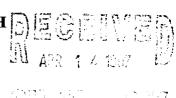
Meter Number:94057

Location Name: Jicarilla Contract 148 #25 CH

Location:TN-25 RG-05 SC-15 UL-A

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:

10⁻⁹ to 10⁻¹³ cm/sec 10⁻¹² to 10⁻¹⁶ cm/sec 10⁻¹² to 10⁻¹⁵ cm/sec Sandstone Shale Clav

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.

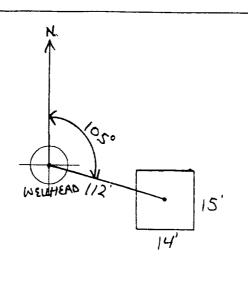
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 94057 Location:		
,	NMOCD Zone: (From NMOCD Maps) Inside Outside Land Type: BLM □ (1) State □ (2) Fee □ (3) Indian ΣΚΑΚΊΜΑ ΑΡΆΚΤΗΣ		
SITE ASSESSMENT	Depth to Groundwater Less Than 50 Feet (20 points) ☐ (1) 50 Ft to 99 Ft (10 points) ☐ (2) Greater Than 100 Ft (0 points) ☐ (3)		
	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)		
	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:O POINTS		
r ·S	REMARKS: REDLINE & TOPO SHOW LOCATION OUTSIDE V.Z. THREE PITS ON THIS LOCATION. LOCATION DRIP ON THE CHACKA SIDE OF THE		
REMAT	WELL BELONGS TO EPNG. THE OTHER TWO PITS BELONG TO THE OPERATOR. WILL CLOSE EPNG'S PIT. OPERATOR. WILL CLOSE EPNG'S PIT.		

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 105° Footage from Wellhead 112'

b) Length : 15' Width : 14' Depth : 2'



Remarks	:
~	

PHOTO-1217

Completed By:

Signature

8.21.95

Date

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 94057 Location: Jicarilla contract 148 #25 C.H Coordinates: Letter: 14 Section 15 Township: 25 Range: 5 Or Latitude Longitude Date Storted: 8/31/85 Run: 06 63
FIELD OBSERVATIONS	Sample Number(s): JK66 Sample Depth: Feet Final PID Reading PID Reading Depth Feet Yes No Groundwater Encountered
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 9-8-95 Pit Closed By: Philip
REMARKS	Remarks: fit Pic Reactings W-142 (5-800) (5-44.5) (2-31.9) Pit Size 22x19x5 Fence Size 20x19x3 More than 100' from F. Phemral Strem Signature of Specialist: L. Ku) (\$P3191) 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:	JK 66	947373
MTR CODE SITE NAME:	94057	Jic Contract 148#25CA
SAMPLE DATE TIME (Hrs):	08-31-95	0930
PROJECT:	Jic Pits	
DATE OF TPH EXT. ANAL.:	9-5-95	
DATE OF BTEX EXT. ANAL.:	9/1/95	9/6/95
TYPE DESCRIPTION:	V6	LIGHT BROWN SAND + CLAY

Field Remarks: $(N - [4.2)(5 - 80.0)(E - 44.5)(\omega - 31.9)$

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
	X		DF	Q	M(g)	V(ml)
BENZENE <1	2 5 4 mh	MG/KG	2	Ŋ		
TOLUENE	5.4	MG/KG	2	D		
ETHYL BENZENE	3. 4	MG/KG	2_	D		
TOTAL XYLENES	7	MG/KG	2	D		
TOTAL BTEX	28.2	MG/KG	2	D		
TPH (418.1)	1300	MG/KG			204	28
HEADSPACE PID	240.2	PPM				
PERCENT SOLIDS	91.9	%	į.			

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

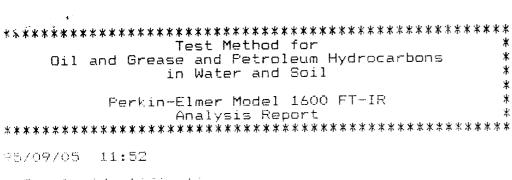
The Surrogate Recovery was at Narrative:

for this sample All QA/QC was acceptable.

Date:

OF = Dilution Factor Used

9-11-95

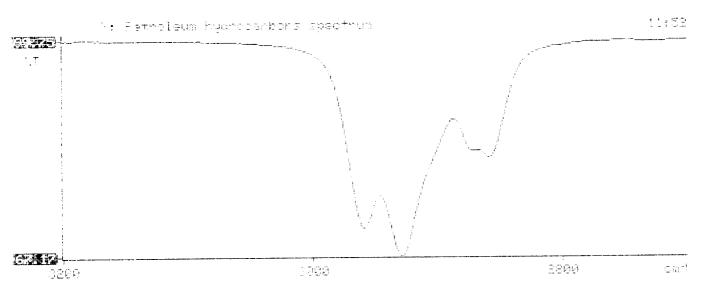


Sample identification 47373

Initial mass of sample, q [.040

Volume of sample after extraction, ml 38,000

Fetroleum hydrocarbons, opm 204.377 Net absorbance of hydrocarbons (2930 cm-1) 4.271



BTEX SOIL SAMPLE WORKSHEET

File :	94/3/3	Date Printed : 9///95
Soil Mass (g) :	5.04	Multiplier (L/g) : 0.00099
Extraction vol. (mL):	20	DF (Analytical) : 400
Shot Volume (uL):	50	DF (Report) : 0.39683
		Det. Limit
Benzene (ug/L) :	0.00	Benzene (mg/Kg): 0.000 0.992

92 Toluene (mg/Kg): Toluene (ug/L): 5.397 0.992 13.60 Ethylbenzene (mg/Kg): 3.429 Ethylbenzene (ug/L) : 8.64 0.992 p & m-xylene (ug/L) : 38.20 p & m-xylene (mg/Kg): 15.159 1.984 o-xylene (mg/Kg): o-xylene (ug/L) : 10.80 4.286 0.992

Total xylenes (mg/Kg): 19.444 2.976

Total BTEX (mg/Kg): 28.270

EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090595-1.021 Method : C:\LABQUEST\METHODS\9001.MET

Sample ID : 947373,5.04G,50U Acquired : Sep 04, 1995 23:22:31 Printed : Sep 04, 1995 23:48:55

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	${\tt CONC}$ (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.947	3086537	129.6913
TOLUENE	6.773	2465254	13.5988
ETHYLBENZENE	10.553	1357854	8.6397
M & P XYLENE	10.923	6921915	38.1501
O XYLENE	11.970	1562643	10.7781
BFB	13.470	32730150	93.1827

C:\LABQUEST\CHROM001\090595-1.021 -- Channel A

