

REPORTS

DATE: July, 1997

SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

Pit Closure Report

July 1997



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Environmathan Garosu Oil Conservation Division

Prepared For

El Paso Field Services Farmington, New Mexico

Project 17520



Closure Checklist

Meter Code

74943

Summary Site Map Site Assessment Sheet



Phase I Excavation

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

Phase II Soil Boring

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

Phase III Excavation

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

Recon/Geoprobe

groundwater analytical soil-gas analytical

If item boxes are not checked they are not applicable







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Environmental Services Group Southern Region

New Mexico Com G1 Meter Code 74943

Pit was excavated to 12 feet beneath ground surface. The headspace soil reading from the excavation bottom was 200 parts per million. Soil analytical were as follows; benzene - 3.62 mg/kg, total BTEX - 250 mg/kg, TPH - 3,720 mg/kg.

One soil boring was completed and a monitoring well was installed. A soil sample was collected from 15-17 feet beneath ground surface. Soil boring analytical are as follows: benzene <0.03 mg/kg, total BTEX - 10 mg/kg, TPH - 267 mg/kg. Groundwater was encountered at 18.7 feet beneath ground surface and a monitoring well was installed. Initial groundwater analytical were as follows: benzene - 5.52 ppb, toluene - 33.3 ppb, ethyl benzene - <2.5 ppb, total xylenes - 30.3 ppb.

The pit was re-excavated to 21 feet beneath ground surface and the monitoring well was removed. The headspace soil reading from the excavation bottom was 12.5 parts per million. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX - <3 mg/kg, TPH - <10 mg/kg.

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

PZ1: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb. PZ2: benzene - <1 ppb, toluene - 1.2 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb. PZ3: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb. PH4: benzene - <1 ppb, toluene - 3.55 ppb, ethyl benzene - <1 ppb, total xylenes - 3.77 ppb.

This site is ready for closure based on the following:

- Initial groundwater sample was below standards
- Re-excavation soil samples were below standards.
- Geoprobe groundwater samples from the center of the former pit and downgradient of the former pit were below standards.



FIELD PIT SITE ASSESSMENT FORM

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	GENERAL	Meter: 74943 Location: NM COM G Operator #: 0263 Operator Name: Iexaca P/L District: BloomFielf Coordinates: Letter: P Section 36 Township: 30 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 114/95 Area: 10 Run: &3
		NMOCD Zone:Land Type:BLM(1)(From NMOCDState(2)Maps)Inside(1)Fee(3)Outside(2)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)
	ESSMENT	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)
	SITE ASS	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 Vaca Campon (off of San Juan R.)
		(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: POINTS
	RKS	Remarks : Redline Book: Inside Vulnerable Zone Topo: I nide
:	MAI	lpit. Will close. Liquid inpit
	RE	

	ORIGINAL PIT LOCATION
	Original Pit : a) Degrees from North <u>130°</u> Footage from Wellhead <u>10</u> b) Length : <u>17′</u> Width : <u>16′</u> Depth : <u>4′</u>
ORIGINAL PIT LOCATI	Wellhad User 130° 130°
	Remarks: <u>Pistures@0246.hr 5-8 roll]</u>
REMARKS	

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

	GENERAL	Meter: <u>74943</u> Location: <u>NM Com G1</u> Coordinates: Letter: <u>P</u> Section <u>36</u> Township: <u>30</u> Range: <u>10</u> Or Latitude Longitude Date Started : <u>1-31-95</u> Run: <u>10</u> <u>83</u>
6	FIELD OBSERVATIONS	Sample Number(s): <u>KP 401</u> Sample Depth: <u>12</u> Feet Final PID Reading <u>200</u> Yes No Groundwater Encountered Y Approximate Depth <u>Feet</u>
	CLOSURE	Remediation Method : X Approx. Cubic Yards Excavation X Approx. Cubic Yards Onsite Bioremediation Image: Comparison Image: Comparison Backfill Pit Without Excavation Image: Comparison Image: Comparison Soil Disposition: Image: Comparison Image: Comparison Envirotech Image: Comparison Image: Comparison Other Facility Image: Name: Image: Comparison Image: Comparison Pit Closure Date: Image: Image: Comparison Image: Comparison Pit Closure Date: Image: Comparison Image: Comparison
	REMARKS	Remarks: <u>Some Like markers</u> . <u>Started Remediating to 12'</u> <u>Soil TurNed Dark gray with a Hic ordor</u> . <u>At 12'</u> <u>Bottom of</u> <u>Pit Brown Looking with HC. ordor</u> . <u>All Four sides</u> <u>of Pit Black Looking</u> with <u>Hc. ordor</u> . Signature of Specialist: <u>Kully Padilk</u> .

