

**3R - 228**

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# **REPORTS**

**DATE:**

**1998**

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**Certified Mail: #Z 211 324 121**

March 31, 1999

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

**RECEIVED**

**APR 05 1999**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**RE: 1998 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 49 reports, EPFS hereby requests closure of 18 of these locations. The 18 sites EPFS is requesting closure on are presented in 4 separate binders entitled "Final Closure Report for Groundwater Sites with Four Consecutive Quarters Below Standards".

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".

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

Sincerely,

A handwritten signature in dark 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 # Z 211 324 122**  
Mr. Bill Liesse, BLM - w / enclosures; **Certified Mail # Z 211 324 123**  
Ms. Charmaine Tso, Navajo EPA - w / enclosures; **Certified Mail # Z 211 324 120**

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

**El Paso Field Services**  
**Final Closure Report For Groundwater Sites With Four**  
**Consecutive Quarters Below Standards**

**December 1998**

**RECEIVED**

**APR 05 1999**

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

**Prepared For**

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

**Project 17520**  
**Book 1**



# EPFS GROUNDWATER SITES 1998 CLOSURE REPORT

OHIO "C" GOVERNMENT #3 (Pits 1 & 2)  
Meter/Line ID - 72890

RECEIVED

APR 05 1999

Legals - Twn: 28      Rng: 11      Sec: 26  
NMOCD Hazard Ranking: 40  
Operator: Marathon Oil Company

## SITE DETAILS

Unit: P  
Land Type: BLM

ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION

## PREVIOUS ACTIVITIES

Site Assessment: Sep-94/ Aug-95  
Soil Boring: Sep-95  
Monitor Well: May-97

Excavation Pit 1: Sept-94 (50cy)  
Excavation Pit 2: Sep-95 (1098cy)

Re-Excavation Pit 1: Aug-95 (1184cy)  
Geoprobe: October-96

Pit #1 was excavated to 12 feet beneath ground surface (bgs). Approximately 50 cubic yards were removed during excavation. The headspace soil reading from the excavation bottom was 328 ppm. Soil analytical were as follows; benzene - 150 mg/kg, total BTEX - 1840, and TPH (418.1) 11,800.

Pit #1 was re-excavated to 17 feet beneath ground surface (bgs). The headspace soil reading from the excavation bottom was 197 ppm. Approximately 1183 cubic yards of contaminated soil was removed from the excavation. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX - 1840 mg/kg, and TPH (418.1) 632 mg/kg.

One soil boring was drilling in the center of Pit #1 and a sample was collected from 13-15 feet bgs. The sample results were as follows: benzene - <0.5 mg/kg, total BTEX <3 mg/kg and TPH (418.1) 54.8 mg.

Pit #2, which is adjacent to Pit #1, was excavated to 13-17 feet beneath ground surface (bgs) where groundwater was encountered. Approximately 1098 cubic yards of contaminated soil was removed from the excavation. The headspace soil reading from the excavation bottom was 72 ppm. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX <3 mg/kg, and TPH (418.1) 66.0 mg/kg. Due to the size of the excavation of Pit #1 and Pit #2, the excavation was joined as shown in figure 1.

One soil boring was drilled in the center of Pit #2 and a monitoring well was installed. No soil samples were collected. Groundwater sampling was initiated on 6/26/97 and continued through 3/27/98. Groundwater analytical data are presented in Table 1. Groundwater analytical data prior to 1998 has been previously submitted in the 1997 Annual Report, along with well diagrams and borings logs.

## CONCLUSIONS

EPFS has excavated over 2,332 cubic yards contaminated soil from Pit #1 and Pit #2. Soil Samples below standard were collected from both pits.

Groundwater encountered in Pit #2 monitoring well has been below standards for 4 consecutive quarters since quarterly sampling was initiated. Additional geoprobe groundwater sampling has shown that around the operator's pit, BTEX levels are above standards. As stated in the 1997 Annual Groundwater report, EPFS feels they have remediated the bulk of the impacted soils and has proven this by showing 4 consecutive quarters of groundwater sample below standard in MW-1.

## RECOMMENDATIONS

- EPFS request closure at this site.
- Following OCD approval for closure, MW-1 will be abandoned following OCD approved abandonment procedures.

KUTZ WASH ±1000'  
FROM SITE

WELL  
HEAD

ACCESS ROAD

PRODUCTION PIT

SUMP

TANK

TANK

PRODUCTION PIT

DEHYDRATOR

SUMP

METER  
HOUSE

FORMER PIT

MW-1

B<1

T<1

E<1

X<3

# 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

—X— FENCE

NOT TO SCALE

T28 R 11 SEC 26 UNIT P

PROJECT NO.: 17520

EPFS GW PITS

DES: CI

APPD:

REV: 0

DWN: TMM

CHKD: CI

DATE: 2/26/99

TITLE:

OHIO C GOVERNMENT #3

METER 72890

MARCH 25, 1998



FIGURE 1

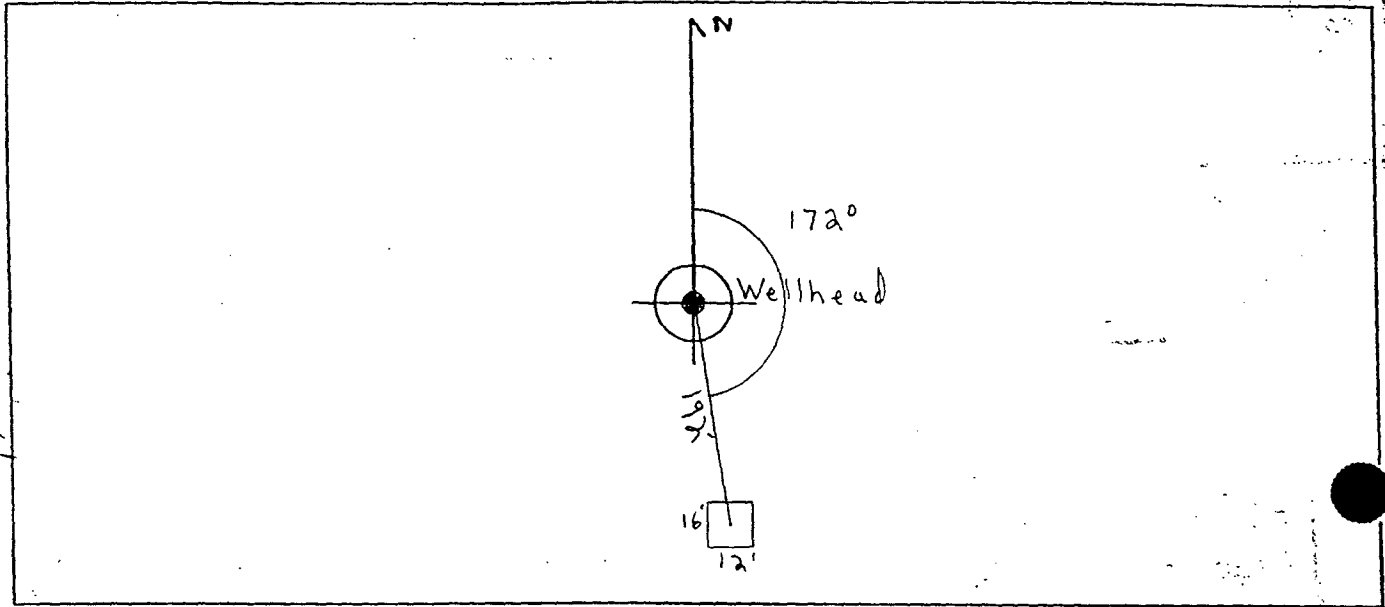
# FIELD PIT SITE ASSESSMENT FORM

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GENERAL         | Meter: <u>72890</u> Location: <u>Ohio "C" Government #3 (TD)</u><br>Operator #: <u>5860</u> Operator Name: <u>Margathon P/L District: Angel Peak</u><br>Coordinates: Letter: <u>P</u> Section <u>26</u> Township: <u>28</u> Range: <u>11</u><br>Or Latitude _____ Longitude _____<br>Pit Type: Dehydrator _____ Location Drip: <input checked="" type="checkbox"/> Line Drip: _____ Other: _____<br>Site Assessment Date: <u>9/14/94</u> Area: <u>01</u> Run: <u>63</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| SITE ASSESSMENT | NMOCD Zone: (From NMOCD Maps) Inside <input checked="" type="checkbox"/> (1) Outside <input type="checkbox"/> (2)<br>Land Type: BLM <input checked="" type="checkbox"/> (1) State <input type="checkbox"/> (2) Fee <input type="checkbox"/> (3) Indian _____<br>Depth to Groundwater<br>Less Than 50 Feet (20 points) <input checked="" type="checkbox"/> (1)<br>50 Ft to 99 Ft (10 points) <input type="checkbox"/> (2)<br>Greater Than 100 Ft (0 points) <input type="checkbox"/> (3)<br>Wellhead Protection Area :<br>Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? <input type="checkbox"/> (1) YES (20 points) <input checked="" type="checkbox"/> (2) NO (0 points)<br>Horizontal Distance to Surface Water Body<br>Less Than 200 Ft (20 points) <input checked="" type="checkbox"/> (1)<br>200 Ft to 1000 Ft (10 points) <input type="checkbox"/> (2)<br>Greater Than 1000 Ft (0 points) <input type="checkbox"/> (3)<br>Name of Surface Water Body <u>Kutz Canyon</u><br>(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)<br>Distance to Nearest Ephemeral Stream <input type="checkbox"/> (1) < 100' (Navajo Pits Only)<br><input type="checkbox"/> (2) > 100'<br>TOTAL HAZARD RANKING SCORE: <u>40</u> POINTS |  |
|                 | REMARKS : <u>Redline Book - Inside Vulnerable Zone Tap - Inside</u><br><u>4 pits. Will close. Pit dry. Meter # was obtained by using Coordinates in Redline book. Angel Peak Office did not have meter # because well is T.D.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |

# ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 172° Footage from Wellhead 192'  
 b) Length : 16' Width : 12' Depth : 4'

ORIGINAL PIT LOCATION



REMARKS

Remarks :

Pictures @ 1241

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Completed By:

Cory Chase  
 Signature

9/14/94  
 Date

# FIELD PIT SITE ASSESSMENT FORM

South Pit

Meter: 72-890 Location: MA OHIO C GOV'T #3 (2nd Pit)  
 Operator #: 5860 Operator Name: MARATHON OIL COMPANY P/L District: ANGEL PEAK  
 Coordinates: Letter: P Section 26 Township: 28 Range: 11  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Pit Type: Dehydrator X Location Drip: \_\_\_\_\_ Line Drip: \_\_\_\_\_ Other: \_\_\_\_\_  
 Site Assessment Date: 8-31-95 Area: 01 Run: 63

|             |            |        |                                         |
|-------------|------------|--------|-----------------------------------------|
| NMOCD Zone: | Land Type: | BLM    | <input checked="" type="checkbox"/> (1) |
| (From NMOCD |            | State  | <input type="checkbox"/> (2)            |
| Maps)       | Inside     | Fee    | <input type="checkbox"/> (3)            |
|             | Outside    | Indian | _____                                   |

## Depth to Groundwater

Less Than 50 Feet (20 points) ☒ (1)  
 50 Ft to 99 Ft (10 points) ☐ (2)  
 Greater Than 100 Ft (0 points) ☐ (3)

## Wellhead Protection Area :

Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

## Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☒ (1)  
 200 Ft to 1000 Ft (10 points) ☐ (2)  
 Greater Than 1000 Ft (0 points) ☐ (3)

Name of Surface Water Body KUTZ CANYON

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

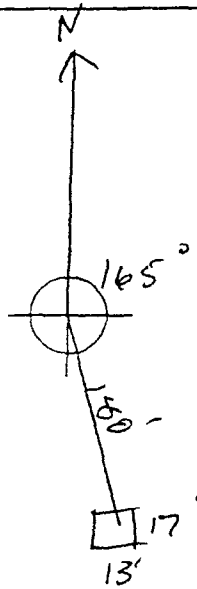
Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)  
☐ (2) > 100'

TOTAL HAZARD RANKING SCORE: 40 POINTS

Remarks : P&A, NORTH PIT, MARATHON PRODUCTION PIT DOWN-

### ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 165° Footage from Wellhead 180'  
b) Length : 17 Width : 13 Depth : 4"



Remarks :

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Completed By:

*Henry Corley*  
Signature

8-31-95

Date

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**PHASE I EXCAVATION  
PIT 1**

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# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72890 Location: Ohio "C" Government #3 TD  
 Coordinates: Letter: P Section 26 Township: 28 Range: 11  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 9-23-94 Run: 01 63

FIELD OBSERVATIONS

Sample Number(s): KP 249  
 Sample Depth: 12' Feet  
 Final PID Reading 328 PID Reading Depth 12' Feet  
 Yes No  
 Groundwater Encountered ☐ ☒ Approximate Depth \_\_\_\_\_ Feet

CLOSURE

Remediation Method :  
 Excavation ☒ Approx. Cubic Yards 50  
 Onsite Bioremediation ☐  
 Backfill Pit Without Excavation ☐  
 Soil Disposition:  
 Envirotech ☒ ☐ Tierra  
 Other Facility ☐ Name: \_\_\_\_\_  
 Pit Closure Date: 9-23-94 Pit Closed By: B.E.I

REMARKS

Remarks : Some line markers started Remediating to 12'  
Soil Turned Light gray with a smell. At 12' Soil still  
The Same.

