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### **BP AMERICA PRODUCTION COMPANY**

2/8/2017

# **ENVIROTECH** INC.



## QUARTERLY MONITORING REPORT 4th Quarter, 1993

## AMOCO PRODUCTION CORPORATION SAN JUAN GRAVEL A-1 PRODUCTION TANK PIT AREA

FARMINGTON, NEW MEXICO

Prepared For Mr. Buddy Shaw Environmental Coordinator AMOCO Production Company

**DECEMBER 1993** 

Project: 92140

5796 U.S. HIGHWAY 64 - 3014 . FARMINGTON, NEW MEXICO 87401 . PHONE: (505) 632-0615 25

## **ENVIROTECH** INC.

UNDERGROUND TANK TESTING . SITE ASSESSMENT . SITE REMEDIATION

5796 U.S. HIGHWAY 64 - 3014 Farmington, New Mexico 87401 Phone: (505) 632-0615

December 14, 1993

Mr. Buddy Shaw Environmental Coordinator Amoco Production Company 200 Amoco Court Farmington, New Mexico 87401

RE: 4th Quarter Monitoring Report, 1993 Project: 92140/

C4028

Dear Mr. Shaw:

 Attached please find a copy of the 4th Quarter Monitoring Report (QMR) for the San Juan Gravel A-1 - Tank Battery site which summarizes the sampling activity.

This QMR followed the field testing and sampling dictated or agreed upon by the New Mexico Oil Conservation Division (NMOCD) and Amoco Production Company.

If you have any questions regarding the summary report or this project, please contact us. Thank you for your cooperation and assistance with this project.

Respectfully submitted, ENVIROTECH, INC.

Nelson Velez Staff Geologist

Attachments: 4th Quarter Monitoring Report, 1993

cc: Denny Foust - N.M. Oil Conservation Division, Aztec, N.M. Bill Olsen - N.M. Oil Conservation Division, Santa Fe, N.M.

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TB4QMR93.CVL

QUARTERLY MONITORING REPORT 4th QUARTER, 1993 AMOCO PRODUCTION CORPORATION SAN JUAN GRAVEL A-1 - TANK BATTERY PRODUCTION TANK PIT AREA SE/4, SE/4 (P) SECTION 21, T29N, R13W, NMPM FARMINGTON, SAN JUAN COUNTY, NEW MEXICO

#### PREPARED FOR: MR. BUDDY SHAW ENVIRONMENTAL COORDINATOR AMOCO PRODUCTION COMPANY

#### PROJECT/PIT NO.: 92140/C4028

DECEMBER 1993

ENVIROTECH, INC. Environmental Scientist & Engineers 5796 U.S. Highway 64-3014 Farmington, New Mexico

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PROJECT/PIT NO: 92140/C4028

#### QUARTERLY MONITORING REPORT 4th QUARTER, 1993 AMOCO PRODUCTION CORPORATION SAN JUAN GRAVEL A-1 - TANK BATTERY PRODUCTION TANK PIT AREA SE/4, SE/4 (P) SECTION 21, T29N, R13W, NMPM FARMINGTON, SAN JUAN COUNTY, NEW MEXICO

#### INTRODUCTION

Amoco Production Company has installed a pump and treat system as part of a proposed Remedial Action Plan (RAP) to abate groundwater contamination from the production equipment and storage system associated with the subject well located south of Farmington, in the Southeast 1/4 of the Southeast 1/4 of Section 21, Township 29N, Range 13W, NMPM, San Juan County, New Mexico (refer to Vicinity Map - Appendix A). Quarterly monitoring of the remediation system has been required by the New Mexico Oil Conservation Division (NMOCD) for the system operation.

This is the second quarterly monitoring report (QMR) that Envirotech, Inc. has produced for this site.

Included in the QMR are groundwater and treatment system analyses and an outline of the sampling schedule for the upcoming 1994 calendar year (located within the Discussion section).

