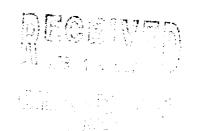
Bango . Ac

Meter Number:93184
Location Name:JICARILLA L #9
Location:TN-24 RG-05
SC-10 UL-D
6 - Jicarilla
NMOCD Zone:OUTSIDE
Hazard Ranking Score:00



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:

Sandstone 10^{-9} to 10^{-13} cm/sec Shale 10^{-12} to 10^{-16} cm/sec Clay 10^{-12} to 10^{-15} cm/sec

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

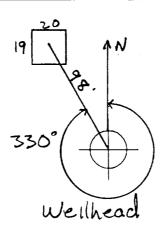
GENERAL	Meter: 93184 Location: Jicarilla L#9 Operator #: 9180 Operator Name: Meritan P/L District: OJITO Coordinates: Letter: D Section LO Township: Z4NRange: SW Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 7-14-94 Area: 06 Run: 51
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside (2) Depth to Groundwater Less Than 50 Feet (20 points) Greater Than 100 Ft (0 points) 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? Horizontal Distance to Surface Water Body Lass Than 200 Ft (20 points) (3) Horizontal Distance to Surface Water Body Coreater Than 1000 Ft (0 points) (3) Horizontal Distance to Surface Water Body Coreater Than 1000 Ft (10 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
REMARKS	Remarks: Redline Book-Outside, Vulnerable Zone Topo-outside, Two pits. Dehy pit is Kry. Dehy still on location powted into a tank

LOCATION
PIT
ORIGINAL

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 330 Footage from Wellhead 98

b) Length: <u>20</u> Width: <u>19</u> Depth: <u>3</u>



Remarks	•
Itemarks	•

Pictures @ Poll Z # 21

REMARKS

Completed By: 2

Signature

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93184 Location: Jicarilla L#9 Coordinates: Letter: D Section 10 Township: 241 Range: 54 Or Latitude Longitude Date Started: 9/12/95 Run: 06 51
FIELD OBSERVATIONS	Sample Number(s): 7/8 Sample Depth: 1// Feet Final PID Reading 420.0 PID Reading Depth // Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9-19-95 Pit Closed By: PhiliP
REMARKS	Remarks: Pit Pid Readings (1-9.0) (S-127) (E-6.0) (W-21.7) Pit size: 23+25+11 Hit Rock at 11' Fence size: 23+22+3 No Net More Than 100' From Elhenral Street Sprayed pit with 35 it chances 9-18-95
	Signature of Specialist: (SP3191) 03/16/94



FIELD SERVICES LABORATORY ANALYTICAL REPORT



SAMPLE IDENTIFICATION

	Field I	D		Lab ID		
SAMPLE NUMBER:	JK 78			459		
MTR CODE SITE NAME:	93184		Jicarilla L#9			
SAMPLE DATE TIME (Hrs):	09-13-95	5	1010	e		
PROJECT:	Jic Pits		<u>,</u>			
DATE OF TPH EXT. ANAL.:	C7 - 4-			····		
ATE OF BTEX EXT. ANAL.:	9/14/9	5	9/20			
TYPE DESCRIPTION:	V6		light over	way Cre	To 1	
Field Remarks:	(N-9.0)(5-	RESULTS	,.0)(W Z			
PARAMETER	RESULT	UNITS		QUALIF	IERS	
- Allameten			DF	a	M(g)	V(ml)
BENZENE	L 0.5	MG/KG				
TOLUENE		MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	3.7	MG/KG				
TOTAL BTEX	4.8	MG/KG				
TPH (418.1)	233	MG/KG			12.01	32
HEADSPACE PID	720	PPM				
PERCENT SOLIDS	90.7	%				
	TPH is by EPA Method			 C was acce		

95/09/14 16:18

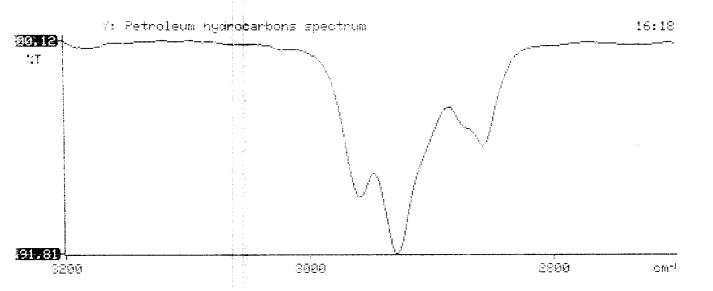
Sample identification 947459

Initial mass of sample, g 2.010

Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm 122.588

Net absorbance of hydrocarbons (2930 cm-1)



BTEX SOIL SAMPLE WORKSHEET

File	:	947459	Date Printed	:	9/21/95
Soil Mass	(g):	4.99	Multiplier (L/g)	:	0.00100
Extraction vol.	(mL):	20	DF (Analytical)	:	200
Shot Volume	(uL) :	100	DF (Report)	:	0.20040

						et. Limit
Benzene	(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	0.501
Toluene	(ug/L) :	5.48	Toluene	(mg/Kg):	1.098	0.501
Ethylbenzene	(ug/L) :	0.63	Ethylbenzene	(mg/Kg):	0.126	0.501
p & m-xylene	(ug/L):	14.80	p & m-xylene	(mg/Kg):	2.966	1.002
o-xylene	(ug/L) :	3.87	o-xylene	(mg/Kg):	0.776	0.501
			Total xvienes	(ma/Ka):	3.741	1.503

Total xylenes (mg/Kg): 3.741 1.503
Total BTEX (mg/Kg): 4.966

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\092095-1.011 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947459,4.99G,100U Acquired : Sep 20, 1995 17:21:57 Printed : Sep 20, 1995 17:48:23

User : MARLON

Channel A Results

CCMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	5.590	4472973	96.8862
TOLUENE	8.727	1477231	5.4772
ETHYLBENZENE	12.743	161909	0.6335
M & P XYLENE	13.123	4512615	14.7825
O XYLENE	14.243	905030	3.8660
BFB	15.810	66603648	91.8808

C:\LABQUEST\CHROM001\092095-1.011 -- Channel A

