

3R - 197

**ANNUAL
MONITORING
REPORTS**

DATE:

2/2005

2004 ANNUAL GROUNDWATER REPORT NON-FEDERAL SITES VOLUME II

EL PASO FIELD SERVICES

TABLE OF CONTENTS

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT	
71669	State Gas Com N #1	31N	12W	16	H	3R239
70194	Johnston Fed #4	31N	09W	33	H	3R201
93388	Horton #1E	31N	09W	28	H	3R192
72556	Knight #1	30N	13W	5	A	3R207
73551	* Coldiron A #1	30N	11W	2	K	3R164
03906	GCU Com A #142E	29N	12W	25	G	3R197
70445	Standard Oil Com #1	29N	09W	36	N	3R238
LD087	K-31 Line Drip	25N	06W	16	N	3R205
94967	** Lindrith B #24	24N	03W	9	N	3R214

* Coldiron A#1 Site was closed by NMOCD in October 2004.

** Lindrith B#24 Site has been submitted for closure, and is pending approval from NMOCD.



MWH
MONTGOMERY WATSON HARZA

LIST OF ACRONYMS

B	benzene
btoc	below top of casing
E	ethylbenzene
EPFS	El Paso Field Services
ft	foot/feet
GWEL	groundwater elevation
ID	identification
MW	monitoring well
PSH	phase-separated hydrocarbons
NMWQCC	New Mexico Water Quality Control Commission
T	toluene
TOC	top of casing
NA	not applicable
NE	not established
NM	not measured
NMOCD	New Mexico Oil Conservation Division
NS	not sampled
ORC	oxygen-releasing compound
ppb	parts per billion
$\mu\text{g/L}$	micrograms per liter
X	total xylenes

[illegible]

© D. D. Jones. Copyright © 1989 DeLorme Yarmouth, ME 04096
3 mi. S. Ab. 1: 604,000 Detail: 2: 4 Datum: WGS84

3R 197

**EPFS GROUNDWATER SITES
2004 ANNUAL GROUNDWATER REPORT**

**GCU Com A #142E
Meter Code: 03906**

SITE DETAILS

Legal Description:	Town: 29N	Range: 12W	Sec: 25	Unit: G
NMOCD Haz Ranking:	10	Land Type: Fee	Operator: Amoco Production Company	

PREVIOUS ACTIVITIES

Site Assessment:	4/94	Excavation:	4/94 (20 cy)	Soil Boring:	10/95
Monitor Well:	2/97	Geoprobe:	12/96	Additional MWs:	12/01
Downgradient MWs:	12/01	Replace MW:	NA	Quarterly Initiated:	8/97
ORC Nutrient Injection:	NA	Re-Excavation:	10/96 (882 cy)	PSH Removal Initiated:	NA
Annual Initiated:	5/98	Quarterly Resumed:	NA		

SUMMARY OF 2004 ACTIVITIES

MW-1: Annual groundwater sampling and water level measurements were performed in March 2004.

MW-2: Annual groundwater sampling and water level measurements were performed in March 2004.

Site-Wide Activities: No other activities were performed at this site during 2004.

SITE MAPS

A site map (March) is attached in Figure 1.

SUMMARY TABLES AND GRAPHS

- Analytical data from 2004 are summarized in Table 1, and historic data are presented graphically in Figures 2 and 3.
- Laboratory reports are presented in Attachment 1.
- Field documentation is presented in Attachment 2.

**EPFS GROUNDWATER SITES
2004 ANNUAL GROUNDWATER REPORT**

**GCU Com A #142E
Meter Code: 03906**

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2004.

DISPOSITION OF GENERATED WASTES

No wastes were generated at this site during 2004.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this site, however, the attached site maps present the analytical data collected during 2004.

CONCLUSIONS

- The regional groundwater flow is estimated to be toward the south, based on a geoprobe survey conducted in 1996.
- In the annual sample collected at MW-1, concentrations of toluene, ethylbenzene and total xylenes were below detection limits, and benzene was below the NMWQCC standard.
- BTEX concentrations in monitoring well MW-2, located adjacent to production equipment, remained above closure standards.

RECOMMENDATIONS

- EPFS recommends that MW-1 be sampled on a quarterly schedule during 2005. Quarterly sampling will continue until BTEX concentrations are below NMWQCC standards for four consecutive quarters, at which time this site will be submitted for closure.
- EPFS recommends that monitoring well MW-2, which is located adjacent to production equipment, continue to be sampled annually.

