

3R - 248

# REPORTS

DATE:

2000

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**Certified Mail:** #7000 1670 0012 7260 6739

February 26, 2001

Mr. William C. Olson  
New Mexico Oil Conservation Division  
1220 St. Francis Dr.  
Santa Fe, NM 87504

**RECEIVED**

FEB 28 2001

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 2000 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 sites that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports (Volumes 1-4), EPFS hereby requests closure of six sites. The six 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". Four of the six sites were submitted in last years report and a decision has not been made on closure. The remaining two sites have been submitted in previous years and denied closure.

The Jaquez Com. C #1 and Jaquez Com. E #1 site is not included in with this years report and will be submitted by the required deadline of April 1, 2001

EPFS has also included for your information six Navajo sites in a separate binder.

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott T. Pope'.

Scott T. Pope P.G.  
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # 7000 1670 0012 7260 6722**  
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), **Certified Mail # 7000 1670 0012 7260 6715**

10

**SAN JUAN BASIN PIT CLOSURES**  
**San Juan Basin, New Mexico**

**El Paso Field Services**  
**Pit Project Groundwater Report**  
**Annual Report**  
**Volume I**

**March 2001**

**Prepared For**

**El Paso Field Services**  
**Farmington, New Mexico**

**Project 62800398**



248

# EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

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W. D. HEATH B #5  
Meter/Line ID - 87493

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## SITE DETAILS

Legals - Twn: 30N      Rng: 9W      Sec: 31      Unit: M  
NMOCD Hazard Ranking: 30      Land Type: FEDERAL  
Operator: AMOCO PRODUCTION COMPANY

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## PREVIOUS ACTIVITIES

Site Assessment: Apr-94    Excavation: May-94 (50 cy)    Soil Boring: May-95  
Monitor Well: May-95    Geoprobe: Jan-97    Quarterly Sampling Initiated: Apr-96

## 2000 ACTIVITIES

**Quarterly Groundwater Monitoring** - Quarterly groundwater monitoring continued through 2000.

## 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 2000.

## DISPOSITION OF GENERATED WASTES

There were no wastes generated at this site in 2000.

## ISOCONCENTRATION MAPS

An isoconcentration map was not generated for this site.

## CONCLUSIONS

Analytical results of groundwater samples collected from MW-1 show levels of hydrocarbon constituents below the NMWQCC groundwater standards for all analytes except benzene during all monitoring events in 2000 and since well installation in 1995. A trend may be discerned in the data from 1998 through 2000 where all analytes including benzene are below standards during the third quarter of each respective year.

### **Pertinent data from past groundwater reports include the following:**

Based on groundwater levels collected from temporary well point data, the groundwater flow trends to the west-southwest on this site.

# EPFS GROUNDWATER PITS 2000 ANNUAL GROUNDWATER REPORT

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## RECOMMENDATIONS

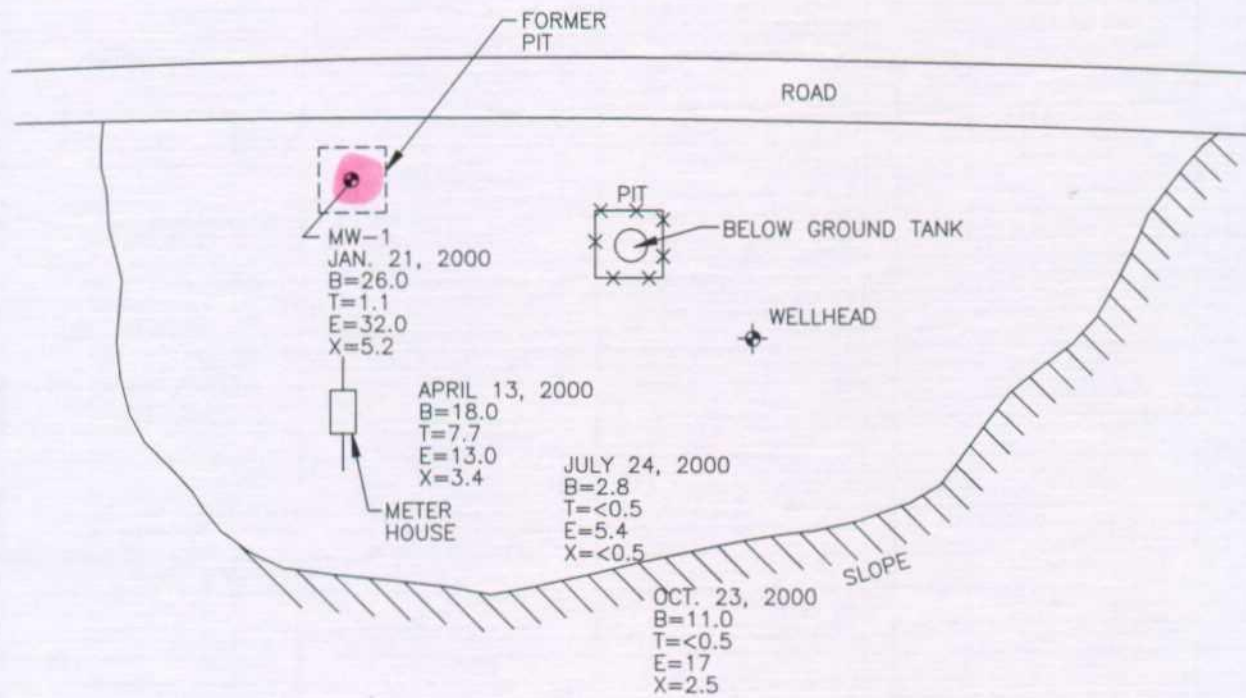
- Quarterly sampling will continue at MW-1 until analytical results indicate hydrocarbon constituents are below New Mexico groundwater standards for four consecutive quarters.
- Following OCD approval for closure, MW-1 will be abandoned using OCD approved abandonment procedures.

