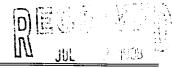
Deputy of PRODUCTION PIT CLOSURE

Legals - Twn: 27

NMOCD Hazard Ranking: 40

DEC 2 1 1998

HAMMOND #55 Meter/Line ID - 89142



SITE DETAILS

Sec: 26 Unit: G

Land Type: 2 - Federal

Operator: GREAT LAKES CHEMICAL CORP

] Rng: 08

Pit Closure Date: 07/28/94

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 minimal risk to the environment.



FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 39142 Location: Hamman No. 55 Operator #: 4605 Operator Name: Chop: Laboration: Ballard Coordinates: Letter: Section 26 Township: 27 Range: 8 Or Latitude Longitude Pit Type: Dehydrator \(\sum_{\text{Location Drip:}} \) Line Drip: Other: Site Assessment Date: \(\sum_{\text{L3/94}} \) Area: \(\sum_{\text{D7}} \) Run: \(\sum_{\text{D2}} \)						
SITE ASSESSMENT	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 Large Canyon (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'						
REMARKS	Remarks: Redline Book-Inside Vunterable Zone Topo-Inside Apits. Will closel. Pithas liquid in it. (colled Ballard)						
RE	DIGHTAUL_						

ORIGINAL PIT LOCATION	Original Pit : a) Degrees from North <u>\[\lambda \loo \] \] Depth : \[\lambda \lambda \] \] b) Length : \[\lambda \lambda \] Width : \[\lambda \loo \] Depth : \[\lambda \loo \] \] \[\lambda \loo \] \[\lambda \loo \] \[\lambda \loo \loo \] \[\lambda \loo \loo \] \[\lambda \loo \loo \loo \] \[\lambda \loo \loo \loo \loo \loo \loo \loo \lo</u>
REMARKS	Remarks: fictures (20940 (4-7)) End Dung
	Completed By: Signature Completed By: 1/13/44 Date

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

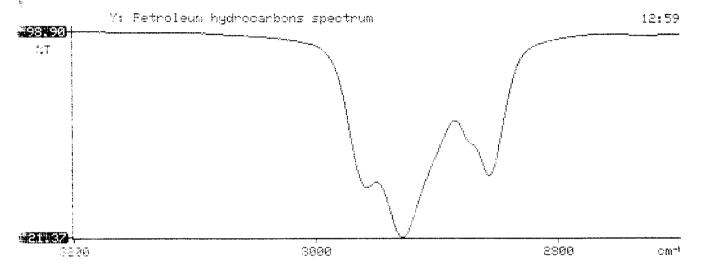
GENERAL	Meter: 39142 Location: Hammond 455 Coordinates: Letter: G Section 26 Township: 27 Range: 8 Or Latitude Longitude Date Started: 7/28/94 Run: 07 32
FIELD OBSERVATIONS	Sample Number(s): KD 172 Sample Depth: 12' Feet Final PID Reading 172 pm PID Reading Depth 12' Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: Excavated pit to 12', Took P:D Sample, Closed Pit. Signature of Specialist:



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

	SAMPLE	IDENTIFICAT	rion		- <u>-</u>		
	Field	ID		Lab ID			
SAMPLE NUMBER:	KD17	λ	9457	83			
MTR CODE SITE NAME: {	89142			N/A			
SAMPLE DATE TIME (Hrs):	7-28-94		1500				
SAMPLED BY:		N/	Α				
DATE OF TPH EXT. ANAL.:	8-2	94	8/2				
DATE OF BTEX EXT. ANAL.:	8 4 94			8 5 94			
TYPE DESCRIPTION:	VC	<u> </u>	Brown	Sand	Clay		
REMARKS:							
		RESULTS					
PARAMETER	RESULT	UNITS		QUALIF	IERS		
PARAMETER	RESOLI		DF	Q	M(g)	V(ml)	
BENZENE	40.13	MG/KG	5				
TOLUENE	40.13	MG/KG	5				
ETHYL BENZENE	0.42	MG/KG	5				
TOTAL XYLENES	6.8	MG/KG	5				
TOTAL BTEX	7.5	MG/KG					
TPH (418.1)	5200	MG/KG			2.04	28	
HEADSPACE PID	172	PPM					
PERCENT SOLIDS	88.2	%		<u> </u>			
	- TPH is by EPA Method	418.1 and BTEX is by EPA % for this samp		T was accer	ntable		
The Surrogate Recovery was at Narrative:	108 ults at	_% for this samp					
DF = Dilution Factor Used							
Approved By:			Date:	9/2/94			

```
Test Method for
     Cil and Grease and Petroleum Hydrocarbons
               in Water and Soil
                                               *
          Perkin-Elmer Model 1600 FT-IR
* Analysis Report * Analysis Report
94/08/02 12:59
Sample identification 945783
  Initial mass of sample, g
2.040
¥
5/12
  Yolume of sample after extraction, ml
28.000
  Fetroleum hydrocarbons, ppm
5201.381
3 Net absorbance of hydrocarbons (2930 cm-1)
0.663
3
```





ATI I.D. 408313

August 12, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/03/94, 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.

8015 analysis was added on 08/08/94 for sample 945789 per John Lambdin.

