DEPUTY CHERRAPIDESCALION PIT CLOSURE

Legals - Twn: 27

DEC 2 1 1998

GRAHAM #51-A Meter/Line ID - 89247

BIRMI, B

COR. DIV.

SITE DETAILS

Sec: 10

Unit: J

Land Type: 4 - Fee

Pit Closure Date: 02/07/95

NMOCD Hazard Ranking: 10 Operator: R & G DRILLING COMPANY

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
- 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 minimal the environment. naturally degrade time with risk

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 89247 Location: Operator Name: & Delune P/L District: Operator #: Operator Name: & Delune P/L District: BLANCO
	NMOCD Zone: Land Type: BLM □ (1) (From NMOCD State □ (2) Maps) Inside □ (1) Fee □ (3) Outside □ (2) □ (2) □ (3) □ (3)
	Depth to Groundwater Less Than 50 Feet (20 points)
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:POINTS
3KS	Remarks: Reduce Shows Tasine But 700 Shows /Orange U.Z.
REMARKS	TWO PITS ON LOCATION. DEHY PIT BELONGS TO RANG. WILL CLOSE PIT. DEHY HAS NOT YET BEEN REMOVED. DEHY STILL OPERATING. PHOW HALL

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 89247 Location: 610 Ham # 51 A Coordinates: Letter: Section 10 Township: 27 Range: 8 Or Latitude Longitude Date Started: 2-7-95 Run: 13 31
FIELD OBSERVATIONS	Sample Number(s): MK362
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 2-7-95 Pit Closed By: BEI
REMARKS	Remarks: Arrived Oug Sample Hole Soil truned furned Gray about 6' after we started Excaveted Soil was Gray Ites Strong Hyprocerbon odor
	Signature of Specialist: Morgan Xieliba (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:	MX362	946647
MTR CODE SITE NAME:	89247	N/A
SAMPLE DATE TIME (Hrs):	2-7-95	1615
SAMPLED BY:		N/A
DATE OF TPH EXT. ANAL.:	2.10-95	2-10-95
DATE OF BTEX EXT. ANAL.:	2/9/95	2/10/95
TYPE DESCRIPTION:	VL	DAVE Gray good and clay

REMARKS:

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS			
			DF	Q	M(g)	V(ml)	
BENZENE	13.3	MG/KG	1.11607		2,56	20	
TOLUENE	94.3	MG/KG					
ETHYL BENZENE	9,93	MG/KG		<u> </u>			
TOTAL XYLENES	137	MG/KG	1		1	<i></i>	
TOTAL BTEX	2.55	MG/KG					
TPH (418.1)	12100	MG/KG			0.47	28	
HEADSPACE PID	473	PPM					
PERCENT SOLIDS	90.9	%					

The Surrogate Recovery was at \$\frac{\times \times \times

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     Cil and Grease and Petroleum Hydrocarbons
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                in Water and Soil
                                                4
                                                *
          Perkin-Elmer Model 1600 FT-IR
95/02/10 11:17
Sample identification 946647
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  Initial mass of sample, g
0.470
X
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  Volume of sample after extraction, ml
28.000
* Petroleum hydrocarbons, ppm
12119.435
* <u>Net</u> absorbance of hydrocarbons (2930 cm-1)
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BTEX SOIL SAMPLE WORKSHEET

File	:	946647B	Date Printed	:	2/11/95
Soil Mass	(g):	2.56	Multiplier (L/g)	:	0.00195
Extraction vol.	(mL) :	20	DF (Analytical)	:	571.429
Shot Volume	(uL) :	35	DF (Report)	:	1.11607

						Det. Limit
Benzene	(ug/L) :	11.89	Benzene	(mg/Kg):	13.270	5.580
Toluene	(ug/L) :	84.49	Toluene	(mg/Kg):	94.297	5.580
Ethylbenzene	(ug/L) :	8.90	Ethylbenzene	(mg/Kg):	9.933	5.580
p & m-xylene	(ug/L) :	96.59	p & m-xylene	(mg/Kg):	107.801	11.161
o-xylene	(ug/L) :	26.56	o-xylene	(mg/Kg):	29.643	5.580
			Total xylenes	(mg/Kg):	137.444	16.741