**Table 1**

Sample #	Meter / Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX (PPB)
WDH-0001-MW1	87493	WD Heath B #5	01/21/2000	1	Sample 4 - 16th Quarter	= 26.0	= 1.1	= 32.0	= 5.2	64.3
WDH-0004-MW1	87493	WD Heath B #5	04/13/2000	1	Sample 4 - 17th Quarter	= 18.0	= 7.7	= 13.0	= 3.4	42.1
HEA-0007-MW1	87493	WD Heath B #5	07/24/2000	1	Sample 4 - 18th Quarter	= 2.8	< 0.5	= 5.4	< 0.5	8.2
WDH-0010-MW1	87493	WD Heath B #5	10/23/2000	1	Sample 4 - 19th Quarter	= 11.0	< 0.5	= 17.0	= 2.3	30.3

Sample 4 - Quarterly Sampling

WELL LOCATIONS



LEGEND

- MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER
- 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



COL. 625\002198F-003



TITLE:  
 WD HEATH B#5  
 METER 87493  
 JANUARY 22, 2001

DWN: TMM	DES.: LW
CHKD: LW	APPD: MN
DATE: 1/31/01	REV.: 0

PROJECT NO.: 62800219
EPFS GW PITS
FIGURE 1

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**ATTACHMENT 1**

**2000 GROUNDWATER ANALYTICAL**

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# WELL DEVELOPMENT AND PURGING - ATA

Well Number MW-1

Development  Purging

Page 1 of 1

Project Name EPFS Quarterly Sampling Project Manager Cecil Irby Project No. 62800107  
 Client Company EPAC EPFS Phase Task No. 0301  
 Site Name WD Hearh B5 Site Address RURAL SAN JUAN Co.

Development Criteria  
 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other

Instruments  
 pH Meter  
 DO Monitor  
 Conductivity Meter BIT 7405  
 Temperature Meter BIT 7405  
 Other

Water Volume Calculation  
 Initial Depth to Water (feet) 44.21  
 Initial Depth to Water (feet) 28.13  
 Height of Water Column in Well (feet) 16.08  
 Diameter (inches): Well 2" Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>2.62</u>		
Gravel Pack			<u>2.62 x 3</u>
Drilling fluids			
Total			<u>7.86</u>

Serial No. (if applicable)  
 Water Disposal separator tank (KUTZ)

Methods of Development  
 Pump  Bailor   
 Centrifugal  Bottom Valve  
 Submersible  Double Check Valve  
 Peristaltic  Stainless-steel Kemmerer  
 Other

## Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (microsiemens)	Dissolved Oxygen (mg/l)	Comments
						Increment	Cumulative					
<u>1/21/2000</u>	<u>1342</u>	<input checked="" type="checkbox"/>				<u>2.75</u>	<u>2.75</u>	<u>16.9</u>		<u>6.54</u>		<u>odorous + dark grey</u>
<u>1/21/2000</u>	<u>1357</u>	<input checked="" type="checkbox"/>				<u>2.75</u>	<u>5.50</u>	<u>17.2</u>		<u>6.51</u>		<u>odorous + light grey</u>
<u>1/21/2000</u>	<u>1413</u>	<input checked="" type="checkbox"/>				<u>2.75</u>	<u>8.25</u>	<u>16.0</u>		<u>6.42</u>		<u>odorous + clear</u>

Circle the date and time that the development criteria are met.

Comments pH METER MALFUNCTIONED. NO pH READINGS.

Developer's Signature(s) Steve Allen

Date 1/21/2000 Reviewer RT Date 3/10/00

PINNACLE  
LABORATORIES

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

Pinnacle Lab ID number 001063  
February 01, 2000

PHILIP ENVIRONMENTAL  
4000 MONROE ROAD  
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING  
Project Number 62800107

Attention: CECIL IRBY

On 01/25/00 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending), received a 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



H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: jt

Enclosure



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

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 001063
PROJECT #	: 62800107	DATE RECEIVED	: 01/25/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 02/01/00
PIN		DATE	
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	TRIP BLANK	AQUEOUS	01/21/00
02	WBH 0001 MW1-1	AQUEOUS	01/21/00



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

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED  
CLIENT : PHILIP ENVIRONMENTAL  
PROJECT # : 62800107  
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 001063

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	TRIP BLANK	AQUEOUS	01/21/00	NA	01/31/00	1
02	WBH 0001 MW1-1	AQUEOUS	01/21/00	NA	01/31/00	1

