3R - 235

REPORTS

DATE:

1999

EL PASO FIELD SERVICES

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

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

RECEIVED
MAR 2 9 2000
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

March 2000

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 62800158

PHILIP SERVICES CORP.

EPFS GROUNDWATER PITS
1999 ANNUAL GROUNDWATER REPORT

SANDOVAL GAS COM A #1A
Meter/Line ID - 89620

SITE DETAILS

Legals - Twn: 30N **Rng:** 9W **Sec:** 35 **Unit:** C
NMOCD Hazard Ranking: 10 **Land Type:** FEDERAL
Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: May-94 **Excavation:** Sep-94 (50 cy) **Soil Boring:** May-95
Monitor Well: May-95 **Re-Excavation:** Jul-97 (504 cy) **Re-Install MW:** Aug-97
Quarterly Sampling Initiated: Apr-96 **Annual Sampling Initiated:** Apr-99

1999 ACTIVITIES

Annual Groundwater Monitoring – Annual groundwater monitoring was conducted during April of 1999.

SUMMARY TABLES

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

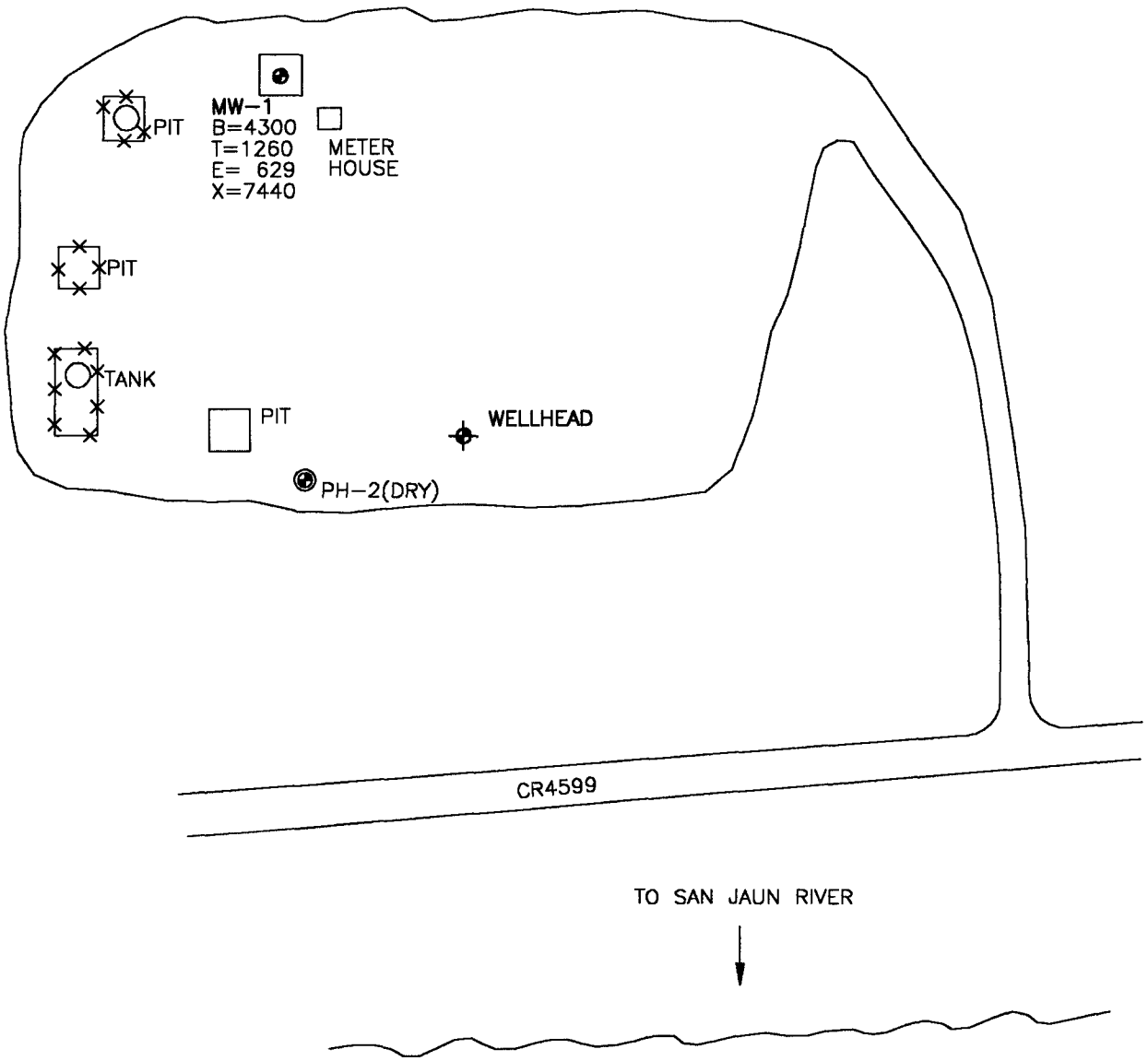
CONCLUSIONS

Analytical results of groundwater samples from MW-1 show levels of benzene, toluene and total xylenes above New Mexico Groundwater Standards. Groundwater samples collected from MW-1 have been over standards for BTEX since sampling was initiated.

Pertinent data from past groundwater reports include the following: A formerly unlined pit is adjacent to MW-1 and may be an additional source. An attempt was made to install down-gradient monitor wells in December of 1995. However, refusal was encountered at approximately 38 feet below ground surface and no groundwater was encountered. In addition, an attempt was made to collect groundwater samples with a Geoprobe, and refusal was encountered at approximately 26 feet below ground surface on 4 sides of the pit.

RECOMMENDATIONS

