EL PASO FIELD SERVICES PRODUCTION PIT CLOSURE



Likins Gas Com C#1 Meter/Line ID - 72413

SITE DETAILS

Rng: 9W

Legals - Twn: 29N

NMOCD Hazard Ranking: 10

Operator: Amoco

Sec: 9 Unit: 6

Land Type: FEE

Pit Closure Date: 05/17



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 May 17, 1994, to twelve feet below ground surface and a soil sample was collected for field headspace analysis and laboratory analysis for TPH and BTEX. Groundwater was not encountered in the test pit. Approximately 50 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 299 ppm; laboratory analysis indicated a TPH concentration of 4360 mg/kg, benzene concentration of <1.2 mg/kg, and a total BTEX concentration of 98 mg/kg. Total BTEX and TPH were above required remediation levels for the Hazard Ranking Score.

A Phase II drill borehole was conducted on June 23, 1995, and elevated headspace readings were encountered at the bedrock interface at 15 feet below ground surface. A soil sample was not collected for laboratory analysis.

On December 12, 1995, a Phase III excavation was conducted to 19 feet and a soil sample was collected for field headspace analysis and laboratory analysis for TPH and BTEX. Groundwater was not encountered in the test pit. Following the boring, approximately 170 cubic yards of excavated material was removed for landfarming and sent to an OCD approved centralized site. The pit was sprayed with 50 pounds of fertilizer, backfilled, and graded in a manner to direct surface runoff away from the pit area. Headspace analysis indicated an organic vapor content of 1,585 ppm; laboratory analysis indicated a TPH concentration of 162 mg/kg, benzene concentration of <0.5 mg/kg, and a Total BTEX concentration of <3 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.
- Bedrock was encountered in the test excavation at 19 feet below ground surface making further remediation impractical; therefore, impact to groundwater is unlikely.
- The test pit was backfilled and the former pit area graded to direct surface runoff away from the former pit.

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72413 Location: LIKINS GAS COM C#1 Operator #: 0203 Operator Name: Amoco P/L District: BloomFisco Coordinates: Letter: C Section 9 Township: 29 Range: 9 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 5.7.94 Area: 10 Run: 53
SITE ASSESSMENT	NMOCD Zone: Cand Type: BLM (1)
REMARKS	REMARKS: DNLY PIT ON LOCATION. PIT IS DRY. LOCATION IS ON A HILL ABOUR THE SAN JUAN RIVER, REDLINE AND TOPO CONFIRMED LOCATION TO BE INSIDE THE V.Z. DIG & HALL
	(SP3190) 04/08/94

GEI AAL	Meter: 12413 Location: Likins Gas Com C ⁴ 1 Coordinates: Letter: C Section 9 Township: 29 Range: 9 Or Latitude Longitude Date Started: 5-17-94 Area: 10 Run: 53
FIELD OBSERVATIONS	Sample Number(s): KP+56 Sample Depth: 12' Feet Final PID Reading 299 PID Reading Depth 12' Feet Yes No Groundwater Encountered (1) (2) Approximate Depth Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Pit Closure Date: 5-17-99 Pit Closed By: B.E.T.
REMARKS	Remarks: MACKETS ON LOCATION SMAll Pit Starte Remediating 12 Real SANDS Gray Looking Sail P.D 299 Signature of Specialist: Kelly Padilla

CHAIN OF CUSTODY RECORD

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PROJECT NUMBER PROJECT NAME			-	i c	0107 14144 0177011010	9132	CONT. ACT LABORATORY P. O. NUMBER	ER
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1÷XC	1. We S-17-94	MUN JA: MIATWO: —————	SAMPLE TYPE HO	8050 8050				
LABID DATE TIME MATRIX	SAMF				νχ γχ	Or	Œ	REMARKS
5.174/1035 Soil	45#JX	*	· /	><	24			
5174/243 501	KP # SS	3	<u> </u>	¥	49			
1.05 9041/18-718	KP # S6	1 1/10	> .	>.	80			
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REQUESTED TURNAROUND TIME: ROUTINE DRUSH	SAMPLE RECEIPT REMARKS	REMARKS				RESULTS & I	RESULTS & INVOICES TO: FIELD SERVICES FI DASO NATIFE	FIELD SERVICES LABORATORY
CARRIER CO.				1			P. O. BOX 4990 FARMINGTON N	P. O. BOX 4990 FARMINGTON NEW MEXICO 87499
BILL NO.:	CHARGE CODE					505-599-2144		FAX: 505-599-2261

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

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



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Soil

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP54	945194
MTR CODE SITE NAME:	72413	N/A
SAMPLE DATE TIME (Hrs):	5-17-94	1409
SAMPLED BY:	,	U/A
DATE OF TPH EXT. ANAL.:	5-18-94	5/18/94
DATE OF BTEX EXT. ANAL.:	<123194	5126194
TYPE DESCRIPTION:	٧ د	Grey course sand

REMARKS:	

