3R - 174

REPORTS

DATE: 199



Certified Mail:

#Z 213 707 666 (Box 1 of 2)

#Z 213 707 664 (Box 2 of 2)

March 24, 2000

Mr. William C. Olson New Mexico Oil Conservation Division 2040 S. Pacheco Santa Fe. NM 87504 RECEIVED

MAR 2 3 2000

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

RE: 1999 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports, EPFS hereby requests closure of 4 of these locations. The 4 sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

EPFS has also included for your information five Navajo sites in a separate binder and a separate report for the Bisti Flare Pit #1.

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.

Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; Certified Mail # Z 213 707 667

Mr. Bill Liesse, BLM - w / enclosures; Certified Mail # Z 213 707 668

Mr. John Jaquez, - w / Jaquez enclosures; Certified Mail # Z 213 707 669

Ms. Charmaine Tso, Navajo EPA – w / enclosures; Certified Mail # Z 213 707 670

bc: J. A. Lambdin w / enclosures
Philip Services Corp. – Cecil Irby, w / o enclosures
B. B. McDaniel / 24321 – NMOCD Regulatory w / o

SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

El Paso Field Services Pit Project Groundwater Report Annual Report

March 2000

RECEIVED

MAR 2 9 2000

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

Prepared For

El Paso Field Services Farmington, New Mexico

Project 62800158



EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT

FOGELSON 4-1 COM #14

Meter/Line ID - 73220

SITE DETAILS

Legals - Twn: 29N

Rng: 11W

Sec: 4

Unit: P

NMOCD Hazard Ranking: 10

Land Type: FEDERAL

Operator: BURLINGTON RESOURCES

PREVIOUS ACTIVITIES

Site Assessment: Mar-94 Excavation: Apr-94 (65 cy)

Soil Boring: Oct-95

Monitor Well: Oct-95

Geoprobe: Dec-96

Quarterly Sampling Initiated: Dec-96

1999 ACTIVITIES

Annual Groundwater Monitoring - Annual groundwater monitoring was initiated in June of 1998. Annual groundwater sampling was conducted in May 1999.

Operator Notification- The operator was notified that up-gradient production pits might be causing contamination of groundwater. Quarterly sampling was discontinued in June of 1998.

SUMMARY TABLES

Groundwater analytical data are presented in Table 1. Copies of the laboratory data sheets and the associated quality assurance/quality control data are presented in Attachment 1.

SITE MAP

A site map is presented as Figure 1.

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

There were no drilling activities at this site in 1999.

DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 1999.

ISOCONCENTRATION MAPS

None generated for this site.

CONCLUSIONS

Analytical results of groundwater samples from MW-1 show levels of benzene, ethyl benzene and total xylenes above New Mexico Groundwater Standards. Quarterly sampling was discontinued in June of 1998 while EPFS waited for the operator to investigate the unlined pit associated with their operations at the location. In 1999, the operator excavated the unlined pit, backfilled the pit, and installed a monitoring well.

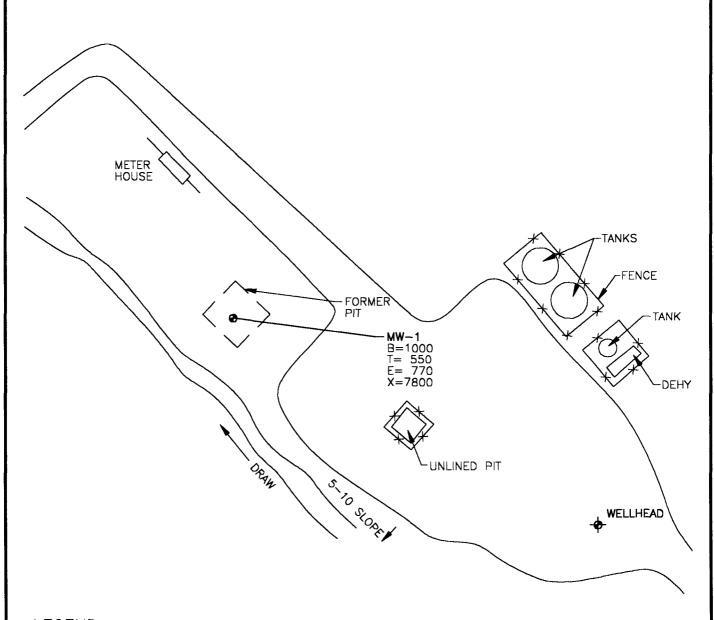
Pertinent data from past groundwater reports include the following: Based on groundwater levels collected from temporary well point data, the direction of groundwater flow is to the west on this site. Groundwater samples collected from MW-1 have been above standards for benzene, and total xylenes since quarterly sampling was initiated. Downgradient and upgradient Geoprobe and

EPFS GROUNDWATER PITS 1999 ANNUAL GROUNDWATER REPORT

temporary well point groundwater samples are also in excess of standards. Additional monitoring wells will be required to define extent of migration.

