

3R - 206

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

K-51 LINE DRIP

Meter/Line ID - LD244

SITE DETAILS

Legals - Twn: 26N	Rng: 6W	Sec: 34	Unit: A
NMOCD Hazard Ranking: 30			Land Type: FEDERAL
Operator: EL PASO FIELD SERVICES			

PREVIOUS ACTIVITIES

Site Assessment: Sep-95
Monitor Well: May-97

Excavation: Sep-95 (230 cy)

Soil Boring: May-97

1997 ACTIVITIES

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

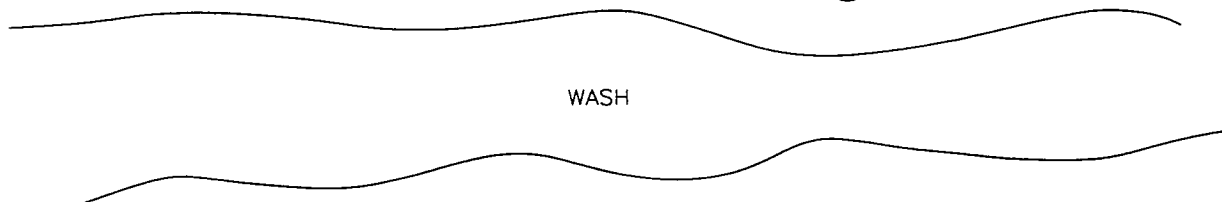
Quarterly Groundwater Monitoring - Quarterly groundwater monitoring was initiated on 7/22/97. Groundwater analytical data are presented in Table 1. A site map is presented in Figure 1.

CONCLUSIONS

Groundwater samples collected during the first quarterly sampling event were above standards for benzene only at 81.9 ppb. Groundwater samples collected during the second quarter were below standards for BTEX. Groundwater gradient has not been established at this site.

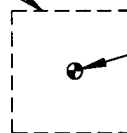
RECOMMENDATIONS

- 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.

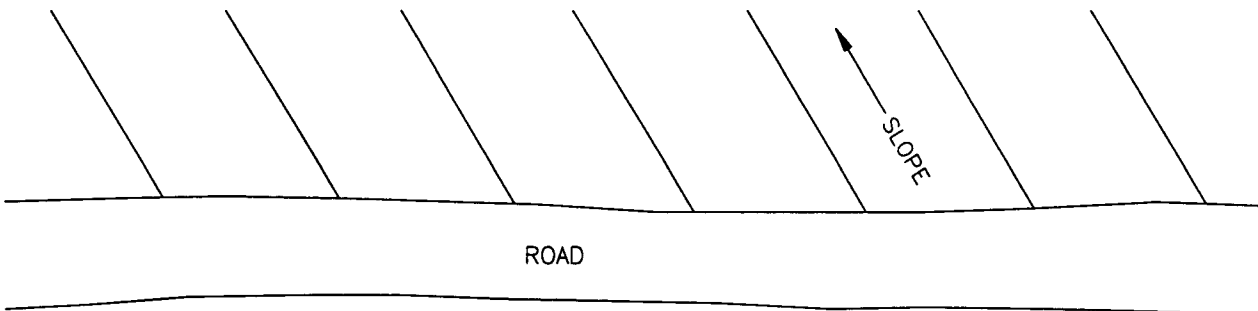


WASH

FORMER PIT



MW-1
B=6.01
T=1.35
E=<1
X=4.88



ROAD

SLOPE

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 175204-001



TITLE:

K-51 LINE DRIP
LD244

DWN:
TMM

DES.:
CC

CHKD:
CC

APPD:

DATE:
1/14/98

REV.:
0

PROJECT NO.: 17520
EPFS GW PITS

FIGURE 1

EPFS Groundwater Pits
1997 Annual Groundwater Report

TABLE 1

Sample #	Meier/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
970512	LD244	K-51 Line Drip	5/29/97	1	Phase II Drilling - Initial	= 93	= 283	= 21.6	= 184	= 582
970700	LD244	K-51 Line Drip	7/22/97	1	Sample 4 - 1st Qtr	= 81.9	= 117	= 10.2	= 92.9	= 302
971124	LD244	K-51 Line Drip	10/21/97	1	Sample 4 - 2nd Qtr	= 6.01	= 1.35	= 1	= 4.88	= 13