Total BTEX (mg/Kg): 254.944

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946647B
Method : C:\LABQUEST\METHODS\9001.MET

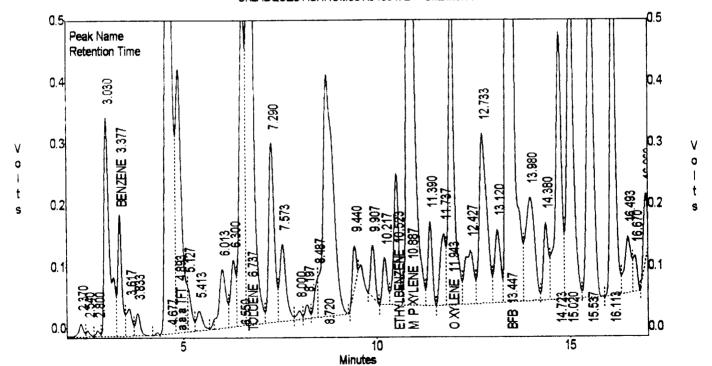
Sample ID : 946647,2.56G/35uL Acquired : Feb 10, 1995 23:35:21 Printed : Feb 11, 1995 00:01:34

User : Tony

Channel A Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.377	1440963	108665.27344	11.8909
a,a,a TFT	4.893	4565239	26415.50781	167.8216
TOLUENE	6.737	19409654	279082.62500	84.4899
ETHYLBENZENE	10.523	1892531	240650.98438	8.8959
M & P XYLENE	10.887	23215590	293876.96875	96.5928
O XYLENE	11.943	5539615	234474.71875	26.5635
BFB	13.447	70988024	832618.18750	83.6912
Totals :				
		127051616		479.9459

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EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\946647B Method : C:\LABQUEST\METHODS\9001.MET

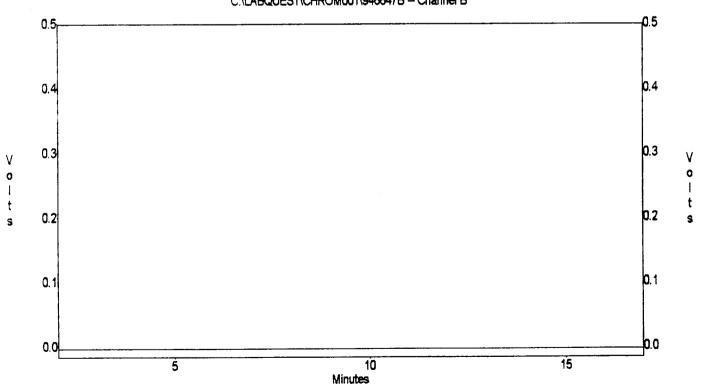
Sample ID : 946647,2.56G/35uL Acquired : Feb 10, 1995 23:35:21 Printed : Feb 11, 1995 00:01:40

User : Tony

Channel B Results

COMPONENT	RET TIME	AREA	AVG RF	CONC (ug/L)
BENZENE	3.450	0	0.00000	0.0000
a,a,a TFT	4.950	0	0.00000	0.0000
TOLUENE	6.787	0	0.00000	0.0000
ETHYLBENZENE	10.480	0	0.00000	0.0000
M & P XYLENE	10.833	0	0.00000	0.0000
O XYLENE	11.900	0	0.00000	0.0000
BFB	13.400	0	0.00000	0.0000
Totals :				
100410		0		0.0000

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PHASE II

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Fermington, New Mexico 87401

(606) 326-2262 FAX (606) 326-2388

Elevation QJ-SID-T27-R8 **Borehole Location** GWL Depth CM CHANCE Logged By Drilled By K Padilla

Date/Time Started 9/23/95 1/25 Date/Time Completed 8/23/95 1506

		Borehole #	BH-1 /
		Well #	
		Page	. 9
Project Name	EPNG PITS		
Project Number	14509	Phase	600Ó 77
Project Location	Grahan	#51-A	89247
Well Logged By	см с	hance	
Personnel On-Site	K Pad	illa, F. Rive	ra, D. Charlip
Contractors On-Site			
Client Personnel On-	Site		
Drilling Method	4 1/4" ID HS	SA .	

