

3R - 167

REPORTS

DATE:

1997



Certified Mail: #Z 295 387 297; #Z 295 387 296

February 27, 1998

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

RECEIVED

MAR 02 1998

Environmental Bureau
Oil Conservation Division

Re: 1997 Groundwater Annual Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for 57 groundwater impacted locations that were identified during our pit closure project of 1994/1995.

Of the 57 reports, EPFS hereby requests your approval for closure of 11 of these locations. The 11 reports for which EPFS requests closure, are in 2 separate binders entitled "Request for Closure".

After you have had an opportunity to review these updates, EPFS would like to schedule a meeting with you to discuss issues related to closure criteria for some of the more complex locations that are currently being addressed.

If you have any questions regarding this information, please call me at 505/599-2141. I will contact you within the next quarter to schedule a meeting.

Sincerely,

A handwritten signature in cursive script that reads 'Sandra D. Miller'.

Sandra D. Miller
Environmental Manager

xc: Mr. Bill Liesse, BLM w/o enclosures
Mr. Denny Foust, NMOCD - Aztec w/enclosures; **Certified Mail #Z 295 387 298; #Z 295 387 299**
Ms. Charmaine Tso, Navajo EPA w/enclosures; **Certified Mail #Z 295 387 292**

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

El Paso Field Services Pit Project Groundwater Report
Annual Report

March 1998

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520

PHILIP
ENVIRONMENTAL

EPFS GROUNDWATER PITS

1997 ANNUAL GROUNDWATER REPORT

DE NA HAZ ZA #1
Meter/Line ID - 74439

SITE DETAILS

Legals - Twn: 26N Rng: 8W Sec: 18 Unit: D
NMOCD Hazard Ranking: 40 Land Type: NAVAJO
Operator: BURLINGTON RESOURCES

PREVIOUS ACTIVITIES

Site Assessment: Jun-94 Excavation: Aug-94 (40 cy) Soil Boring: Feb-97
Re-Excavation: Mar-97 (226 cy) Monitor Well: May-97

1997 ACTIVITIES

Monitor Well Installation - One groundwater monitor well was installed in the center of the former pit.

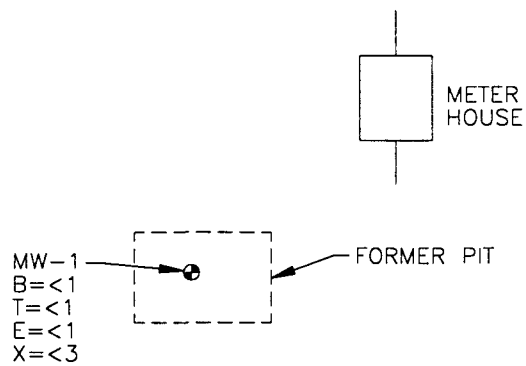
Quarterly Groundwater Monitoring - Quarterly groundwater monitoring was initiated on 6/26/97. Groundwater analytical data are presented in Table 1. A site map is presented in Figure 1.

CONCLUSIONS

Groundwater analytical data has been below standards since quarterly sampling was initiated at MW-1. Minimal impact to groundwater has occurred at this site.

RECOMMENDATIONS

- Quarterly sampling will continue at MW-1 until 4 consecutive clean quarters are achieved.
- Following OCD approval for closure, MW-1 will be abandoned following OCD approved abandonment procedures.



WELLHEAD

LEGEND

● MW-1 APPROXIMATE MONITORING WELL LOCATION AND NUMBER

B BENZENE (ug\L)
T TOLUENE (ug\L)
E ETHYL BENZENE (ug\L)
X XYLENE (ug\L)

ug\L MICROGRAMS PER LITER

NOT TO SCALE



COL 17520AN-001



TITLE:

DE-NA-HAZ-ZA #1
74439

DWN:

TMM

DES.:

CC

PROJECT NO.:

17520

CHKD:

CC

APPD:

DATE:

12/8/97

REV.:

0

EPFS GW PITTS

FIGURE 1

EPF'S Groundwater Pits
1997 Annual Groundwater Report

TABLE 1

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
970485	74439	DE-NA-HAZ-ZA #1	5/22/97	1	Phase II Drilling - Initial	< 1	< 1	< 1	= 6.94	= 7
970605	74439	DE-NA-HAZ-ZA #1	6/26/97	1	Sample 4 - 1st Qtr	< 1	< 1	< 1	< 3	< 6
970978	74439	DE-NA-HAZ-ZA #1	9/12/97	1	Sample 4 - 2nd Qtr	< 1	< 1	< 1	< 3	< 6
971271	74439	DE-NA-HAZ-ZA #1	12/4/97	1	Sample 4 - 3rd Qtr	< 1	< 1	< 1	< 3	< 6