Signature of Specialist: Kelly Padella



## CHAIN OF CUSTODY RECORD

[illegible]



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

## PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

|                            |          |                        |
|----------------------------|----------|------------------------|
|                            | Field ID | Lab ID                 |
| SAMPLE NUMBER:             | KP249    | 946206                 |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Government #3   |
| SAMPLE DATE   TIME (Hrs):  | 09/23/94 | 1000                   |
| PROJECT:                   | Phase I  |                        |
| DATE OF TPH EXT.   ANAL.:  | 09/27/94 | 09/27/94               |
| DATE OF BTEX EXT.   ANAL.: | 09/29/94 | 10/02/94               |
| TYPE   DESCRIPTION:        | VC       | Black/gray course sand |

Field Remarks: Pit #1

## RESULTS

| PARAMETER      | RESULT | UNITS | QUALIFIERS |   |      |       |
|----------------|--------|-------|------------|---|------|-------|
|                |        |       | DF         | Q | M(g) | V(ml) |
| BENZENE        | 150    | MG/KG | 50         |   |      |       |
| TOLUENE        | 930    | MG/KG | 50         |   |      |       |
| ETHYL BENZENE  | 61     | MG/KG | 50         |   |      |       |
| TOTAL XYLENES  | 700    | MG/KG | 50         |   |      |       |
| TOTAL BTEX     | 1840   | MG/KG |            |   |      |       |
| TPH (418.1)    | 11800  | MG/KG |            |   | 0.86 | 28    |
| HEADSPACE PID  | 328    | PPM   |            |   |      |       |
| PERCENT SOLIDS | 87.9   | %     |            |   |      |       |

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

The Surrogate Recovery was at 180 % for this sample All QA/QC was acceptable.

Qualitative:

No quantitative analyses. Surrogate recovery was outside ATI QC limits due to matrix interference.

DF = Dilution Factor Used

Approved By:

Date:

7/18/96

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**PHASE II EXCAVATION  
PIT 1**

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# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 72890 Location: Ohio C Government #3 (1st Pit) North Pit  
 Coordinates: Letter: P Section 26 Township: 28 Range: 11  
 Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Date Started : 8-31-95 Run: 01 63

JLD OBSERVATIONS

Sample Number(s): 4P56 4P57  
 Sample Depth: 17' Feet  
 Final PID Reading 197 PID Reading Depth 17' Feet  
 Yes No  
 Groundwater Encountered ☒ ☐ Approximate Depth 17' Feet

CLOSURE

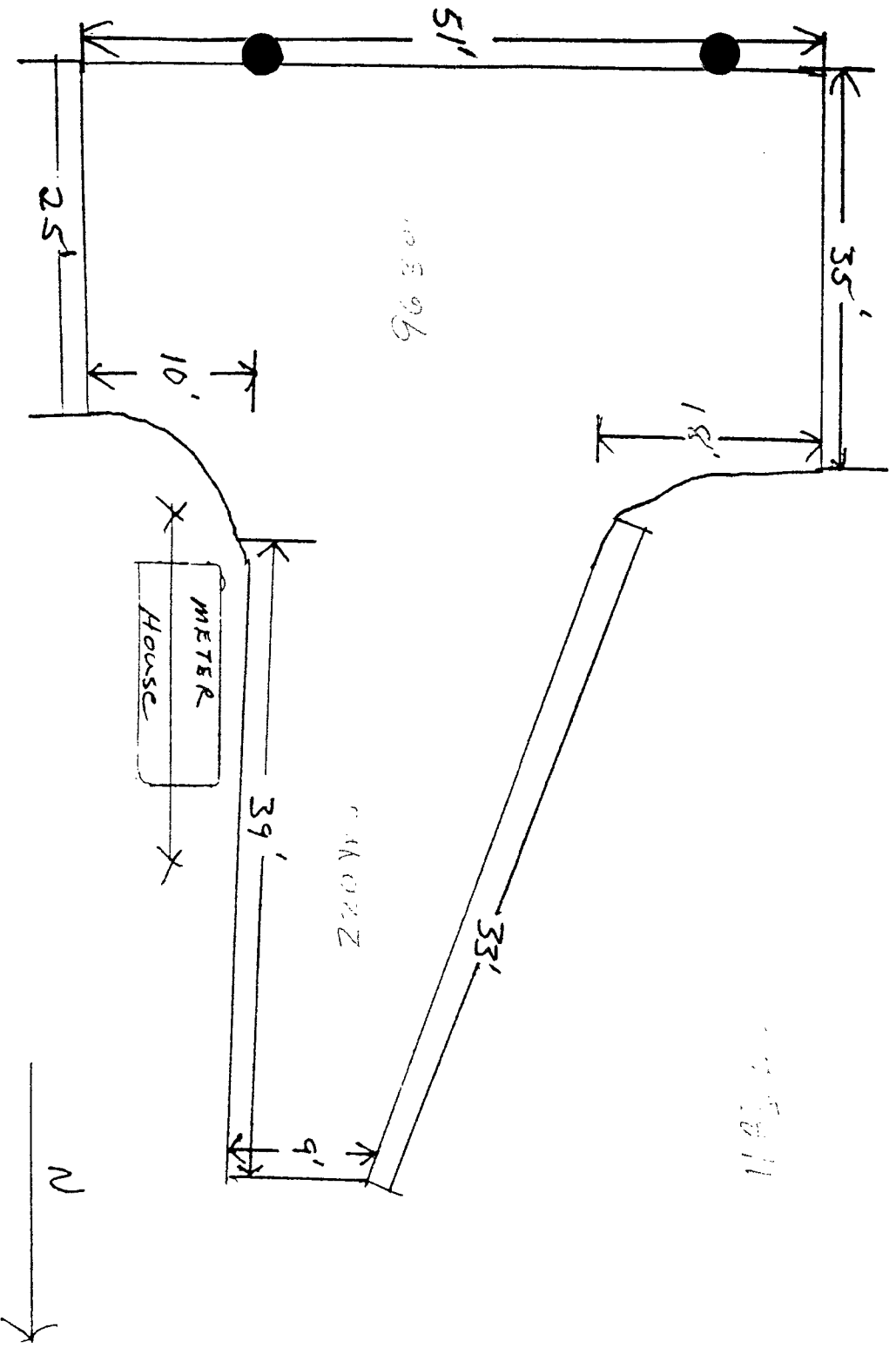
Remediation Method :  
 Excavation ☒ Approx. Cubic Yards \_\_\_\_\_  
 Onsite Bioremediation ☐  
 Backfill Pit Without Excavation ☐  
 Soil Disposition:  
 Envirotech ☒ ☐ Tierra  
 Other Facility ☐ Name: \_\_\_\_\_  
 Pit Closure Date: 9-5-95 Pit Closed By: Philip Env.

PLEASE  
CORRECT.

REMARKS

Remarks : Phase I Dig to 17' took pit it was 53 ppm, also  
lit sandy gravel. Contamination starts at approx 8' to Bottom  
Took North wall PID it was 268 ppm South wall was 172.5 ppm East wall 125 ppm  
West wall was 156 ppm Used 75 LBS Fertilizer See Back

Signature of Specialist: James J. Puro

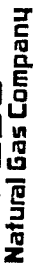


Do not remove  
Date



# CHAIN OF CUSTODY RECORD

[illegible]



## Page \_\_\_\_\_ of \_\_\_\_\_

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

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**PHASE III EXCAVATION  
PIT 2**

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# FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II

Meter: 72890 Location: Ohio C Govt #3 South Pit (2nd Pit)

Coordinates: Letter: P Section 26 Township: 28 Range: 11

Or Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

Date Started : 9-6-95 Area: 01 Run: 63

Sample Number(s): 4P58 4P59

Sample Depth: 13'-17' Feet

Final PID Reading 72 ppm PID Reading Depth 13'-17' Feet  
Yes No

Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth 13' East side  
17' West side Feet

Dimensions: Length 76' Width 56' Depth 13 East side  
17 West side

## Remediation Method :

Excavation ☒ (1) Approx. Cubic Yards 1,098 8/19

Onsite Bioremediation ☐ (2)

Backfill Pit Without Excavation ☐ (3)

## Soil Disposition:

Overburden Cubic Yards 33 8/19

Envirotech ☒ (1) ☐ (3) Tierra

Other Facility ☐ (2) Name: \_\_\_\_\_

Pit Closure Date: \_\_\_\_\_ Pit Closed By: Philip Enu

Used 100 Lbs of Fertilizer.

Remarks : Phase II Dug to 17' hit ground water on west side  
hit water at 13 ft on east side. Took Water sample, took PID

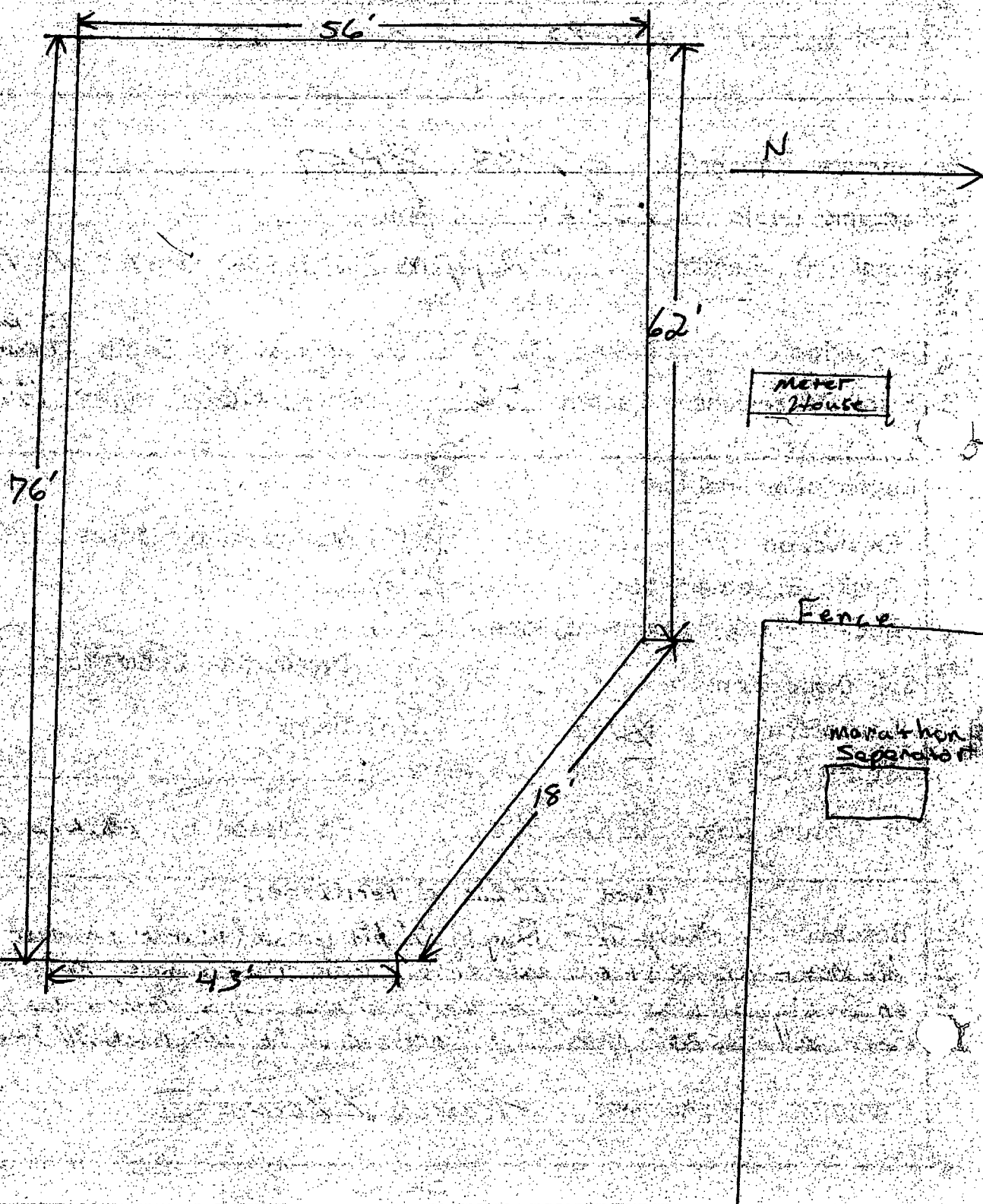
South wall was 005 ppm, West wall was 5 ppm, Bottom was 3 ppm  
East wall was 236 ppm No North wall it was Backfill from previous  
pit.

Signature of Specialist: James J. Lewis

over

Antwa  
Feb  
9/19

East wall contaminated starts at approx 7 ft  
and is approx 3 ft thick. Bottom Sample are 13'-17'  
Due to surface ground slope



## Page \_\_\_\_\_ of \_\_\_\_\_

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



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT  
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

947389

FIELD ID:

JP 56

MTR CODE:

72890

SAMPLE DATE:

09-01-95

SAMPLE TYPE:

Excavation

SITE NAME:

Ohio C Gort. #3 (north pit)

PROJECT:

~~Phase I~~ Excavation Phase I

DATE OF BTEX ANALYSIS:

09/06/95

FIELD COMMENTS:

EPA Method 8020 (BTEX) RESULTS

| PARAMETER                          | RESULT | QUALIFIER                    | WQCC<br>LIMIT<br>PPB |
|------------------------------------|--------|------------------------------|----------------------|
| TDS - TOTAL DISSOLVED SOLIDS (PPM) | N/A    |                              | None                 |
| BENZENE (PPB)                      | 1350   | D (X50)                      | 10                   |
| TOLUENE (PPB)                      | 5460   | D (X50)                      | 740                  |
| ETHYL BENZENE (PPB)                | 147    | D (X50)                      | 750                  |
| TOTAL XYLENES (PPB)                | 2860   | D (X50)                      | 620                  |
| SURROGATE % RECOVERY               | 86     | Allowed Range<br>80 to 120 % |                      |

NOTES:

John P. ...