#### PURPOSE AND SCOPE OF WORK

The purpose of this quarterly monitoring is to verify that the pump and treat system is effectively remediating groundwater contamination at the referenced site. Verification is conducted by monitoring the air stripper effluent and the monitor wells selected for this sampling event.

The scope of work includes collection of groundwater samples for benzene, toluene, ethylbenzene, and xylenes (BTEX) using appropriate EPA laboratory methods.

In addition, measurements of all standard field parameters (i.e. static water level, free product thickness, pH, specific conductivity, and water temperature) were collected as required by the NMOCD's RAP approval letter.

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#### SAMPLING & ANALYTICAL RESULTS

For this quarterly monitoring, monitor wells #1, 3, 5, and 7 were purged by bailing until a minimum of three (3) well volumes had been removed. The influent and effluent were collected from sampling ports located directly off of the PVC piping near the air stripper. Field parameters were measured after purging and prior to collection of water samples. Groundwater samples were collected in laboratory supplied new 40 ml VOA vials and preserved with 5% HgCl<sub>2</sub> for BTEX analysis. The groundwater samples were placed on ice and transported to Envirotech's laboratory later that day. Sampling was preformed in accordance with USEPA SW-846 protocol.

The field and laboratory results are summarized as follows:

- 1. Table 1 summarizes the field sampling and groundwater conditions for this quarterly report.
- 2. Table 2 & 3 summarizes the laboratory analyses for the effluent and monitor wells.
  - 3. Table 4 summarizes the Clean-up Standards for groundwater for the State of New Mexico.

Groundwater elevations were measured on November 19, 1993. The static water levels on all the monitor wells were measured with a Solinst Interface Meter, Model 121. Depths are from the top of the well casing to the static water level.

All analytical results for the laboratory analysis, laboratory QC/QA, and Chain-of-Custody for this quarterly sampling event are presented in Appendix B.

#### TABLE 1

#### SUMMARY OF SAMPLING & GROUNDWATER CONDITIONS AMOCO PRODUCTION COMPANY SAN JUAN GRAVEL A-1 - TANK BATTERY PRODUCTION TANK PIT AREA

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SAMPLING DATE: November 19, 1993

SAMPLING POINT	TOTAL DEPTH (ft.)	STATIC WATER LEVEL (ft.)	GROUND-* WATER ELEV. (ft.)	WELL BORE VOLUME (gals)	WATER CONDITIONS   TEMP. CONDUCT   (°C) (µS)		<u>s</u> pH	COMMENTS
MW-1	13.82	9.07	92.70	0.79	16.1	2300	7.3	murky, no odor
MW-2	12.80	7.20	92.32	0.93	NA	NA	NA	
MW-3	14.28	7.95	92.67	1.06	15.0	1500	7.1	murky, no odor
MW-4	14.00	7.54	93.01	1.08	NA	NA	NA	
MW-5	11.74	4.96	92.78	1.13	15.6	2300	7.2	black color, strong odor
MW-6	9.40	4.86	93.26	0.76	NA	NA	NA	
MW-7	14.65	7.80	93.52	1.14	15.0	1800	7.0	murky, no odor
Inf- luent	NA	NA	NA	NA	15.0	2200	7.0	clear, no odor
Eff- luent	NA	NA	NA	NA	14.4	2000	8.1	clear, no odor

NOTE: NA - Indicates measurement not applicable.

\* - Groundwater elevation is a relative elevation.

