DEFUTYONE & LOCAL

Meter Number: 95266

Location Name: GALLEGOS CANYON UNIT 165E

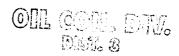
DEC 3 C test

Location:TN-28 RG-12 SC-29 UL-P

3 - Navajo NMOCD Zone:OUTSIDE

Hazard Ranking Score:00

DECEIVED APR 1 4 1937



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.

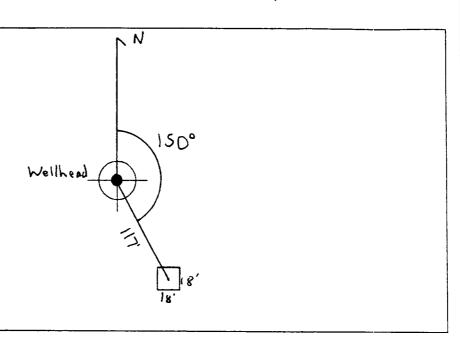
Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

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: 952bb Location: Gallege Canyon Unit 165E Operator #: D2D3 Operator Name: Amoro P/L District: Angel Peak Coordinates: Letter: P Section 29 Township: 28 Range: 12 Or Latitude Longitude Pit Type: Dehydrator \(\subseteq \) Location Drip: Line Drip: Other: Site Assessment Date: \(\subseteq \) 20/95 Area: \(\subseteq \) Run: \(\subseteq \)						
SITE ASSESSMENT	NMOCD Zone: (From NMOCD Maps) Inside Outside Outside Depth to Groundwater Less Than 50 Feet (20 points) 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? Horizontal Distance to Surface Water Body Less Than 1000 Ft (10 points) Greater Than 1000 Ft (0 points) (2) Greater Than 200 Ft (20 points) (3) Horizontal Distance to Surface Water Body Less Than 200 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: Depunts						
KS	TOTAL						
REMARKS	Remarks: Redline Book: Ourside Vulnerable Zone Topo: Ourside						
RE	PUSH-IN						



Remarks:
Pictures @1303 hr 5-8 roll)
To get to git turn left off 3003 (Aciving West) with Amora Compression
To get to pit turn left off of 300) (driving West) with Amico Compressors on Right. Go straight ~400-500 yds & bear left. Take next right.

Completed By:

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 95266 Location: Gallegos Canyon Unit 165 E Coordinates: Letter: P Section 29 Township: 28 Range: 12 Or Latitude Longitude Date Started: 11/6/95 Run: 01 82						
FIELD OBSERVATIONS	Sample Number(s):						
URE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation						
CLOS	Soil Disposition: Envirotech						
REMARKS	Remarks: This Pit was a Push IN. Fence Size 2/1/2/=44/ No Net More than 100' From Ethemral Strem ENNG Not on Site						
	Signature of Specialist: Knrbj (SP3191) 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:	JK127	947752	
MTR CODE SITE NAME:	95266	Gallegos Canyon Unit	1658
SAMPLE DATE TIME (Hrs):	11-06-95	1700	
PROJECT:	Phase I Navais		
DATE OF TPH EXT. ANAL.:	11-7-95		
DATE OF BTEX EXT. ANAL.:	11/7/95	11/7/95	
TYPE DESCRIPTION:	VG	LIGHT BROWN COURSE TAMB	
_			

Field Remarks: No wall reading

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	4 0.5	MG/KG				
TOLUENE	4 0.5	MG/KG				
ETHYL BENZENE	4 0.5	MG/KG				
TOTAL XYLENES	4 1.5	MG/KG				
TOTAL BTEX	43	MG/KG				
TPH (418.1)	139	MG/KG			2.11	28
HEADSPACE PID	1.9	PPM				
PERCENT SOLIDS	93.5	%				

TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020				
The Surrogate Recovery was at Narrative:	109%	for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used				
$\mathcal{A}(\mathcal{A})$			11 0 0	

* Test Method for *

* Oil and Grease and Petroleum Hydrocarbons *

* in Water and Soil *

95/11/07 15:09

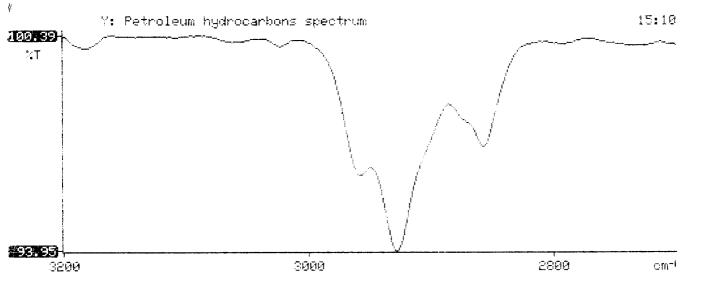
* Sample identification
947752

* Initial mass of sample, g
2.110

* Volume of sample after extraction, ml
28.000

* Petroleum hydrocarbons, ppm
138.781

* Net absorbance of hydrocarbons (2930 cm-1)
0.028



BTEX SOIL SAMPLE WORKSHEET

Fil	e :	947752	Date Printed :	11/8/95
Soil Mas	s (g):	4.96	Multiplier (L/g) :	0.00101
Extraction vo	l. (mL) :	10	CAL FACTOR (Analytical):	200
Shot Volume (uL):		50	CAL FACTOR (Report):	0.20161
			DILUTION FACTOR:	1 Det. Limit
Benzene	(ug/L) :	0.12	Benzene (mg/Kg):	0.024 0.504
Toluene	(ug/L) :	0.55	Toluene (mg/Kg):	0.111 0.504
Ethylbenzene	(ug/L) :	0.21	Ethylbenzene (mg/Kg):	0.042 0.504
p & m-xylene	(ug/L) :	1.44	p & m-xylene (mg/Kg):	0.290 1.008
o-xylene	(ug/L) :	0.65	o-xylene (mg/Kg):	0.131 0.504
			Total xylenes (mg/Kg):	0.421 1.512
			Total BTEX (mg/Kg):	0.599

EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\110795-0.005 Method : C:\LABQUEST\METHODS\0-110295.MET

Sample ID : 947752,4.96G,50U Acquired : Nov 07, 1995 17:12:56 Printed : Nov 07, 1995 17:43:20

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)	
BENZENE	8.433	61223	0.1255	
TOLUENE	13.063	296375	0.5496	
ETHYLBENZENE	17.333	95783	0.2142	
M,P-XYLENES	17.713	789947	1.4442	
O-XYLENE	18.883	295705	0.6500	
BFB	19.907	57463635	108.7149	

C:\LABQUEST\CHROM000\110795-0.005 -- Channel A