9-11-95



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

947428

FIELD ID:

JP58

MTR CODE:

72890

SAMPLE DATE:

09/07/95

SAMPLE TYPE:

WG

SITE NAME:

Ohio C Govt #3, Pit #1

PROJECT:

Phase II Excavation

DATE OF BTEX ANALYSIS:

09/11/95

FIELD COMMENTS:

EPA Method 8020 (BTEX) RESULTS

| PARAMETER                          | RESULT          | QUALIFIER                    | WQCC<br>LIMIT<br>PPB |
|------------------------------------|-----------------|------------------------------|----------------------|
| TDS - TOTAL DISSOLVED SOLIDS (PPM) | Not<br>Required |                              | None                 |
| BENZENE (PPB)                      | 200             | D (x5)                       | 10                   |
| TOLUENE (PPB)                      | 713             | D (x5)                       | 740                  |
| ETHYL BENZENE (PPB)                | < 10            | D (x5)                       | 750                  |
| TOTAL XYLENES (PPB)                | 808             | D (x5)                       | 620                  |
| SURROGATE % RECOVERY               | 99%             | Allowed Range<br>80 to 120 % |                      |

ES:

Approved By:

*John Larkin*

*7/18/96*



## FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

#### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

#### SAMPLE IDENTIFICATION

|                            | Field ID            | Lab ID                  |
|----------------------------|---------------------|-------------------------|
| SAMPLE NUMBER:             | JP59                | 947427                  |
| MTR CODE   SITE NAME:      | 72890               | Ohio C Government #3    |
| SAMPLE DATE   TIME (Hrs):  | 09/07/95            | 1510                    |
| PROJECT:                   | Phase II Excavation |                         |
| DATE OF TPH EXT.   ANAL.:  | 09/08/95            | 09/12/95                |
| DATE OF BTEX EXT.   ANAL.: | 09/08/95            | 09/12/95                |
| TYPE   DESCRIPTION:        | VC                  | Light brown sand & clay |

Field Remarks: Pit #1

#### RESULTS

| PARAMETER      | RESULT | UNITS | QUALIFIERS |   |      |       |
|----------------|--------|-------|------------|---|------|-------|
|                |        |       | DF         | Q | M(g) | V(ml) |
| BENZENE        | <0.5   | MG/KG |            |   |      |       |
| TOLUENE        | <0.5   | MG/KG |            |   |      |       |
| ETHYL BENZENE  | <0.5   | MG/KG |            |   |      |       |
| TOTAL XYLENES  | <1.5   | MG/KG |            |   |      |       |
| TOTAL BTEX     | <3     | MG/KG |            |   |      |       |
| TPH (418.1)    | 66.0   | MG/KG |            |   | 2.02 | 28    |
| HEADSPACE PID  | 76     | PPM   |            |   |      |       |
| PERCENT SOLIDS | 90.3   | %     |            |   |      |       |

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

The Surrogate Recovery was at 94 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By: John Larkin

Date: 7/18/96



## CHAIN OF CUSTODY RECORD

Phase III Excavation

## CHAIN OF CUSTODY RECORD

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



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**PHASE IV EXCAVATION  
PIT 1**

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# RECORD OF SUBSURFACE EXPLORATION

Borehole # BH-1  
Well # \_\_\_\_\_  
Page 1 of 1

IP ENVIRONMENTAL

Monroe Road

Farmington, New Mexico 87401

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

Project Name EPNG Pits  
Project Number 14509 Phase 6000.77  
Project Location OHIO "C" Government #3 72890

Elevation \_\_\_\_\_  
Borehole Location T 28, R 11, S 26, P  
GWL Depth \_\_\_\_\_  
Logged By Jeff W. Kindley  
Drilled By M. Donahue  
Date/Time Started 09/13/95 1520  
Date/Time Completed 09/13/95 1605

Well Logged By Jeff W. Kindley  
Personnel On-Site M. Donahue, J. Johnson, J. O'Keefe  
Contractors On-Site \_\_\_\_\_  
Client Personnel On-Site \_\_\_\_\_

Drilling Method 4 1/4 ID HSA  
Air Monitoring Method PID, CGI

| Depth<br>(Feet) | Sample<br>Number | Sample<br>Interval | Sample<br>Type &<br>Recovery<br>(inches) | Sample Description<br>Classification System: USCS                                                    | USCS<br>Symbol | Depth<br>Lithology<br>Change<br>(feet) | Air Monitoring<br>Units: PPM |    |   | Drilling Conditions<br>& Blow Counts |
|-----------------|------------------|--------------------|------------------------------------------|------------------------------------------------------------------------------------------------------|----------------|----------------------------------------|------------------------------|----|---|--------------------------------------|
|                 |                  |                    |                                          |                                                                                                      |                |                                        | BZ                           | BH | S |                                      |
| 0               |                  |                    |                                          | Backfill material to 12'                                                                             |                |                                        |                              |    |   |                                      |
| 5               |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |
| 10              |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |
| 15              | 1                | 13-15              | 0.8<br>2.0                               | SP, brown/red silty sand with gravel, poorly graded, moist, dense, no odor. Boring terminated at 15' |                |                                        |                              | 0% |   | 1544<br>37 blows per foot            |
| 20              |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |
| 25              |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |
| 30              |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |
| 35              |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |
| 40              |                  |                    |                                          |                                                                                                      |                |                                        |                              |    |   |                                      |

Comments:

Sample collected at 13 to 15 feet (ZWK 69). Sample submitted for analysis of BTEX and TPH. BH grouted to the surface.

Geologist Signature

*[Signature]*

[illegible]



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

|                            | Field ID           | Lab ID                       |
|----------------------------|--------------------|------------------------------|
| SAMPLE NUMBER:             | JWK69              | 947458                       |
| MTR CODE   SITE NAME:      | 72890              | Ohio "C" Government #3       |
| SAMPLE DATE   TIME (Hrs):  | 09/13/95           | 1544                         |
| PROJECT:                   | Phase III Drilling |                              |
| DATE OF TPH EXT.   ANAL.:  | 09/14/95           | 09/20/95                     |
| DATE OF BTEX EXT.   ANAL.: | 09/14/95           | 09/20/95                     |
| TYPE   DESCRIPTION:        | VG                 | Light brown sand & sandstone |

Field Remarks: Pit #1

RESULTS

| PARAMETER      | RESULT | UNITS | QUALIFIERS |   |      |       |
|----------------|--------|-------|------------|---|------|-------|
|                |        |       | DF         | Q | M(g) | V(ml) |
| BENZENE        | <0.5   | MG/KG |            |   |      |       |
| TOLUENE        | <0.5   | MG/KG |            |   |      |       |
| ETHYL BENZENE  | <0.5   | MG/KG |            |   |      |       |
| TOTAL XYLENES  | <1.5   | MG/KG |            |   |      |       |
| TOTAL BTEX     | <3     | MG/KG |            |   |      |       |
| TPH (418.1)    | 54.8   | MG/KG |            |   | 2.04 | 28    |
| HEADSPACE PID  | 0      | PPM   |            |   |      |       |
| PERCENT SOLIDS | 91.9   | %     |            |   |      |       |

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

The Surrogate Recovery was at 91 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By:

*John L. Linder*

Date:

7/18/96

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# **PHASE V MONITOR WELL**

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# RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH-1

Well # MW-1

Page 1 of 1

Project Name EPFS GW PITS

Project Number 17520 Phase 6001

Project Location Ohio C Gort 3 72896

Elevation

Borehole Location T28-R 11-S 26-Ltr P

GWL Depth 12.3' BGS

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 5/21/97 - 0845

Date/Time Completed 5/21/97 - 0945

Well Logged By CM CHANCE

Personnel On-Site D CHARLEY, J Perrod

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID

| Depth<br>(Feet) | Sample<br>Number | Sample<br>Interval | Sample<br>Type &<br>Recovery<br>(inches) | Sample Description<br>Classification System: USCS | USCS<br>Symbol | Depth<br>Lithology<br>Change<br>(feet) | Air Monitoring<br>Units: PPM |    |   | Drilling Conditions<br>& Blow Counts |
|-----------------|------------------|--------------------|------------------------------------------|---------------------------------------------------|----------------|----------------------------------------|------------------------------|----|---|--------------------------------------|
|                 |                  |                    |                                          |                                                   |                |                                        | BZ                           | BH | S |                                      |
| 0               |                  |                    |                                          |                                                   |                |                                        |                              |    |   |                                      |
| 5               |                  |                    |                                          |                                                   |                |                                        |                              |    |   |                                      |
| 10              |                  |                    |                                          | Backfill to 17'                                   |                |                                        |                              |    |   |                                      |
| 15              |                  |                    |                                          |                                                   |                |                                        |                              |    |   |                                      |
| 20              |                  |                    |                                          | Br silty SAND, VF-F sand, +<br>med, Saturated     |                |                                        |                              |    |   | Cuttings                             |
| 25              |                  |                    |                                          | TOB 20'                                           |                |                                        |                              |    |   | gravel                               |
| 30              |                  |                    |                                          | <del>TOB 20' cnc</del>                            |                |                                        |                              |    |   |                                      |
| 35              |                  |                    |                                          |                                                   |                |                                        |                              |    |   |                                      |
| 40              |                  |                    |                                          |                                                   |                |                                        |                              |    |   |                                      |

Comments:

No samples collected. Backfill to GW. Will set well @ 20'. Overkill  
to 25' to compensate for Flowin. Hard layer @ ~20'.

Geologist Signature

Cory Chaves

# MONITORING WELL INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

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

Borehole # BH-1

Well # MW-1

Page 1 of 1

Project Name EPFS GW

Project Number 17520

Phase 6002

Site Location Ohio C Govt 72890

On-Site Geologist

CM CHANCE

Personnel On-Site

D CHARLEY, J. Pennod

Contractors On-Site

Client Personnel On-Site

Elevation

Well Location T28 R11 S26 LTRP

GWL Depth 12.3' BGS

Installed By K Padilla

Date/Time Started 5/21/97 - 0945

Date/Time Completed 5/21/97 - 1100

| Depths in Reference to Ground Surface |                           |              |                                |  |
|---------------------------------------|---------------------------|--------------|--------------------------------|--|
| Item                                  | Material                  | Depth (feet) |                                |  |
| Top of Protective Casing              | 8" steel well vault       | +3.1         | Top of Protective Casing +3.1' |  |
| Bottom of Protective Casing           |                           | 1.9          | Top of Riser +3'               |  |
| Top of Permanent Borehole Casing      |                           | N/A          | Ground Surface 0               |  |
| Bottom of Permanent Borehole Casing   |                           | N/A          |                                |  |
| Top of Concrete                       |                           | NA           |                                |  |
| Bottom of Concrete                    |                           | N/A          |                                |  |
| Top of Grout                          | Type I/II Portland cement | NA           |                                |  |
| Bottom of Grout                       | Powder Bentonite          | NA           |                                |  |
| Top of Well Riser                     | 4" SCH 40 PVC             | +3.0         |                                |  |
| Bottom of Well Riser                  | FLUSH THREAD              | 3.5          |                                |  |
| Top of Well Screen                    | 4" SCH 40 PVC             | 3.5          |                                |  |
| Bottom of Well Screen                 | 0.01 SLOT FLUSH THREAD    | 18.5         |                                |  |
| Top of Peltonite Seal                 | ENVIROPLUG                | 0            |                                |  |
| Bottom of Peltonite Seal              |                           | 2.0          |                                |  |
| Top of Gravel Pack                    | 10-20 SILICA SAND         | 2.0          |                                |  |
| Bottom of Gravel Pack                 |                           | 18.5         |                                |  |
| Top of Natural Cave-In                |                           | 18.5         |                                |  |
| Bottom of Natural Cave-In             |                           | 20'          |                                |  |
| Top of Groundwater                    |                           | 12.3         |                                |  |
| Total Depth of Borehole               |                           | 20'          |                                |  |

Comments: Seal hydrated w 10 gal potable water. Locking well cap + padlock placed on well

CM Chance



Well Number MW-1  
Serial No. WDPD-

# WELL DEVELOPMENT AND PURGING DATA

☒ Development  
☐ Purging

Page 1 of 1

Project Name EPES GL PITS

Project Manager Cory Chance

Project No. 17520

Client Company ELPASO Field Services

Phase/Task No. 6003-77

Site Name OHIO C GOVERNMENT #3

Site Address SAN JUAN Co., NM

## Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal  
☐ Stabilization of Indicator Parameters  
☐ Other \_\_\_\_\_

## Water Volume Calculation

Initial Depth of Well (feet) 21.75 ToB  
Initial Depth to Water (feet) 14.89 ToB  
Height of Water Column in Well (feet) 6.86  
Diameter (inches): Well \_\_\_\_\_ Gravel Pack \_\_\_\_\_

## Methods of Development

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

## Instruments

- ☒ pH Meter  
☐ DO Monitor  
☒ Conductivity Meter  
☒ Temperature Meter  
☐ Other DOT

Serial No. (If applicable) \_\_\_\_\_

## Water Disposal

ON Ground on Site

## Water Removal Data

| Date    | Time | Development Method | Removal Rate (gal/min) | Intake Depth (feet) | Ending Water Depth (feet) | Water Volume Removed (gallons) |            | Product Volume Removed (gallons) |            | Temperature (°C) | pH   | Conductivity (mmhos/cm) | Dissolved Oxygen (mg/L) | Comments    |
|---------|------|--------------------|------------------------|---------------------|---------------------------|--------------------------------|------------|----------------------------------|------------|------------------|------|-------------------------|-------------------------|-------------|
|         |      |                    |                        |                     |                           | Incremental                    | Cumulative | Incremental                      | Cumulative |                  |      |                         |                         |             |
| 5-22-97 | 1420 | X                  |                        |                     |                           | 5                              | 5          |                                  |            | 15.8             | 7.67 | 3580                    |                         | Light Brown |
| 5-22-97 | 1430 | X                  |                        |                     |                           | 4                              | 9          |                                  |            | 16.3             | 7.97 | 3490                    |                         | Light Brown |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |
|         |      |                    |                        |                     |                           |                                |            |                                  |            |                  |      |                         |                         |             |

Circle the date and time that the development criteria are met

Comments Well Bailed Dry At 9 Gallons, let Recover 20 min. Bailed less than 1 Gal. before well went dry again. Well has poor recovery. Will let recover and sample.

