EL PASO FIELD SI /ICES PRODUCTION PIT CLOSURE



Navajo Indian No. 6 MV Meter/Line ID – 75052 Fed Santy Mary

SITE DETAILS

Legals - Twn: 26N

Rng: 8W

Sec: 6

Unit: E

NMOCD Hazard Ranking: 40

Land Type: Eastern Navajo Agency

Operator: Meridian

Pit Closure Date: 08/09/94

RATIONALE FOR CLOSURE

The pit noted above was assessed and ranked according to the criteria in the New Mexico Oil Conservation Division's (NMOCD) Unlined Surface Impoundment Closure Guidelines.

A Phase I excavation was conducted on August 9, 1994, to 12 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit. Approximately 100 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 313 ppm; laboratory analysis indicated a benzene concentration of 2.4 mg/kg, a total BTEX concentration of 593 mg/kg, and a TPH concentration of 22,600 mg/kg. TPH and BTEX concentrations were above required remediation levels for the Hazard Ranking Score.

On November 10, 1995, a Phase II excavation was conducted to 15 feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for benzene, total BTEX, and TPH. Groundwater was not encountered in the test pit and bedrock was encountered at fifteen feet below ground surface. Approximately 586 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was backfilled and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 170.8 ppm; laboratory analysis indicated a benzene concentration of <0.5 mg/kg, a total BTEX concentration of <3 mg/kg, and a TPH concentration of 128 mg/kg.

El Paso Field Services Company (EPFS) requests closure of the above mentioned production pit location for the following reasons:

- The primary source, discharge to the pit, has been removed for almost six years.
- The pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.
- Groundwater was not encountered in the excavations.
- Bedrock was encountered at fifteen feet below ground surface making further remediation impractical; therefore, impact to groundwater is unlikely.
- Residual hydrocarbons in the soil will degrade naturally with minimal risk to the environment.
- Based on the Hazard Ranking Score, benzene and total BTEX were below required remediation levels for the Hazard Ranking Score.

EL PASO FIELE RVICES PRODUCTION PIT CLOSURE

- Excavated material has been removed from the pit eliminating potential direct contact with livestock and the public.
- There are no water supply wells or other sources of fresh water extraction within 1,000 feet of the site.

ATTACHMENT

Field Pit Assessment Form Field Pit Remediation/Closure Form Phase I Field Pit Remediation/Closure Form Phase II Laboratory Analytical Results

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FIELD PIT SITE ASSESSMENT FORM

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GENERAL	Meter: 15052 Location: Navajo Indian No. 6 MV Operator #: 2999 Operator Name: Mexidian P/L District: Ballard Coordinates: Letter: E Section 6 Township: 26N Range: 8W Or Latitude Longitude Pit Type: Dehydrator X Location Drip: Line Drip: Other: Site Assessment Date: 6-22-94 Area: 11 Run: 91								
	NMOCD Zone: (From NMOCD Maps) Inside Outside Depth to Groundwater Less Than 50 Feet (20 points) Land Type: BLM (1) State (2) Fee (3) Indian Eastern Navai's Agency (1)								
	50 Ft to 99 Ft (10 points) (2) Greater Than 100 Ft (0 points) (3)								
ASSESSMENT	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)								
SITE AS	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 Reed Canyon/Blancolles								
	(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: 46 POINTS								
REMARKS	Remarks: Two pits on location, Two Meter houses (DK&MV) MV deby pit has oil in it								
RE									