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL

4000 Monroe Road

Farmington, New Mexico 87401

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

Borehole # BH-1
Well # MW1
Page 1 of 1

Project Name EPFS GW PITS
Project Number 17520 Phase 6001.77
Project Location K-51 Line Drip LD244

Elevation _____
Borehole Location LTRA-534-T26-R6
GWL Depth 9.02 BGS
Logged By C Chance
Drilled By K. Pailly
Date/Time Started 5/29/97-1000
Date/Time Completed 5/29/97-1045

Well Logged By CM Chance
Personnel On-Site D. Charley, R. Thompson
Contractors On-Site _____
Client Personnel On-Site _____

Drilling Method 6 1/4 ID HSA
Air Monitoring Method PIA

Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
							BZ	BH	S	
0										
5										
10										
15				Backfill to 14'						
20				Gray-Brown silty SAND, fine med, saturated						
25				TOB20'						
30										
35										
40										

- GW @ 9' BGS

Comments:

No samples collected. Backfill to 14' GW @ 9' BGS
Hydrocarbon odor on EWL & cuttings.

Geologist Signature

Cory 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 K-51 Line Drip LD 244

On-Site Geologist CM CHANCE

Personnel On-Site D CHARLEY, R Thompson

Contractors On-Site

Client Personnel On-Site

Elevation

Well Location T26R6 S34L12A

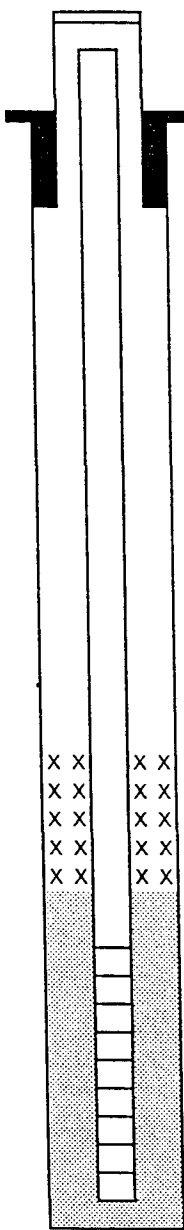
GWL Depth 9.02' B65

Installed By K Padilla

Date/Time Started 5/29/97-1045

Date/Time Completed 5/29/97 1200

Depths in Reference to Ground Surface		
Item	Material	Depth (feet)
Top of Protective Casing	8" steel well vault	2.1
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	7.3
Bottom of Well Riser	FLUSH THREAD	4
Top of Well Screen	4" SCH 40 PVC	4
Bottom of Well Screen	0.01 SLOT FLUSH THREAD	19
Top of Peltonite Seal	ENVIROPLUG	0
Bottom of Peltonite Seal		2
Top of Gravel Pack	10-20 SILICA SAND	2
Bottom of Gravel Pack		19
Top of Natural Cave-In		19
Bottom of Natural Cave-In		20
Top of Groundwater		9.02
Total Depth of Borehole		20



Top of Protective Casing 7.3.1'

Top of Riser 7.3'

Ground Surface 0'

Top of Seal 0'

Top of Gravel Pack 2'

Top of Screen 4'

Bottom of Screen 19'

Bottom of Borehole 20'

Comments: Locking well cap + padlock placed on well. Seal hydrated ~ 5/gal potable water.

CM Chance

**1997 GROUNDWATER
ANALYTICAL**

DRILLING INITIAL WELL SAMPLE



CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER # 24324		PROJECT NAME Pit Closure Project		DATE 5-29-97		TOTAL NUMBERS OF CONTAINERS		SAMPLE TYPE		REQUESTED ANALYSIS				CONTRACT LABORATORY P. O. NUMBER														
LAB ID	DATE	TIME	MATRIX	FIELD ID						TPH EPA 418.1	BTEX EPA 8020	LAB PID	SEQUENCE #	REMARKS														
	5-29-97	1355	H ₂ O	RT8	2					X				K-51 - LD244														
	5-29-97			TRIP BLANK	1																							
Cool & Intact																												