PARAMETER	DET. LIMIT	UNITS	TRIP BLANK	WBH 0001 MW1
BENZENE	0.5	UG/L	< 0.5	26
TOLUENE	0.5	UG/L	< 0.5	1.1
ETHYLBENZENE	0.5	UG/L	< 0.5	32
TOTAL XYLENES	0.5	UG/L	< 0.5	5.2

SURROGATE:  
BROMOFLUOROBENZENE (%) 101 114  
SURROGATE LIMITS ( 80 - 120 )

CHEMIST NOTES:  
N/A



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Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST : EPA 8021 MODIFIED PINNACLE I.D. : 001063  
BLANK I. D. : 013100 DATE EXTRACTED : N/A  
CLIENT : PHILIP ENVIRONMENTAL DATE ANALYZED : 01/31/00  
PROJECT # : 62800107 SAMPLE MATRIX : AQUEOUS  
PROJECT NAME : EPFS QUARTERLY SAMPLING

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:  
MOFLUOROBENZENE (%) 107  
SURROGATE LIMITS: ( 80 - 120 )  
CHEMIST NOTES:  
N/A



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

GAS CHROMATOGRAPHY QUALITY CONTROL  
 MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 001063
MSMSD #	: 013100	DATE EXTRACTED	: N/A
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 01/31/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	23.7	119	22.8	114	4	( 80 - 120 )	20
TOLUENE	<0.5	20.0	21.7	109	20.5	103	6	( 80 - 120 )	20
ETHYLBENZENE	<0.5	20.0	23.1	116	21.8	109	6	( 80 - 120 )	20
TOTAL XYLENES	<0.5	60.0	66.8	111	63.6	106	5	( 80 - 120 )	20

LIST NOTES:

N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



# CHAIN OF CUSTODY

PLI Accession #: 001063

DATE: 1/21/2000 PAGE: 1 OF 1

PROJECT MANAGER: Cecil Irby  
COMPANY: Philip Services Corp  
ADDRESS: 4000 Monroe Rd,  
Farmington, NM 87401  
PHONE: 800 326-2262  
FAX: (505) 326-2388  
BILL TO: EPFS  
COMPANY:  
ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
Trip Blank	1/21/2000	1030	H <sub>2</sub> O	01
WBH 0001 MW1-1	1/21/2000	1410	H <sub>2</sub> O	02
WBH 0001 MW1-1	1/21/2000	1410	H <sub>2</sub> O	02

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) <input checked="" type="checkbox"/> MTBE <input type="checkbox"/> TMB <input type="checkbox"/> PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB <input type="checkbox"/> /DBCP <input type="checkbox"/>	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310/8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
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SHADED AREAS ARE FOR LAB USE ONLY. PLEASE FILL THIS FORM IN COMPLETELY.

<b>PROJECT INFORMATION</b> PROJ. NO.: 628 00107 PROJ. NAME: EPFS Quarterly Sampling P.O. NO.:	<b>RELINQUISHED BY:</b> Signature: <i>Steve Oller</i> 0825 Printed Name: Steve Oller 1/21/00 Company: Philip See reverse side (Force Magure)	<b>RELINQUISHED BY:</b> Signature: Printed Name: Company:	<b>RECEIVED BY: (LAB)</b> Signature: <i>MARCUS OLLER</i> 1200 Printed Name: MARCUS OLLER 25/00 Company: Pinnacle Laboratories Inc.
<b>PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS</b> (RUSH) <input type="checkbox"/> 24hr <input type="checkbox"/> 48hr <input type="checkbox"/> 72hr <input type="checkbox"/> 1 WEEK (NORMAL) <input type="checkbox"/> CERTIFICATION REQUIRED: <input type="checkbox"/> NM <input type="checkbox"/> SDWA <input type="checkbox"/> OTHER METHANOL PRESERVATION <input type="checkbox"/> COMMENTS: FIXED FEE <input type="checkbox"/>	<b>RECEIVED BY:</b> Signature: Printed Name: Company:	<b>RECEIVED BY:</b> Signature: Printed Name: Company:	<b>RECEIVED BY:</b> Signature: Printed Name: Company:
<b>SAMPLE RECEIPT</b> NO. CONTAINERS: 3 CUSTODY SEALS: YIN (NA) RECEIVED INTACT: YES BLUE ICE: ICE			



# WELL DEVELOPMENT AND PURGING DATA

Well Number MW-01       Development Purging

Project Name EPES QUARTERLY SAMPLING      Project Manager ROBERT THOMPSON      Page 1 of 1  
 Client Company EL PASO FIELD SERVICES      Phase, Task No. 0301      Project No. 62800107

Site Name WD HEATH B #5 (87493)      Site Address RURAL SAN JUAN COUNTY

Development Criteria  
 3 to 5 Casing Volumes of Water Removal  
 Stabilization of Indicator Parameters  
 Other \_\_\_\_\_

Instruments  
 pH Meter      Serial No. (if applicable) HYDAC  
 DO Monitor  
 Conductivity Meter      HYDAC  
 Temperature Meter      HYDAC  
 Other \_\_\_\_\_