Developer's Signature(s) Robert Thompson

Date 5-22-97

Reviewer \_\_\_\_\_ Date \_\_\_\_\_

Location No. MW-1

Serial No. WSD-\_\_\_\_\_

## WATER SAMPLING DATA

Group List Number

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other \_\_\_\_\_ Date 5-22-97

Project Name EPFS Gw Pit Project No. 17520

Project Manager Cory Chance Phase.Task No. 6003-77

Site Name Ohio GOVERNMENT #3

## Sampling Specifications

Requested Sampling

Depth Interval (feet) Top 3'

Requested Wait Following

Development/Purging (hours) NONE

### Initial Measurements

Time Elapsed From Final Development/Purging (hours) 45 min

Initial Water Depth (feet) 6.86

Nonaqueous Liquids Present (Describe) None

### Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

[illegible]

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

## Sample Containers

Preservatives: H = HCl; N = HNO<sub>3</sub>; S = H<sub>2</sub>SO<sub>4</sub>; A = NaOH; O = Other (Specify ); .. = None

[illegible]

Filter Type NONE Chain-of-Custody Form Number EPFS

Comments

Signature [Signature] Date 5.22.97 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

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# **PHASE VI GEOPROBE**

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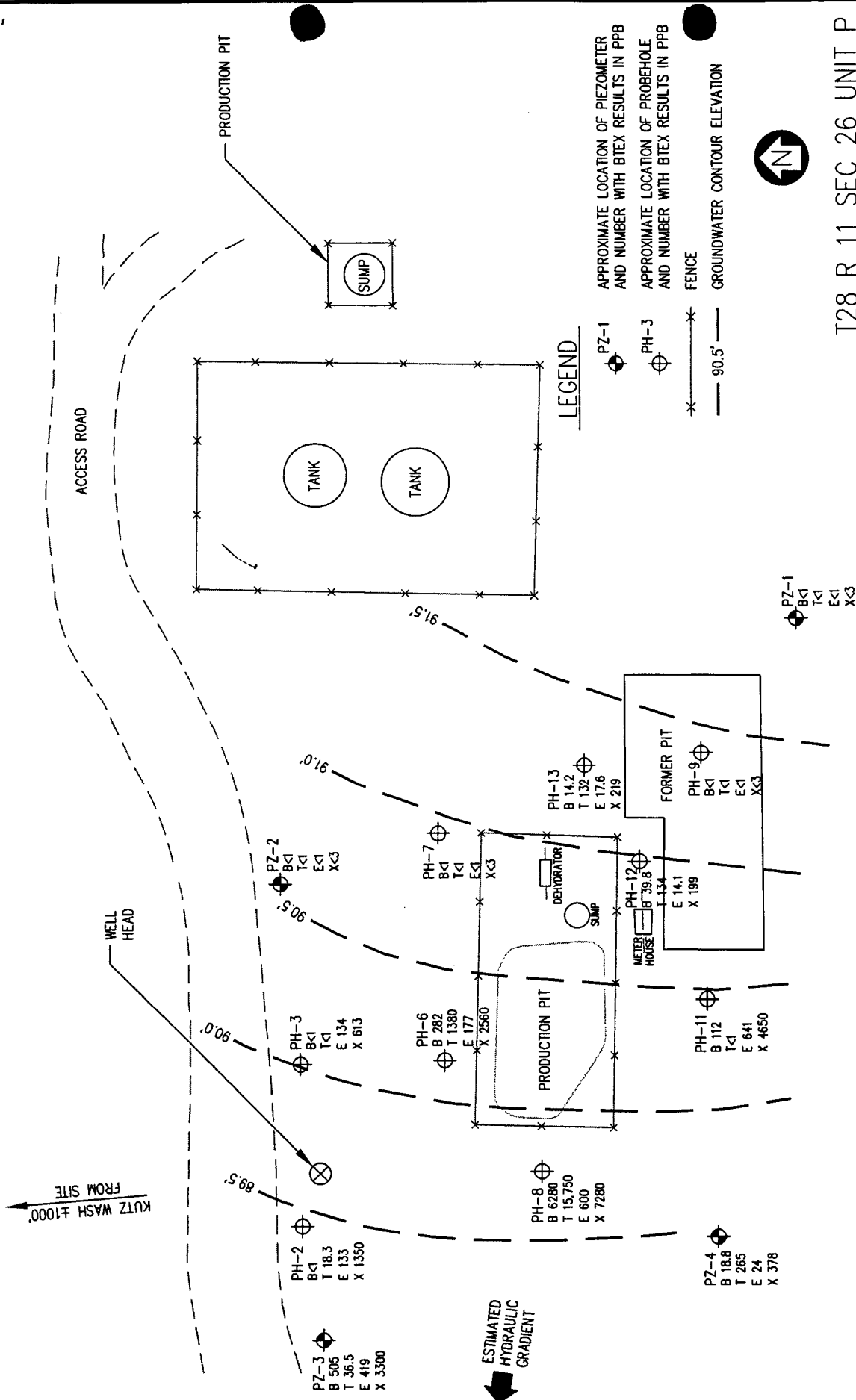
TITLE:  
OHIO C GOVERNMENT #3  
METER 72890

|       |        |         |       |
|-------|--------|---------|-------|
| SCALE | NONE   | DATE    | 17520 |
| DWN:  | M.R.W. | 5/23/97 |       |
| DES:  |        |         |       |
| CHKD: |        |         |       |
| APPD: |        |         |       |

FIGURE 1

REV: 0

T28 R 11 SEC 26 UNIT P



# PIEZOMETER INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

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

Borehole # PZ - 1

Well # \_\_\_\_\_

Page 1 of 1

Project Name EPFS PITS

Project Number 16297 Phase 6004

Site Location Ohio C. Govt J 72890

Elevation \_\_\_\_\_

Well Location SE of Pit

GWL Depth 12.9' TOR

Installed By K PADILLA

On-Site Geologist CM CHANCE

Personnel On-Site D CHARLEY

Contractors On-Site \_\_\_\_\_

Client Personnel On-Site \_\_\_\_\_

Date/Time Started 10/1/96

Date/Time Completed 10/1/96

| Depths in Reference to Ground Surface |          |              |                                    |
|---------------------------------------|----------|--------------|------------------------------------|
| Item                                  | Material | Depth (feet) |                                    |
| Top of Protective Casing              |          |              | Top of Protective Casing <u>NA</u> |
| Bottom of Protective Casing           |          |              | Top of Riser _____                 |
| Top of Permanent Borehole Casing      |          | N/A          | Ground Surface _____               |
| Bottom of Permanent Borehole Casing   |          | N/A          |                                    |
| Top of Concrete                       |          |              |                                    |
| Bottom of Concrete                    |          |              |                                    |
| Top of Grout                          |          |              |                                    |
| Bottom of Grout                       |          |              |                                    |
| Top of Well Riser                     |          |              |                                    |
| Bottom of Well Riser                  |          |              |                                    |
| Top of Well Screen                    |          |              | Top of Seal _____                  |
| Bottom of Well Screen                 |          |              |                                    |
| Top of Peltonite Seal                 |          |              |                                    |
| Bottom of Peltonite Seal              |          |              | Top of Gravel Pack _____           |
| Top of Gravel Pack                    |          |              | Top of Screen <u>8.5'</u>          |
| Bottom of Gravel Pack                 |          |              |                                    |
| Top of Natural Cave-In                |          |              |                                    |
| Bottom of Natural Cave-In             |          |              |                                    |
| Top of Groundwater                    |          |              | Bottom of Screen <u>12.5'</u>      |
| Total Depth of Borehole               |          |              | Bottom of Borehole _____           |

Comments: \_\_\_\_\_

# PIEZOMETER INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

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

Borehole # PZ - 2

Well # \_\_\_\_\_

Page 1 of 1

Project Name EPFS PITS

Project Number 16297 Phase 6004

Site Location Ohio C 62073 72890

Elevation \_\_\_\_\_

Well Location N of PH

GWL Depth 10.98 TDR

Installed By K PADILLA

On-Site Geologist CM CHANCE

Personnel On-Site D CHARLEY

Contractors On-Site \_\_\_\_\_

Client Personnel On-Site \_\_\_\_\_

Date/Time Started 10/1/96

Date/Time Completed 10/1/96

| Depths in Reference to Ground Surface |          |              |                                    |  |
|---------------------------------------|----------|--------------|------------------------------------|--|
| Item                                  | Material | Depth (feet) |                                    |  |
| Top of Protective Casing              |          |              | Top of Protective Casing <u>NA</u> |  |
| Bottom of Protective Casing           |          |              | Top of Riser _____                 |  |
| Top of Permanent Borehole Casing      |          | N/A          | Ground Surface _____               |  |
| Bottom of Permanent Borehole Casing   |          | N/A          |                                    |  |
| Top of Concrete                       |          |              |                                    |  |
| Bottom of Concrete                    |          |              |                                    |  |
| Top of Grout                          |          |              |                                    |  |
| Bottom of Grout                       |          |              |                                    |  |
| Top of Well Riser                     |          |              |                                    |  |
| Bottom of Well Riser                  |          |              |                                    |  |
| Top of Well Screen                    |          |              |                                    |  |
| Bottom of Well Screen                 |          |              |                                    |  |
| Top of Peltonite Seal                 |          |              | Top of Seal _____                  |  |
| Bottom of Peltonite Seal              |          |              |                                    |  |
| Top of Gravel Pack                    |          |              | Top of Gravel Pack _____           |  |
| Bottom of Gravel Pack                 |          |              | Top of Screen <u>10.5</u>          |  |
| Top of Natural Cave-In                |          |              |                                    |  |
| Bottom of Natural Cave-In             |          |              |                                    |  |
| Top of Groundwater                    |          |              |                                    |  |
| Total Depth of Borehole               |          |              | Bottom of Screen <u>13.0'</u>      |  |
|                                       |          |              | Bottom of Borehole _____           |  |

Comments: \_\_\_\_\_

# PIEZOMETER INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

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

Borehole # PZ-3

Well # \_\_\_\_\_

Page 1 of 1

Project Name EPFS PITS

Project Number 16297 Phase 6004

Site Location Ohio C Gev 3 72890

On-Site Geologist CM CHANCE

Personnel On-Site D CHARLEY

Contractors On-Site \_\_\_\_\_

Client Personnel On-Site \_\_\_\_\_

Elevation \_\_\_\_\_

Well Location NW 1/4 P14

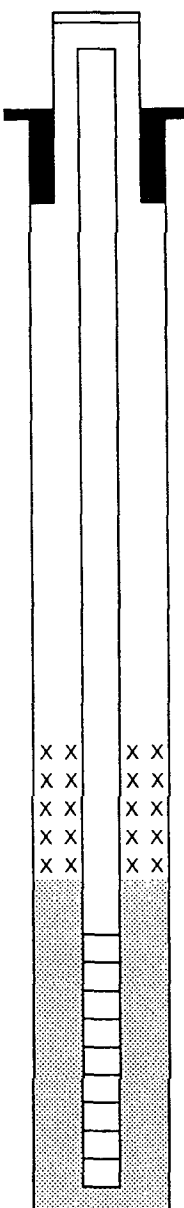
GWL Depth 9.3 863 12.29708

Installed By K PADILLA

Date/Time Started \_\_\_\_\_

Date/Time Completed \_\_\_\_\_

| Depths in Reference to Ground Surface |          |              |
|---------------------------------------|----------|--------------|
| Item                                  | Material | Depth (feet) |
| Top of Protective Casing              |          |              |
| Bottom of Protective Casing           |          |              |
| Top of Permanent Borehole Casing      |          | N/A          |
| Bottom of Permanent Borehole Casing   |          | N/A          |
| Top of Concrete                       |          |              |
| Bottom of Concrete                    |          |              |
| Top of Grout                          |          |              |
| Bottom of Grout                       |          |              |
| Top of Well Riser                     |          |              |
| Bottom of Well Riser                  |          |              |
| Top of Well Screen                    |          |              |
| Bottom of Well Screen                 |          |              |
| Top of Peltonite Seal                 |          |              |
| Bottom of Peltonite Seal              |          |              |
| Top of Gravel Pack                    |          |              |
| Bottom of Gravel Pack                 |          |              |
| Top of Natural Cave-In                |          |              |
| Bottom of Natural Cave-In             |          |              |
| Top of Groundwater                    |          |              |
| Total Depth of Borehole               |          |              |



Top of Protective Casing NA

Top of Riser \_\_\_\_\_

Ground Surface \_\_\_\_\_

Top of Seal \_\_\_\_\_

Top of Gravel Pack \_\_\_\_\_

Top of Screen 7.0

Bottom of Screen 12.0

Bottom of Borehole \_\_\_\_\_

Comments: \_\_\_\_\_



**Eli Lilly**  
Natural Gas Company

# CHAIN OF CUSTODY RECORD

| Project No.                                    | Project Name | Date                   |  | Sample Number                           |  | Type and No. of Sample Containers | Preservation Technique | Requested Analysis                | Remarks      |
|------------------------------------------------|--------------|------------------------|--|-----------------------------------------|--|-----------------------------------|------------------------|-----------------------------------|--------------|
| 16297                                          | EPFS GW PITS | 1/23/97                |  |                                         |  | 2                                 | 4°C / ML X             | P24 Ohio (GWH3 72890)             | ✓ Prod. Odor |
| Samples: (Signature) <i>Cony Chane</i>         |              |                        |  |                                         |  | 1                                 | X                      | TRIP BLANK                        |              |
| Time                                           | Comp         | GRAB                   |  |                                         |  |                                   |                        |                                   |              |
| 10019                                          | ✓            | CMC285                 |  |                                         |  |                                   |                        |                                   |              |
| 10018                                          |              | TRIP BLANK             |  |                                         |  |                                   |                        |                                   |              |
| <i>See 1/23/97</i>                             |              |                        |  |                                         |  |                                   |                        |                                   |              |
| Relinquished by: (Signature) <i>Cony Chane</i> |              | Date/Time 1/23/97/1150 |  | Received by: (Signature)                |  | Relinquished by: (Signature)      |                        | Date/Time                         |              |
| Relinquished by: (Signature)                   |              | Date/Time              |  | Received by: (Signature)                |  | Relinquished by: (Signature)      |                        | Date/Time                         |              |
| Relinquished by: (Signature)                   |              | Date/Time              |  | Received for Laboratory by: (Signature) |  | Date/Time                         |                        | Remarks                           |              |
|                                                |              |                        |  |                                         |  |                                   |                        | 1-23-97 1147 <i>Maria Perente</i> |              |
| Carrier Co.                                    |              | Carrier Phone No.      |  | Date Results Reported / by: (Signature) |  |                                   |                        |                                   |              |

# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY

### ANALYTICAL REPORT

### PIT CLOSURE PROJECT

#### SAMPLE IDENTIFICATION

|                            |                           |                         |
|----------------------------|---------------------------|-------------------------|
| SAMPLE NUMBER:             | Field ID<br><b>CMC285</b> | Lab ID<br><b>970019</b> |
| MTR CODE   SITE NAME:      | <b>72890</b>              | <b>Ohio C Govt #3</b>   |
| SAMPLE DATE   TIME (Hrs):  | <b>01/23/97</b>           | <b>1000</b>             |
| PROJECT:                   | <b>Geoprobe</b>           |                         |
| DATE OF BTEX EXT.   ANAL.: | <b>1/24/97</b>            | <b>1/24/97</b>          |
| TYPE   DESCRIPTION:        | <b>PZ4</b>                | <b>Water</b>            |

Field Remarks: \_\_\_\_\_

#### RESULTS

| PARAMETER            | RESULT | UNITS | QUALIFIERS |    |  |  |
|----------------------|--------|-------|------------|----|--|--|
|                      |        |       | DF         | Q  |  |  |
| <b>BENZENE</b>       | 18.8   | PPB   |            |    |  |  |
| <b>TOLUENE</b>       | 265    | PPB   |            | D1 |  |  |
| <b>ETHYL BENZENE</b> | 24.0   | PPB   |            |    |  |  |
| <b>TOTAL XYLENES</b> | 378    | PPB   |            |    |  |  |
| <b>TOTAL BTEX</b>    | 686    | PPB   |            |    |  |  |

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 83.2 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D1" qualifier indicates that the analyte concentration exceeded the calibration curve limit.

