/27/95	4/4/95
TYPE DESCRIPTION:	٧८	Brown fine sand

REN	ИΑ	RK	S:	
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RESULTS

PARAMETER	RESULT	UNITS		QUALIFI	ERS	
			DF	Q	M(g)	V(ml)
BENZENE	<0.50	MG/KG	0,20040		4.99	20
TOLUENE	T 415145 40.500.95	MG/KG				j
ETHYL BENZENE	(0.50	MG/KG				
TOTAL XYLENES	<1.50	MG/KG	+		4	
TOTAL BTEX	0.95	MG/KG				
TPH (418.1)	112	MG/KG			2.30	28
HEADSPACE PID	ما عل	PPM				
PERCENT SOLIDS	90.0	%				

TPH is by EPA Method	1418.1 and BIEX is by EPA	Method 8020
109	_% for this sample	All QA/QC was acceptable.

	 	 	 	
DF = Dilution Factor Used	 	 	 	

46/95

Narrative:

The Surrogate Recovery was at

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Test Method for
     Dil and Grease and Fetroleum Hydrocarbons
案
                                               \frac{1}{2}
                in Water and Soil
*
                                               *
Ŵ,
          Perkin-Elmer Model 1600 FT-IR
*
95/03/23
         10:06
橐
Bample identification 946752
  Initial mass of sample, g
2.000
  Volume of sample after extraction, ml
^{*}
_{\rm dy}^{\rm p}
  Petroleum hydrocarbons, ppm
 111.867
 Net absorbance of hydrocarbons (2930 cm-1)
0.024
李
业
                                                            10:07
         Y: Petroleum hydrocarbons spectrum
4551PF=461
 %T
```

3000

2800

 $Cm^{-\frac{1}{2}}$

WART)

3200

BTEX SOIL SAMPLE WORKSHEET

File	•	:	946752A	Date F	rinted	:	4/5/95	
Soil Mas	s (g)	:	4.99	Multiplier	(L/g)	:	0.00100	
Extraction vol	. (mL)	:	20	DF (Anal	ytical)	:	200	
Shot Volume	e (uL)	:	100	DF (F	leport)	:	0.20040	
								Det. Limit
Benzene	(ug/L)	:	0.00	Benzene	(mg/K	g):	0.000	0.501
Toluene	(ug/L)	:	4.74	Toluene	(mg/K	g):	0.950	0.501
Ethylbenzene	(ug/L)	:	0.00	Ethylbenzene	(mg/K	g):	0.000	0.501
p & m-xylene	(ug/L)	:	5.00	p & m-xylene	(mg/K	(g):	1.002	1.002
o-xylene	(ug/L)	:	0.00	o-xylene	(mg/K	(g):	0.000	0.501
				Total xylenes	(mg/K	g):	1.002	1.503
				Total BTEX	(mg/K	g):	1.952	

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946752A Method : C:\LABQUEST\METHODS\9001.MET

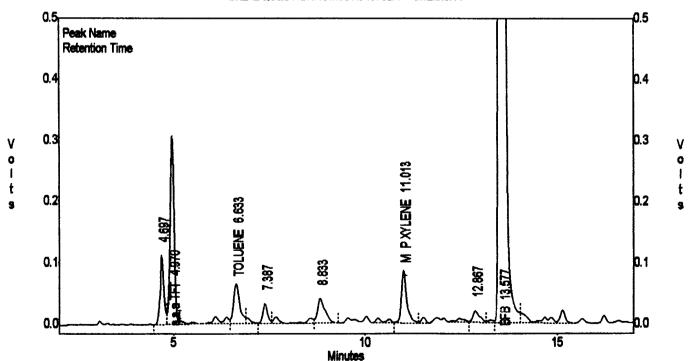
Sample ID : 946752,4.99/100ul. Acquired : Apr 04, 1995 14:28:18 Printed : Apr 04, 1995 14:54:43

User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.383	0	0.00000	0.0000
a,a,a TFT	4.970	2229081	17915.06641	121.9955
TOLUENE	6.633	751823	152782.21875	4.7402
ETHYLBENZENE	10.557	0	0.00000	0.0000
M & P XYLENE	11.013	816987	163191.95313	5.0015
O XYLENE	11.970	0	0.00000	0.0000
BFB	13.577	61569272	563092.56250	108.5304
Totals :				
		65367164		240.2676

C:\LABQUEST\CHROM001\946752A - Channel A



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946752A Method : C:\LABQUEST\METHODS\9001.MET

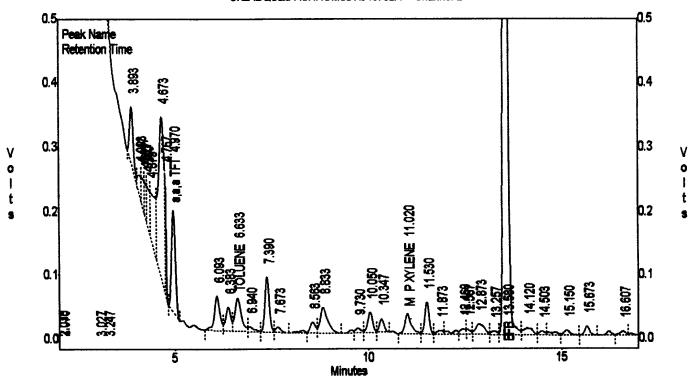
Sample ID : 946752,4.99/100ul. Acquired : Apr 04, 1995 14:28:18 Printed : Apr 04, 1995 14:54:50

User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	avg rf	CONC (ug/L)
DENSENE	3.383	0	0.00000	0.0000
a,a,a TFT	4.970	1100002	9297.03906	112.8946
TOLUENE	6.633	607639	47965.40234	11.8685
ETHYLBENZENE	10.553	0	0.00000	0.0000
M & P XYLENE	11.020	364640	48130.08203	7.1934
O XYLENE	11.963	0	0.00000	0.0000
BFB	13.580	12102531	96504.81250	123.7269
Totals :				
		14174813		255.6834

C:\LABQUEST\CHROM001\946752A -- Channel B



PHASE II

RECORD OF SUBSURFACE E) RATION

Philip Environmental Services Corp. 4000 Morroe Road

Date/Time Completed 7/17/95.

Farmington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation

Borehole Location 127, R5, 5.19, K

GWL Depth

Logged By

Drilled By

Date/Time Started

Drilled Started

Drilled By

Borehole # BH | Well # Page) of [

Project Name	EPNG Pits				
Project Number	14509	Phase	601	6000	Ĺ
Project Location	San Jua	n 27-5	#49	t PC	
				7242	<u>, c</u>
Well Logged By	S.Kelly	Υ			

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

Drilling Method 4441 TD HSA

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change	,	ir Monito Units: NE	ring DU 5/H	Drilling Conditions & Blow Counts
0		15.6.	(inches)	Backfill to 9 Sandy SILT, light brown, 5-20% Fine sand, trace clay, bose, dry Both - 16.5		(feet)	BZ €	ВН	0 5	1000

comments: 15'-16.5' sample (SEK35) sent to lab (BTEX4TPH.) same was bagged and iced prior to being put in jar. BH

Geologist Signature

Phase II

FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	SEK 3S	946981
MTR CODE SITE NAME:	72 429	N/A
SAMPLE DATE TIME (Hrs):	7-12-95	1000
SAMPLED BY:		N/A
SAMPLED BY: DATE OF TPH EXT. ANAL.:	7 - 13· 9S	7-13-95

REMARKS:	

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
			DF	Q	M(g)	V(ml)	
BENZENE	20.025	MG/KG	١				
TOLUENE	40.025	MG/KG	1				
ETHYL BENZENE	40.025	MG/KG	١				
TOTAL XYLENES	20.025	MG/KG	1				
TOTAL BTEX	20.10	MG/KG					
TPH (418.1)	411	MG/KG			1.99	28	
HEADSPACE PID	5	PPM					
PERCENT SOLIDS	92.4	%					

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

Narrative:

AT | Results for BTEX and modified 8015 attacked

DF = Dilution Factor Used

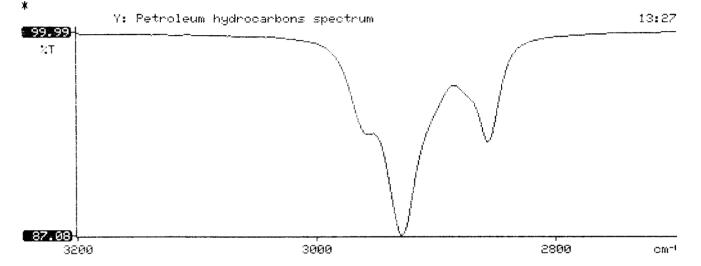
Approved By:

A

Date:

8/3/45

