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Meter Number:95941
Location Name:Jic Contract 148 #34
Location:TN-25 RG-05
SC-14 UL-H
6 - Jicarilla
NMOCD Zone:OUTSIDE

DECEIVED

APR 1 4 1897

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

Hazard Ranking Score:00

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

Meter: 9594/ Location: 51c Operator #: 22:23 Operator Na Coordinates: Letter: # Section # Or Latitude Location Pit Type: Dehydrator Location Site Assessment Date: 8-17-95	me: <u>Am&o</u> P/L 4_Township: <u>25</u> ngitude Drip: <u>X</u> _Line D	_ District:		
NMOCD Zone:	Land Type:	BLM [(1)		
(From NMOCD	<u> </u>	State (2)		
Maps) Inside		Fee (3) Indian <u>JICARILLA</u>		
	<u>X</u> (4)	Indian <u>JICARILLA</u>		
Depth to Groundwater Less Than 50 Feet (20 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) (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, rrigation Canals, Ditches, Lakes, Ponds)				
Distance to Nearest Epnemeral Str		- 1		
	$(X_{i}(2) > 1)$			
TOTAL HAZARD RANKING SCORE:		OINTS		
Remarks : <u>DIL IN PIT</u>				

ORIGINAL PIT Original Pit : a) Degrees from North b) Length : <u>17</u> Wi	t LOCATION 240° Footage from Wellhead 112 dth: 17 Depth: 28
17 12	DELIHEAD 240°
Remarks :	
Completed By:	
Signature	<u>8-17-95-</u> Date

Mark Commencer

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95941 Location: JIC CONTRACT 148 #34 Coordinates: Letter: H Section H Township: 25 Range: 5 Or Latitude Longitude Date Started: 8-31-95 Run: 06 63
FIELD OBSERVATIONS	Sample Number(s): NS 83 Sample Depth: 19 Feet Final PID Reading 4.0 PID Reading Depth 19 Feet Yes No Groundwater Encountered
CI	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 9-8-95 Pit Closed By: Philip
REMARKS	Remarks: PD WALL READINGS: (N-4.8)(S-0.2)(E-2.7)(W-4.5) PH SIZE 19X18X19 LESS THAN 100' FROM EPHMERAL STREAM EPMG. (NORMAN) ONSETZ FÉNCE 512E: 28X28X3
·	Signature of Specialist: Daholas Schmaltz



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

SAMPLE NUMBER: NS 8 3 9473 77

MTR CODE | SITE NAME: 95941 Jic Contract 148 #34

SAMPLE DATE | TIME (Hrs): 08-31-95 1200

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 DARG BROWN TAKE + CLAY

Field Remarks: $(N-4.8)(5-0.2)(E-2.7)(\omega-4.5)$

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	< 5	MG/KG				
TOLUENE	4.5	MG/KG				
ETHYL BENZENE	4.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	4.3	MG/KG				
TPH (418.1)	177	MG/KG			2.09	25
HEADSPACE PID	4.0	РРМ				· · · · · · · · · · · · · · · · · · ·
PERCENT SOLIDS	940	%				

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

The Surrogate Recovery was at	<u>85%</u>	for this sample	All QA/QC was acceptable
Narrative:			

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95/09/05 13:23

Sample identification 947377

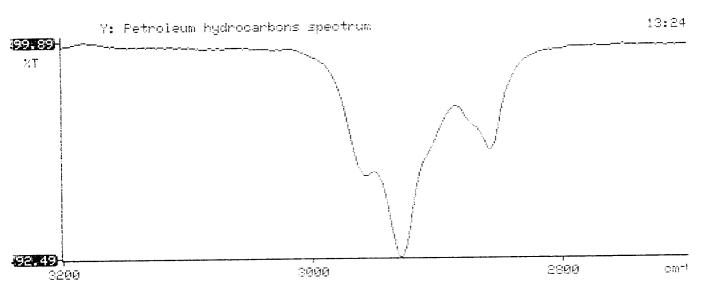
Initial mass of sample, g 2.090

Volume of sample after extraction, ml 28.000

Petroleum hydrocarbons, ppm 177.062

Net absorbance of hydrocarbons (2930 cm-1)

0.033



EL PASO NATURAL GAS

EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\090695-1.007 Method : C:\LABQUEST\METHODS\9001.MET

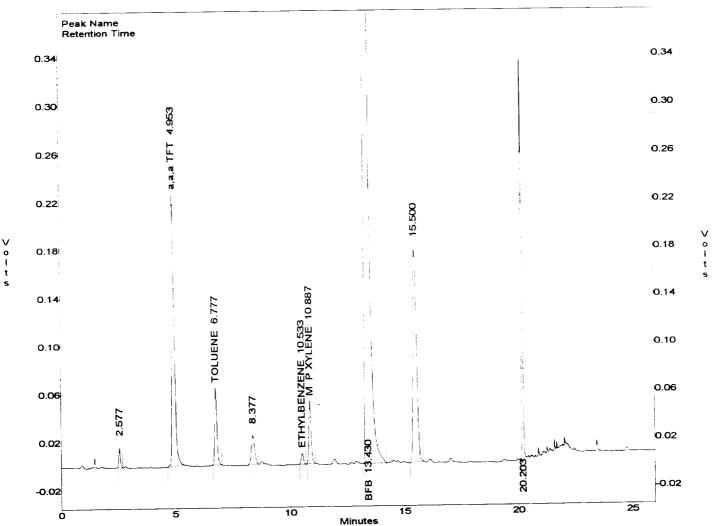
Sample ID : 947377,5.01G,100U Acquired : Sep 05, 1995 12:21:10 Printed : Sep 05, 1995 12:47:35

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	3.390	0	0.0000
a,a,a TFT	4.953	1881949	79.0765
TOLUENE	6.777	441663	1.2135
ETHYLBENZENE	10.533	61391	-0.1993
M & P XYLENE	10.887	373167	-2.1411
O XYLENE	11.877	0	0.0000
BFB	13.430	29956096	85.2850

C:\LABQUEST\CHROM001\090695-1.007 -- Channel A



BTEX SOIL SAMPLE WORKSHEET

File	:	947377	Date Printed : 9/7/95
Soil Mass (g)	:	5.01	Multiplier (L/g) : 0.00100
Extraction vol. (mL)	:	20	DF (Analytical) : 200
Shot Volume (uL)	:	100	DF (Report) : 0.19960
			Det. Limit
Benzene (ug/L)	:	0.00	Benzene (mg/Kg): 0.000 0.499
Toluene (ug/L)	:	1.21	Toluene (mg/Kg): 0.242 0.499

0.00

0.00

0.00

Ethylbenzene (ug/L):

p & m-xylene (ug/L):

(ug/L):

o-xylene

o-xylene (mg/Kg): 0.000 0.499 Total xylenes (mg/Kg): 0.000 1.497

0.000

0.000

0.499

0.998

Total BTEX (mg/Kg): 0.242

Ethylbenzene (mg/Kg):

p & m-xylene (mg/Kg):