RELINQUISHED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME 5-29-97 1620	RECEIVED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME 5-30-97 1100	RELINQUISHED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME	RECEIVED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME
RELINQUISHED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME	RECEIVED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME	RELINQUISHED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME	RECEIVED BY: (Signature) <i>Robert Thompson</i>	DATE/TIME

REQUESTED TURNAROUND TIME: ☐ ROUTINE ☐ RUSH	CARRIER CO.	RESULTS & INVOICES TO: FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499	505-599-2144 FAX: 505-599-2261
BILL NO.:			



6-18-97

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID RT8	Lab ID 970512
MTR CODE SITE NAME:	LD244	K-51 Line Drip
SAMPLE DATE TIME (Hrs):	5/29/97	1355
PROJECT:	Phase II Drilling - Initial	
DATE OF BTEX EXT. ANAL.:	6/4/97	6/4/97
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	93.0	PPB	10	D		
TOLUENE	283	PPB	10	D		
ETHYL BENZENE	21.6	PPB	10	D		
TOTAL XYLENES	184	PPB	10	D		
TOTAL BTEX	582	PPB				

The Surrogate Recovery was at 92.8 for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

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

Narrative: _____

Approved By: _____

Date: _____

970512, 6/9/97



WELL DEVELOPMENT AND PURGING DATA

☒ Development
☐ Purging

Well Number MW-1

Serial No. WDPD-

Page 1 of 1

Project Name EPFS G-w Pits

Project Manager Cory Chang

Project No. 17520

Client Company EL PASO FIELD SERVICES

Phase Task No. 6003-77

Site Name K-S1-LD244

Site Address SAN JUAN COUNTY

Development Criteria

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

Methods of Development

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

Water Volume Calculation

Initial Depth of Well (feet) 23.41 TBR
Initial Depth to Water (feet) 12.08 TBR
Height of Water Column in Well (feet) 11.33
Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume In Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing	11.33	7.40	37
Gravel Pack			
Drilling Fluids			
Total			37

Instruments

- Serial No. (if applicable) _____
- ☒ pH Meter Oyster
☐ DO Monitor _____
☒ Conductivity Meter Oyster
☒ Temperature Meter Oyster
☐ Other _____

Water Disposal

ON ground onsite

Water Removal Data

Date	Time	Development Method	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gallons)		Temperature (°C)	pH	Conductivity (mmhos/cm)	Dissolved Oxygen (mg/L)	Comments
						Increment	Cumulative					
5/29/97	1250	X				5	5	19.3	7.15	1140		DARK BROWN
5/29/97	1255	X				5	10	15.9	7.55	1240		DARK BROWN
5/29/97	1300	X				5	15	15.9	7.68	1290		DARK BROWN
5/29/97	1310	X				5	20	15.4	7.82	1350		DARK BROWN
5/29/97	1315	X				5	25	15.4	7.82	1330		BROWN
5/29/97	1320	X				5	30	14.4	7.88	1350		BROWN
5/29/97	1325	X				5	35	15.0	7.99	1330		BROWN
5/29/97	1333	X				5	40	14.8	8.03	1330		BROWN

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

Comments

Robert Shumaker

Developer's Signature(s) _____

Date 5.29.97

Reviewer _____

Date _____

Location No. MW-1

WATER SAMPLING DATA

Serial No. WSD

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 5-29-97Project Name EPFS Gw Pits Project No. 17520Project Manager Cory Chance Phase Task No. 6003-77Site Name K-S1-LD244

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) 22 minInitial Water Depth (feet) 12.08Nonaqueous Liquids Present (Describe) NONE

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comment Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (ft)	Bail	Final Water Depth (ft)	

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

Sample Containers

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); ... = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
BTEX	Z	V	40		X	H	X		SAMPLED AT 1355