Water Volume Calculation  
 Initial Depth of Well (feet) 45.23' TOR  
 Initial Depth to Water (feet) 27.90' TOR  
 Height of Water Column in Well (feet) 17.33'  
 Diameter (inches): Well 2 1/2" Gravel Pack \_\_\_\_\_

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>17.33'</u>	<u>2.83 x 3</u>	<u>8.49</u>
Gravel Pack			
Drilling Fluids			
Total			<u>8.49</u>

Methods of Development  
 Pump Baller  
 Centrifugal       Bottom Valve  
 Submersible       Double Check Valve  
 Peristaltic       Stainless-steel Kemmerer  
 Other \_\_\_\_\_

Water Disposal KUTZ SEPERATOR

## Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (microsiemens/cm)	Dissolved Oxygen (mg/l)	Comments
						Increment	Cumulative					
<u>4/13/00</u>	<u>1153</u>	<u>X</u>				<u>2</u>	<u>2</u>	<u>22.2</u>	<u>7.15</u>	<u>7060</u>		<u>CLEAR</u>
<u>4/13/00</u>	<u>1200</u>	<u>X</u>				<u>2</u>	<u>4</u>	<u>20.9</u>	<u>7.31</u>	<u>6070</u>		<u>CLEAR</u>
<u>4/13/00</u>	<u>1207</u>	<u>X</u>				<u>2</u>	<u>6</u>	<u>20.6</u>	<u>7.32</u>	<u>6160</u>		<u>CLEAR</u>
<u>4/13/00</u>	<u>1216</u>	<u>X</u>				<u>2</u>	<u>8</u>	<u>21.0</u>	<u>7.36</u>	<u>6370</u>		<u>CLEAR</u>
<u>4/13/00</u>	<u>1223</u>	<u>X</u>				<u>2</u>	<u>10</u>	<u>20.5</u>	<u>7.25</u>	<u>6160</u>		<u>CLEAR</u>

Circle the date and time that the development criteria are met.

Comments SAMPLED AT 1235.00C #C2520

Developer's Signature(s) Robert Thompson      Date 4/13/00      Reviewer \_\_\_\_\_      Date \_\_\_\_\_





# Chain of Custody Record

4000 Monroe Road  
Farmington, NM 87401

(505) 326-2262 Phone  
(505) 326-2388 FAX

COC Serial No. **C 2520**

Project Name <b>EPFS QUARTERLY SAMPLING</b>		Type of Analysis and Bottle	
Project Number <b>62800107 Phase Task 0301</b>		Total Number of Bottles	
Samplers <b>R. THOMPSON</b>		Name <b>PINNACLE LABS</b>	
Laboratory		Location <b>ALBUQUERQUE, NM</b>	
Sample Number (and depth)	Date	Time	Matrix
<b>WDH-0001-MW01</b>	<b>4/13/00</b>	<b>1235</b>	<b>H<sub>2</sub>O</b>
<b>TRIP BLANK</b>	<b>4/13/00</b>	<b>1230</b>	<b>H<sub>2</sub>O</b>
			Comments <b>NO HEATH B'S 97493</b>

Relinquished by:

Received By:

Signature <i>Rod Thompson</i>	Signature
Date <b>4/13/00</b>	Date
Time <b>1620</b>	Time

Samples Iced:  Yes  No

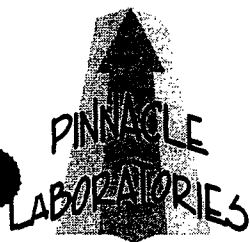
Preservatives (ONLY for Water Samples)

- Cyanide
- Volatile Organic Analysis
- Metals
- TPH (418.1)
- Other (Specify)
- Other (Specify)
- Sodium hydroxide (NaOH)
- Hydrochloric acid (HCl)
- Nitric acid (HNO<sub>3</sub>)
- Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)

Carrier: **GREYHOUND LINES**

Shipping and Lab Notes:

Airbill No. **GLI 160 6650793**



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

Pinnacle Lab ID number      **004055**  
April 24, 2000

PHILIP ENVIRONMENTAL  
4000 MONROE ROAD  
FARMINGTON,      NM      87401

Project Name                      EPFS QUARTERLY SAMPLING  
Project Number                    62800107

Attention:                      Robert Thompson/LeAudra Stanley

On 04/14/00 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending), received a 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.

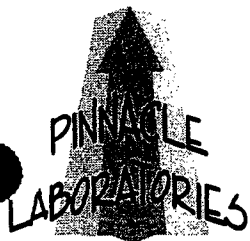
Kimberly D. McNeill  
Project Manager

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: jt

Enclosure





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

### GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED  
CLIENT : PHILIP ENVIRONMENTAL  
PROJECT # : 62800107  
PROJECT NAME : EPFS QUARTERLY SAMPLING

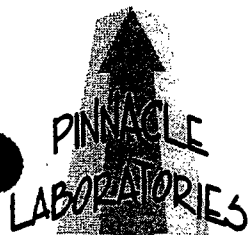
PINNACLE I.D.: 004055

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	WDH-0004-MW01	AQUEOUS	04/13/00	NA	04/15/00	1
02	TRIP BLANK	AQUEOUS	04/13/00	NA	04/15/00	1