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: 1-29-97



## CHAIN OF CUSTODY RECORD

2339

## CHAIN OF CUSTODY RECORD

**Air Bill No.:**



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC200   | 947910         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/1/96  | 1315           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96  | 10/7/96        |
| TYPE   DESCRIPTION:        | WG       | PZ3            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |      |  |  |
|---------------|--------|-------|------------|------|--|--|
|               |        |       | DF         | Q    |  |  |
| BENZENE       | 505    | PPB   | 5          | D    |  |  |
| TOLUENE       | 36.5   | PPB   | 5          | D    |  |  |
| ETHYL BENZENE | 419    | PPB   | 5          | D    |  |  |
| TOTAL XYLENES | 3300   | PPB   | 5          | D,D1 |  |  |
| TOTAL BTEX    | 4260   | PPB   |            |      |  |  |

—BTEX is by EPA Method 8020 —

The "D" qualifier indicates that the analyte is calculated based on a secondary dilution factor.  
The "D1" qualifier indicates that the analyte concentration exceeded the calibration curve limit.

The Surrogate Recovery was at 95.6 % for this sample All QA/QC was acceptable.

Narrative: \_\_\_\_\_

Dilution Factor Used \_\_\_\_\_

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            | Field ID | Lab ID         |
|----------------------------|----------|----------------|
| SAMPLE NUMBER:             | CMC201   | 947911         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/1/96  | 1500           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96  | 10/7/96        |
| TYPE   DESCRIPTION:        | WG       | PH3            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |        |  |  |
|---------------|--------|-------|------------|--------|--|--|
|               |        |       | DF         | Q      |  |  |
| BENZENE       | <1     | PPB   | 1          |        |  |  |
| TOLUENE       | <1     | PPB   | 1          |        |  |  |
| ETHYL BENZENE | 134    | PPB   | 5          | D      |  |  |
| TOTAL XYLENES | 613    | PPB   | 5          | D,J,X3 |  |  |
| TOTAL BTEX    | 747    | PPB   |            |        |  |  |

--BTEX is by EPA Method 8020 --

The "D" qualifier indicates that the analyte is calculated based on a secondary dilution factor.

The "J" qualifier indicates that the analyte was analyzed for and positively identified, but the associated numerical value is an estimated quantity.

The "X3" qualifier indicates that the analyte identification and quantification of peaks was complicated by matrix interference: GC/MS confirmation is recommended.

The Surrogate Recovery was at 95.6 % for this sample All QA/QC was acceptable.

Narrative:

Dilution Factor Used

Approved By: John Lawler

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            | Field ID   | Lab ID               |
|----------------------------|------------|----------------------|
| SAMPLE NUMBER:             | N/A        | 10/1/1996 TRIP BLANK |
| MTR CODE   SITE NAME:      | 72890      | Ohio C Govt #3       |
| SAMPLE DATE   TIME (Hrs):  | 10/1/96    | 945                  |
| PROJECT:                   | GEOPROBE   |                      |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96    | 10/4/96              |
| TYPE   DESCRIPTION:        | Trip Blank | N/A                  |

Field Remarks: TRIP BLANK

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 105 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Reviewed By: John Fublin

Date: 10-8-96

## CHAIN OF CUSTODY RECORD

San Juan repro Form 71-55 A



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC202   | 947913         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96  | 750            |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96  | 10/4/96        |
| TYPE   DESCRIPTION:        | VG       | PZ2            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | <1     | PPB   |            |   |  |  |
| TOLUENE       | <1     | PPB   |            |   |  |  |
| ETHYL BENZENE | <1     | PPB   |            |   |  |  |
| TOTAL XYLENES | <3     | PPB   |            |   |  |  |
| TOTAL BTEX    | <6     | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 96.8 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By: John L. Linder

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC203   | 947914         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96  | 900            |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96  | 10/4/96        |
| TYPE   DESCRIPTION:        | VG       | PZ1            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 94.9 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By: John Zander

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC204   | 947915         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96  | 1020           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96  | 10/5/96        |
| TYPE   DESCRIPTION:        | VG       | PH7            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 95.1 % for this sample All QA/QC was acceptable.

Narrative: \_\_\_\_\_

DF = Dilution Factor Used

Approved By: \_\_\_\_\_

*John Tautsch*

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC205   | 947916         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96  | 1240           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/7/96  | 10/7/96        |
| TYPE   DESCRIPTION:        | VG       | PH9            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 86.8 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: John F. L. [Signature]

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC206   | 947917         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96  | 1330           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/7/96  | 10/7/96        |
| TYPE   DESCRIPTION:        | VG       | PH11           |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | 112    | PPB   | 10         | D |  |  |
| TOLUENE       | <1     | PPB   | 10         | D |  |  |
| ETHYL BENZENE | 641    | PPB   | 10         | D |  |  |
| TOTAL XYLENES | 4650   | PPB   | 10         | D |  |  |
| TOTAL BTEX    | 5403   | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The "D" qualifier indicates that the analyte is calculated based on a secondary dilution factor.

The Surrogate Recovery was at 82.6 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: \_\_\_\_\_

*John Faich*

Date: \_\_\_\_\_

10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC207   | 947918         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96  | 1450           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/5/96  | 10/5/96        |
| TYPE   DESCRIPTION:        | VG       | PH8            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | 6280   | PPB   | 100        | D |  |  |
| TOLUENE       | 15750  | PPB   | 100        | D |  |  |
| ETHYL BENZENE | 600    | PPB   | 100        | D |  |  |
| TOTAL XYLENES | 7280   | PPB   | 100        | D |  |  |
| TOTAL BTEX    | 29910  | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The "D" qualifier indicates that the analyte is calculated based on a secondary dilution factor.

The Surrogate Recovery was at 90.9 % for this sample All QA/QC was acceptable.

**Narrative:**

DF = Dilution Factor Used

Approved By: John L. Lardner

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            | Field ID   | Lab ID         |
|----------------------------|------------|----------------|
| SAMPLE NUMBER:             | N/A        | 947919         |
| MTR CODE   SITE NAME:      | 72890      | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/2/96    | 957            |
| PROJECT:                   | GEOPROBE   |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96    | 10/4/96        |
| TYPE   DESCRIPTION:        | Trip Blank | N/A            |

Field Remarks: TRIP BLANK

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 103 % for this sample All QA/QC was acceptable.

**Narrative:**

DF = Dilution Factor Used

Approved By: John Lander

Date: 10-8-96



234

## CHAIN OF CUSTODY RECORD

[illegible]



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC208   | 947920         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/3/96  | 910            |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/5/96  | 10/5/96        |
| TYPE   DESCRIPTION:        | VG       | PH6            |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | 282    | PPB   | 50         | D |  |  |
| TOLUENE       | 1380   | PPB   | 50         | D |  |  |
| ETHYL BENZENE | 177    | PPB   | 50         | D |  |  |
| TOTAL XYLENES | 2560   | PPB   | 50         | D |  |  |
| TOTAL BTEX    | 4400   | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The "D" qualifier indicates that the analyte is calculated based on a secondary dilution factor.

The Surrogate Recovery was at 91.2 % for this sample All QA/QC was acceptable.

**Narrative:**

DF = Dilution Factor Used

Approved By: John L. Linder

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | N/A      | 947921         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/3/96  | 930            |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/4/96  | 10/4/96        |
| TYPE   DESCRIPTION:        | Blank    | N/A            |

Field Remarks: TRIP Blank

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 104 % for this sample All QA/QC was acceptable.

**Narrative:**

DF = Dilution Factor Used

Approved By: John Smith

Date: 10-8-96



Natural Resources Company

A 2342

CHAIN OF CUSTODY RECORD

| Project No.                  |      | Project Name                            |      | Requested Analysis                      |             | Remarks                  |  |
|------------------------------|------|-----------------------------------------|------|-----------------------------------------|-------------|--------------------------|--|
| 16297                        |      | EPSPITS                                 |      | PHS PH13 PH12 TRIP BLANK                |             |                          |  |
| Samplers: (Signature)        |      | Date:                                   |      | Type and No. of Sample Containers       |             | Preservation Technique   |  |
| C. Chan                      |      | 10/4/96                                 |      | 2 2 1                                   |             | X 2/3                    |  |
| Date                         | Time | Comp.                                   | GRAB | Sample Number                           |             |                          |  |
| 10/4/96                      |      |                                         |      | 209                                     | SMC 10/4/96 |                          |  |
| 1040                         |      |                                         | ✓    | 210                                     |             |                          |  |
| 1150                         |      |                                         | ✓    | 211                                     |             |                          |  |
| TRIP BLANK                   |      |                                         |      |                                         |             |                          |  |
| <hr/>                        |      |                                         |      |                                         |             |                          |  |
| Relinquished by: (Signature) |      | Received by: (Signature)                |      | Relinquished by: (Signature)            |             | Received by: (Signature) |  |
| C. Chan                      |      | 10/4/96 1300                            |      | Kelly Stowell                           |             | 10-7-96 955a             |  |
| Relinquished by: (Signature) |      | Received by: (Signature)                |      | Relinquished by: (Signature)            |             | Received by: (Signature) |  |
|                              |      |                                         |      |                                         |             |                          |  |
| Relinquished by: (Signature) |      | Received for Laboratory by: (Signature) |      | Date/Time                               |             | Remarks:                 |  |
|                              |      | 10/7/96 0955                            |      | Marko Armenta                           |             |                          |  |
| Carrier Co:                  |      | Carrier Phone No.                       |      | Date Results Reported / by: (Signature) |             |                          |  |
|                              |      |                                         |      |                                         |             |                          |  |
| Air Bill No.:                |      |                                         |      |                                         |             |                          |  |



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC210   | 947922         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/4/96  | 1040           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/7/96  | 10/7/96        |
| TYPE   DESCRIPTION:        | VG       | PH13           |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | 14.2   | PPB   |            |   |  |  |
| TOLUENE       | 132    | PPB   |            |   |  |  |
| ETHYL BENZENE | 17.6   | PPB   |            |   |  |  |
| TOTAL XYLENES | 219    | PPB   |            |   |  |  |
| TOTAL BTEX    | 383    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 87.6 % for this sample All QA/QC was acceptable.

Narrative: \_\_\_\_\_

DF = Dilution Factor Used

Approved By: John Felt

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            |          |                |
|----------------------------|----------|----------------|
|                            | Field ID | Lab ID         |
| SAMPLE NUMBER:             | CMC211   | 947923         |
| MTR CODE   SITE NAME:      | 72890    | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/4/96  | 1150           |
| PROJECT:                   | GEOPROBE |                |
| DATE OF BTEX EXT.   ANAL.: | 10/7/96  | 10/8/96        |
| TYPE   DESCRIPTION:        | VG       | PH12           |

Field Remarks: \_\_\_\_\_

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | 39.8   | PPB   |            |   |  |  |
| TOLUENE       | 134    | PPB   |            |   |  |  |
| ETHYL BENZENE | 14.1   | PPB   |            |   |  |  |
| TOTAL XYLENES | 199    | PPB   |            |   |  |  |
| TOTAL BTEX    | 387    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 84.4 % for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used

Approved By: \_\_\_\_\_

*John Lark*

Date: 10-8-96



**EL PASO FIELD SERVICES**  
**FIELD SERVICES LABORATORY**

**ANALYTICAL REPORT**  
**PIT CLOSURE PROJECT**

**SAMPLE IDENTIFICATION**

|                            | Field ID      | Lab ID         |
|----------------------------|---------------|----------------|
| SAMPLE NUMBER:             | N/A           | 947924         |
| MTR CODE   SITE NAME:      | 72890         | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 10/4/96       | 955            |
| PROJECT:                   | GEOPROBE      |                |
| DATE OF BTEX EXT.   ANAL.: | 10/7/96       | 10/7/96        |
| TYPE   DESCRIPTION:        | TRIP Blank VG | N/A            |

Field Remarks: TRIP BLANK

**RESULTS**

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 98.1 % for this sample All QA/QC was acceptable.  
Narrative:

DF = Dilution Factor Used

Approved By: John L. Lacher

Date: 10-8-96



Natural Gas Company

A 2344

## CHAIN OF CUSTODY RECORD

| Project No.                  |      | Project Name                            |      | Requested Analysis                      |   | Remarks                  |            |
|------------------------------|------|-----------------------------------------|------|-----------------------------------------|---|--------------------------|------------|
| 16297                        |      | EPFS PITS                               |      | Preservation Technique                  |   |                          |            |
| Sample: (Signature)          |      | Date                                    |      | Type and No. of Sample Containers       |   |                          |            |
| Cory Chavez                  |      | 10/22/96                                |      |                                         |   |                          |            |
| Date                         | Time | Comp.                                   | GRAB | Sample Number                           |   |                          |            |
| 10/22/96                     | 0915 |                                         | ✓    | CMC 220                                 | ✓ | PH2                      | PH2        |
| 10/22/96                     | 1450 |                                         | ✓    | CMC 221                                 | ✓ | PH3                      | PH3        |
| 10/22/96                     | 1505 |                                         | ✓    | CMC 222                                 | ✓ | PH4                      | PH4        |
| 10/22/96                     | 1600 |                                         | ✓    | CMC 223                                 | ✓ | PH5                      | PH5        |
| 10/22/96                     | 1615 |                                         | ✓    | CMC 224                                 | ✓ | TRIP Blank               | TRIP Blank |
| 10/22/96                     | 1655 |                                         | ✓    | CMC 225                                 | ✓ |                          |            |
| 10/22/96                     | ---  |                                         | ✓    | TRIP Blank                              | ✓ |                          |            |
| 10/22/96                     |      |                                         |      |                                         |   |                          |            |
| Relinquished by: (Signature) |      | Received by: (Signature)                |      | Relinquished by: (Signature)            |   | Received by: (Signature) |            |
| Cory Chavez                  |      | Kelly Spavall                           |      | Kelly Spavall                           |   | Kelly Spavall            |            |
| Relinquished by: (Signature) |      | Received by: (Signature)                |      | Relinquished by: (Signature)            |   | Received by: (Signature) |            |
|                              |      |                                         |      |                                         |   |                          |            |
| Relinquished by: (Signature) |      | Received for Laboratory by: (Signature) |      | Date/Time                               |   | Remarks                  |            |
|                              |      |                                         |      |                                         |   |                          |            |
| Carrier Co:                  |      | Carrier Phone No.                       |      | Date Results Reported / by: (Signature) |   |                          |            |
| Air Bill No.:                |      |                                         |      |                                         |   |                          |            |



## FIELD SERVICES LABORATORY

## ANALYTICAL REPORT

## PIT CLOSURE PROJECT

## SAMPLE IDENTIFICATION

|                            |                     |                      |
|----------------------------|---------------------|----------------------|
|                            | Field ID            | Lab ID               |
| SAMPLE NUMBER:             | CMC220              | 947943               |
| MTR CODE   SITE NAME:      | 72890               | Ohio C Govt #3       |
| SAMPLE DATE   TIME (Hrs):  | 10/22/96            | 915                  |
| PROJECT:                   | Geoprobe            |                      |
| DATE OF BTEX EXT.   ANAL.: | 10/23/96            | 10/23/96             |
| TYPE   DESCRIPTION:        | PH2 <del>Grab</del> | <del>PH2</del> Water |

Field Remarks: \_\_\_\_\_

## RESULTS

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | <1     | PPB   |            |   |  |  |
| TOLUENE       | 18.3   | PPB   |            |   |  |  |
| ETHYL BENZENE | 133    | PPB   |            |   |  |  |
| TOTAL XYLENES | 1350   | PPB   |            | F |  |  |
| TOTAL BTEX    | 1501   | PPB   |            |   |  |  |

-BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 110 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "F" qualifier indicates the analyte is taken from the FID.

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

A handwritten signature in cursive script, appearing to read 'John Latch', written over a horizontal line.

Date: \_\_\_\_\_

10/29/96

# EPFS

## EL PASO FIELD SERVICES

### QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 947943 - 947948 and 960880 & 960881

QA/QC for 10/23/96 Sample Set

#### LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

| SAMPLE<br>NUMBER       | TYPE     | EXPECTED<br>RESULT<br>PPB | ANALYTICAL<br>RESULT<br>PPB | %R  | ACCEPTABLE |    |
|------------------------|----------|---------------------------|-----------------------------|-----|------------|----|
| ICV LA-52589<br>50 PPB |          |                           |                             |     | YES        | NO |
| RANGE                  |          |                           |                             |     |            |    |
| Benzene                | Standard | 50.0                      | 55.9                        | 112 | 75 - 125 % | X  |
| Toluene                | Standard | 50.0                      | 55.3                        | 111 | 75 - 125 % | X  |
| Ethylbenzene           | Standard | 50.0                      | 55.0                        | 110 | 75 - 125 % | X  |
| m & p - Xylene         | Standard | 100                       | 109                         | 109 | 75 - 125 % | X  |
| o - Xylene             | Standard | 50.0                      | 54.2                        | 108 | 75 - 125 % | X  |
| SAMPLE<br>NUMBER       | TYPE     | EXPECTED<br>RESULT<br>PPB | ANALYTICAL<br>RESULT<br>PPB | %R  | ACCEPTABLE |    |
| LCS LA-45476<br>25 PPB |          |                           |                             |     | YES        | NO |
| RANGE                  |          |                           |                             |     |            |    |
| Benzene                | Standard | 25.0                      | 26.7                        | 107 | 39 - 150   | X  |
| Toluene                | Standard | 25.0                      | 26.8                        | 107 | 46 - 148   | X  |
| Ethylbenzene           | Standard | 25.0                      | 27.2                        | 109 | 32 - 160   | X  |
| m & p - Xylene         | Standard | 50.0                      | 54.6                        | 109 | Not Given  | X  |
| o - Xylene             | Standard | 25.0                      | 27.2                        | 109 | Not Given  | X  |
| SAMPLE<br>NUMBER       | TYPE     | EXPECTED<br>RESULT<br>PPB | ANALYTICAL<br>RESULT<br>PPB | %R  | ACCEPTABLE |    |
| CCV LA-52589<br>50 PPB |          |                           |                             |     | YES        | NO |
| RANGE                  |          |                           |                             |     |            |    |
| Benzene                | Standard | 50.0                      | 52.7                        | 105 | 75 - 125 % | X  |
| Toluene                | Standard | 50.0                      | 52.2                        | 104 | 75 - 125 % | X  |
| Ethylbenzene           | Standard | 50.0                      | 52.1                        | 104 | 75 - 125 % | X  |
| m & p - Xylene         | Standard | 100                       | 104                         | 104 | 75 - 125 % | X  |
| o - Xylene             | Standard | 50.0                      | 52.0                        | 104 | 75 - 125 % | X  |
| SAMPLE<br>NUMBER       | TYPE     | EXPECTED<br>RESULT<br>PPB | ANALYTICAL<br>RESULT<br>PPB | %R  | ACCEPTABLE |    |
| CCV LA-52589<br>50 PPB |          |                           |                             |     | YES        | NO |
| RANGE                  |          |                           |                             |     |            |    |
| Benzene                | Standard | 50.0                      | 52.0                        | 104 | 75 - 125 % | X  |
| Toluene                | Standard | 50.0                      | 51.2                        | 102 | 75 - 125 % | X  |
| Ethylbenzene           | Standard | 50.0                      | 50.9                        | 102 | 75 - 125 % | X  |
| m & p - Xylene         | Standard | 100                       | 101                         | 101 | 75 - 125 % | X  |
| o - Xylene             | Standard | 50.0                      | 50.6                        | 101 | 75 - 125 % | X  |

Narrative: Acceptable.

## EL PASO FIELD SERVICES LAB

## QUALITY CONTROL REPORT

## EPA METHOD 8020 - BTEX

Samples: 947943 - 947948 and 960880 &amp; 960881

## LABORATORY DUPLICATES:

| SAMPLE ID      | TYPE             | SAMPLE RESULT PPB | DUPLICATE RESULT PPB | RPD  | ACCEPTABLE |        |
|----------------|------------------|-------------------|----------------------|------|------------|--------|
|                |                  |                   |                      |      | RANGE      | YES NO |
| 947935         |                  |                   |                      |      |            |        |
| Benzene        | Matrix Duplicate | 4.07              | 3.99                 | 1.99 | +/- 20 %   | X      |
| Toluene        | Matrix Duplicate | <1                | <1                   | 0.00 | +/- 20 %   | X      |
| Ethylbenzene   | Matrix Duplicate | 7.81              | 7.63                 | 2.33 | +/- 20 %   | X      |
| m & p - Xylene | Matrix Duplicate | 12.7              | 11.3                 | 11.7 | +/- 20 %   | X      |
| o - Xylene     | Matrix Duplicate | <1                | <1                   | 0.00 | +/- 20 %   | X      |

Narrative: Acceptable.

## LABORATORY SPIKES:

| SAMPLE ID              | SPIKE ADDED PPB | SAMPLE RESULT PPB | SPIKE SAMPLE RESULT PPB | %R  | ACCEPTABLE |        |
|------------------------|-----------------|-------------------|-------------------------|-----|------------|--------|
|                        |                 |                   |                         |     | RANGE      | YES NO |
| 2nd Analysis<br>947935 |                 |                   |                         |     |            |        |
| Benzene                | 50              | 4.07              | 57.2                    | 106 | 75 - 125 % | X      |
| Toluene                | 50              | <1                | 53.6                    | 107 | 75 - 125 % | X      |
| Ethylbenzene           | 50              | 7.81              | 60.7                    | 106 | 75 - 125 % | X      |
| m & p - Xylene         | 100             | 12.7              | 118                     | 105 | 75 - 125 % | X      |
| o - Xylene             | 50              | <1                | 53.1                    | 106 | 75 - 125 % | X      |

Narrative: Acceptable

## ADDITIONAL ANALYTICAL BLANKS:

| AUTO BLANK    | SOURCE       | PPB  | 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<br>Lot MB1461 | PPB<br>(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.

| CONTAMINATION<br>CARRYOVER CHECK | SOURCE              | PPB<br>(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: mdsApproved By: John T. L. L.Date: 10/29/96

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# **GROUNDWATER ANALYTICAL**

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EPFS Groundwater Pits  
1998 Annual Groundwater Report

TABLE 1

| Sample # | Meter/Line # | Site Name                 | Sample Date | MV # | Project                | Benzene<br>(PPB) | Toluene<br>(PPB) | Ethyl Benzene<br>(PPB) | Total Xylenes<br>(PPB) | Total BTEX |
|----------|--------------|---------------------------|-------------|------|------------------------|------------------|------------------|------------------------|------------------------|------------|
| 970487   | 72890        | Ohio C Govt #3 (MARATHON) | 05/22/97    | 1    | Phase II Drilling      | < 1              | < 1              | < 1                    | < 3                    | < 6        |
| 970606   | 72890        | Ohio C Govt #3 (MARATHON) | 06/26/97    | 1    | Sample 4 - 1st Quarter | < 1              | < 1              | < 1                    | < 3                    | < 6        |
| 970979   | 72890        | Ohio C Govt #3 (MARATHON) | 09/12/97    | 1    | Sample 4 - 2nd Quarter | < 1              | < 1              | < 1                    | < 3                    | < 6        |
| 971272   | 72890        | Ohio C Govt #3 (MARATHON) | 12/05/97    | 1    | Sample 4 - 3rd Quarter | < 1              | < 1              | < 1                    | < 3                    | < 6        |
| 980262   | 72890        | Ohio C Govt #3 (MARATHON) | 03/27/98    | 1    | Sample 4 - 4th Quarter | < 1              | < 1              | < 1                    | < 3                    | < 6        |



# CHAIN-OF-CUSTODY RECORD

Page

10.

# CHAIN-OF-CUSTODY RECORD

[illegible]

White - Testing Laboratory      Canani - EPNG Lab      Poly - Field Samples



# EL PASO FIELD SERVICES



6-11-97

## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### SAMPLE IDENTIFICATION

|                            |                             |                |
|----------------------------|-----------------------------|----------------|
|                            | Field ID                    | Lab ID         |
| SAMPLE NUMBER:             | RT6                         | 970487         |
| MTR CODE   SITE NAME:      | 72890                       | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 5/22/97                     | 1515           |
| PROJECT:                   | Phase II Drilling - Initial |                |
| DATE OF BTEX EXT.   ANAL.: | 5/27/97                     | 5/27/97        |
| TYPE   DESCRIPTION:        | Monitor Well                | Water          |

Field Remarks: \_\_\_\_\_

### RESULTS

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | <1     | PPB   |            |   |  |  |
| TOLUENE       | <1     | PPB   |            |   |  |  |
| ETHYL BENZENE | <1     | PPB   |            |   |  |  |
| TOTAL XYLENES | <3     | PPB   |            |   |  |  |
| TOTAL BTEX    | <6     | PPB   |            |   |  |  |

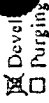
The Surrogate Recovery was at 96.0 for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: John Laidner

Date: 6/3/97

970487,6/2/97



Serial No. WDPD-

Client Company El Paso Field Services

Site Name Ohio C GOVERNMENT #3

☒ 3 to 5 Casing Volumes of Water Removal

☐ Other

**Pump**

☐ Centrifugal ☒ Bottom Valve

☐ Submersible    ☐ Double Check Valve☐ Peristaltic      ☐ Stainless-steel Kemmerer☐ Other

## Water Disposal

ON Ground on site

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

WELL WENT DRY AGAIN. WELL HAS POOR RECOVERY. NW 1ST RECOVER AND SAMPLE.

