

3R - 177

REPORTS

DATE:

July 1997



November 5, 1997

Certified Mail

**Return Receipt Nos. P 532 649 088
P 532 649 089**

RECEIVED

NOV 11 1997

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

Environmental Bureau
Oil Conservation Division

Re: Request for Closure of Eleven Groundwater Locations

Dear Mr. Olson:

I have enclosed closure packages for eleven groundwater locations that were identified during our pit closure project. El Paso Field Services (EPFS) hereby requests your review and approval for closure of these sites.

I have included a summary listing of the eleven locations. If you have any questions regarding this information, please call me at 505/599-2141.

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

Groundwater Locations
Request for Closure, 11/97

Meter/Line #	Location/Line Name	LTR	Sec	TN	RG	Land Type
74943	NM COM G1	P	36	30	10	1 - State
LD102	2C-22 #1 LINE DRIP	N	35	24	06	2 - Federal
94180	SALAZAR G 34-1	K	34	25	06	2 - Federal
89230	JOHNSTON FEDERAL #3A	I	12	30	09	2 - Federal
73079	Mae Gail Com #1	E	24	29	11	4 - Fee
70862	MCGRATH #1	F	07	30	11	4 - Fee
93156	MARY ACKROYD #1	J	18	30	11	4 - Fee
93828	JACQUEZ #3	E	25	30	09	4 - Fee
94984	ANDERSON GAS COM A#1 PC	C	28	29	10	4 - Fee
93296	GALLEGOS CANYON UNIT 188E	B	30	29	12	4 - Fee
93462	GALLEGOS CANYON UT 145 E	D	26	29	12	4 - Fee

} Filed
individually
in
case files

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

Pit Closure Report

July 1997

RECEIVED

NOV 11 1997

Environmental Bureau
Oil Conservation Division

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520

PHILIP
ENVIRONMENTAL

Closure Checklist

Meter Code

93462

Summary
Site Map
Site Assessment Sheet

☒
☒
☒

Phase I Excavation

Y

closure form
soil analytical results
soil chain-of-custody
groundwater analytical results
groundwater chain-of-custody

☒
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Phase II Soil Boring

Y

boring log
soil analytical results
soil chain-of-custody
well installation form
development form
groundwater analytical
groundwater chain-of-custody

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Phase III Excavation

closure form
soil analytical results
soil chain-of-custody
groundwater analytical
groundwater chain of-custody

☐
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Recon/Geoprobe

Y

groundwater analytical
soil-gas analytical

☒
☐

If item boxes are not checked they are not applicable



Environmental Services Group
Southern Region

Gallegos Canyon Unit # 145 E
Meter Code 93462

Pit was excavated to 12 feet beneath ground surface. Sandstone was encountered at approximately 12 feet. The headspace soil reading from the excavation bottom was 364 parts per million. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX - 55.2 mg/kg, TPH - 3000 mg/kg.

One soil boring was completed and no monitoring well was installed. No soil sample was collected due to encountering shallow groundwater.

A Geoprobe survey was conducted and groundwater samples were collected. Groundwater analytical results were as follows:

PZ-1: benzene - <1 ppb, toluene - 8.5 ppb, ethyl benzene - 2.85 ppb, total xylenes - 70 ppb.

PZ-3: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

PH-1: benzene - <1 ppb, toluene - 2.59 ppb, ethyl benzene - <1 ppb, total xylenes - 1.21 ppb.