EL PASO FIELD SERVICES

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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP401	946620
MTR CODE SITE NAME:	74943	NM COM G1
SAMPLE DATE TIME (Hrs):	1/31/95	1115
PROJECT:	Phas	el Drilling Excava FICN
DATE OF TPH EXT. ANAL.:	2/2/95	2/2/95
DATE OF BTEX EXT. ANAL.:	2/1/95	2/2/95
TYPE DESCRIPTION:	VC	Brown sand and clay

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS		QUALIFIE	RS	
			DF	0	M(g)	V(ml)
BENZENE	3.62	.∕IG/KG				
TOLUENE	82.7	MG/KG				
ETHYL BENZENE	12.4	MG/KG				
TOTAL XYLENES	151	MG/KG				
TOTAL BTEX	250	MG/KG				
TPH (418.1)	3,720	MG/KG	·····		1.93	28
HEADSPACE PID	200	РРМ				
PERCENT SOLIDS	88.0	%	, <u></u> ,,,,,,	· .		
	TPH is by EPA Method 4	18.1 and BTEX is by EPA Me	sthod 8020			
The Surrogate Recovery was at Narrative:	84.5	for this sample	All QA/QC	was accepta	ble.	
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DF = Dilution Factor Used

Approved By: _____

John Fallh

INGVZPIT.XLS Date: 2-22-95





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CONTRACT LABORATORY P. O. NUMBER		REMARKS									DATE/TIME RECEIVED BY (Signature)	4/43+10/0	DATE/TIME TITELETVED OF LABORATIONY BY: MODIAL // 0)		EL PASO NATURAL GAS COMPANY P. O. ROX 4990	FARMINGTON, NEW MEXICO 87490	FM-08-0565 A (Rev. 05-94)
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ington, New Mexico 87401			-	Project Name E	PNGPits	
/320-2262 PAX 1606) 326-2388				Project Number 14	Cof Phase	6000 77
				Project Location Ne	~ Mexico Com G	1 74945
					- 44 0 1	
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GWI Depth				Contractors On-Site	M. Donahue, R. FA.	dille, F. Fil
Installed By K. Padilla				Client Personnel On-S	to	_
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Date/Time Completed						
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Casing		INA				
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Bottom of Concrete		NA		1		1
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10p of Pertonne Seal	INDR	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>		DX Top of Gravel Par	* 8. <i>5</i>	1
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FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

_	Field ID	Lab ID	
SAMPLE NUMBER:	CMC20	946831	
MTR CODE SITE NAME:	74943	NM COM G1	
SAMPLE DATE TIME (Hrs):	5/23/95	1129	
PROJECT:	Phase II Drilling		
DATE OF TPH EXT. ANAL.:	5/25/95	5/251995	
DATE OF BTEX EXT. ANAL.:	5/30/95	6/1/95	
TYPE DESCRIPTION:	VG	Brown sand and clay	

Field Remarks:

RESULTS PARAMETER RESULT UNITS QUALIFIERS DF M(g) V(ml) 0 BENZENE < 0.03 MG/KG TOLUENE 3.40 MG/KG ETHYL BENZENE 0.37 MG/KG TOTAL XYLENES 6.20 MG/KG TOTAL BTEX 10.0 MG/KG c/A SCI **TPH (418.1)** 267 MG/KG 1.96 28 150 **HEADSPACE PID** 803 PPM PERCENT SOLIDS % 86.0 -- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --The Surrogate Recovery was at 110 for this sample All QA/QC was acceptable. Narrative: ATI analyzod this sample DF = Dilution Factor Used Approved By: John Falch INGVZPIT.XLS Date: 6/8/95

Company	

CHAIN OF CUSTODY RECORD

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itte - Testing Labora	itory Canary · EPNG Lab Pink · F	ield Sampler								FM 08-0565 A (Re	, 05-94)

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EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID		
SAMPLE NUMBER:	SEK2	946842		
MTR CODE SITE NAME:	74943	NM COM G #1		
SAMPLE DATE TIME (Hrs):	5/30/95 1220			
PROJECT:	Phase II Dril	ling - Initial		
DATE OF BTEX EXT. ANAL.:	6/1/95	6/1/95		
TYPE DESCRIPTION:	Monitor Well	Water		

Field Remarks:

RESULTS PARAMETER RESULT UNITS QUALIFIERS DF 0 BENZENE 5.52 **PPB** TOLUENE 33.3 PPB **ETHYL BENZENE** <2.5 **PPB** TOTAL XYLENES 30.3 PPB TOTAL BTEX 69.1 PPB

--BTEX is by EPA Method 8020 --

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

Narrative:

TDS = 4,200 pm

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pproved By:

Date: 6/7/95

946842,6/24/97

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EL PART MATURAL GAS - FIELD SERVICES LA

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

PIT PROJECT PHASE II Monitor Well Waters: 946841 to 946847

QA/QC for 6/01/95

MUTATORY DUPLICATES:

SAMPLE HJØBER	TYPE	SAMPLE RESULT (S) (PPB)	DUPLICATE RESULT (D) (PP8)	RPD		ACCEPTABLE	NC
946842					RANGE		
Benzene	2nd Run	5.52	5.45	1%	+/- 35 %	x	
Toluene	2nd Run	33.3	32.8	2%	+/- 35 %	x	
Ethyl benzene	2nd Run	0.79	0.80	1%	+/- 35 %	x	
Total Xylenes	2nd Run	30.3	29.7	2%	+/- 35 %	x	

Narrative: Acceptable.

LABORATORY CALIBRATION CHECKS, LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV 50 PPB_std	TYPE	KNOWN RESULT (PPB)	FOUND RESULT (PPB)	222	RANGE	AECEPTABLE YES NO
Benzene	Standard	50.0	45.8	91.6	75 - 125 %	X
Toluene	Standard	50.0	47.0	93.9	75 - 125 %	х
Ethyl benzene	Standard	50.0	46.0	92.0	75 - 125 %	х
Total Xylenes	Standard	150	140.4	93.6	75 - 125 %	x
SAIPLE		KNOWN	FOUND			
NUMBER	Түре	RESULT	RESULT	22		ACCEPTABLE
LCS		(PP8)	(PPB)			YES NO
50 PPB					RANGE	
enzene	Standard	50.0	44.8	90	39 - 150	x
Toluene	Standard	50.0	45.7	91	46 - 148	x
Ethyl benzene	Standard	50.0	44.0	88	32 - 160	x
Total Xylenes	Standard	150	134.9	90	Not Given	x

Harrative: Acceptable.

LABORATORY SPIKES:

SAMPLE NUMBER 946842	SPIKE ADDED (SA) PP8	SAMPLE RESULT (S) (PPB)	SP1KE SAMPLE RESULT (SR) (PP8)	2R	RANGE	ACCEPT: YES	ABLE NO
Benzene	50.0	5.52	45.2	79	75 - 125 %	x	
Toluene	50.0	33.3	78	89	75 - 125 %	x	
Ethyl benzene	50.0	0.79	45.0	88	75 - 125 %	X	
Total Xylenes	150	30.3	168	92	75 - 125 %	X	

arrative: Matrix interference problems with this sample.

LABORATORY , REAGENT AND TRIP BLANKS:

SAMPLE ID	SOURCE	Component (PPB)	STATUS
 Benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Toluene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Ethyl benzene	EPNG Water/MeOH	<2.5	ACCEPTABLE
Total Xylenes	EPNG Water/MeOH	<7.5	ACCEPTABLE

arrative: Acceptable!

Approved By: John Farden.

Date: 1-Jun-95

Phase III Excavation

6	FIELD PIT REMEDIATION/CLOSURE FORM/PHASE II
GENERAL	Meter: 74943 Location: <u>NM com G/</u> Coordinates: Letter: <u>P</u> Section <u>36</u> Township: <u>30</u> Range: <u>10</u> Or Latitude Longitude Date Started : <u>11-15-95</u> Area: <u>10</u> Run: <u>83</u>
OBSERVATIONS	Sample Number(s): <u>DSI32</u> Sample Depth: <u>21</u> Feet Final PID Reading <u>12.5</u> PID Reading Depth <u>21</u> Feet Yes No Groundwater Encountered [1] [X] (2) Approximate Depth Feet Final Dimensions: Length <u>45</u> Width <u>28</u> Depth <u>21</u>
CLOSURE	Remediation Method :Excavation \square (1) Approx. Cubic Yards $\underline{1304} \ u^{-1} \ \frac{1}{2} \ \frac{1}{45}$ Onsite Bioremediation \square (2)Backfill Pit Without Excavation \square (3)Soil Disposition:Overburden Cubic Yards $\underline{40} \ u^{-1} \ \frac{1}{2} \ \frac{1}{45}$ Envirotech \square (1) \square (3) TierraOther Facility \square (2)Name:Pit Closure Date: $\cancel{1-17-95}$ Pit Closed By: $\cancel{11} \ \cancel{12} \ \cancel{14} \ \cancel{15} \ 15$
	Signature of Specialist: Audios Schaplin