#### TABLE 2

RESULTS OF THE AIR STRIPPER INFLUENT & EFFLUENT LABORATORY ANALYSIS AMOCO PRODUCTION CORPORATION SAN JUAN GRAVEL A-1 - TANK BATTERY PRODUCTION TANK PIT AREA

SAMPLING POINT	Benzene	Toluene	Ethyl- benzene	Total Zylenes
	(µg/L)	$(\mu g/L)$	$(\mu g/L)$	$(\mu g/L)$
Influent	5.0	26.1	6.3	93.3
Effluent	2.6	25.9	1.8	32.6

**NOTE:**  $\mu g/L = parts per billion.$ 

#### TABLE 3

#### RESULTS OF THE MONITOR WELLS LABORATORY ANALYSIS AMOCO PRODUCTION CORPORATION SAN JUAN GRAVEL A-1 - TANK BATTERY PRODUCTION TANK PIT AREA

LABORATORY ANALYSES	MW - 1	MW - 3	MW - 5	MW - 7
Benzene, (µg/L)	ND	ND	0.4	0.5
Toluene, (µg/L)	ND	1.4	2.0	2.6
Ethylbenzene, (µg/L)	ND	ND	0.3	ND
Total Xylenes, (µg/L)	ND	1.1	3.9	2.0

**NOTE:** ND - Non detectable at the stated detection limit (see laboratory analyses)  $\mu g/L = parts per billion.$ 

Clean Up Standards:

The current maximum allowable concentrations for groundwater contamination as outlined by the State of New Mexico Water Quality Control Commission (August 18, 1991) are summarized and reported in Table 4.

#### TABLE 4

#### HYDROCARBON SOIL & GROUNDWATER CONTAMINATION STANDARDS STATE OF NEW MEXICO RANKING FOR THE SITE > 19

Parameter	Max. Allowable Lim <u>Groundwater</u>	its
Benzene Toluene Ethylbenzene Total Xylene	(µg/L) 10 750 750 620	

Notes: 1)  $\mu g/L$  = equivalent to parts per billion.

#### DISCUSSION

#### Groundwater Flow Direction

Based upon groundwater elevation measurements taken on November 19, 1993, the groundwater flow direction appears to be towards the southwest (refer to Site Diagram - Appendix A). Measurements taken on July 6, 1993 indicated west-southwest trend. It should be noted that the water level has dropped approximately one half of a foot since the July 6, 1993 sampling event.

#### Laboratory Analyses

The laboratory analysis conducted during this sampling event indicates that monitor well #5 does not have a benzene level (0.4 parts per billion) exceeding regulatory standards. Monitor well #5 is located in the proximity of the plume center. The sampling event conducted on July 6, 1993 had recorded a benzene concentration of 229 ppb. Two postulations toward this dramatic decrease are; 1) microbial activity within the proximity of monitor well #5 has increased on a order of magnitude in order to dissolve the lighter hydrocarbon components, and/or 2) the system may have collected the lighter hydrocarbons, but not the medium to heavy hydrocarbons components (review laboratory gas chromatogram -Appendix B).

#### System Effectiveness

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At this time, all data presented is insufficient to draw any conclusions concerning system effectiveness. However, the air stripper effluent can be regarded as effectively treating injected water from the recovery wells on the site.

The 1994 calendar year sampling schedule is as follows:

	JAN-MAR, 94	APR-JUN, 94	JUL-SEP, 94	OCT-DEC, 94
MW - 1		Х		X
MW - 2	х		х	
MW - 3		X		Х
MW - 4	х		х	
MW - 5		Х		Х
MW - 6	Х		Х	
MW - 7		Х		Х
EFFLUENT	Х	х	Х	Х

#### FUTURE SAMPLING SCHEDULE

#### LIMITATIONS AND CLOSURE

The scope of Envirotech's services was limited to sampling of the designated monitor wells, the air stripper effluent, and measurements of the standard field parameters. All work has been performed in accordance with generally accepted professional practices in geotechnical/ environmental engineering and hydrogeology.

The Quarterly Monitoring Report has been prepared for the exclusive use of Amoco Production Company as it pertains to their San Juan Gravel A -1 - Tank Battery facility located on the SE/4 of the SE/4 of Section 21, Township 29N, Range 13W, NMPM, San Juan County, New Mexico.