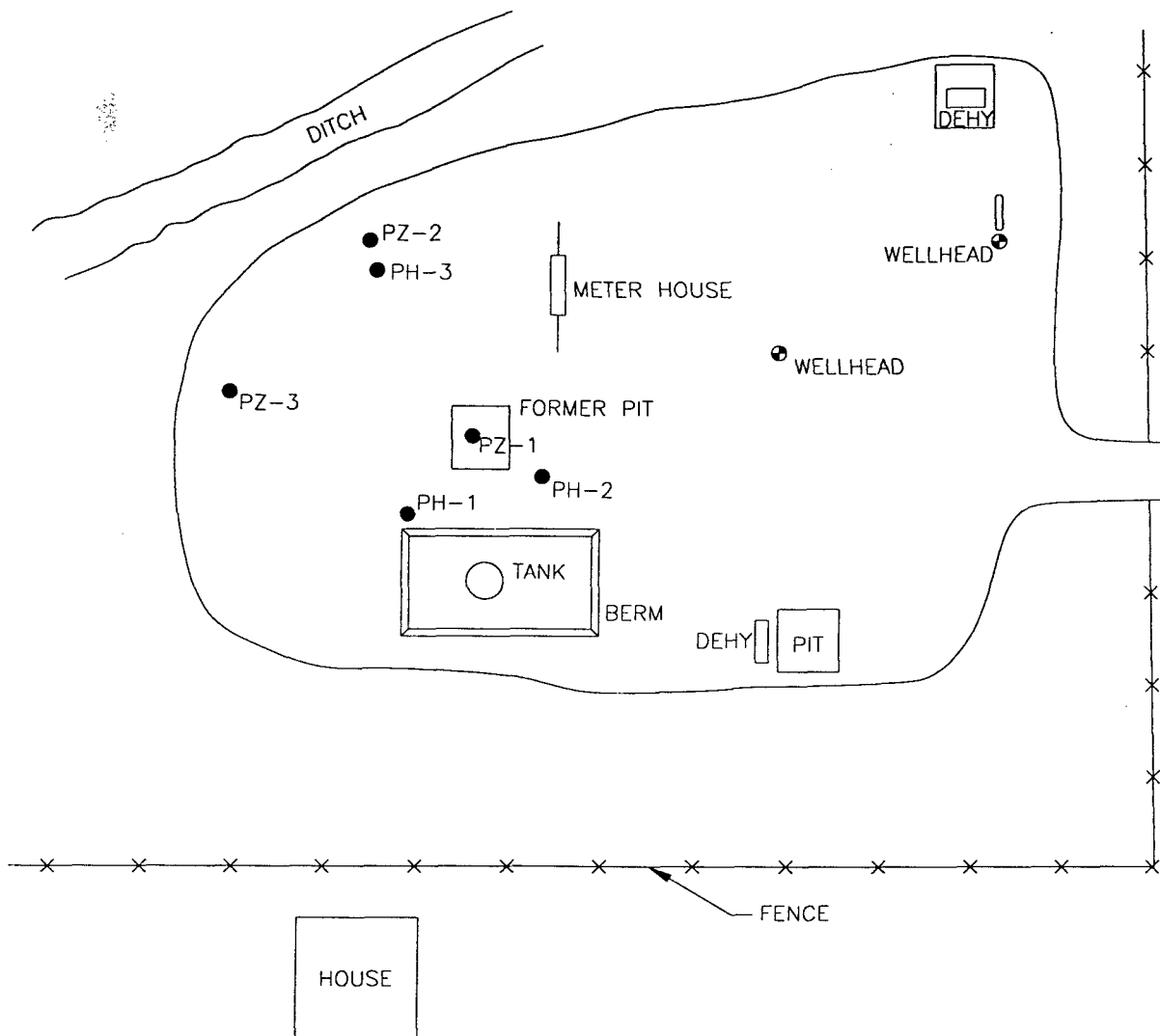
PH-2: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

PH-3: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

This site is ready for closure based on the following:

- The pit was excavated to sandstone.
- Groundwater samples were below standards up and down gradient of the former pit, and from the center of the former pit.





LEGEND

- PH-1 APPROXIMATE PROBE HOLE LOCATION AND NUMBER

NOT TO SCALE



COL 16297C-001

PHILIP
ENVIRONMENTAL

TITLE:

Gallegos Canyon Unit 145E
93462

DWN:

TMM

DES.:

TMM

PROJECT NO.:

16297

EPFS GW PITS

CHKD:

CC

APPD:

CC

DATE:

7/17/97

REV.:

0

Figure 1

FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: <u>93462</u> Location: <u>GALLEGOS CANYON UNIT #145E</u> Operator #: <u>0203</u> Operator Name: <u>AMOCO</u> P/L District: <u>KUTZ</u> Coordinates: Letter: <u>D</u> Section <u>26</u> Township: <u>29</u> Range: <u>12</u> Or Latitude _____ Longitude _____ Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____ Site Visit Date: <u>4.5.94</u> Run: <u>02</u> <u>33</u>
SITE ASSESSMENT	NMOCD Zone: Inside Land Type: BLM ☐ (From NMOCD Vulnerable State ☐ Maps) Zone ☒ Fee ☒ Outside ☐ Indian _____ Depth to Groundwater Less Than 50 Feet (20 points) ☐ 50 Ft to 99 Ft (10 points) ☒ Greater Than 100 Ft (0 points) ☐ 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? ☒ YES (20 points) ☐ NO (0 points) Horizontal Distance to Surface Water Body Less Than 200 Ft (20 points) ☐ 200 Ft to 1000 Ft (10 points) ☐ Greater Than 1000 Ft (0 points) ☒ Name of Surface Water Body _____ (Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds) TOTAL HAZARD RANKING SCORE: <u>30</u> POINTS
REMARKS	Remarks : <u>TWO PITS ON LOCATION. WILL CLOSE ONLY ONE. PIT</u> <u>IS DRY. LOCATION IS ON NORTH SIDE OF HWY. 69 JUST</u> <u>BEHIND A COUPLE OF HOUSES.</u>

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93462 Location: Gallegos Canyon Unit # 145E
 Coordinates: Letter: O Section 26 Township: 29 Range: 12
 Or Latitude _____ Longitude _____
 Date Started : 4-27-94 Area: 02 Run: 33

FIELD OBSERVATIONS

Sample Number(s): VW 36
 Sample Depth: 12' Feet
 Final PID Reading 364 PID Reading Depth 12 Feet
 Yes No
 Groundwater Encountered ☐ (1) ☒ (2) Approximate Depth _____ Feet

CLOSURE

Remediation Method :
 Excavation ☒ (1) Approx. Cubic Yards 40
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☐ (3)
 Soil Disposition:
 Envirotech ☐ (1) ☒ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 4-27-94 Pit Closed By: BEI

REMARKS

Remarks : No line markers. Large Pit to the West has water standing in it - 12' hit sand stone Pulled sample.

Signature of Specialist: Vale Wilson

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT****SAMPLE IDENTIFICATION**

	Field ID	Lab ID
SAMPLE NUMBER:	VW36	945024
MTR CODE SITE NAME:	93462	Gallegos Canyon Unit #145E
SAMPLE DATE TIME (Hrs):	4/27/94	1335
PROJECT:	Phase I Drilling Excavation	
DATE OF TPH EXT. ANAL.:	4/28/94	4/28/94
DATE OF BTEX EXT. ANAL.:	5/9/94	5/10/94
TYPE DESCRIPTION:	VC	Gray coarse sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.5	MG/KG				
TOLUENE	<0.5	MG/KG				
ETHYL BENZENE	4.20	MG/KG				
TOTAL XYLENES	51.0	MG/KG				
TOTAL BTEX	55.2	MG/KG				
TPH (418.1)	3,000	MG/KG			2.05	28
HEADSPACE PID	364	PPM				
PERCENT SOLIDS	89.0	%				

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

The Surrogate Recovery was at 96.0 for this sample All QA/QC was acceptable.

Narrative:

ATI analyzed this sample.

DF = Dilution Factor Used

Approved By: John Larch

INGVZPIT.XLS

Date: 5/21/97

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER		PROJECT NAME		PROJECT ANALYSIS		REQUESTED ANALYSIS		CONTINUED LABORATORY P.O. NUMBER	
LABORATORY (Signature)		DATE		SAMPLE NUMBER		TOTAL CONTAINERS		SAMPLE TYPE	
TPH EPA 418.1		BTEX EPA 8020							
LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER		TOTAL CONTAINERS		SAMPLE TYPE	
5022	4/27/04	0820	Soil	1	1	1	1	1	1
5023	4/27/04	1145	Soil	1	1	1	1	1	1
5024	4/27/04	1335	Soil	1	1	1	1	1	1
5025	4/27/04	1540	Soil	1	1	1	1	1	1
REMARKS									
wet soil									
30									
31									
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100									