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

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS132	947784
MTR CODE SITE NAME:	74943	NM COM G #1
SAMPLE DATE TIME (Hrs):	11/15/95	1430
PROJECT:	Phase III	Excavation
DATE OF TPH EXT. ANAL.:	11/17/95	11/17/95
DATE OF BTEX EXT. ANAL.:	11/16/95	11/16/95
TYPE DESCRIPTION:	VG	Light brown clay

Field Remarks:

RESULTS PARAMETER RESULT UNITS QUALIFIERS DF M(g)V(ml) Q 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)** < 10 MG/KG 1.99 28 **HEADSPACE PID** 12.5 PPM PERCENT SOLIDS 85.3 % -- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --The Surrogate Recovery was at 91.0 for this sample All QA/QC was acceptable. Narrative:

DF = Dilution Factor Used John Lattle

Approved By:

(A

INGVZPIT.XLS Date: 1/21/95

Page of	CONTRACT LABORATORY P. O. NUMBER		REMARKS	1/24943 NM COM G-1							DATE/TIME RECEIVED BY: (Signature)	DATE/TIME RECEIVED/DE/LABOPATORY BY: (Signal.10)		EL PASO NATURAL GAS COMPANY	FARMINGTON, NEW MEXICO 87499	LAX: 000-004-2201
DY RECORD	EQUESTED ANALYSIS	bID	841						4	/	DUISHED BY: (Signature)	1. ((2.): 1	 RESULTS		-2023-52(60-	
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Z	956	DATE: 1.L° (S' - C/S' AL 20MB		<u>N5132.</u>							IME RECEIVED BY: (Signature	IME /730 (/1 c/ce /	SAMPLE RECEIPT REMA		CHARGE CODE	I Fiold Samulor
Natura SO Natura Scompany	24324 Pit Closure Project	PLERS: (Signature)	LABID DATE TIME MATRIX	17784 11.15.55 11/30 Soul							VOUISHED BY: (Signature) DATET	С	UESTED TURNAROUND TIME: JUTINERUSH	AIER CO.	:07	- Tastina Laburatory Canary - EPNG Lab Pink





SITE ACTIVITIES

21-Feb-97

-

Meter/Line #: 74943

Location/Line #: NM Com G #1

MW#:

Depth to GW:

Depth to Product:

Product Thickness:

Date: 10/24/96

Activity: Geoprobe

Comments: Install 3 piezos & 1 probe hole. PZ1 in center of pit





PASO FIELD SERVICES FIELD SERVICES LABORATORY **ANALYTICAL REPORT**

V

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC227	947951
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/24/96	1505
PROJECT:	Geop	robe
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PZ1	Water

Field Remarks:

	······································	RESULTS				
PARAMETER	RESULT	UNITS	DF	QUALIF	IERS	
BENZENE	<1	PPB				
TOLUENE	<1	РРВ			-	
ETHYL BENZENE	<1	РРВ				
TOTAL XYLENES	<3	РРВ				
TOTAL BTEX	<6	РРВ				
The Surrogate Recovery was at	97.6	–BTEX is by EPA Method % for this sample	8020 – All QA/QC	was accep	table.	

The Surrogate Recovery was at DF = Dilution Factor Used

Narrative:

John Darch Date: 16/30/46 Approved By: ____ 947950.XLS,10/29/96

EL PASO FIELD SERVICES FIELD SERVICES LABORATORY **ANALYTICAL REPORT PIT CLOSURE PROJECT**

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC228	947952
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/24/96	1620
PROJECT:	Geor	probe
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PH4	Water

Field Remarks:

)		RESULTS				
PARAMETER	RESULT	UNITS	DF	QUALIF	IERS	
BENZENE	<1	РРВ				
TOLUENE	3.55	РРВ				
ETHYL BENZENE	<1	РРВ				
TOTAL XYLENES	3.77	РРВ				
TOTAL BTEX	7.32	PPB				

-BTEX is by EPA Method 8020 --

The Surrogate Recovery was at DF = Dilution Factor Used

Narrative:

Approved By: _

John Lardon

94.2

% for this sample All QA/QC was acceptable.