PARAMETER	DET. LIMIT	UNITS	WDH-0004-MW01	TRIP BLANK
BENZENE	0.5	UG/L	18	< 0.5
TOLUENE	0.5	UG/L	7.7	< 0.5
ETHYLBENZENE	0.5	UG/L	13	< 0.5
TOTAL XYLENES	0.5	UG/L	3.4	< 0.5

SURROGATE:  
BROMOFLUOROBENZENE (%) 98 94  
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:  
N/A



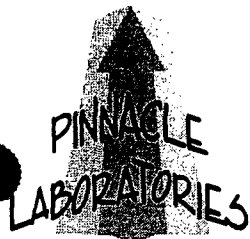
2709-D Pan American Freeway NE  
Albuquerque, New Mexico 87107  
Phone (505) 344-3777  
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS  
REAGENT BLANK

TEST : EPA 8021 MODIFIED                      PINNACLE I.D. : 004055  
BLANK I. D. : 041500                              DATE EXTRACTED : N/A  
CLIENT : PHILIP ENVIRONMENTAL              DATE ANALYZED : 04/15/00  
PROJECT # : 62800107                            SAMPLE MATRIX : AQUEOUS  
PROJECT NAME : EPFS QUARTERLY SAMPLING

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:  
BROMOFLUOROBENZENE (%)                      92  
SURROGATE LIMITS:                      ( 80 - 120 )  
CHECKLIST NOTES:  
N/A



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

GAS CHROMATOGRAPHY QUALITY CONTROL  
MSMSD

TEST : EPA 8021 MODIFIED  
MSMSD # : 041500  
CLIENT : PHILIP ENVIRONMENTAL  
PROJECT # : 62800107  
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D. : 004055  
DATE EXTRACTED : N/A  
DATE ANALYZED : 04/15/00  
SAMPLE MATRIX : AQUEOUS  
UNITS : UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	21.0	105	20.7	104	1	( 80 - 120 )	20
TOLUENE	<0.5	20.0	23.6	118	22.6	113	4	( 80 - 120 )	20
ETHYLBENZENE	<0.5	20.0	22.9	115	22.2	111	3	( 80 - 120 )	20
TOTAL XYLENES	<0.5	60.0	69.2	115	66.4	111	4	( 80 - 120 )	20

COMMENTS NOTES:  
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



# Chain of Custody Record

4000 Monroe Road  
Farmington, NM 87401

(505) 326-2262 Phone  
(505) 326-2388 FAX

COC Serial No. C 2520

Project Name <u>EPFS QUARTERLY SAMPLING</u>		Type of Analysis and Bottle		Comments
Project Number <u>62800107</u> Phase <u>Task 0301</u>		BTLX 801		
Samplers <u>R. THOMPSON</u>		Total Number of Bottles		WD HEALTH BALS 87493
Laboratory Name <u>Pinnacle Labs</u>				
Location <u>ALBUQUERQUE, NM</u>				
Sample Number (and depth)	Date	Time	Matrix	
WDH-0004-MW01	4/13/00	1235	H <sub>2</sub> O	X
TRIP BLANK	4/13/00	1230	H <sub>2</sub> O	X
<div style="display: flex; justify-content: space-between;"> <span>90405</span> <span>22</span> </div>				

**Relinquished by:**

Robert Thompson

**Received By:**

[Signature]

Signature	Date	Time	Signature	Date	Time
<u>[Signature]</u>	4/13/00	1620	<u>[Signature]</u>	04.14.00	9 00

**Samples Iced:**  Yes  No

**Preservatives (ONLY for Water Samples)**

- Cyanide
- Sodium hydroxide (NaOH)
- Volatile Organic Analysis
- Hydrochloric acid (HCl)
- Metals
- Nitric acid (HNO<sub>3</sub>)
- TPH (418.1)
- Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)
- Other (Specify) \_\_\_\_\_
- Other (Specify) \_\_\_\_\_

Carrier: GREYHOUND LINES

Shipping and Lab Notes:

on ice @ 4.8°C

Airbill No. GLI 1006650793



Well Number MW-01  
 Serial No. WDPD-

WELL DEVELOPMENT AND PURGING DATA  
 Page 1 of 1

Project Name EPES QUARTERLY SAMPLING  
 Client Company EPES

Project Manager R. Thompson  
 Phase/Task No. 0301

Site Name HEATH B-5 (87493)  
 Site Address RURAL SAN JUAN CO.

**Development Criteria**

- 0 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other

**Water Volume Calculation**

Initial Depth of Well (feet) 45.24 TOR  
 Initial Depth to Water (feet) 28.63 TOR  
 Height of Water Column in Well (feet) 16.61  
 Diameter (inches): Well 2 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	16.61	2.7 x 3	8.1
Gravel Pack			
Drilling Fluids			
<b>Total</b>			<b>8.1</b>

**Methods of Development**

- Pump
- Centrifugal
- Submersible
- Peristaltic
- Other
- Bailor
- Bottom Valve
- Double Check Valve
- Stainless-steel Kemmerer

**Instruments**

- pH Meter HYDAC
- DO Monitor
- Conductivity Meter HYDAC
- Temperature Meter HYDAC
- Other

**Water Disposal**

KUTZ SEPARATOR, BLOOMFIELD, NM

**Water Removal Data**

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/l)	Comments
						Increment	Cumulative					
7/24/00	1524	X				2	2	25.4	7.27	6500		CLEAR, SEPTIC TANK
"	1528	X				2	4	23.1	7.28	6380		"
"	1532	X				2	6	22.8	7.23	6370		"
"	1534	X				2	8	22.8	7.31	6300		"
"	1636	X				2	10	22.6	7.29	6280		"

Circle the date and time that the development criteria are met.