PID, CGI

Air Monitoring Method

		1	Sample		T	Depth	T		-	<u> </u>
Depth	Sample	Semple	Type &	Sample Description	uscs	Lithology		ir Monito	rina	Drilling Conditions
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Comments:	CM(91(3D-31') sent to lab (BTEX, TPH.) BH growted to surface
	Geologist Signature
6/15/95\ <u>DRIL</u>	ngi xis



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC91	947319
MTR CODE SITE NAME:	89247	Graham #51-A
SAMPLE DATE TIME (Hrs):	08/23/95	14:04
PROJECT:	Phase II Drilling	
DATE OF TPH EXT. ANAL.:	8/24/95	
DATE OF BTEX EXT. ANAL.:	8/25/95	8/29/95
TYPE DESCRIPTION:	VS	40 Lt grey sand & Sand Stones
•		1 (1)

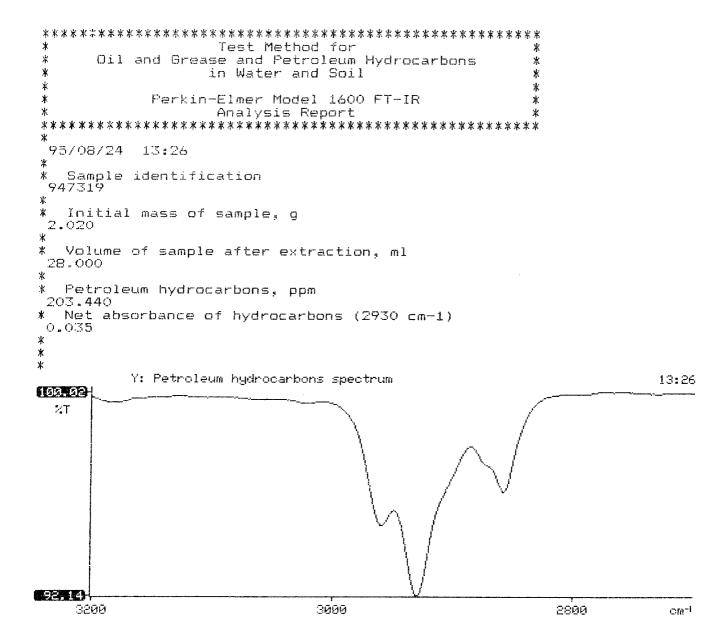
Field Remarks:	
Field Remarks:	

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIERS		
n habbarana a sect			DF	Q	M(g)	V(ml)
BENZENE	4.5	MG/KG				
TOLUENE	4.5	MG/KG				
ETHYL BENZENE	4.5	MG/KG				
TOTAL XYLENES	41.5	MG/KG				
TOTAL BTEX	43	MG/KG				
TPH (418.1)	203	MG/KG			2.02	28
HEADSPACE PID	15	PPM				
PERCENT SOLIDS	91.6	%				

The Surrogate Recovery was at	TPH is by EPA Method 4	•	All QA/QC was acceptable.	
Narrative:				
DF = Dilution Factor Used				

9-5-95



BTEX SOIL SAMPLE WORKSHEET

Fil	е	:	947319	Date Printed : 8/31/95
Soil Mas	s (g)	:	5.00	Multiplier (L/g) : 0.00100
Extraction vo	I. (mL)	:	20	DF (Analytical) : 200
Shot Volum	e (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\082595-1.028 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947319,5.00G,100U Acquired : Aug 30, 1995 03:38:53 Printed : Aug 30, 1995 04:05:14

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.367	0	0.0000
a,a,a TFT	4.927	2625268	88.2022
TOLUENE	6.737	0	0.0000
ETHYLBENZENE	10.430	0	0.0000
M & P XYLENE	10.880	56547	-4.8769
O XYLENE	11.900	0	0.0000
BFB	13.400	38781744	87.2993