REUNQUISHED BY: (Signature) Valde Wilcox

REUNQUISHED BY: (Signature) Valde Wilcox

DATE/TIME 4/27/04 1611

DATE/TIME 4/28/04 0948

RECEIVED BY: (Signature) Steve T. Pope

RECEIVED BY: (Signature) Steve T. Pope

DATE/TIME 3406

DATE/TIME 3206

RECEIVED BY: (Signature) Steve T. Pope

RECEIVED BY: (Signature) Steve T. Pope

DATE/TIME 3406

DATE/TIME 3206

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

505 509 2144

FAX: 505-599-2261

Phase II Soil Boring

RECORD OF SUBSURFACE EXPLOSION

PHILIP ENVIRONMENTAL

90 Monroe Road

Albuquerque, New Mexico 87401

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

Borehole # BH-1

Well #

Page 1 of 1

Project Name

EPNG PITS

Project Number

14509

Phase

6000 77

Project Location

Gallegos Canyon Unit #145 E 93462

Well Logged By

CM Chance

Personnel On-Site

K Padilla, D. Charlie

Contractors On-Site

Client Personnel On-Site

Elevation

Borehole Location

OD - S26 - T29 - R12

GWL Depth

9.7' BGS

Logged By

CM CHANCE

Drilled By

K Padilla

Date/Time Started

11/1/95 - 0849

Date/Time Completed

11/1/95 - 0940

Drilling Method

4 1/4" ID HSA

Air Monitoring Method

PID, CGI

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 BZ BH HS			Drilling Conditions & Blow Counts
0				Backfill to 12'						
5										
10										
15				CTNBS - Gray silty SAND/F-sand, to med, wet, TOB 14'			0	3	NA	-Cobbles @ ~9' -CTNBS V. moist @ ~12'
20										
25										
30										
35										
40										

Comments:

No sample due to encountering GW @ ~9.7' BGS. Will not install well because GW < 20' BGS. Poured bentonite to ~7' & grouted to surface

Geologist Signature

CM Chance

RECON®/Geoprobe

SITE ACTIVITIES

21-Feb-97

Meter/Line #: 93462

Location/Line #: Gallegos Canyon Unit # 145E

MW#:

Depth to GW:

Depth to Product:

Product Thickness:

Date: 11/19/96

Activity: Geoprobe

Comments: Install 3 piezos and 3 probeholes. PZ1 in center of former pit.



FIELD SERVICES LABORATORY

ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

Field ID

Lab ID

SAMPLE NUMBER:

CMC258

948019

MTR CODE | SITE NAME:

93462

Gallegos Canyon Unit #145E

SAMPLE DATE | TIME (Hrs):

11/19/96

1330

PROJECT:

Geoprobe

DATE OF BTEX EXT. | ANAL.:

11/28/96

11/28/96

TYPE | DESCRIPTION:

PZ1

Water

Field Remarks:

RESULTS

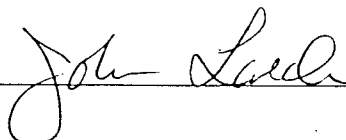
PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	8.50	PPB				
ETHYL BENZENE	2.85	PPB				
TOTAL XYLENES	70.0	PPB				
TOTAL BTEX	81.4	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 97.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By:



Date:

12/3/96



EL PASO FIELD SERVICES



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC259	948020
MTR CODE SITE NAME:	93462	Gallegos Canyon Unit #145E
SAMPLE DATE TIME (Hrs):	11/19/96	1500
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	11/28/96	11/28/96
TYPE DESCRIPTION:	PZ3	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 96.7 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: _____

Date: 12/3/96



A



El Paso
Natural Gas Company

CHAIN OF CUSTODY RECORD

[illegible]



EL PASO FIELD SERVICES



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID CMC260	Lab ID 948021
MTR CODE SITE NAME:	93462	Gallegos Canyon Unit #145E
SAMPLE DATE TIME (Hrs):	11/20/96	1425
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	11/28/96	11/28/96
TYPE DESCRIPTION:	PH1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	2.59	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	1.21	PPB				
TOTAL BTEX	3.80	PPB				