RESULTS

DADAMETED	RESULT	UNITS		QUALIFIE	RS		
PARAMETER		· · · · · · · · · · · · · · · · · · ·	DF	Q	M(g)	V(ml)	
BENZENE	41.2	MG/KG	50				
TOLUENE	4,3	MG/KG	50				
ETHYL BENZENE	3,9	MG/KG	50				
TOTAL XYLENES	89	MG/KG	SO			-	
TOTAL BTEX	98	MG/KG					
TPH (418.1)	4360	MG/KG			2.37	28	
HEADSPACE PID	299	PPM	, 1 24 (17)		in grant	All Argent of the	
PERCENT SOLIDS	87.0	%					

The Surrogate Recovery was at Narrative:

ATI results attached Sunogate recovery not obtained by EPA Method 8020 -
DF = Dilution Factor Used

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

Sunogate recovery not obtained by EPA Method 8020 -
The Surrogate Recovery was at Narrative:

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

DESCRIPTION OF THE PARTY O



ATI I.D. 405389

June 2, 1994

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

Project Name/Number: PIT CLOSURE 24324

Attention: John Lambdin

On 05/20/94, 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.

Letitia Krakowski, Ph.D.

Project Manager

MR: jd

Enclosure

H. Mitchell Rubenstein, Ph.D. Laboratory Manager



GAS CHROMATOGRAPHY RESULTS

TEST

: BTEX (EPA 8020)

CLIENT

: EL PASO NATURAL GAS CO. ATI I.D.: 405389

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE

						277
SAMPL		MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	945192	NON-AQ	05/17/94	05/23/94	05/26/94	1
02	945193	NON-AQ	05/17/94	05/23/94	05/26/94	50
03	945194	NON-AQ	05/17/94	05/23/94	05/26/94	50
PARAM	METER		UNITS	01	02	03
BENZE	ENE		MG/KG	<0.025	<1.2	<1.2
TOLUE	- ENE		MG/KG	<0.025	43	4.3
	LBENZENE		MG/KG	<0.025	13	3.9
	L XYLENES		MG/KG	0.40	210	89
SURRO	OGATE:					
BROMO	OFLUOROBENZENE	(%)		94	NA*	NA*

^{*}SURROGATE RECOVERY NOT OBTAINABLE DUE TO SAMPLE DILUTION

RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401 (606) 326-2262 FAX (606) 326-2388

Elevation	
Borehole Location	
GWL Depth	
Logged By	S.Kelly
Drilled By	K. Padilla
Date/Time Started	6123195, 1035
Date/Time Comple	ted 6/73/05, 1105

		Well #	of	
Project Name Project Number	EPNG Pits	Phase	601/	75///5
Project Location Well Logged By Personnel On-Site	S.Ke	ily .	m C#	72413 D. Tanka
Contractors On-Site Client Personnel On-			KB.	

CGI, PID

Air Monitoring Method

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air U BZ	Monitor	ing 145/45	Drilling Conditions & Blow Counts
		H.5-	1.01	Sity GRAVEL, dk. grey, with trace med to coarse sand and trace clay. Sub-rounded gravel. Med. dense, damp. BOH 16.5 Auger refusal at 15.0!			0	7	<u>34z</u> 766	Hit cobbleat No 14.5!

headspace reading at creating at No sample taken due to refusal. BH growted t Comments:

Geologist Signature

FIELD PIT REMEDIATION/CLOSURE FORM/PHASE 1

GENERAL	Meter: 724/3 Location: Likins Gas Com C#/ Coordinates: Letter: C. Section 09 Township: 29 Range: 09 Or Latitude Longitude Date Started: 12-5-95 Area: 10 Run: 53	
TLD OBSERVATIONS	Sample Number(s):	
CLOSURE	Remediation Method: Excavation	
MARKS	Remarks: Qua to 19 Et, Took PID reading 5 Number 0200000000000000000000000000000000000	



FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

	Field	ID		Lab ID			
SAMPLE NUMBER:	JP 101		9478	32			
MTR CODE SITE NAME:	72413		Likins	Gascom	C#1		
SAMPLE DATE TIME (Hrs):	12-5-95 1310						
PROJECT:	Phase III Exc	cauation					
DATE OF TPH EXT. ANAL.:	12/0	0/05					
DATE OF BTEX EXT. ANAL.:	12/0/93	/	12/6				
TYPE DESCRIPTION:	VC'		light toro	om Sand	(chy		
Field Remarks: (N - 02)(5-01)(E-31)(W-1580)							
		RESULTS					
PARAMETER	RESULT	UNITS	DF	QUALIF	IERS M(g)	V(ml	
BENZENE	L 0.5	MG/KG					

162 MG/KG 1,96 X8

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

MG/KG

MG/KG

MG/KG

MG/KG

TOLUENE

ETHYL BENZENE

TOTAL XYLENES

TOTAL BTEX

TPH (418.1)

HEADSPACE PID

PERCENT SOLIDS

The Surrogate Recovery was at Narrative:	89%	for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used				