Date

Signature



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

	SAMPLE	IDENTIFICA	ATION	·		
·	Field	ID		Lab ID		_
SAMPLE NUMBER:	KP1	74_	94	5874		
MTR CODE SITE NAME:	75052	<u> </u>		N/A		
SAMPLE DATE TIME (Hrs):	8-9-0	74	15	15		
SAMPLED BY:			N/A	T 2 1		
DATE OF TPH EXT. ANAL.:	8/11/94		8/11	194		
DATE OF BTEX EXT. ANAL.:	8/15	194	8	8/94		
TYPE DESCRIPTION:	٧ ८		Brown/g	ey sand	2 Clay	
			1 1	•	ı	
REMARKS:						
	F	RESULTS				
PARAMETER	RESULT	UNITS		QUALIFIE	ERS	
PARAMETER	NEOUL STATES		DF	Q	M(g)	V(ml)
BENZENE	2.4	MG/KG	20			
TOLUENE	130	MG/KG	20			
ETHYL BENZENE	41	MG/KG	20			
TOTAL XYLENES	420	MG/KG	20	- <u> </u>		
TOTAL BTEX	593	MG/KG				
трн (418.1) 22,600	22,588 Jul	N 8)31/94 MG/KG			0.25	28
HEADSPACE PID	313	PPM				
PERCENT SOLIDS	87.2	%				
	TPH is by EPA Method 4					
e Surrogate Recovery was at		% for this samp	le All QA/QC	was accepta	ble.	
rrative: ATI result	ts attache	d. Sur	rogate	recove	M W	as ou
ATI ac limi		to mate	ini Oxi	eyere	nce.	<u> </u>
= Dilution Factor Used				U		



GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS CO. ATI I.D.: 408346

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

				D3.07	DAME	DATE	DIL.
SAMPL			MA MD TY	DATE	DATE EXTRACTED	ANALYZED	FACTOR
ID. #	CLIENT I.D	•	MATRIX	SAMPLED	···		
01	945873		NON-AQ	08/09/94	08/15/94	08/.17/94	1
02	945874		NON-AQ	08/09/94	08/15/94	08/18/94	20
03	945875		NON-AQ	08/09/94	08/15/94	08/17/94	10
PARAM	METER			UNITS	01	02	03
BENZE				MG/KG	<0.025	2.4	1.2
TOLUE				MG/KG	0.058	130	33
	BENZENE			MG/KG	0.041	41	7.2
				MG/KG	0.48	420	100
TOTAL	XYLENES			HG/ RG	01.0		
SURRO	GATE:						
	FLUOROBENZEN	E (%)			85	55*	115
BROMC) L DOUGODEN 2 LIV	- (- /					

^{*}OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE



ATI I.D. 408346

August 23, 1994

El Paso Natural Gas Co. P.O. Box 4990 Farmington, NM 87499

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 08/12/94, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze non-aqueous samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

H. Mitchell Rubenstein, Ph.D.

Laboratory Manager

MR:jt

Enclosure



FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 75052 Location: NAYATO INDIAN NO.6 MV Coordinates: Letter: E Section 6 Township: 26 Range: 8 Or Latitude Longitude Date Started: 8-9-94 Run: 11 91
FIELD OBSERVATIONS	Sample Number(s): KP.179 Sample Depth: 12 Feet Final PID Reading 313 PID Reading Depth 12 Feet Yes No Groundwater Encountered \(\begin{array}{cccccccccccccccccccccccccccccccccccc
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 8-9-99 Pit Closed By: B.E.T
REMARKS	Remarks: Some Like markers on Location. 3tarted Remediating to 12' Soil turned gray Looking with A smell At 12'. Soil still the SAME. DUAL LOCATION. South wall Still Dark gray. Signature of Specialist: Lely Politic (SP3191) 03/16/94



CHAIN OF CUSTODY RECORD

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PROJEC	PROJECT NUMBER	PROJECT NAME	IAME	PROJECT NAME Dit Closure Decises # 24224	7.5	S	H		REQUE	REQUESTED ANALYSIS	ALYSIS	व्र	CONTRACT LABORATORY P. O. NUMBER
SAMPLE	SAMPI FRS: (Signature)) None	rioject # 243,	4.7			<u> </u>	-	-		+	
Limbo	AS: (Signally	73	fade	Uc DAIE	8-9-94	AUN JA NATNO:	SAMPL		0 <u>508</u>				
LAB ID) DATE	TIME	MATRIX	SAN	UMBER			TP TP	TB Aq3	ر وه			REMARKS
9 5873	84.4	अ%	1.05	KP 173			7		7	121			
94 5874	89-94 1515		Soil	KP 174		-	γc	7	K	158			
A 58 75	8444		1550 5011	R175		<u>`</u>	7/	XX		159			
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RELINGUIS	UISHED BY: (Signature)	ignature)		DATE/TIME	RECEIVED BY: (Signature)	vature)		α	ELINOUIS	RELINQUISHED BY: (Signature)	ignature)		CATECTIME RECEIVED OF LABORATORY BY: (Signature)
REQUESTED	≥	INAROUND TIME:			SAMPLE RECEIPT REMARKS	EMARKS					RESUL	RESULTS & INVOICES TO:	ices To:
CARRIER CO	1.												EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO.:	ä				CHARGE CODE						505-56	505-599-2144	FARMINGTON, NEW MEXICO 87499 FAX: 505-589-2761