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



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408313

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

SAMPLE	3		DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.	MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	945781	NON-AQ	07/28/94	08/04/94	08/05/94	10
02	945782	NON-AQ	07/28/94	08/04/94	08/05/94	10
03	945783	NON-AQ	07/28/94	08/04/94	08/05/94	5
PARAMETER			UNITS		02	03
BENZENE			MG/KG		<0.25	<0.13
TOLUEN	NE		MG/KG	10	<0.25	<0.13
ETHYLBENZENE			MG/KG		2.4	0.42
TOTAL XYLENES			MG/KG		37	6.8
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)		71	121*	108

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

PHASE II

RECORD OF SUBSURFACE EXPLORATION

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

Elevation Borehole Location 14ther G-Sa4-Tan-88 GWL Depth Logged By Drilled By Date/Time Started Date/Time Completed

Borehole #

EPNG PITS Project Name 6000.77 14509 Phase Project Number Hammard #53 8914B Project Location Well Logged By Personnel On-Site Contractors On-Site

Drilling Method Air Monitoring Method

Client Personnel On-Site

	Sarr	ole .		Depth				Deilling Conditions
Depth Semp	e Sample Typ		USCS	Lithology	A.	Monito	Shr.	Drilling Conditions & Blow Counts
(Feet) Numb	Interval Reco	ery Classification System: USCS	Symbol	Change		Inits: #8	عجلا	a blow counts
	(incl	es)		(feet)	82	ВН	1	
0	18-19-5 A	Brown, soft, v for sandy, CLAY, wet, ador, med. of At bottom of spoon, Brown, clayer, sity, for. SAND, wet. Brown, satt, clayer, SINT, most, no seer netwo. At bottom of spoon - Brown clayer, sity, fortamed SAM. TOB art 24		t &	31	2.5	In the second se	Ala Had Into 120 Ala Hada Nada Inda

Sangle JFL M sout to lab for BTEX/TPH analysis

Geologist Signature Comments:

7/11/95\DRILLOG.XLS



PhaseII Drilling Hammerd #55 (23-241)

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

947038 N/A
N/Δ
12:47
7.20-95
07-23-95
0,23 13

REMARKS:	
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RESULTS

PARAMETER	RESULT UNITS					
PANAIVIE I EN	(ILOUZ.		DF	Q	M(g)	V(ml)
BENZENE	LO.025	MG/KG	1			
TOLUENE	LO.025	MG/KG	1			
ETHYL BENZENE	40.025	MG/KG	١			
TOTAL XYLENES	40.025	MG/KG	1			
TOTAL BTEX	20.10	MG/KG				
TPH (418.1)	49.6	MG/KG			1.99	28
HEADSPACE PID	7	PPM			e de la companya de l	
PERCENT SOLIDS	82.3	%			e e	

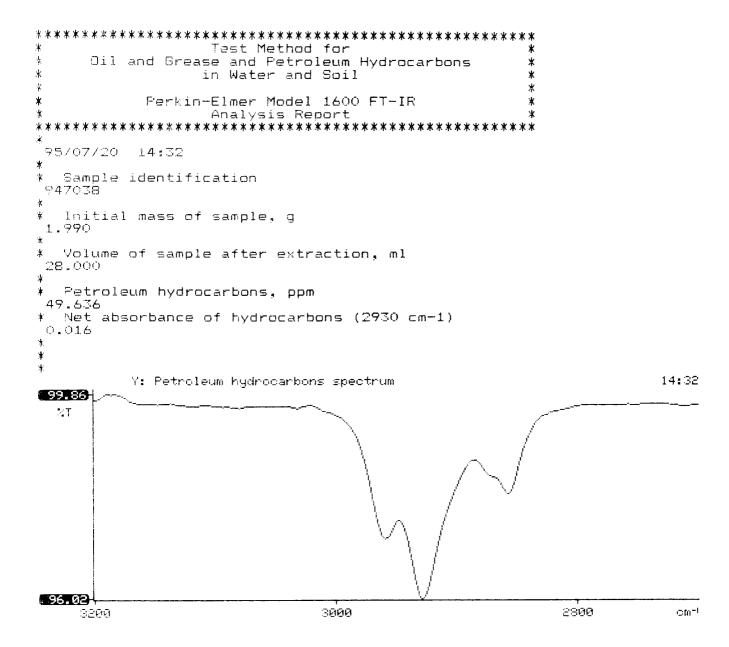
The Surrogate Recovery was at 98 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By:

Date: 8/3/45





ATT T.D. 507388

July 26, 1995

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

Project Name/Number: PIT CLOSURE/PHII DRILL I 24324

Attention: John Lambdin

On 07/21/95, 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

KiMaleill

MR:qsm

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



Corporate Offices: 5550 Morehouse Drive San Diego, CA 92121 (619) 458-9141



GAS CHROMATOGRAPHY RESULTS

: BTEX (EPA 8020)

TEST : BTEX (EPA 8020)
CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 507388

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHII DRILL I

SAMPL ID. =	E CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	947037	NON-AQ	07/19/95	07/21/95	07/22/95	1
05	947038	NON-AQ	07/19/95	07/21/95	07/23/95	1
06	947039	NON-AQ	07/19/95	07/21/95	07/22/95	5 0
PARAMETER			UNITS		05	06
BENZE	NE		MG/KG	<0.025	<0.025	<1.3
TOLUE	NE		MG/KG	<0.025	<0.025	28
ETHYL	BENZENE		MG/KG	<0.025	<0.025	9.0
TOTAL	XYLENES		MG/KG	<0.025	<0.025	79
SURRO	GATE:					
BROMO	FLUOROBENZENE (%)			106	9 E	NA*