Comments Sampled for BTEX at 1540

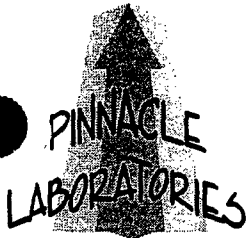
Developer's Signature(s) [Signature]

Date 7/24/00

Reviewer BT Date 8/3/00







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

Pinnacle Lab ID number      **007083**  
August 08, 1998

PHILIP ENVIRONMENTAL  
4000 MONROE ROAD  
FARMINGTON, NM 87401

EL PASO FIELD SERVICES  
614 RIELY STREET  
FARMINGTON, NM 87401

Project Name                      EPFS QUARTERLY SAMPLING  
Project Number                  62800107

Attention:                      ROBERT THOMPSON/LEAUDRA STANLEY

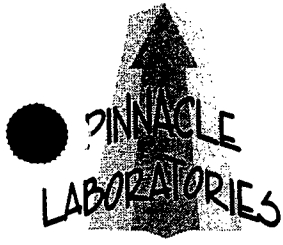
On 07/28/00 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

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

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: jt

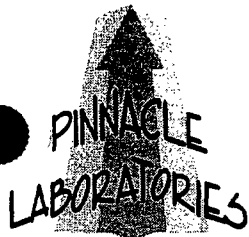
Enclosure



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

CLIENT	: PHILIP ENVIRONMENTAL	PINNACLE ID	: 007083
PROJECT #	: 62800107	DATE RECEIVED	: 07/28/00
PROJECT NAME	: EPFS QUARTERLY SAMPLING	REPORT DATE	: 08/03/00

PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	HEA-0007-MW01	AQUEOUS	07/24/00



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

### GAS CHROMATOGRAPHY RESULTS

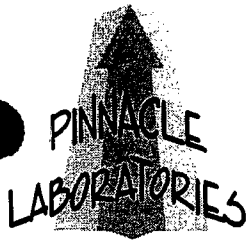
TEST : EPA 8021 MODIFIED  
CLIENT : PHILIP ENVIRONMENTAL  
PROJECT # : 62800107  
PROJECT NAME : EPFS QUARTERLY SAMPLING

PINNACLE I.D.: 007083

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	HEA-0007-MW01	AQUEOUS	07/24/00	NA	08/01/00	1

PARAMETER	DET. LIMIT	UNITS	HEA-0007-MW01
BENZENE	0.5	UG/L	2.8
TOLUENE	0.5	UG/L	< 0.5
ETHYLBENZENE	0.5	UG/L	5.4
TOTAL XYLENES	0.5	UG/L	< 0.5
SURROGATE:			
BROMOFLUOROBENZENE (%)			102
SURROGATE LIMITS	( 80 - 120 )		

CHEMIST NOTES:  
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 : EPA 8021 MODIFIED                      PINNACLE I.D. : 007083  
BLANK I. D. : 080100                              DATE EXTRACTED : NA  
CLIENT : PHILIP ENVIRONMENTAL              DATE ANALYZED : 08/01/00  
PROJECT # : 62800107                            SAMPLE MATRIX : AQUEOUS  
PROJECT NAME : EPFS QUARTERLY SAMPLING

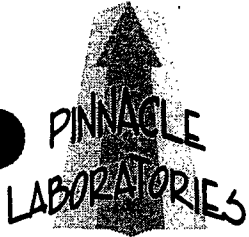
PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5

SURROGATE:

BROMOFLUOROBENZENE (%)                      95  
SURROGATE LIMITS: ( 80 - 120 )

CHEMIST NOTES:

N/A



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

GAS CHROMATOGRAPHY QUALITY CONTROL  
 MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 007083
MSMSD #	: 007079-01	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 08/01/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	17.3	87	16.7	84	4	( 80 - 120 )	20
TOLUENE	<0.5	20.0	21.3	107	20.1	101	6	( 80 - 120 )	20
ETHYLBENZENE	<0.5	20.0	23.0	115	21.9	110	5	( 80 - 120 )	20
TOTAL XYLENES	1.1	60.0	70.4	116	66.9	110	5	( 80 - 120 )	20

CHEMIST NOTES:  
 N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



# Chain of Custody Record

4000 Monroe Road  
Farmington, NM 87401

(505) 326-2262 Phone  
(505) 326-2388 FAX

067083

COC Serial No. C 2597

Project Name <i>EPES QUARTERLY SAMPLING</i>		Type of Analysis and Bottle		Comments
Project Number <i>62800107 Phase Task 0301</i>		<i>BTEX 8021</i>		
Samplers <i>J. WAGNON</i>		Total Number of Bottles		<i>HEATH 8-5 #87493</i>
Laboratory Name <i>PINNACLE LABS</i>				
Location <i>ALBUQUERQUE, NM</i>				
Sample Number (and depth)	Date	Time	Matrix	
<i>HEA-0007-MW01</i>	<i>7/24/00</i>	<i>1540</i>	<i>H2O</i>	<i>2 X</i>