- EPFS will conduct annual sampling at the site until BTEX constituents fall below New Mexico Groundwater Standards.
- After BTEX constituents fall below New Mexico Groundwater Standards, quarterly sampling will be conducted until analytical results show BTEX constituents are below New Mexico Groundwater Standards for four consecutive quarters.
- Following OCD approval for closure, MW-1 will be abandoned using OCD approved abandonment procedures.



LEGEND

PH-1	APPROXIMATE PIEZOMETER LOCATION AND NUMBER
MW-1	MONITORING WELL NUMBER AND APPROXIMATE LOCATION
B	BENZENE (ug\L)
T	TOLUENE (ug\L)
E	ETHYL BENZENE (ug\L)
X	XYLENE (ug\L)
ug\L	MICROGRAMS PER LITER

NOT TO SCALE

N

PSC

TITLE:
SANDOVAL GAS COM A #1A
METER 89620
APRIL 19, 1999

DWN: CJG	DES.: CI	PROJECT NO.: 17520	
CHKD: CI	APPD:	EPFS GW PITS	
DATE: 02/08/00	REV.: 0	FIGURE 1	

CDL 17520AX-002

TABLE 1

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
990181	89620	Sandoval GC A #1A	04/19/99	1	Sample 4 - 4th Quarter	= 4300	= 1260	= 629	= 7440	= 13629

ATTACHMENT 1
1999 GROUNDWATER ANAYLTICAL

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	990181
MTR CODE | SITE NAME:	89620	Sandoval GC A#1A
SAMPLE DATE | TIME (Hrs):	4/19/99	1125
PROJECT:	Sample 4 - 4th Quarter	
DATE OF BTEX EXT. | ANAL.:	NA	4/22/99
TYPE | DESCRIPTION:	R-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	4300	PPB				
TOLUENE	1260	PPB				
ETHYL BENZENE	629	PPB				
TOTAL XYLENES	7440	PPB				
TOTAL BTEX	13629	PPB				

–BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 105.2 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Labbe Date: 4/23/99

Simple 4 4th Qtr

El Paso Natural Gas Company

A 2448

CHAIN OF CUSTODY RECORD

Project No.	Project Name	Type and No. of Sample Containers	Preservation Technique	Requested Analysis			Remarks
	NC #2750			8/1/K			
Samplers: (Signature) Lupe Bird	Date: 4-19-99						