I certify that I am personally familiar with the investigative work at the site, the site conditions, and the reported information as described and this document.

Respectfully Submitted, ENVIROTECH, INC.

fron

Nelson Velez <sup>U</sup> Staff Geologist

Reviewed by:

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Michael K. Lane, P.E. Geological Engineer

Appendices

NV/nv

TB4QMR93.RPT









> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	MW #1	Date Reported:	11-23-93
Laboratory Number:	6532	Date Sampled:	11-19-93
Sample Matrix:	Water	Date Received:	11-19-93
Preservative:	HgCl & Cool	Date Analyzed:	11-22-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

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0.2
0.5
0.2
0.3
0.3

SURROGATE RECOVERIES:

Parameter	P	e	r	C	e	n	t	R	e	CC	v	e	гу	
	-	-	-		-	-		-	-		-			
Trifluorotoluene											1	00	0	å
Bromofluorobenzene												9	7	°

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A-1 Production Pit C4028

Lieur Analyst

Review





> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	MW #3	Date Reported:	11-23-93
Laboratory Number:	6533	Date Sampled:	11-19-93
Sample Matrix:	Water	Date Received:	11-19-93
Preservative:	HgCl & Cool	Date Analyzed:	11-22-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Limit
	((())))	(49/1)
Benzene	ND	0.2
Toluene	1.4	0.5
Ethylbenzene	ND	0.2
p,m-Xylene	1.1	0.3
o-Xylene	ND	0.3

SURROGATE RECOVERIES:

Parameter	Percent	Recover	Y
			-
Trifluorotoluene		101	8
Bromofluorobenzene		99	8

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A-1 Production Pit C4028

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> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	MW #5	Date Reported:	11-23-93
Laboratory Number:	6534	Date Sampled:	11-19-93
Sample Matrix:	Water	Date Received:	11-19-93
Preservative:	HgCl & Cool	Date Analyzed:	11-22-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

		Det.
	Concentration	Limit
Parameter	(ug/L)	(ug/L)
Benzene	0.4	0.2
Toluene	2.0	0.5
Ethylbenzene	0.3	0.2
p,m-Xylene	3.1	0.3
o-Xylene	0.8	0.3

SURROGATE RECOVERIES:

Parameter	Percent	Recovery	Z
			-
Trifluorotoluene		103	Å
Bromofluorobenzene		94	8

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A-1 Production Pit C4028

lieuren Analyst





> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	MW #7	Date Reported:	11-23-93
Laboratory Number:	6535	Date Sampled:	11-19-93
Sample Matrix:	Water	Date Received:	11-19-93
Preservative:	HgCl & Cool	Date Analyzed:	11-22-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

		Det.
	Concentration	Limit
Parameter	(ug/L)	(ug/L)
Benzene	0.5	0.2
Toluene	2.6	0.5
Ethylbenzene	ND	0.2
p,m-Xylene	1.7	0.3
o-Xylene	0.3	0.3

SURROGATE RECOVERIES:

Parameter	F	e	r	C	e	n	τ		ĸ	e	C	0	v	e	rj	1
	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
Trifluorotoluene														9	4	Ŷ
Bromofluorobenzene														9	6	å

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A-1 Production Pit C4028

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Review





> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Influent	Date Reported:	11-23-93
Laboratory Number:	6536	Date Sampled:	11-19-93
Sample Matrix:	Water	Date Received:	11-19-93
Preservative:	HgCl & Cool	Date Analyzed:	11-22-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Limit (ug/L)
Benzene	5.0	0.2
Toluene	26.1	0.5
Ethylbenzene	6.3	0.2
p,m-Xylene	61	0.3
o-Xylene	32.3	0.3

SURROGATE RECOVERIES:

Percent Recovery	7
107	ò
101	%
	Percent Recovery 107 101

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A-1 Production Pit C4028

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> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	Effluent	Date Reported:	11-23-93
Laboratory Number:	6537	Date Sampled:	11-19-93
Sample Matrix:	Water	Date Received:	11-19-93
Preservative:	HgCl & Cool	Date Analyzed:	11-22-93
Condition:	Cool & Intact	Analysis Requested:	BTEX

•		Det.
	Concentration	Limit
Parameter	(ug/L)	(ug/L)
Benzene	2.6	0.2
Toluene	25.9	0.5
Ethylbenzene	1.8	0.2
p,m-Xylene	27.4	0.3
o-Xylene	5.2	0.3

SURROGATE RECOVERIES:

Parameter	Pe	rc	e	n	t	R	e	20	V	e	r	Y	
			-						-	-		-	
Trifluorotoluene										9	3	-	5
Bromofluorobenzene									1	0	5	-	\$

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: SJ Gvl A-1 Production Pit C4028

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### ENVIROTECH LABORATORIES

5796 U.S. HIGHWAY 64-3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615

### QUALITY ASSURANCE/QUALITY CONTROL

### DOCUMENTATION

2.1





> EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	NA	Project #:	NA
Sample ID:	Laboratory Blank	Date Reported:	11-23-93
Laboratory Number:	1122pm.blk	Date Sampled:	NA
Sample Matrix:	Water	Date Received:	NA
Preservative:	NA	Date Analyzed:	11-22-93
Condition:	NA	Analysis Requested:	BTEX

· ·		Det.
	Concentration	Limit
Parameter	(ug/L)	(ug/L)
Benzene	ND	0.2
Toluene	ND	0.5
Ethylbenzene	ND	0.2
p,m-Xylene	ND	0.3
o-Xylene	ND	0.3

SURROGATE RECOVERIES:

Parameter	Percent	Recovery	Y
			-
Trifluorotoluene		92	010
Bromofluorobenzene		101	*

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

Genen Analyst

Review





\*\* QUALITY ASSURANCE EPA METHOD 8020 MATRIX SPIKE - AROMATIC VOLATILE ORGANICS

Client: NA Project #: NA Sample ID: Sample Spike Date Reported: 11-23-93 Laboratory Number: 6538-S-BTEX Date Sampled: 11-19-93 Sample Matrix: Water Date Received: 11-22-93 Analysis Requested: BTEX Date Analyzed: 11-22-93 Condition: NA

Parameter	Sample Spike Result Added (ug/L) (ug/L)		Spiked Sample Result (ug/L)	Det. Limit (ug/L)	Percent Recovery	SW-846 % Rec. Accept. Range
Benzene						
Delizene	9.2	20.0	26.5	0.2	91	39-150
Toluene	58	20.0	75	0.5	97	46-148
Ethylbenzene	10.8	20.0	30.0	0.2	97	32-160
p,m-Xylene	100	20.0	111	0.3	93	46-148
o-Xylene	46.0	20.0	63	0.3	95	46-148

Method:

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments:

P. ajeanco Analyst

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Client/Project Name Project Location					PROD PIT												
Amoco 92140 \$53				ASJ GUL A-1					ANALYSIS/PARAMETERS								
Sampler: (Signature) Chain of Custody Ta			Tape No.											Remarks			
- Melzon ely						of	S S	20				-					
Sample No./ Identification	Sample No./ Sample Sample Lab Number		Sample Matrix			No.											
MW #1	11/19/93	1407	65 32	w,	WATER.		Z	$\checkmark$									
MW #3	11/19/93	1415	6533	WATER			Z	1									
nw # 5	1/19/93	1435	6534	WATER			Ζ.	$\checkmark$									
MW #7 1/19/93 1440 65		6535	WATER			2.	$\checkmark$										
INFLUENT	INFLUENT 11/193 1450 6536		6536	WATER			Z.	$\checkmark$									
EFFLUENT	11/19/93	1528	6537	W	MER		Z	$\checkmark$									
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