DEC 3 0 1858

Meter Number:75228
Location Name:FLORANCE 31
Location:TN-29 RG-08
SC-12 UL-A
2 - Federal
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00

RECEIVED

AR 14 BUT DOWN

g Score:00 UIL GOING E

RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.



FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75278 Location: FLORANCE 31 Operator #: 0203 Operator Name: Amovo P/L District: BloomFreeD Coordinates: Letter: A Section 12 Township: 29 Range: 8 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5:11.94 Area: 10 Run: 72
SITE ASSESSMENT	NMOCD Zone: (From NMOCD (From NMOCD Maps) Inside Outside (1) Fee (3) Outside (2) 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) 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) 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 Ephemera: Stream (1) < 100'(Navajo Pits Only)
	$\square (2) > 100'$
	TOTAL HAZARD RANKING SCORE: POINTS
REMARKS	Remarks: FOUR PITS ON COCATION. CLOSE ONE PIT COCATED
MA	ON HILL NORTH OF WELLHEAD. REDLINE AN TOPO CONFIRM LOCATION
RE	PUSH IN

Date

Signature

SENER/	Meter: 75778 Location: Florance #3/ Coordinates: Letter: A Section 12 Township: 29 Range: 8 Or Latitude Longitude Longitude Date Started: 6-1-94 Area: 10 Run: 22
FIELD OBSERVATIONS	Sample Number(s): \(\sum \text{VW 158} \) Sample Depth: \(\sum \text{12} \sum \text{Feet} \) Final PID Reading \(\sum \text{229} \) Yes No Groundwater Encountered \(\sum \text{(1)} \sum \text{(2)} \) Approximate Depth \(\sum \text{Feet} \)
CLOSURE	Remediation Method: Excavation
	Pit Closure Date: 6-1-44 Pit Closed By: EET
REMARKS	Remarks: Line Marilese,
I	Signature of Specialist: Walk Walson



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	vw 158	945315		
MTR CODE SITE NAME:	75228	N/A		
SAMPLE DATE TIME (Hrs):	10-1-94	1000		
SAMPLED BY:	N/A			
DATE OF TPH EXT. ANAL.:	6/10/94	410/94		
DATE OF BTEX EXT. ANAL.:	NIA	NIA		
TYPE DESCRIPTION:	21.6	Brown Sand + clas		

REMARKS: * RERUN TPH

RESULTS

PARAMETER	RESULT UNITS	UNITS	QUALIFIERS				
		DF	Q	M(g)	V(mi)		
BENZENE		MG/KG					
TOLUENE		MG/KG					
ETHYL BENZENE		MG/KG					
TOTAL XYLENES		MG/KG					
TOTAL BTEX		MG/KG					
TPH (418.1)	1670	MG/KG			2.02	28	
HEADSPACE PID	228	PPM					
PERCENT SOLIDS	88.3	%					

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

he Surrogate Recovery was at	NIA	_% for this sample	All QA/QC was acceptable.
arrative:			

F = Dilution Factor Used

I.A.

1.111.161



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	er. t			1 - 5 10		
SAMPLE NUMBER:	Field		Lab ID			
MTR CODE SITE NAME: 75228		94	9453 15			
		N/A				
SAMIPLED BY:	6-1-9 N/		N/A	1000		
DATE OF TPH EXT. ANAL.: 6-3-94		6/31				
		·	NIA			
TYPE DESCRIPTION:	· · · · · · · · · · · · · · · · · · ·		BROWN O		5. J. J. J.	
REMARKS:						 –
		RESULTS				
PARAMETER	RESULT UNITS	QUALIFIERS				
			DF	Q	M(g)	V(mi
BENZENE		MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE		MG/KG				
TOTAL XYLENES		MG/KG				
TOTAL BTEX		MG/KG				
TPH (418.1)	3940	MG/KG			2.06	28
HEADSPACE PID	228	PPM				
PERCENT SOLIDS	88.3	%				
	- TPH is by EPA Method 4	-				
Surrogate Recovery was at		% for this samp				
ative:	side lir	nits -	Need	rerur) ,	

Approved By:

Test Method for

Oil and Grease and Petroleum Hydrocarbons

in Water and Soil

94/06/10 09:20

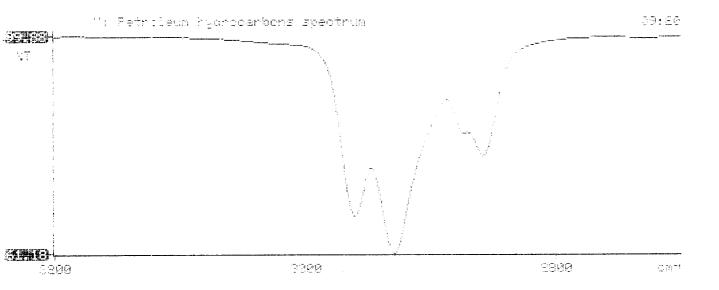
Sample identification 745315 RERUM

Initial mass of sample, g

Volume of sample after extraction, ml 38.000

Petroleum hydrocarbons, ppm 1667.892

Not absorbance of hydrocarbons (2930 cm-1)



*