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

Project Name EPFS GW PITS
Project Number 17520 Phase 6001
Project Location De-Na-Haz-Ze # 1 74429

Elevation
Borehole Location T26-R8 - S18 - Ltr D
GWL Depth 12.8' BGS
Logged By CM CHANCE
Drilled By K Padilla
Date/Time Started 5/6/97 - 1055
Date/Time Completed 5/6/97 - 1200

Well Logged By CM CHANCE
Personnel On-Site D CHARLEY
Contractors On-Site
Client Personnel On-Site
Drilling Method 6 1/4 ID HSA
Air Monitoring Method PID

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0										
5										
10										
15										
20										
25										
30										
35										
40										

Comments:

No sample collected. Backfill to 18'. GW @ ~14'. GW rose to 12.8' after 20 min.

Geologist Signature

Corey Chance

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

De Na Haz Za #1

74439

On-Site Geologist

CM CHANCE

Personnel On-Site

D CHARLEY

Contractors On-Site

Client Personnel On-Site

Elevation

Well Location

T26S18R8LTRD

GWL Depth

12.8' BGS

Installed By

K Padilla

Date/Time Started

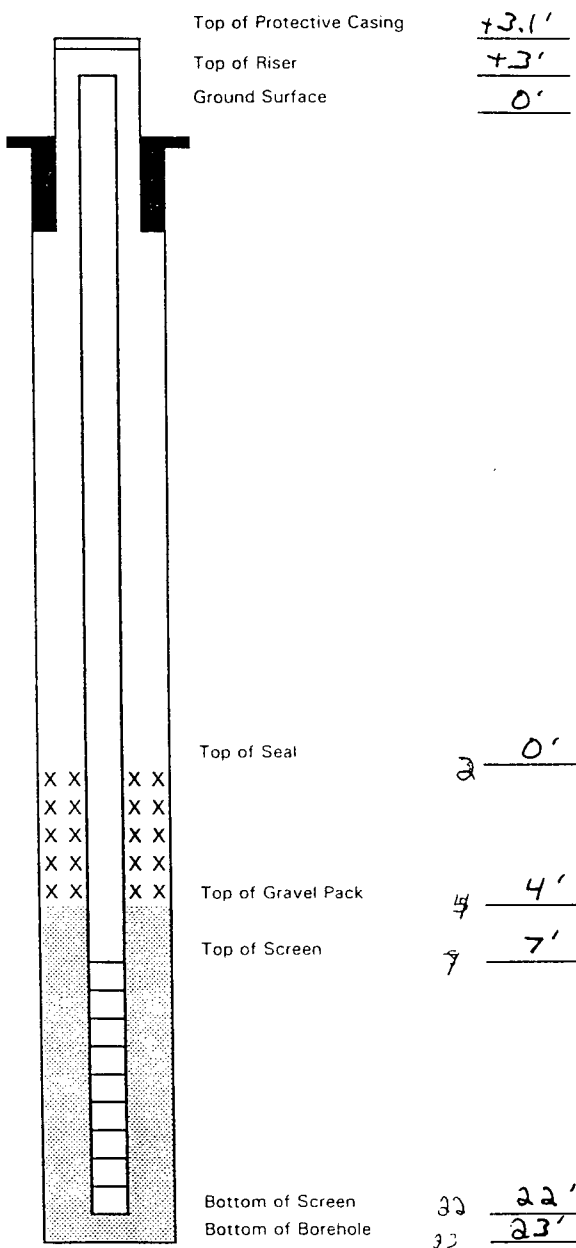
5/6/97-1200

Date/Time Completed

5/6/97-1230

Depths in Reference to Ground Surface

Item	Material	Depth (feet)
Top of Protective Casing	8" steel well vault	+3.1'
Bottom of Protective Casing		1.9
Top of Permanent Borehole Casing		N/A
Bottom of Permanent Borehole Casing		N/A
Top of Concrete		N/A
Bottom of Concrete		N/A
Top of Grout	Type I/II Portland cement	N/A
Bottom of Grout	Powder Bentonite	N/A
Top of Well Riser	4" SCH 40 PVC	+3'
Bottom of Well Riser	FLUSH THREAD	7'
Top of Well Screen	4" SCH 40 PVC	7'
Bottom of Well Screen	0.01 SLOT FLUSH THREAD	22'
Top of Peltonite Seal	ENVIROPLUG	0'
Bottom of Peltonite Seal		4'
Top of Gravel Pack	10-20 SILICA SAND	4'
Bottom of Gravel Pack		22'
Top of Natural Cave-In		22'
Bottom of Natural Cave-In		23'
Top of Groundwater		12.8'
Total Depth of Borehole		23'



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

Cory Chance

**1997 GROUNDWATER
ANALYTICAL**

[illegible]