Relinquished by:		Received By:	
Signature <i>Jean Wagner</i>	Date <i>7/28/00</i>	Signature <i>Sharon J. ...</i>	Date <i>7/28/00</i>
Time <i>1010</i>	Time <i>1640</i>		

Samples Iced: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Carrier: <i>GRAYHOUND LINES</i>	Airbill No. <i>6CF160651101</i>
Preservatives (ONLY for Water Samples)	Shipping and Lab Notes:	
<input type="checkbox"/> Cyanide <input checked="" type="checkbox"/> Volatile Organic Analysis <input type="checkbox"/> Metals <input type="checkbox"/> TPH (419.1) <input type="checkbox"/> Other (Specify) _____	<input type="checkbox"/> Sodium hydroxide (NaOH) <input type="checkbox"/> Hydrochloric acid (HCl) <input type="checkbox"/> Nitric acid (HNO3) <input type="checkbox"/> Sulfuric acid (H2SO4) <input type="checkbox"/> Other (Specify) _____	
<i>Rec'd @ 3.1°C</i>		



Well Number MW 01

# WELL DEVELOPMENT AND PURGING DATA

Serial No. WDPD

Page 1 of 1

Project Name Ep FS quarterly Sampling

Project Manager R Thompson

Project No. 62800107

Client Company EPFS

Phase/Task No. 0301

Site Name W.D. Heath B\*5 (87493)

Site Address Rural San Juan Co.

### Development Criteria

- 3 to 5 Casing Volumes of Water Removal
- Stabilization of Indicator Parameters
- Other

### Water Volume Calculation

Initial Depth of Well (feet) 46.25  
 Initial Depth to Water (feet) 29.92  
 Height of Water Column in Well (feet) 16.83  
 Diameter (inches): Well 2" Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	<u>16.83</u>	<u>2.74X3</u>	<u>8.22</u>
Gravel Pack			
Drilling Fluids			
Total			<u>8.22</u>

### Methods of Development

- Pump
  - Centrifugal
  - Bottom Valve
  - Submersible
  - Double Check Valve
  - Peristaltic
  - Stainless-steel Kemmerer
  - Other

Instruments

- pH Meter
- DO Monitor
- Conductivity Meter Hydac
- Temperature Meter Hydac
- Other

Serial No. (if applicable)

Hydac

### Water Disposal

KUTZ Separator Bloomfield NM

### Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Initial Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (microsiemens/cm)	Dissolved Oxygen (mg/l)	Comments
						Increment	Cumulative					
10-23-00	0928	X				1.75	1.75	16.9	7.09	7580		Clear
	0933	X				1.75	3.50	15.9	7.08	7390		no egg odor
	0940	X				1.75	5.25	15.2	7.08	7350		"
	0946	X				1.75	7	15.0	7.10	7360		"
	0953					1.75	8.75	14.7	7.08	7050		no change

Circle the date and time that the development criteria are met.

Comments Sampled for B Tex AT 1000

Developer's Signature(s) Chris A May

Date 10-23-00

Reviewer RT

Date 10/27/00



# PHILIP Chain of Custody Record

4000 Monroe Road  
Farmington, NM 87401

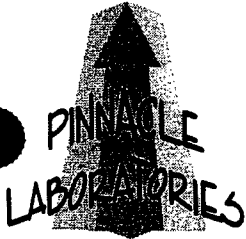
(505) 326-2262 Phone  
(505) 326-2388 FAX

COC Serial No. C 2684

Project Name		Type of Analysis and Bottle				Total Number of Bottles		Comments
Project Number		Matrix		Time		Date		
E.P.E.S. Quarterly Sampling		H <sub>2</sub> O		1000		10-23-00		W.D. Health B# 5
62800107 Phase. Task 0301.		H <sub>2</sub> O		1000		10-25-00		
Samplers	C. Masz							
Laboratory	Name PENNACLE							
Location ALBQ. NM.								
Sample Number (and depth)	Date	Time	Matrix					

Relinquished by:	Received By:		
Signature	Signature	Date	Time
[Signature]	[Signature]	10-25-00	1600

Samples Iced: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Carrier: Grey Insulated	Airbill No. GLI 1606918731
<b>Preservatives (ONLY for Water Samples)</b> <input type="checkbox"/> Cyanide ..... Sodium hydroxide (NaOH) <input type="checkbox"/> Volatile Organic Analysis ..... Hydrochloric acid (HCl) <input type="checkbox"/> Metals ..... Nitric acid (HNO <sub>3</sub> ) <input type="checkbox"/> TPH (418.1) ..... Sulfuric acid (H <sub>2</sub> SO <sub>4</sub> ) <input checked="" type="checkbox"/> Other (Specify) HgCl <sub>2</sub> <input type="checkbox"/> Other (Specify) _____	Shipping and Lab Notes:	



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

NOV - 6 2000

Pinnacle Lab ID number 010101  
November 01, 2000

PHILIP ENVIRONMENTAL  
4000 MONROE ROAD  
FARMINGTON, NM 87401

EL PASO FIELD SERVICES  
614 RIELLY STREET  
FARMINGTON, NM 87401

Project Name EPFS QUARTERLY SAMPLING  
Project Number 62800107

Attention: ROBERT THOMPSON/SCOTT POPE

On 10/26/00 Pinnacle Laboratories, Inc., (ADHS License No. AZ0592 pending), received a 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.