Developer's Signature(s) Robert Thompson

Date 5-22-97

Reviewer

Date:

Location No. MW-1Serial No. WSD-

## WATER SAMPLING DATA

Group List Number \_\_\_\_\_

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other \_\_\_\_\_ Date 5-22-97Project Name EPFS GW Pit Project No. 17520Project Manager Cory Chance Phase/Task No. 6003-77Site Name OHIO C GOVERNMENT #3

## Sampling Specifications

Requested Sampling

Depth Interval (feet) TOP 3'

Requested Wait Following

Development/Purging (hours) NONE

## Initial Measurements

Time Elapsed From Final Development/Purging (hours) 45 minInitial Water Depth (feet) 6.86Nonaqueous Liquids Present (Describe) NONE

## Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

| Date | Time | Sampler Initials | Water Quality Readings                      |    |              |                     | Water Collection Data          |                              |                              |                    |                              | Notes<br>(Explain in Comment Below) |  |
|------|------|------------------|---------------------------------------------|----|--------------|---------------------|--------------------------------|------------------------------|------------------------------|--------------------|------------------------------|-------------------------------------|--|
|      |      |                  | Temp.<br>(°C)                               | pH | DO<br>(mg/L) | Cond.<br>(µmhos/cm) | Volume<br>Removed<br>(gallons) | Removal<br>Rate<br>(gal/min) | Pump<br>Intake<br>Depth (ft) | Bail<br>Depth (ft) | Final<br>Water<br>Depth (ft) |                                     |  |
|      |      |                  | SEE well development AND Purging Data sheet |    |              |                     |                                |                              |                              |                    |                              |                                     |  |
|      |      |                  |                                             |    |              |                     |                                |                              |                              |                    |                              |                                     |  |
|      |      |                  |                                             |    |              |                     |                                |                              |                              |                    |                              |                                     |  |
|      |      |                  |                                             |    |              |                     |                                |                              |                              |                    |                              |                                     |  |
|      |      |                  |                                             |    |              |                     |                                |                              |                              |                    |                              |                                     |  |

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

## Sample Containers

Preservatives: H = HCl; N = HNO<sub>3</sub>; S = H<sub>2</sub>SO<sub>4</sub>; A = NaOH; O = Other (Specify); --- = None

| Analytical<br>Parameter List | Container |      |             | Field<br>Filtered |    | Preserved | Cooled<br>During<br>Collection |    | Comments        |
|------------------------------|-----------|------|-------------|-------------------|----|-----------|--------------------------------|----|-----------------|
|                              | Number    | Type | Volume (mL) | Yes               | No |           | Yes                            | No |                 |
| BTEX                         | 2         | V    | 40          |                   | X  | H         | X                              |    | SAMPLED AT 1515 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |
|                              |           |      |             |                   |    |           |                                |    |                 |

Filter Type NONE Chain-of-Custody Form Number EPFS

Comments \_\_\_\_\_

Signature Robert Thompson Date 5-22-97 Reviewer \_\_\_\_\_ Date \_\_\_\_\_



A 2017

[illegible]



# EL PASO FIELD SERVICES



8/7/97

## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### SAMPLE IDENTIFICATION

|                            |                        |                     |
|----------------------------|------------------------|---------------------|
|                            | Field ID               | Lab ID              |
| SAMPLE NUMBER:             | N/A                    | 970606              |
| MTR CODE   SITE NAME:      | 72890                  | Ohio C Govt #3 MW-1 |
| SAMPLE DATE   TIME (Hrs):  | 6/26/97                | 1353                |
| PROJECT:                   | Sample 4 - 1st Quarter |                     |
| DATE OF BTEX EXT.   ANAL.: | 6/27/97                | 6/27/97             |
| TYPE   DESCRIPTION:        | Monitor Well           | Water               |

Field Remarks:

### RESULTS

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | <1     | PPB   |            |   |  |  |
| TOLUENE       | <1     | PPB   |            |   |  |  |
| ETHYL BENZENE | <1     | PPB   |            |   |  |  |
| TOTAL XYLENES | <3     | PPB   |            |   |  |  |
| TOTAL BTEX    | <6     | PPB   |            |   |  |  |

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.5 for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative:

Approved By: John L. Lachar

Date: 7-10-97



8/7/97

**Field Services Laboratory  
Analytical Report****SAMPLE IDENTIFICATION**

|                     |                |
|---------------------|----------------|
| EPFS LAB ID:        | 970606         |
| DATE SAMPLED:       | 06/26/97       |
| TIME SAMPLED (Hrs): | 1353           |
| SAMPLED BY:         | Dennis Bird    |
| MATRIX:             | Water          |
| METER CODE:         | 72890          |
| SAMPLE SITE NAME:   | Ohio C Govt #3 |
| SAMPLE POINT:       | MW-1           |

FIELD REMARKS: \_\_\_\_\_

**GENERAL CHEMISTRY WATER ANALYSIS RESULTS**

| PARAMETER                                | RESULT | UNITS            | DATE ANALYZED |
|------------------------------------------|--------|------------------|---------------|
| Laboratory pH                            | 7.5    | Units            | 07/01/97      |
| Alkalinity as CO <sub>3</sub>            | 0.0    | PPM              | 07/01/97      |
| Alkalinity as HCO <sub>3</sub>           | 647    | PPM              | 07/01/97      |
| Calcium as Ca                            | 496    | PPM              | 06/27/97      |
| Magnesium as Mg                          | 35     | PPM              | 06/27/97      |
| Total Hardness as CaCO <sub>3</sub>      | 1,383  | PPM              | 06/27/97      |
| Chloride as Cl                           | 10     | PPM              | 06/27/97      |
| Sulfate as SO <sub>4</sub>               | 1,970  | PPM              | 06/27/97      |
| Fluoride as F                            | 1.1    | PPM              | 06/27/97      |
| Nitrate as NO <sub>3</sub> -N            | <1.1   | PPM              | 06/27/97      |
| Nitrite as NO <sub>2</sub> -N            | <1.1   | PPM              | 06/27/97      |
| Ammonium as NH <sub>4</sub> <sup>+</sup> | <0.2   | PPM              | 06/27/97      |
| Phosphate as PO <sub>4</sub>             | <1.1   | PPM              | 06/27/97      |
| Potassium as K                           | 7.16   | PPM              | 06/27/97      |
| Sodium as Na                             | 566    | PPM              | 06/27/97      |
| Total Dissolved Solids                   | 3,560  | PPM              | 07/01/97      |
| Conductivity                             | 3,910  | umhos/cm         | 07/01/97      |
| Anion/Cation %                           | 0.4%   | %, <5.0 Accepted | 07/10/97      |

Lab Remarks: \_\_\_\_\_

Reported By: IndeApproved By: John L. LinderDate: 7-10-97  
970606GC.XLS



FIELD SERVICES LABORATORY  
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

|                    |                      |
|--------------------|----------------------|
| SAMPLE NUMBER:     | 970606               |
| SAMPLE DATE:       | 06/26/97             |
| SAMPLE TIME (Hrs): | 1353                 |
| SAMPLED BY:        | D. Bird              |
| MATRIX:            | Water                |
| METER CODE:        | 72890                |
| SAMPLE SITE NAME:  | Huerfano Pipeline    |
| SAMPLE POINT:      | Ohio C Govt. #3 MW-1 |

REMARKS:

RESULTS

| PARAMETER | TOTAL<br>RESULT<br>(mg/L) | N. M. WQCC<br>LIMIT<br>(mg/L) |
|-----------|---------------------------|-------------------------------|
| ARSENIC   | <0.029                    | 0.100                         |
| BARIUM    | 0.07                      | 1.00                          |
| CADMIUM   | 0.0003                    | 0.010                         |
| CHROMIUM  | <0.004                    | 0.050                         |
| LEAD      | <0.003                    | 0.050                         |
| MERCURY   | <0.0002                   | 0.002                         |
| SELENIUM  | <0.005                    | 0.050                         |
| SILVER    | 0.0008                    | 0.050                         |

References:

Method 3015, Microwave Assisted Acid Digestion of Aqueous Samples and Extracts, Test Methods for Evaluating Solid Waste, SW-846, Sept., 1994.  
Method 7061A, Arsenic (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.  
Method 7081, Barium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.  
Method 7131, Cadmium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept., 1986.  
Method 7191, Chromium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept., 1986.  
Method 7421, Lead (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept., 1986.  
Method 245.5, Mercury (Automated Cold Vapor Technique), Methods for the Determination of Metals in Environmental Samples, EPA 600/4-91/010, USEPA, June, 1991.  
Method 7741A, Selenium (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept., 1994.  
Method 7761, Silver (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.

Reported By: mh

Approved By: John Lard

Date: 9-4-97



## QUALITY CONTROL REPORT

Sample ID: 970606  
Date Reported: 08/28/97

## STANDARD REFERENCE MATERIAL

| Analyte  | Found Result (mg/L) | Known Value (mg/L) | % Recovery |
|----------|---------------------|--------------------|------------|
| Arsenic  | 0.031               | 0.032              | 96.6%      |
| Barium   | 0.061               | 0.065              | 94.6%      |
| Cadmium  | 0.0026              | 0.0024             | 110%       |
| Chromium | 0.005               | 0.005              | 103%       |
| Lead     | 0.013               | 0.012              | 108%       |
| Mercury  | 0.0044              | 0.0046             | 95.2%      |
| Selenium | 0.038               | 0.041              | 94.3%      |
| Silver   | 0.0066              | 0.0068             | 97.6%      |

## DUPLICATE ANALYSIS (mg/L)

| Analyte  | Original Sample Result | Duplicate Sample Result | % RPD |
|----------|------------------------|-------------------------|-------|
| Arsenic  | 0.0077                 | 0.0084                  | 8.7%  |
| Barium   | 0.222                  | 0.216                   | 2.7%  |
| Cadmium  | ND                     | ND                      | NA    |
| Chromium | 0.004                  | 0.004                   | 1.0%  |
| Lead     | ND                     | ND                      | NA    |
| Mercury  | ND                     | ND                      | NA    |
| Selenium | ND                     | ND                      | NA    |
| Silver   | 0.0004                 | 0.0002                  | NA    |

## SPIKE ANALYSIS (mg/L)

| Analyte  | Original Sample Result | Spike Sample Result | Spike Added | Recovery Percent |
|----------|------------------------|---------------------|-------------|------------------|
| Arsenic  | 0.0077                 | 0.126               | 0.100       | 118%             |
| Barium   | 0.222                  | 1.247               | 1.00        | 94.2%            |
| Cadmium  | ND                     | 0.0117              | 0.010       | 117%             |
| Chromium | 0.004                  | 0.054               | 0.050       | 101%             |
| Lead     | ND                     | 0.044               | 0.050       | 88.3%            |
| Mercury  | ND                     | 0.0017              | 0.0020      | 85.0%            |
| Selenium | ND                     | 0.053               | 0.050       | 101%             |
| Silver   | ND                     | 0.0550              | 0.050       | 110%             |

## METHOD BLANK

| Analyte  | Found Result (mg/L) | Detection Level (mg/L) |
|----------|---------------------|------------------------|
| Arsenic  | ND                  | 0.026                  |
| Barium   | ND                  | 0.019                  |
| Cadmium  | ND                  | 0.0002                 |
| Chromium | ND                  | 0.004                  |
| Lead     | ND                  | 0.003                  |
| Mercury  | ND                  | 0.0002                 |
| Selenium | ND                  | 0.005                  |
| Silver   | ND                  | 0.0004                 |

ND: Not Detected at stated detection level.

NA: Not Applicable.

Reported By: mhApproved By: *John S. Smith*Date: 9-4-97



Well Number MW-1  
Meter Code 72890

Site Name OHIO C GOVT. #3

## Development Criteria

- |                                     |                                        |
|-------------------------------------|----------------------------------------|
| <input checked="" type="checkbox"/> | 3 to 5 Casing Volumes of Water Removal |
| <input type="checkbox"/>            | Stabilization of Indicator Parameters  |
| <input type="checkbox"/>            | Other                                  |

## Methods of Development

- | Pump                                 | Ballor                                            |
|--------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Centrifugal | <input checked="" type="checkbox"/> Bottom Valve  |
| <input type="checkbox"/> Submersible | <input type="checkbox"/> Double Check Valve       |
| <input type="checkbox"/> Peristaltic | <input type="checkbox"/> Stainless-steel Kemmerer |

## Water Volume Calculation

Initial Depth of Well (feet) 31.70  
Initial Depth to Water (feet) 14.01  
Height of Water Column In Well (feet) 27.69  
Diameter (Inches): Well 4 Gravel Pack

4 Diameter (Inches): Well

| Item            | Water Volume in Well |         | Gallons to be Removed |
|-----------------|----------------------|---------|-----------------------|
|                 | Cubic Feet           | Gallons |                       |
| Well Casing     |                      | 5.1     | 15.2                  |
| Gravel Pack     |                      |         |                       |
| Drilling Fluids |                      |         |                       |
| Total           |                      |         |                       |

## Instruments

- ☒ pH Meter  
☐ DO Monitor  
☒ Conductivity Meter  
☒ Temperature Meter  
☒ Other 2.0.0

☒ Temperature Meter  
☒ Other D.O. CHEMISTS KIT

## Water Disposal

DELAVAR 21/11/20

## Water Removal Data

[illegible]

|          |                          |
|----------|--------------------------|
| Comments | BALEO DRP @ 9.0 GALLONS, |
|----------|--------------------------|

Developer's Signature Emilia Bied

Date: 6-26-97

**Reviewer**

John Latta

Date 7-10-11

## CHAIN OF CUSTODY RECORD

| Project No.                                                                                                                                                                                              |         | Project Name |      | MC # 42890                        |                        | Date: 9-12-97      |                     | Remarks |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|------|-----------------------------------|------------------------|--------------------|---------------------|---------|--|
| Samplers: (Signature)                                                                                                                                                                                    |         | Dennis Bial  |      | Date: 9-12-97                     |                        | Sample Number      |                     | Remarks |  |
| Date                                                                                                                                                                                                     | Time    | Comp.        | GRAB | Type and No. of Sample Containers | Preservation Technique | Requested Analysis | Remarks             |         |  |
| DATE                                                                                                                                                                                                     | 9-12-97 | 1429         | X    | 6-1                               | 4°C X                  | BTK                | OHIO C GOVT #3 MW-1 |         |  |
| <div style="display: flex; justify-content: space-between;"> <div>Relinquished by: (Signature)</div> <div>Date/Time</div> <div>Received by: (Signature)</div> <div>Date/Time</div> </div>                |         |              |      |                                   |                        |                    |                     |         |  |
| <div style="display: flex; justify-content: space-between;"> <div>Relinquished by: (Signature)</div> <div>Date/Time</div> <div>Received by: (Signature)</div> <div>Date/Time</div> </div>                |         |              |      |                                   |                        |                    |                     |         |  |
| <div style="display: flex; justify-content: space-between;"> <div>Relinquished by: (Signature)</div> <div>Date/Time</div> <div>Received for Laboratory by: (Signature)</div> <div>Date/Time</div> </div> |         |              |      |                                   |                        |                    |                     |         |  |
| <div style="display: flex; justify-content: space-between;"> <div>Carrier Co:</div> <div>Carrier Name No.</div> <div>Date Results Reported / by: (Signature)</div> </div>                                |         |              |      |                                   |                        |                    |                     |         |  |