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	RT5	970485
MTR CODE SITE NAME:	74439	DE-NA-HAZ-ZA #1
SAMPLE DATE TIME (Hrs):	5/22/97	1258
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	6.94	PPB				
TOTAL BTEX	6.94	PPB				

The Surrogate Recovery was at 97.2 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: 5/27/97



EL PASO FIELD SERVICES

QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX

Samples: 970485, 970487

QA/QC for 05/27/97 Sample S

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
ICV LA-52589 50 PPB						
Benzene	Standard	50.0	51.0	102	75 - 125 %	X
Toluene	Standard	50.0	51.2	102	75 - 125 %	X
Ethylbenzene	Standard	50.0	51.8	104	75 - 125 %	X
m & p - Xylene	Standard	100	105	105	75 - 125 %	X
o - Xylene	Standard	50.0	51.3	103	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
LCS LA-45476 25 PPB						
Benzene	Standard	25.0	25.7	103	39 - 150	X
Toluene	Standard	25.0	25.4	102	46 - 148	X
Ethylbenzene	Standard	25.0	25.9	104	32 - 160	X
m & p - Xylene	Standard	50.0	52.4	105	Not Given	X
o - Xylene	Standard	25.0	25.8	103	Not Given	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
CCV LA-52589 50 PPB						
Benzene	Standard	50.0	52.4	105	75 - 125 %	X
Toluene	Standard	50.0	52.7	105	75 - 125 %	X
Ethylbenzene	Standard	50.0	53.0	106	75 - 125 %	X
m & p - Xylene	Standard	100	107	107	75 - 125 %	X
o - Xylene	Standard	50.0	52.8	106	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
CCV LA-52589 50 PPB						
Benzene	Standard	50.0		0	75 - 125 %	
Toluene	Standard	50.0		0	75 - 125 %	
Ethylbenzene	Standard	50.0		0	75 - 125 %	
m & p - Xylene	Standard	100		0	75 - 125 %	
o - Xylene	Standard	50.0		0	75 - 125 %	

Narrative: Acceptable.

EL PASO FIELD SERVICES LAB
 QUALITY CONTROL REPORT
 EPA METHOD 8020 - BTEX
 Samples: 970485, 970487

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
970485					RANGE	
Benzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Toluene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	5.48	5.46	0.37	+/- 20 %	X
o - Xylene	Matrix Duplicate	1.46	1.43	2.08	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 970485					RANGE	
Benzene	50	<1	53.3	107	75 - 125 %	X
Toluene	50	<1	55.7	111	75 - 125 %	X
Ethylbenzene	50	<1	53.7	107	75 - 125 %	X
m & p - Xylene	100	5.48	113	108	75 - 125 %	X
o - Xylene	50	1.46	54.6	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 Lot MB1461	PPB (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 CARRYOVER CHECK	SOURCE	PPB (None 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: *mdc* Approved By: *John L. Smith* Date: 6/2/97



Sample 4-1st QUARTER



Natural Gas Company

A 2015

CHAIN OF CUSTODY RECORD

Project No.	Project Name	Date		Sample Number	Type and No. of Sample Containers	Requested Analysis	Remarks
HOERFAC PIPELINE		Date: 5-25-97					
SAMPLERS (Signature)		Date: 5-25-97					
WATER	Time	Comp.	GRAB				
WATER 52897	1136	X		972222	22	X	DE-14-HR-24 #1, 1461 MC 74439
WATER 52897	—	X		—	51	X	TRIP BLANK
[The following rows are crossed out with a diagonal line.]							
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Dennis Ford		5/25/97 1415					
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time	
Relinquished by: (Signature)		Date/Time		Received for Laboratory by: (Signature)		Remarks:	
				W. J. [Signature]		4/27/97 0720	
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



8/7/97

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID N/A	Lab ID 970605
MTR CODE SITE NAME:	74439	DE-NA-HAZ-ZA #1 MW-1
SAMPLE DATE TIME (Hrs):	6/26/97	1136
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 101 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

John Lardner

Date: 7-10-97

EL PASO FIELD SERVICES

9-16-97

Field Services Laboratory Analytical Report

SAMPLE IDENTIFICATION

EPFS LAB ID:	970605
DATE SAMPLED:	06/26/97
TIME SAMPLED (Hrs):	1136
SAMPLED BY:	N/A
MATRIX:	Water
METER CODE:	74439
SAMPLE SITE NAME:	DE-NA-HAZ-ZA #1
SAMPLE POINT:	MW-1

FIELD REMARKS:

GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Laboratory pH	8.1	Units	07/01/97
Alkalinity as CO_3	0.0	PPM	07/01/97
Alkalinity as HCO_3	375	PPM	07/01/97
Calcium as Ca	11	PPM	06/27/97
Magnesium as Mg	1	PPM	06/27/97
Total Hardness as CaCO_3	31	PPM	06/27/97
Chloride as Cl	4	PPM	06/27/97
Sulfate as SO_4	133	PPM	06/27/97
Fluoride as F	1.2	PPM	06/27/97
Nitrate as $\text{NO}_3\text{-N}$	<0.1	PPM	06/27/97
Nitrite as $\text{NO}_2\text{-N}$	<0.1	PPM	06/27/97
Ammonium as NH_4^+	<0.1	PPM	06/27/97
Phosphate as PO_4	<0.1	PPM	06/27/97
Potassium as K	2.1	PPM	06/27/97
Sodium as Na	210	PPM	06/27/97
Total Dissolved Solids	600	PPM	07/01/97
Conductivity	834	umhos/cm	07/01/97
Anion/Cation %	3.7%	%, < 5.0 Accepted	08/07/97

Lab Remarks:

Reported By: mdw

Approved By: John T. Miller

Date: 8/7/97

9-16-97

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	970605
SAMPLE DATE:	06/26/97
SAMPLE TIME (Hrs):	1136
SAMPLED BY:	D. Bird
MATRIX:	Water
METER CODE:	74439
SAMPLE SITE NAME:	Huerfano Pipeline
SAMPLE POINT:	De-Na-Haz-za #1 MW-1

REMARKS:

RESULTS

PARAMETER	TOTAL RESULT (mg/L)	N. M. WQCC LIMIT (mg/L)
ARSENIC	<0.029	0.100
BARIUM	0.11	1.00
CADMIUM	<0.0002	0.010
CHROMIUM	0.005	0.050
LEAD	0.006	0.050
MERCURY	<0.0002	0.002
SELENIUM	<0.005	0.050
SILVER	0.0004	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 Lantieri

Date: 9-4-97

QUALITY CONTROL REPORT

Sample ID: 970605
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

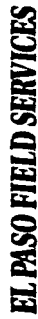
Analyte	Found Result (mg/L)	Detection Level (mg/L)
Arsenic	ND	0.026
Barium	ND	0.019
Cadmium	ND	0.0002
Chromium	ND	0.004
Lead	ND	0.003
Mercury	ND	0.0002
Selenium	ND	0.005
Silver	ND	0.0004

ND: Not Detected at stated detection level.

NA: Not Applicable.

Reported By: mh Approved By: [Signature]

Date: 9-4-97



Well Number MW-1
Meter Code 74439

Development Criteria

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

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

☐ Other _____

Initial Depth of Well (feet) 25.30
Initial Depth to Water (feet) 16.50
Height of Water Column in Well (feet) 8.80
Diameter (inches): Well 4 Gravel Pack

4 Diameter (Inches): Well

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		5.8	17.5
Gravel Pack			
Drilling Fluids			
Total			

☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other *h.o.c.*

Water Disposal
KUTZ SEPARATOR

[illegible]

Developer's Signature Lennis Bied

Date 6-26-97

Reviewer:

J. M. F. L.

Date:

CS-01-2



El Paso
Natural Gas Company

A 2078

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:	N/A	970978
MTR CODE SITE NAME:	74439	DE-NA-HAZ-ZA #1
SAMPLE DATE TIME (Hrs):	9/12/97	1226
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 112.8 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John Larden

Date: 9-22-97

970978BTEXMW,9/22/97



Well Development and Purging Data

Site Name DE-NA-HAZ-2A #1

Well Number 19W-1
Meter Code 74439

Development Criteria

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

Methods of Development

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

Water Volume Calculation

Initial Depth of Well (feet) 25.30
Initial Depth to Water (feet) 16.15
Height of Water Column in Well (feet) 9.15
Diameter (inches) Well 4 Gravel Pack

Diameter (inches)		Well 4		Gravel Pack		Gallons to be Removed
Item	Cubic Feet	Water Volume in Well	Gallons			
Well Casing			6.0		18.1	
Gravel Pack						
Drilling Fluids						
Total						

Instruments

- | | |
|-------------------------------------|--------------------|
| ☒ | pH Meter |
| ☐ | DO Monitor |
| ☒ | Conductivity Meter |
| ☒ | Temperature Meter |
| ☒ | Other <u>0.0.0</u> |

Water Disposal

KUTZ SEPARATOR

Water Removal Data

[illegible]

Comments

Developer's Signature Dennis Bird

Date 9-12-97

Reviewer

John Fisher.

Date _____

9/22/97

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:	N/A	971271
MTR CODE SITE NAME:	74439	De-Na-Haz-Za #1
SAMPLE DATE TIME (Hrs):	12/4/97	1105
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 99.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

John Lander

Date: _____

12/18/97

971271BTEXMW,12/8/97