Filter Type NONE Chain-of-Custody Form Number EPFS

Comments _____

Signature [Signature] Date 5-29-97 Reviewer _____ Date _____



A 2033

CHAIN OF CUSTODY RECORD

Project No.		Project Name		Requested Analysis		Remarks	
Samplers: (Signature)		Date: 7-22-97		Type and No. of Sample Containers		Preservation Technique	
Date	Time	Comp.	GRAB	Sample Number	BT	GC	GC/MS
7/22/97	1300		X	9707200	400	X	X
7/22/97	1300		X		400	X	X
[The following rows are crossed out with a diagonal line]							
Relinquished by: (Signature) <i>Ernie Bird</i> Date/Time 7/23/97 1223 Received by: (Signature) Date/Time							
Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time							
Relinquished by: (Signature) Date/Time Received for Laboratory by: (Signature) <i>Mark Hager</i> Date/Time 7/23/97 1000 Remarks:							
Carrier Co:				Date Results Reported / by: (Signature)			
Air Bill No.:							



8/7/97

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	970700
MTR CODE SITE NAME:	LD244	K-51 Line Drip MW-1
SAMPLE DATE TIME (Hrs):	7/22/97	1323
PROJECT:	Sample 4 - 1st Quarter	
DATE OF BTEX EXT. ANAL.:	7/23/97	7/23/97
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	81.9	PPB				
TOLUENE	117	PPB				
ETHYL BENZENE	10.2	PPB				
TOTAL XYLENES	92.9	PPB				
TOTAL BTEX	302	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 89.5 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By:

John Tatchell

Date:

7/29/97



8/7/97

Field Services Laboratory
Analytical Report

SAMPLE IDENTIFICATION

EPFS LAB ID:	970700
DATE SAMPLED:	07/22/97
TIME SAMPLED (Hrs):	1323
SAMPLED BY:	D. Bird
MATRIX:	Water
METER CODE:	LD244
SAMPLE SITE NAME:	Ojito Pipeline
SAMPLE POINT:	K-51 Line Drip MW-1

FIELD REMARKS:

GENERAL CHEMISTRY WATER ANALYSIS RESULTS

PARAMETER	RESULT	UNITS	DATE ANALYZED
Laboratory pH	8.0	Units	07/23/97
Alkalinity as CO_3	0.0	PPM	07/23/97
Alkalinity as HCO_3	608	PPM	07/23/97
Calcium as Ca	29	PPM	07/23/97
Magnesium as Mg	5	PPM	07/23/97
Total Hardness as CaCO_3	93	PPM	07/23/97
Chloride as Cl	8	PPM	07/23/97
Sulfate as SO_4	339	PPM	07/23/97
Fluoride as F	0.9	PPM	07/23/97
Nitrate as $\text{NO}_3\text{-N}$	<0.3	PPM	07/23/97
Nitrite as $\text{NO}_2\text{-N}$	<0.3	PPM	07/23/97
Ammonium as NH_4^+	<0.1	PPM	07/23/97
Phosphate as PO_4	<0.3	PPM	07/23/97
Potassium as K	0.1	PPM	07/23/97
Sodium as Na	387	PPM	07/23/97
Total Dissolved Solids	1,100	PPM	07/23/97
Conductivity	1,584	umhos/cm	07/23/97
Anion/Cation %	3.9%	%, <5.0 Accepted	07/25/97

Lab Remarks:

Reported By: Indo

Approved By: John Tardi

Date: 7/29/97



FIELD SERVICES LABORATORY
ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	970700
SAMPLE DATE:	07/22/97
SAMPLE TIME (Hrs):	1323
SAMPLED BY:	D. Bird
MATRIX:	Water
METER CODE:	LD244
SAMPLE SITE NAME:	Ojito Pipeline
SAMPLE POINT:	K-51 Line Drip MW-1

REMARKS:

RESULTS

PARAMETER	TOTAL RESULT (mg/L)	N. M. WQCC LIMIT (mg/L)
ARSENIC	<0.004	0.100
BARIUM	0.10	1.00
CADMIUM	<0.0002	0.010
CHROMIUM	<0.004	0.050
LEAD	<0.003	0.050
MERCURY	<0.0002	0.002
SELENIUM	<0.011	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 Latch