RECOMMENDATIONS

- Quarterly groundwater sampling of MW-1.
- Install two downgradient monitoring wells to define extent of migration.
- Annual groundwater sampling of the two proposed monitoring wells.
- EPFS will continue to work with the operator at this location and has supplied operator with data collected by EPFS.



LEGEND

● MW-1 MONITORING WELL NUMBER AND APPROXIMATE LOCATION

BENZENE (ug\L)
TOLUENE (ug\L)
ETHYL BENZENE (ug\L)
XYLENE (ug\L) BTEX

ug\L MICROGRAMS PER LITER

NOT TO SCALE





FOGELSON 4-1 #14 METER 73220

JUNE 15, 1999

DWN:	DES.:	Ρ
CJG	CI	l
CHKD:	APPD:	ŀ
CI		
DATE:	REV.:	l
03/20/00	0	ı
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ROJECT NO.: EPFS GW PITS

FIGURE 1

EPFS Groundwater Pits 1999 Groundwater Report

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Meter/ # Line# Site Nam	2290 73220 Fogelson 4-1 Com. #14 06/15/99 1 Sample 4
Meter/ # Line# Site Nam	3220 Fogel

TABLE 1

ATTACHMENT 1 1999 GROUNDWATER ANAYLTICAL



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

	Field	i ID		Lab ID	
SAMPLE NUMBER:	N/	A		990290	
MTR CODE SITE NAME:	732	20	Fogels	on 4-1 COM #14	
SAMPLE DATE TIME (Hrs):	6/15	5/99		1548	
PROJECT:		Anı	nual		
TE OF BTEX EXT. ANAL.:	N.	A		6/21/99	
TYPE DESCRIPTION:	MW	<i>I-</i> 1		Water	
Field Remarks: _	R	RESULTS			
PARAMETER	RESULT	UNITS		QUALIFIERS	
			DF	Q	
BENZENE	1000	PPB	20	D	
TOLUENE	550	PPB	20	D	
ETHYL BENZENE	770	PPB	20	D	
TOTAL XYLENES	7800	PPB	20	D	
TOTAL BTEX	10120	PPB			
he Surrogate Recovery was at _ F = Dilution Factor Used	96	•	e All QA/Q0	C was acceptable.	
he "D" qualifier indiciates that the arrative: his sample was analyzed by Ping	·			y dilution factor.	



Well Development and Purging Data

				Development	Well Number // W~/
Site Name FOSELSON 4-1 601 #14	加种花			Purging	Meter Code 73320
Development Criteria					
3 to 5 Casing Volumes of Water Removel Stabilization of Indicator Parameters Other	Water Vo	Water Volume Calculation Initial Depth of Water (feet)	ulation 79		Instruments X pH Meter DO Monitor
	Height of Wate	Height of Water Column in Well (feet) 5.9	ill (feet) 5.5	//	Conductivity Meter
Methods of Development	Diameter (inch	Diameter (inches): Well & Gravel Pack	Gravel Pac	<u> </u>	Temperature Meter
Pump Bailer		Water Volume in Well	ne in Well	Gallons to be	A Other DOCHENE/5 KI
Centrifugal X Bottom Valve	ltem	Cubic Feet	Gallons	Removed	
Submersible Double Check Valve	Well Casing		39	11.7	Water Disposal
Peristaltic Stainless-steel Kemmerer	Gravel Pack				KUTZ SEDARATOR
	Drilling Fluids				
Other	Total	-			
Water Removal Data					

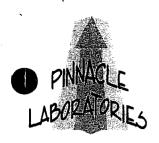
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		Development		Removal	Intake	Ending Water	Water Volume	olume,	Product Volume		Temperature		Conductivity Dissolved	Dissolved		
Date	Time	Method	Ð	Rate	Depth	Depth	Removed (gal)	ed (gal)	Removed (gallons)		ပ	苖.	mp/oum	Oxygen	Comments	
		Pump	Bailer	(gal/min)	(feet)	(teet)	Increment	Cumulative Increment	Increment	Cumulative				mg/L		
6-15-99 1457	1457										2/10	2/3	14/30			
9051 6651-9	1506						5.0	5.0			100	512	14920			
6-15-99 1515	5151						5.0	10:01			197	81%	16,210			
5251 66-51-9	5251						50	15.0			Nice	111	16,000			
8-16-79 1535	1535							20.0			306	6/12	0451	0.5	•	
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Comments THE WHITH HAU H STRONG HUNDSEN SUCTIVE SMEW.

Developer's Signature *MLPM*

Date 6-15-99 Reviewer





Pinnacle Lab ID number June 22, 1999

906065

EL PASO FIELD SERVICES 770 WEST NAVAJO

FARMINGTON.