```
Test Method for
     Dil and Grease and Petroleum Hydrocarbons
*
                 in Water and Soil
           Perkin-Elmer Model 1600 FT-IR
                  Analysis Report
******************************
95/07/13
          13:27
  Sample identification
946981
漱
   Initial mass of sample, g
 1.990
  Volume of sample after extraction, ml
 28.000
  Petroleum hydrocarbons, ppm
 411.162
  Net absorbance of hydrocarbons (2930 cm-1)
 0.060
```





ATI I.D. 507340

July 20, 1995

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

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

Attention: John Lambdin

On **07/14/95**, 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.

Mindell

Kimberly D. McNeill Project Manager

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.: 507340

PROJECT #

: 24324

PROJECT NAME : PIT CLOSURE/PHASE I PHASE II

SAMPL ID. #		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
10	946973	NON-AQ	07/11/95	07/17/95	07/18/95	1
12	946981	NON-AQ	07/12/95	07/17/95	07/18/95	1
13	946982	NON-AQ	07/12/95	07/17/95	07/18/95	1
PARAM	ETER		UNITS	10	12	13
BENZE	NE		MG/KG	<0.025	<0.025	<0.025
TOLUE	NE		MG/KG	<0.025	<0.025	<0.025
ETHYL	BENZENE		MG/KG	<0.025	<0.025	<0.025
TOTAL	XYLENES		MG/KG	<0.025	<0.025	<0.025
SURRO	GATE:					
вкомо	FLUOROBENZENE (%)			106	103	98



GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8015 MODIFIED

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 507340

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I PHASE II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
12	946981	NON-AQ	07/12/95	07/14/95	07/14/95	1
14	946983	NON-AQ	07/12/95	07/14/95	07/15/95	1
15	946984	NON-AQ	07/12/95	07/14/95	07/17/95	10
PARAME	TER		UNITS	12	14	15
FUEL H	IYDROCARBONS	-	MG/KG	82	<5	1400
HYDROC	CARBON RANGE			C10-C32	-	C6-C14
HYDROC	CARBONS QUANTIT	TATED USING		DIESEL	-	GASOLINE
SURROG	ATE:					
O-TERF	HENYL (%)			118	108	83