Date: 9-8-97



QUALITY CONTROL REPORT

Sample ID: 970700
Date Reported: 08/28/97

STANDARD REFERENCE MATERIAL

Analyte	Found Result (mg/L)	Known Value (mg/L)	% Recovery
Arsenic	0.031	0.032	94.4%
Barium	0.061	0.065	94.6%
Cadmium	0.0012	0.0012	103%
Chromium	0.008	0.007	103%
Lead	0.013	0.012	108%
Mercury	0.0041	0.0046	89.3%
Selenium	0.040	0.041	98.8%
Silver	0.0066	0.0068	97.6%

DUPLICATE ANALYSIS (mg/L)

Analyte	Original Sample Result	Duplicate Sample Result	% RPD
Arsenic	0.0078	0.0077	1.3%
Barium	0.222	0.216	2.7%
Cadmium	ND	ND	NA
Chromium	0.014	0.014	2.6%
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	0.0078	0.118	0.100	110%
Barium	0.222	1.247	1.00	94.2%
Cadmium	ND	0.0101	0.010	101%
Chromium	0.014	0.064	0.050	101%
Lead	ND	0.044	0.050	88.3%
Mercury	ND	0.0018	0.0020	89.0%
Selenium	ND	0.060	0.050	117%
Silver	ND	0.0550	0.050	110%

METHOD BLANK

Analyte	Found Result (mg/L)	Detection Level (mg/L)
Arsenic	ND	0.004
Barium	ND	0.019
Cadmium	ND	0.0002
Chromium	ND	0.004
Lead	ND	0.003
Mercury	ND	0.0002
Selenium	ND	0.011
Silver	ND	0.0004

ND: Not Detected at stated detection level.

NA: Not Applicable.

Reported By: mh

Approved By: John Lander

Date: 9-8-97



Well Number 2245-1
Meter Code L0244

Site Name K-5/ CINE DRIP

- | | |
|-------------------------------------|--|
| ☒ | 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) 23.00
Initial Depth to Water (feet) 13.38
Height of Water Column in Well (feet) 9.72

Diameter (inches): Well 4 Gravel Pack

Instruments

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

Water Disposal

KUTZ SEPARATOR

[illegible]

Comments

Developer's Signature

Date 7-22-97 Reviewer

John F. Elder.

Date 7/29/91

CHAIN OF CUSTODY RECORD

Project No.	Project Name		Date		Sample Number		Remarks	
Samplers: (Signature)	Date	Time	Comp.	GRAB	Date	Time	Sample Number	Remarks
<i>Dennis Bied</i>	10/25/97	1353		X	10/25/97	1353	971124	K-5/ LINE DRIP MW-1
Requested Analysis Preservation Technique Type and No. of Sample Containers								
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Date/Time	
<i>Dennis Bied</i>			10/25/97 1817					
Relinquished by: (Signature)			Date/Time		Received by: (Signature)		Date/Time	
Relinquished by: (Signature)			Date/Time		Received for Laboratory by: (Signature)		Remarks:	
					<i>Marlon Hopper</i>		10/22/97 0930	
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:	N/A	971124
MTR CODE SITE NAME:	LD244	K-51 Line Drip
SAMPLE DATE TIME (Hrs):	10/21/97	1253
PROJECT:	Sample 4 2nd Quarter	
DATE OF BTEX EXT. ANAL.:	10/23/97	10/23/97
TYPE DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	6.01	PPB				
TOLUENE	1.35	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	4.88	PPB				
TOTAL BTEX	12	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 92.1 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: _____

10-27-97

971124BTEXMW,10/24/97



☐	Development
☒	Purging

Well Number MR

Meter Code **LD244**

Development Criteria

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

Methods of Development

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

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 73.00

Initial Depth to Water (feet) 12.71 15.98

Height of Water Column in Well (feet) 10.27

Diameter (Inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		6.8	22.4
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- | | |
|-------------------------------------|--------------------|
| ☒ | pH Meter |
| ☐ | DO Monitor |
| ☒ | Conductivity Meter |
| ☒ | Temperature Meter |
| ☒ | Other <u>D.O.C</u> |

Water Disposal

KUTZ SEPARATOR

Water Removal Data

[illegible]

Comments

Developer's Signature Terrence Bird

Date 10/21/97

Reviewer

John Fells

Date _____

65-27-97