NM

87401

Project Name

PIT MONITOR WELLS

Project Number

(none)

Attention:

JOHN LAMBDIN

Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592), received a On 6/18/99 request to analyze 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.

Kimberly D. McNeill Project Manager

MR: mt

Enclosure

H. Mitchell Rubenstein, Ph. D. Reviewed & Accepted way



CLIENT	: EL PASO FIELD SERVICES	PINNACLE ID	: 906065
PROJECT#	: (none)	DATE RECEIVED	: 6/18/99
PROJECT NAME	: PIT MONITOR WELLS	REPORT DATE	: 6/22/99
PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	990290	AQUEOUS	6/15/99
02	990291 (TRIP BLANK)	AQUEOUS	6/15/99



PINNACLE I.D.: 906065

GAS CHROMATOGRAPHY RESULTS

TEST

: EPA 8021 MODIFIED

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

: (none)

PROJECT NAME

· PIT MONITOR WELLS

PROJECTI	NAME	: PH MONITOR	WELLS				
SAMPLE				DATE	DATE	DATE	DIL.
ID. #	CLIENT I.D.		MATRIX	SAMPLED	EXTRACTED	ANALYZED	FACTOR
01	990290		AQUEOUS	6/15/99	NA	6/21/99	20
02	990291 (TRIP E	BLANK)	AQUEOUS	6/15/99	NA	6/21/99	1
PARAMETE	ΞR	DET. LIMIT		UNITS	990290	990291 (TRIP BLANK)	
BENZENE		0.5		UG/L	1000	< 0.5	
TOLUENE		0.5		UG/L	550	< 0.5	
ETHYLBEN	IZENE	0.5		UG/L	770	< 0.5	
TC XYI	LENES	0.5		UG/L	7800	< 0.5	
SURROGA BROMOFLI SURROGA	JOROBENZENE	: (%) (80 - 120)			96	96	

CHEMIST NOTES:

N/A

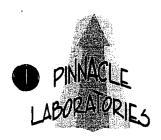


N/A

2709-D Pan American Freeway NE Albuquerque, New Mexico 87107 Phone (505) 344-3777 Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS REAGENT BLANK

TEST PINNACLE I.D. 906065 : EPA 8021 MODIFIED BLANK I. D. : 062199 DATE EXTRACTED N/A : EL PASO FIELD SERVICES DATE ANALYZED 6/21/99 CLIENT SAMPLE MATRIX **AQUEOUS** PROJECT# : (none) PROJECT NAME : PIT MONITOR WELLS PARAMETER UNITS BENZENE UG/L < 0.5 < 0.5 **TOLUENE** UG/L **ETHYLBENZENE** UG/L <0.5 TOTAL XYLENES UG/L < 0.5 SURROGATE: 93 OFLUOROBENZENE (%) OGATE LIMITS: (80 - 120)CHEMIST NOTES:



GAS CHROMATOGRAPHY QUALITY CONTROL

MSMSD

TEST

: EPA 8021 MODIFIED

MSMSD#

: 062199

CLIENT

: EL PASO FIELD SERVICES

PROJECT#

PROJECT NAME

: PIT MONITOR WELLS

PINNACLE I.D.

906065

DATE EXTRACTED

N/A

DATE ANALYZED

6/21/99

SAMPLE MATRIX

AQUEOUS

UNITS

UG/L

	SAMPLE	CONC	SPIKED	%	DUP	DUP		REC	RPD
PARAMETER	RESULT	SPIKE	SAMPLE	REC	SPIKE	% REC	RPD	LIMITS	LIMITS
BENZENE	<0.5	20.0	22.1	111	22.0	110	0	(80 - 120)	20
TOLUENE	<0.5	20.0	19.8	99	20.1	101	2	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	21.4	107	20.5	103	4	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	61.2	102	59.1	99	3	(80 - 120)	20



CHEMIST NOTES:

N/A

(Spike Sample Result - Sample Result)

% Recovery =

-----X 100

Spike Concentration

(Sample Result - Duplicate Result)

RPD (Relative Percent Difference) =

-----X 100

Average Result

[] 72hr □ NX

1 WEEK []SDWA

(NORMAL) X

Time

250

Signature

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Printed Name:

Date: 6-78-77

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Date

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Company:

American Environmental Network (NM), Inc.

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AEN(NM) Accession #: 90606

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	X	× 8021 (BTEX) □ MTBE □ TMB □ PCE
		8021 (TCL)
		8021 (EDX)
		8021 (HALO)
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1/5/98 AEN Inc.: American Environmental Network (NM), Inc. • 2709-D Pan American Freeway, NE • Albuquerque, New Mexico 87107 • (505) 344-3777 • Fax (505) 344-4413

Company

DISTRIBUTION: White - AEN, Canary - Originator

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Signature:

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RECEIVED BY: (LAB)

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