947952.XLS,10/29/96

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EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC229	947953
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/25/96	1000
PROJECT:	Geor	probe
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PZ2	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS		QUALIF	IERS	
· · · · · · · · · · · · · · · · · · ·	<u></u>		DF	0		
BENZENE	<1	РРВ				
TOLUENE	1.20	РРВ				
ETHYL BENZENE	<1	РРВ				
TOTAL XYLENES	< 3	РРВ				
TOTAL BTEX	1.20	РРВ				

-BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 96.3 % for this sample All QA/QC was acceptable. DF = Dilution Factor Used

Narrative:

proved By: _____den forde

Date: 10/30/96

V

947953.XLS,10/29/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC230	947954
MTR CODE SITE NAME:	74943	NM Com G 1
SAMPLE DATE TIME (Hrs):	10/25/96	1015
PROJECT:	Geor	probe
DATE OF BTEX EXT. ANAL.:	10/28/96	10/28/96
TYPE DESCRIPTION:	PZ3	Water

Field Remarks:

RESULTS

PARAMETER	RESULT	UNITS		QUALIF	IERS	
			DF	0		
BENZENE	<1	РРВ	;			
TOLUENE	, <1	РРВ				
ETHYL BENZENE	<1	РРВ				
TOTAL XYLENES	<3	РРВ				
TOTAL BTEX	< 6	РРВ				

-BTEX is by EPA Method 8020 -

The Surrogate Recovery was at 97.1 % for this sample All QA/QC was acceptable. DF = Dilution Factor Used

Narrative:

Approved By: ______ Mr. Jeal Ch

Date: (0/30/96

947953.XLS,10/29/96

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Project No. Project Name			CUSTODY RECORD	Requested Analvsis		[
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Air Bill No.:						



QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 947950 - 947955

QA/QC for 10/28/96 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE		EXPECTED	ANALYTICAL		ACC	EPTAB	LE
NUMBER	TYPE	RESULT	RESULT	%R			
ICV LA-52589		PPB	PPB			YES	NO
50 PPB					RANGE		
Benzene	Standard	50.0	53.6	107	75 - 125 %	X	
Toluene	Standard	50.0	52.8	106	75 - 125 %	Х	
Ethylbenzene	Standard	50.0	52.8	106	75 - 125 %	Х	
m & p - Xylene	Standard	100	102	102	75 - 125 %	Х	
o - Xylene	Standard	50.0	53.0	106	75 - 125 %	X	
SAMPLE		EXPECTED	ANALYTICAL		ACC	CEPTAE	BLE
NUMBER	TYPE	RESULT	RESULT	%R			
LCS LA-45476		PPB	PPB	р. 1 ⁴ - 58		YES	NO
25 PPB					RANGE		
Benzene	Standard	25.0	26.9	108	39 - 150	Х	
) Toluene	Standard	25.0	26.4	106	46 - 148	Х	
Ethylbenzene	Standard	25.0	26.5	106	32 - 160	Х	
m & p - Xylene	Standard	50.0	50.7	101	Not Given	Х	
o - Xylene	Standard	25.0	26.7	107	Not Given	<u> </u>	
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SAMPLE		EXPECTED	ANALYTICAL		ACC	CPIAD	LE
SAMPLE NUMBER	ТҮРЕ	RESULT	RESULT	%R	ACC	CP IAD	
SAMPLE NUMBER CCV LA-52589	ТҮРЕ	RESULT	RESULT	%R	ACL	YES	NO
SAMPLE NUMBER CCV LA-52589 50 PPB	ТҮРЕ	RESULT	RESULT	%R	RANGE	YES	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene	TYPE Standard	EXPECTED RESULT PPB 50.0	ANALTHICAL RESULT PPB 52.0	%R 104	RANGE 75 - 125 %	YES	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene	TYPE Standard Standard	EXPECTED RESULT PPB 50.0 50.0	ANALTTICAL RESULT PPB 52.0 50.9	%R 104 102	RANGE 75 - 125 % 75 - 125 %	YES X	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene	TYPE Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0	ANALTHICAL RESULT PPB 52.0 50.9 51.0	%R 104 102 102	RANGE 75 - 125 % 75 - 125 % 75 - 125 %	YES X X X X	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene	TYPE Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100	ANALT HCAL RESULT PPB 52.0 50.9 51.0 97.1	%R 104 102 102 97.1	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 %	YES X X X X X	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene	TYPE Standard Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100 50.0	ANALTHICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3	%R 104 102 102 97.1 103	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 %	YES X X X X X X	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene SAMPLE	TYPE Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 100 50.0 EXPECTED	ANALTTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL	%R 104 102 102 97.1 103	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC	YES X X X X X EPTAB	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene SAMPLE NUMBER	TYPE Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100 50.0 EXPECTED RESULT	ANALTHICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT	%R 104 102 102 97.1 103 %R	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC	YES X X X X X EPTAB	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene SAMPLE NUMBER CCV LA-52589	TYPE Standard Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100 50.0 EXPECTED RESULT PPB	ANALYTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT PPB	%R 104 102 102 97.1 103 %R	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC	YES X X X X EPTAB	NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene SAMPLE NUMBER CCV LA-52589 50 PPB	TYPE Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100 50.0 EXPECTED RESULT PPB	ANALTTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT PPB	%R 104 102 102 97.1 103 %R	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC RANGE	YES X X X X X EPTAB	NO LE NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene SAMPLE NUMBER CCV LA-52589 50 PPB Benzene	TYPE Standard Standard Standard Standard Standard TYPE Standard	EXPECTED RESULT PPB 50.0 50.0 100 50.0 EXPECTED RESULT PPB 50.0	ANALTTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT PPB 51.8	%R 104 102 102 97.1 103 %R 104	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC RANGE 75 - 125 %	YES X X X X EPTAB YES	NO LE NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene o - Xylene SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene	TYPE Standard Standard Standard Standard TYPE Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100 50.0 EXPECTED RESULT PPB 50.0 50.0	ANALTTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT PPB 51.8 50.7	%R 104 102 102 97.1 103 %R 104 101	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC RANGE 75 - 125 % 75 - 125 %	YES X X X X X EPTAB	NO LE NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene o - Xylene SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylbenzene	TYPE Standard Standard Standard Standard Standard TYPE Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 100 50.0 EXPECTED RESULT PPB 50.0 50.0 50.0	ANALTTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT PPB 51.8 50.7 50.6	%R 104 102 102 97.1 103 %R 104 101 101	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC RANGE 75 - 125 % 75 - 125 % 75 - 125 %	YES X X X X X EPTAB YES X X X	NO LE NO
SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylenzene m & p - Xylene o - Xylene o - Xylene SAMPLE NUMBER CCV LA-52589 50 PPB Benzene Toluene Ethylbenzene m & p - Xylene	TYPE Standard Standard Standard Standard Standard Standard Standard Standard Standard Standard	EXPECTED RESULT PPB 50.0 50.0 50.0 100 50.0 EXPECTED RESULT PPB 50.0 50.0 50.0 100	ANALTTICAL RESULT PPB 52.0 50.9 51.0 97.1 51.3 ANALYTICAL RESULT PPB 51.8 50.7 50.6 96.4	%R 104 102 102 97.1 103 %R 104 101 101 96.4	RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 % ACC RANGE 75 - 125 % 75 - 125 % 75 - 125 % 75 - 125 %	YES X X X X X X X X X X X X X X X	NO LE NO

Narrative: Acceptable.



QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX Samples: 947950 - 947955

LABORATORY DUPLICATES:

• `.

SAMPLE	TYPE	SAMPLE RESILLT	DUPLICATE	RPD	AC	CEPTABLE	
947951		PPB	PPB		RANGE	YES NO	
Benzene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X	
Toluene	Matrix Duplicate	<1.0	· <1.0	0.00	+/- 20 %	Х	
Ethylbenzene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	Х	
m & p - Xylene	Matrix Duplicate	<2.0	<2.0	0.00	+/- 20 %	Х	
o - Xylene	Matrix Duplicate	<1.0	<1.0	0.00	+/- 20 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE	SPIKE ADDED	SAMPLE RESULT	SPIKE SAMPLE	%R	ACC	EPTABLE
2nd Analysis 947951	PPB	PPB	RESULT		RANGE	YES NO
Benzene	50	<1.0	52.4	105	75 - 125 %	X
Toluene	50	<1.0	51.9	104	75 - 125 %	Х
Ethylbenzene	50	<1.0	51.7	103	75 - 125 %	Х
m & p - Xylene	100	<2.0	97.9	97.9	75 - 125 %	X
o - Xylene	50	<1.0	52.0	104	75 - 125 %	Х

Narrative: Acceptable

ADDITIONAL ANALYTICAL BLANKS:

	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: Mdu

Approved By: ______

Date: 10/30 OW/1023 XLS