—BTEX is by EPA Method 8020 —

The Surrogate Recovery was at 95.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative: _____

Approved By: John Zeller

Date: 12/3/96

EL PASO FIELD SERVICES



FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC261	948022
MTR CODE SITE NAME:	93462	Gallegos Canyon Unit #145E
SAMPLE DATE TIME (Hrs):	11/20/96	1335
PROJECT:	Geoprobe	
DATE OF BTEX EXT. ANAL.:	11/28/96	11/28/96
TYPE DESCRIPTION:	PH2	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 95.5 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John L. Latta

Date: 12/3/96

EL PASO FIELD SERVICES



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

Field ID

Lab ID

SAMPLE NUMBER:

CMC262

948023

MTR CODE | SITE NAME:

93462

Gallegos Canyon Unit #145E

SAMPLE DATE | TIME (Hrs):

11/20/96

1450

PROJECT:

Geoprobe

DATE OF BTEX EXT. | ANAL:

11/28/96

11/28/96

TYPE | DESCRIPTION:

PH3

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 94.5 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By:

Date:

12/3/96



A 2333

CHAIN OF CUSTODY RECORD

[illegible]

EPFS

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 948015 - 948023; 948026 - 948034

QA/QC for 11/28/96 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
ICV LA-52589 50 PPB					YES	NO
					RANGE	
Benzene	Standard	50.0	48.2	96.4	75 - 125 %	X
Toluene	Standard	50.0	48.1	96.2	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.7	95.4	75 - 125 %	X
m & p - Xylene	Standard	100	95.3	95.3	75 - 125 %	X
o - Xylene	Standard	50.0	47.6	95.2	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
LCS LA-45476 25 PPB					YES	NO
					RANGE	
Benzene	Standard	25.0	23.8	95.2	39 - 150	X
Toluene	Standard	25.0	24.3	97.2	46 - 148	X
Ethylbenzene	Standard	25.0	24.4	97.6	32 - 160	X
m & p - Xylene	Standard	50.0	49.2	98.4	Not Given	X
o - Xylene	Standard	25.0	24.4	97.6	Not Given	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
CCV LA-52589 50 PPB					YES	NO
					RANGE	
Benzene	Standard	50.0	48.0	96.0	75 - 125 %	X
Toluene	Standard	50.0	48.4	96.8	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.5	95.0	75 - 125 %	X
m & p - Xylene	Standard	100	94.8	94.8	75 - 125 %	X
o - Xylene	Standard	50.0	47.7	95.4	75 - 125 %	X
SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
CCV LA-52589 50 PPB					YES	NO
					RANGE	
Benzene	Standard	50.0	45.8	91.6	75 - 125 %	X
Toluene	Standard	50.0	45.5	91.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	45.2	90.4	75 - 125 %	X
m & p - Xylene	Standard	100	89.4	89.4	75 - 125 %	X
o - Xylene	Standard	50.0	45.3	90.6	75 - 125 %	X

Narrative: Acceptable.

EL PASO FIELD SERVICES LAB
QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 948015 - 948023; 948026 - 948034

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
948015					RANGE	
Benzene	Matrix Duplicate	98.6	96.4	2.26	+/- 20 %	X
Toluene	Matrix Duplicate	341	332	2.67	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	8.19	7.99	2.47	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	131	127	3.10	+/- 20 %	X
o - Xylene	Matrix Duplicate	35.5	34.6	2.57	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 948015					RANGE	
Benzene	50	98.6	146	94.8	75 - 125 %	X
Toluene	50	341	372	62.0	75 - 125 %	NA
Ethylbenzene	50	8.19	55.8	95.2	75 - 125 %	X
m & p - Xylene	100	131	220	89.0	75 - 125 %	X
o - Xylene	50	35.5	81.8	92.6	75 - 125 %	X

Narrative: Toluene exceeded calibration curve.

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: mda

Approved By: John Tule

Date: 12/3/94