H. Mitchell Rubenstein, Ph. D.  
General Manager

MR: jt

Enclosure

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



CLIENT : PHILIP ENVIRONMENTAL PINNACLE ID : 010101  
PROJECT # : 62800107 DATE RECEIVED : 10/26/00  
PROJECT NAME : EPFS QUARTERLY SAMPLING REPORT DATE : 11/02/00

PIN			DATE
ID. #	CLIENT DESCRIPTION	MATRIX	COLLECTED
01	WDH-0010-MW 01	AQUEOUS	10/23/00



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

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED  
 CLIENT : PHILIP ENVIRONMENTAL  
 PROJECT # : 62800107  
 PROJECT NAME : EPFS QUARTERLY SAMPLING

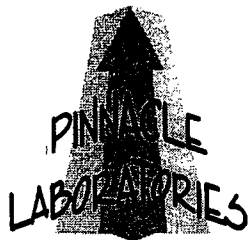
PINNACLE I.D.: 010101

SAMPLE	DATE	DATE	DATE	DIL.
S. #	SAMPLED	EXTRACTED	ANALYZED	FACTOR
1	10/23/00	NA	10/30/00	1

PARAMETER	DET. LIMIT	UNITS	WDH-0010-MW 01
BENZENE	0.5	UG/L	11
TOLUENE	0.5	UG/L	< 0.5
ETHYLBENZENE	0.5	UG/L	17
TOTAL XYLENES	0.5	UG/L	2.3

DUPLICATE:  
 FROM FLUOROBENZENE (%) 117  
 SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:  
 I/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	: EPA 8021 MODIFIED	PINNACLE I.D.	: 010101
BLANK I. D.	: 103000	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 10/30/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
XYLENES	UG/L	<0.5

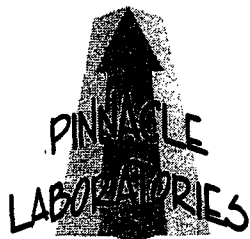
URROGATE:

BROMOFLUOROBENZENE (%) 105

DATE LIMITS: ( 80 - 120 )

ANALYST NOTES:

IA



GAS CHROMATOGRAPHY QUALITY CONTROL  
 MSMSD

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 010101
MSMSD #	: 010100-01	DATE EXTRACTED	: NA
CLIENT	: PHILIP ENVIRONMENTAL	DATE ANALYZED	: 10/30/00
PROJECT #	: 62800107	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: EPFS QUARTERLY SAMPLING	UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.9	100	17.6	88	12	( 80 - 120 )	20
TOLUENE	<0.5	20.0	19.9	100	19.9	100	0	( 80 - 120 )	20
ETHYLBENZENE	<0.5	20.0	21.3	107	21.5	108	1	( 80 - 120 )	20
OTAL XYLENES	<0.5	60.0	62.4	104	62.6	104	0	( 80 - 120 )	20

HEMIST NOTES:  
 /A

$$\text{Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{PD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$



# Chain of Custody Record

4000 Monroe Road  
Farmington, NM 87401

(505) 326-2262 Phone  
(505) 326-2388 FAX

010101

COC Serial No. C 2684

Project Name <u>EPFS quarterly Sampling</u>		Type of Analysis and Bottle		Total Number of Bottles	01	Comments
Project Number <u>62800102 Phase 1 Task 0301</u>		<u>100 TR#</u>				
Samplers <u>C. Metz</u>		<u>BTEX 8021</u>				
Laboratory Name <u>PINNACLE</u>						
Location <u>ALBQ. NM.</u>						
Sample Number (and depth)	Date	Time	Matrix			
<u>WDH-0015-MW01</u>	<u>10-23-00</u>	<u>1000</u>	<u>H<sub>2</sub>O</u>	<u>2</u>	<u>X</u>	<u>WD Heat B #5</u>

### Relinquished by:

Signature <u>Phil A. Metz</u>	Date <u>10-25-00</u>	Time <u>16 00</u>
Signature <u>Stamen Joviro</u>	Date <u>10/26/00</u>	Time <u>1640</u>

### Received By:

Carrier: <u>Greyhound</u>	Airbill No. <u>GLI 1606918731</u>
---------------------------	-----------------------------------

### Samples Iced: Yes No

### Preservatives (ONLY for Water Samples)

- Cyanide
- Sodium hydroxide (NaOH)
- Volatile Organic Analytes
- Hydrochloric acid (HCl)
- Metals
- Nitric acid (HNO<sub>3</sub>)
- TPH (418.1)
- Sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)
- Other (Specify) HgCl<sub>2</sub>
- Other (Specify)

### Shipping and Lab Notes:

Rec'd @ 5:16