DEPUTY OIL & GAS INSPECTOR

DEC 3 0 1997

Meter Number:95254
Location Name:TL RHODES C 3E
Location:TN-28 RG-11
SC-31 UL-E
3 - Navajo
NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

REGISTAR 1 4 1697

Aggroved

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: 95254 Location: TL Rholes (3E) Operator #: 0203 Operator Name: Amoro P/L District: Angel Peak Coordinates: Letter: E Section 31 Township: 28 Range: 1/ Or Latitude Longitude Pit Type: Dehydrator V Location Drip: Line Drip: Other: Site Assessment Date: 1/20/45 Area: 0/ Run: 82				
SITE ASSESSMENT	NMOCD Zone: Crom NMOCD Crom NMOCD State (2)				
KS	Remarks: Redline Book: Owisid. Vulnerable Zana Taga: During				
REMARKS	2 pits. Closel.				
RE	PUHIN				

ワ	ORIGINAL PIT LOCATION Original Pit: a) Degrees from North 325° Footage from Wellhead 93′ b) Length: 21′ Width: 21′ Depth: 1′
ORIGINAL PIT LOCATION	325° N 325° N N N N N N N N N
	Remarks: Pistures @ 1200 hr 21-24 roll3
REMARKS	
	Completed By:
	Con Clane 1/20/95 Signature Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95254 Location: 12 Bhodes C3E Coordinates: Letter: Section Township: Range: Or Latitude Longitude Date Started: Run:
FIELD OBSERVATIONS	Sample Number(s): JK/JC Sample Depth: 8' Feet Final PID Reading 133.0 PID Reading Depth Feet Yes No Groundwater Encountered Approximate Depth Feet
CLOSURE	Remediation Method: Excavation
REMARKS	Remarks: This Pit is a Push IN Fence Size 24×24 576 Neting yes More than 100 1 From Ephemral Strew El.N. 6 Not on Site Signature of Specialist: Jamo K. Kindy (SP3191) 03/16/9.



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICA T	rion			
	Field	ID		Lab ID		
SAMPLE NUMBER:	JK126		94	7751		
MTR CODE SITE NAME:	95254		T.L. Rhodes C 3E			
SAMPLE DATE HME (Hrs):	11-06-9	5	154	5		
PROJECT:	Phase I	Navajo				
DATE OF TPH EXT. ANAL.:	11-7-9	·5				
DATE OF BTEX EXT. ANAL.:	11/7/99	5	11/7/95			
TYPE DESCRIPTION:	VG		BROWN SAND+ CLAY			
Field Remarks:	No wall re	RESULTS				.,
		ALSOLIS				
PARAMETER	RESULT UNITS DF		QUALIF Q	QUALIFIERS Q M(g) V(mi)		
BENZENE	40.5	MG/KG				
TOLUENE	17.5	MG/KG				
ETHYL BENZENE	17.1	MG/KG				
TOTAL XYLENES	114	MG/KG				
TOTAL BTEX	148	MG/KG		0		
TPH (418.1)	19500	MG/KG			.55	28
HEADSPACE PID	/33	PPM				
PERCENT SOLIDS	93.8	%	(1944) (1944) (1944) (1954)			2
he Surrogate Recovery was at	TPH is by EPA Method	418.1 and BTEX is by E for this sampl		was accep	otable.	
Parrative: Rosult for m	p xylenes	exceedo	d calib	MATION	range	٥,
OF = Dilution Factor Used						

Date: 11-9-95

*********************************** Test Method for Oil and Grease and Petroleum Hydrocarbons in Water and Soil

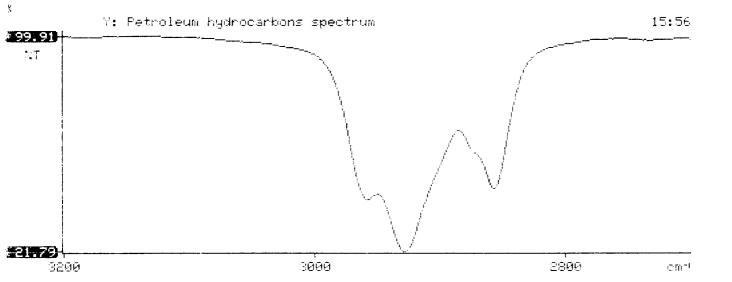
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0.659

X

Perkin-Elmer Model 1600 FT-IR Analysis Report *****************

95/11/07 15:56 ķ Sample identification 947751 Initial mass of sample, g Volume of sample after extraction, ml 28.000 Petroleum hydrocarbons, ppm 19494.001 Net absorbance of hydrocarbons (2930 cm-1)



BTEX SOIL SAMPLE WORKSHEET

File	e :	947751	Date Printed :	11/8/95
Soil Mas	s (g):	4.94	Multiplier (L/g) :	0.00101
Extraction vol. (mL):		10	CAL FACTOR (Analytical):	200
Shot Volume (uL):		50	CAL FACTOR (Report):	0.20243
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L):	0.12	Benzene (mg/Kg):	0.024 0.506
Toluene	(ug/L) :	86.69	Toluene (mg/Kg):	17.549 0.506
Ethylbenzene	(ug/L) :	84.49	Ethylbenzene (mg/Kg):	17.103 0.506
p & m-xylene	(ug/L) :	344.59	p & m-xylene (mg/Kg):	69.755 1.012
o-xylene	(ug/L) :	217.51	o-xylene (mg/Kg):	44.030 0.506
			Total xylenes (mg/Kg):	113.785 1.518
			Total BTEX (mg/Kg):	148.462

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\110795-0.004 Method : C:\LABQUEST\METHODS\0-110295.MET

Sample ID : 947751,4.94G,50U Acquired : Nov 07, 1995 16:31:50 Printed : Nov 07, 1995 17:02:23

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.437	59112	0.1212
TOLUENE	13.067	41433836	86.6912
ETHYLBENZENE	17.360	36963296	84.4873
M, P-XYLENES	17.830	176160512	344.5948
O-XYLENE	18.933	90452352	217.5105
BFB	19.917	51308824	97.0706