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY

### ANALYTICAL REPORT PIT CLOSURE PROJECT

#### SAMPLE IDENTIFICATION

|                            |                      |                |
|----------------------------|----------------------|----------------|
|                            | Field ID             | Lab ID         |
| SAMPLE NUMBER:             | N/A                  | 970979         |
| MTR CODE   SITE NAME:      | 72890                | Ohio C Govt #3 |
| SAMPLE DATE   TIME (Hrs):  | 9/12/97              | 1429           |
| PROJECT:                   | Sample 4 2nd Quarter |                |
| DATE OF BTEX EXT.   ANAL.: | 9/16/97              | 9/16/97        |
| TYPE   DESCRIPTION:        | MW-1                 | Water          |

Field Remarks: \_\_\_\_\_

#### RESULTS

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | <1     | PPB   |            |   |  |  |
| TOLUENE       | <1     | PPB   |            |   |  |  |
| ETHYL BENZENE | <1     | PPB   |            |   |  |  |
| TOTAL XYLENES | <3     | PPB   |            |   |  |  |
| TOTAL BTEX    | <6     | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 110.4 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Lander*

Date: \_\_\_\_\_

9-22-97

970971BTEXMW,9/18/97



## Well Development and Purging Data

Well Number 14W-1  
Meter Code 77890

Site Name OHIO C GOVT. #3

## Development Criteria

- |                                     |                                        |
|-------------------------------------|----------------------------------------|
| <input checked="" type="checkbox"/> | 3 to 5 Casing Volumes of Water Removal |
| <input type="checkbox"/>            | Stabilization of Indicator Parameters  |
| <input type="checkbox"/>            | Other                                  |

## Methods of Development

- |                          |                    |                                     |                                 |
|--------------------------|--------------------|-------------------------------------|---------------------------------|
| <input type="checkbox"/> | <b>Pump</b>        | <input type="checkbox"/>            | <b>Baller</b>                   |
| <input type="checkbox"/> | <b>Centrifugal</b> | <input checked="" type="checkbox"/> | <b>Bottom Valve</b>             |
| <input type="checkbox"/> | <b>Submersible</b> | <input type="checkbox"/>            | <b>Double Check Valve</b>       |
| <input type="checkbox"/> | <b>Peristaltic</b> | <input type="checkbox"/>            | <b>Stainless-steel Kemmerer</b> |

☐ Other \_\_\_\_\_

## Water Volume Calculation

Initial Depth of Well (feet) 21.70  
Initial Depth to Water (feet) 13.90  
Height of Water Column in Well (feet) 7.80

44 Diameter (inches): Well \_\_\_\_\_ Gravel Pack \_\_\_\_\_

| Item            | Water Volume in Well |         | Gallons to be Removed |
|-----------------|----------------------|---------|-----------------------|
|                 | Cubic Feet           | Gallons |                       |
| Well Casing     |                      | 52      | 15.5                  |
| Gravel Pack     |                      |         |                       |
| Drilling Fluids |                      |         |                       |
| Total           |                      |         |                       |

## Instruments

- |                                     |                     |
|-------------------------------------|---------------------|
| <input checked="" type="checkbox"/> | pH Meter            |
| <input type="checkbox"/>            | DO Monitor          |
| <input checked="" type="checkbox"/> | Conductivity Meter  |
| <input checked="" type="checkbox"/> | Temperature Meter   |
| <input checked="" type="checkbox"/> | Other <u>D.O. C</u> |

## Water Disposal

water disposal  
K072 SEPARATOR

## Water Removal Data

[illegible]

Comments THE WELL BAILED DRY P 9.0 GALLONS

Developer's Signature *Denio Bird*

Date 9-12-97 Reviewer

John Faldi.

Date 5-22-97



**Natural Gas Company**

# CHAIN OF CUSTODY RECORD

Project No.

**Project Name**

MC # 72890

**Samplers: (Signature)**

② Dennis Bred

Date: 12-4-97

MSRP

Date \_\_\_\_\_

Time

**Comp. GRAB**

Sample Number

|      |      |
|------|------|
| 1247 | 1358 |
|------|------|

**X**

971372

157

Requested Analysis

| Type<br>and<br>No. of<br>Sample<br>Contain-<br>ers |
|----------------------------------------------------|
|----------------------------------------------------|

Preservation  
Technique

|     |   |
|-----|---|
| 405 | X |
|-----|---|

OHIO C GOVT. #3 MW-1

Remarks

Relinquished by: (Signature)

*Dennis Biral*

Date/Time

12-4297/1609

**Received by: (Signature)**

Received by: (Signature)

Relinquished by: (Signature)

Reinquished by: (Signature)

Date/Time

Date/Time

Received by: (Signature)

Received by: (Signature)

**Relinquished by: (Signature)**

Date/Time

Received for Laboratory by: (Signature)

Date/Time

Remarks:

**Carrier Co:**

Carrier Phone No.

Date Results Reported / by: (Signature)

**Alr Bill No.:**



# EL PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### SAMPLE IDENTIFICATION

|                            | Field ID             | Lab ID          |
|----------------------------|----------------------|-----------------|
| SAMPLE NUMBER:             | N/A                  | 971272          |
| MTR CODE   SITE NAME:      | 72890                | Ohio C Govt. #3 |
| SAMPLE DATE   TIME (Hrs):  | 12/4/97              | 1358            |
| PROJECT:                   | Sample 4 3rd Quarter |                 |
| DATE OF BTEX EXT.   ANAL.: | 12/5/97              | 12/5/97         |
| TYPE   DESCRIPTION:        | MW-1                 | Water           |

Field Remarks: \_\_\_\_\_

### RESULTS

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | <1     | PPB   |            |   |  |  |
| TOLUENE       | <1     | PPB   |            |   |  |  |
| ETHYL BENZENE | <1     | PPB   |            |   |  |  |
| TOTAL XYLENES | <3     | PPB   |            |   |  |  |
| TOTAL BTEX    | <6     | PPB   |            |   |  |  |

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 98.8 % for this sample All QA/QC was acceptable.  
DF = Dilution Factor Used

Narrative: \_\_\_\_\_

Approved By: \_\_\_\_\_

*John Larkin*

Date: \_\_\_\_\_

1/6/98

971272BTEXMW,1/6/98



# Well Development and Purging Data

Site Name OHIO C GOVT, #3

Well Number MW-1  
Meter Code 72890

☐ Development  
☒ Purging

## Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal  
☐ Stabilization of Indicator Parameters  
☐ Other \_\_\_\_\_

## Methods of Development

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

☐ Other \_\_\_\_\_

## Water Volume Calculation

Initial Depth of Well (feet) 26.70  
Initial Depth to Water (feet) 13.72  
Height of Water Column in Well (feet) 7.98

Diameter (inches): Well 4 Gravel Pack \_\_\_\_\_

| Item            | Water Volume in Well |            | Gallons to be Removed |
|-----------------|----------------------|------------|-----------------------|
|                 | Cubic Feet           | Gallons    |                       |
| Well Casing     |                      | <u>5.3</u> | <u>15.8</u>           |
| Gravel Pack     |                      |            |                       |
| Drilling Fluids |                      |            |                       |
| Total           |                      |            |                       |

## Instruments

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

## Water Disposal

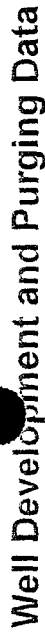
KUT2 SEPARATOR

## Water Removal Data

| Date    | Time | Development Method |        | Removal Rate (gal/min) | Intake Depth (feet) | Ending Water Depth (feet) | Water Volume Removed (gal) |             | Product Volume Removed (gallons) |            | pH          | Conductivity umho/cm | Dissolved Oxygen mg/L | Comments |
|---------|------|--------------------|--------|------------------------|---------------------|---------------------------|----------------------------|-------------|----------------------------------|------------|-------------|----------------------|-----------------------|----------|
|         |      | Pump               | Bailer |                        |                     |                           | Increment                  | Cumulative  | Increment                        | Cumulative |             |                      |                       |          |
| 12-4-97 | 1308 |                    |        |                        |                     |                           |                            |             |                                  |            |             | <u>4000</u>          |                       |          |
| 12-4-97 | 1312 |                    |        |                        |                     |                           | <u>3.0</u>                 | <u>3.0</u>  |                                  |            | <u>7.19</u> | <u>4360</u>          |                       |          |
| 12-4-97 | 1323 |                    |        |                        |                     |                           | <u>2.0</u>                 | <u>5.0</u>  |                                  |            | <u>7.05</u> | <u>4340</u>          |                       |          |
| 12-4-97 | 1333 |                    |        |                        |                     |                           | <u>3.0</u>                 | <u>8.0</u>  |                                  |            | <u>6.92</u> | <u>4370</u>          |                       |          |
| 12-4-97 | 1346 |                    |        |                        |                     |                           | <u>2.0</u>                 | <u>10.0</u> |                                  |            | <u>7.00</u> | <u>4460</u>          | <u>3.5</u>            |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |
|         |      |                    |        |                        |                     |                           |                            |             |                                  |            |             |                      |                       |          |

Comments THE WELL BAILED DRY P 10.0 GALLONS.

Developer's Signature Lennie Bied Date 12-4-97 Reviewer John Fadden Date 12/98



|                                     |             |
|-------------------------------------|-------------|
| <input type="checkbox"/>            | Development |
| <input checked="" type="checkbox"/> | Purging     |

Well Number

Meter Code 77890

|                                     |                                        |
|-------------------------------------|----------------------------------------|
| <input checked="" type="checkbox"/> | 3 to 5 Casing Volumes of Water Removal |
| <input type="checkbox"/>            | Stabilization of Indicator Parameters  |
| <input type="checkbox"/>            | Other                                  |

|             | Pump                     | Baller                                            |
|-------------|--------------------------|---------------------------------------------------|
| Centrifugal | <input type="checkbox"/> | <input checked="" type="checkbox"/> Bottom Valve  |
| Submersible | <input type="checkbox"/> | <input type="checkbox"/> Double Check Valve       |
| Peristaltic | <input type="checkbox"/> | <input type="checkbox"/> Stainless-steel Kemmerer |

Initial Depth of Well (feet) 21.70  
Initial Depth to Water (feet) 13.89  
Height of Water Column in Well (feet) 8.01

4 Diameter (inches): Well Gravel Pack

|                                     |                     |
|-------------------------------------|---------------------|
| <input checked="" type="checkbox"/> | pH Meter            |
| <input type="checkbox"/>            | DO Monitor          |
| <input checked="" type="checkbox"/> | Conductivity Meter  |
| <input checked="" type="checkbox"/> | Temperature Meter   |
| <input checked="" type="checkbox"/> | Other <u>D.O. C</u> |

## Water Disposal

K072 SEP 1970

[illegible]

Comments THE WELL BAILED OFF @ 10.0 GALLONS.

Developer's Signature  
*Dennis Bird*

Date 3-27-98 Reviewer

Date 4/10/98



# ED PASO FIELD SERVICES

## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### SAMPLE IDENTIFICATION

SAMPLE NUMBER:

Field ID

Lab ID

N/A

980262

MTR CODE | SITE NAME:

72890

Ohio C Govt. #3

SAMPLE DATE | TIME (Hrs):

3/27/98

1515

PROJECT:

Sample 4 4th Quarter

DATE OF BTEX EXT. | ANAL:

4/6/98

4/6/98

TYPE | DESCRIPTION:

MW-1

Water

Field Remarks:

### RESULTS

| PARAMETER     | RESULT | UNITS | QUALIFIERS |   |  |  |
|---------------|--------|-------|------------|---|--|--|
|               |        |       | DF         | Q |  |  |
| BENZENE       | < 1    | PPB   |            |   |  |  |
| TOLUENE       | < 1    | PPB   |            |   |  |  |
| ETHYL BENZENE | < 1    | PPB   |            |   |  |  |
| TOTAL XYLENES | < 3    | PPB   |            |   |  |  |
| TOTAL BTEX    | < 6    | PPB   |            |   |  |  |

--BTEX is by EPA Method 8020 --

Surrogate Recovery was at  
= Dilution Factor Used

102.6

% for this sample All QA/QC was acceptable.

Narrative:

Approved By:

*Jon Tach*

980262BTEXMW, 4/7/98

Date:

*4/10/98*

A 2596

Gas Company



Sample 4 47#978

CHAIN OF CUSTODY RECORD

| Project No.                  |  | Project Name      |  | Sample Number                           |  | Type and No. of Sample Containers |  | Preservation Technique       |  | Requested Analysis                      |  | Remarks                  |  |
|------------------------------|--|-------------------|--|-----------------------------------------|--|-----------------------------------|--|------------------------------|--|-----------------------------------------|--|--------------------------|--|
| SAMPLERS: (Signature)        |  | Date: 3-27-98     |  |                                         |  |                                   |  |                              |  |                                         |  |                          |  |
| DATE: 3-27-98                |  | TIME: 1515        |  | X                                       |  | GRAB                              |  | X                            |  | 4°C                                     |  | OHIO C GOVT. #3 MW-1     |  |
| Relinquished by: (Signature) |  | Date/Time         |  | Received by: (Signature)                |  | Date/Time                         |  | Relinquished by: (Signature) |  | Date/Time                               |  | Received by: (Signature) |  |
| Relinquished by: (Signature) |  | Date/Time         |  | Received by: (Signature)                |  | Date/Time                         |  | Relinquished by: (Signature) |  | Date/Time                               |  | Received by: (Signature) |  |
| Relinquished by: (Signature) |  | Date/Time         |  | Received for Laboratory by: (Signature) |  | Date/Time                         |  | Remarks:                     |  | Date Results Reported / by: (Signature) |  |                          |  |
| Carrier Co:                  |  | Carrier Phone No. |  | 3/30/98 0830                            |  |                                   |  |                              |  |                                         |  |                          |  |
| Air Bill No.:                |  |                   |  |                                         |  |                                   |  |                              |  |                                         |  |                          |  |