Item No.	Date	Time	Comp.	GRAB	Sample Number						
1	4-19-99	1125		X	990151	G-2	36°F	X				Simonds SC A #16 R-1
2	4-19-99			X		G-1	36°F	X				Trip Blank

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Lupe Bird	4-19-99 1415				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks:	
		John Faulk	4/22/99 1445	Cool + Intact	
Carrier Co:		Carrier Phone No.		Date Results Reported / by: (Signature)	
Air Bill No.:					

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EL PASO FIELD SERVICES

Well Development and Purging Data

☐ Development
☒ Purging

Well Number P-1

Site Name SANDOVAL GC A #1A

Meter Code 89620

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removel
☐ Stabilization of Indicator Parameters
☐ Other

Methods of Development

Pump		Bailer	
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 38.50
Initial Depth to Water (feet) 35.10
Height of Water Column in Well (feet) 3.4
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		2.2	6.7
Gravel Pack			
Drilling Fluids			
Total			

Instruments

☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

KUTZ SEPARATOR

Water Removal Data

Date	Time	Development Method		Removal Rate	Intake Depth	Ending Water Depth	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer	(gal/min)	(feet)	(feet)	Increment	Cumulative	Increment	Cumulative					
4-19-99	1022										16.7	5.96	4540		
4-19-99	1035						3.0	3.0			17.0	5.83	4230		
4-19-99	1053						2.0	5.0			17.1	5.97	4180		
4-19-99	1110						2.0	7.0			18.1	6.15	3990	1.0	

Comments

Developer's Signature Dennis Bird Date 4-19-99 Reviewer John Sparks Date 4/23/99

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 990173 to 990181

QA/QC for 04/22/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	50.0	47.1	94.2	75 - 125 %	X	
Toluene	Standard	50.0	46.9	93.7	75 - 125 %	X	
Ethylbenzene	Standard	50.0	47.6	95.1	75 - 125 %	X	
m & p - Xylene	Standard	100	95.8	95.8	75 - 125 %	X	
o - Xylene	Standard	50.0	47.2	94.4	75 - 125 %	X	
SAMPLE NUMBER LCS LA-45476 25 PPB	**TYPE**	**EXPECTED RESULT PPB**	**ANALYTICAL RESULT PPB**	**%R**	**ACCEPTABLE RANGE**	**YES**	**NO**
Benzene	Standard	25.0	22.7	91	39 - 150	X	
Toluene	Standard	25.0	22.7	91	46 - 148	X	
Ethylbenzene	Standard	25.0	23.0	92	32 - 160	X	
m & p - Xylene	Standard	50.0	46.1	92	Not Given	X	
o - Xylene	Standard	25.0	22.9	92	Not Given	X	

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID 990173	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE RANGE	YES	NO
Benzene	Matrix Duplicate	10.5	10.7	1.61	+/- 20 %	X	
Toluene	Matrix Duplicate	1.52	1.54	0.86	+/- 20 %	X	
Ethylbenzene	Matrix Duplicate	9.36	9.63	2.79	+/- 20 %	X	
m & p - Xylene	Matrix Duplicate	3.50	3.57	2.05	+/- 20 %	X	
o - Xylene	Matrix Duplicate	1.16	1.19	2.51	+/- 20 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID 2nd Analysis 990173	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	25	10.5	31.6	84	75 - 125 %	X	
Toluene	25	1.52	21.9	81	75 - 125 %	X	
Ethylbenzene	25	9.36	30.4	84	75 - 125 %	X	
m & p - Xylene	50	3.50	45.9	85	75 - 125 %	X	
o - Xylene	25	1.16	22.0	83	75 - 125 %	X	

Narrative: Acceptable.

AUTO BLANK	SOURCE	PPB (1 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (one analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLK 04/15,16,19/99	SOURCE	PPB (three analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: J.L. Approved By: John Tabor Date: 4-23-99