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0565A (Rev. 03-94)

ILLEGIBLE

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1 James J. X.

CHAIN OF CUSTODY RECORD

LABORATORY BY: (Signature) FIELD SERVICES LABÓRATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261 DATE/TIME (2) | HECEIVED BY: (Signature) 7 -64-Litt-E 70.6 RECEIVED OF REMARKS CONTRACT LABORATORY P. O. NUMBER Jo Indian 75052 8.37 Se- £1c 13/87 NavaJo RESULTS & INVOICES TO: 505-599-2144 # SEGNENCE 8// REQUESTED ANALYSIS REXINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) 140.81 ۲۲ AB-PID EPA 8020 **X**3T8 1.814 A93 HGT Y BJ9MA2 B9YT SAMPLE RECEIPT REMARKS TOTAL NUMBER OF CONTAINERS RECEIVED BY: (Signature) CHARGE CODE FIFI D ID JK132 DATE/TIME PROJECT NAME
PIT Closure Project TIME MATRIX 1/1995 10:00 Soil 1110 SOS!/1/56/41/ DATE REQUESTED TURNAROUND TIME: RECNQUISHED BY: (Signature O RUSH RELINDUISHED BY: (Signate Yunz, SAMPLERS: (Signature) PROJECT NUMBER # 24324 **MBID** C) ROUTINE CARRIER CO. BILL NO.:



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	JK132	947773
MTR CODE SITE NAME:	75052	Navajo Indian No. 6 MY
SAMPLE DATE TIME (Hrs):	11-10-95	11 30
PROJECT:	Phase I Navajo	
DATE OF TPH EXT. ANAL.:	11/15/95	
DATE OF BTEX EXT. ANAL.:	11/15/95	11/15/95
TYPE DESCRIPTION:	VG	Light grey and I clay
·		101

RESUL	TS

Field Remarks:

Approved By: ___

PARAMETER	RESULT	UNITS	QUALIFIERS			
FADAWLI LIL			→ DF	Q	M(g)	V(ml)
BENZENE	< o.5	MG/KG				
TOLUENE	ح ٥.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				-
TOTAL BTEX	4 3	MG/KG				
TPH (418.1)	128	MG/KG			2.02	28
HEADSPACE PID	170.8	PPM				
PERCENT SOLIDS	90.4	%				

The Surrogate Recovery was at Narrative:

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -
The Surrogate Recovery was at 97 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

BTEX SOIL SAMPLE WORKSHEET

Fil	e	:	947773	Date Pr	rinted :	11/16/95	
Soil Mas	s (g)	:	5.04	Multiplier	(L/g) :	0.00099	
Extraction vo	l. (mL)	:	10	CAL FACTOR (Ar	nalytical):	200	
Shot Volum	e (uL)	:	50	CAL FACTOR		0.19841	
				DILUTION I	FACTOR:	1	Det. Limit
Benzen e	(ug/L)	:	0.14	Benzene	(mg/Kg):	0.028	0.496
Toluene	(ug/L)	:	0.68	Toluene	(mg/Kg):	0.135	0.496
Ethylbenzen e	(ug/L)	:	0.37	Ethylbenzene	(mg/Kg):	0.073	0.496
p & m-xylene	(ug/L)	:	3.34	p & m-xylene	(mg/Kg):	0.663	0.992
o-xylene	(ug/L)	:	1.19	o-xylene	(mg/Kg):	0.236	0.496
				Total xylenes	(mg/Kg):	0.899	1.488
				Total BTEX	(mg/Kg):	1.135	