LEGEND

● MW-1 Approximate Monitoring Well Location and Number

← Estimated Local Groundwater Flow Direction

— Road

— x — Fence Line

B Benzene (μg/L)

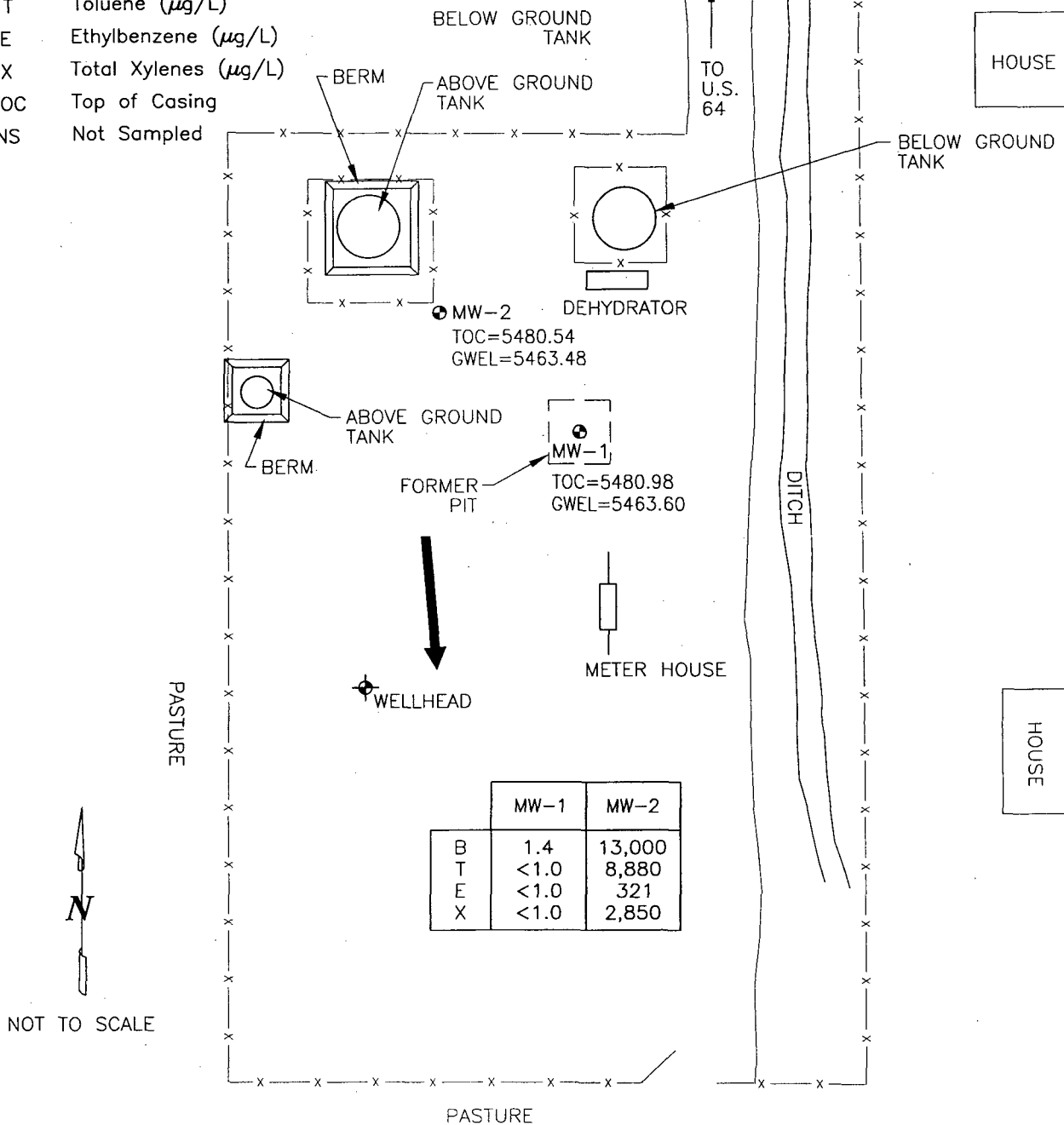
T Toluene (μg/L)

E Ethylbenzene (μg/L)

X Total Xylenes (μg/L)

TOC Top of Casing

NS Not Sampled



GALLEGOS CANYON UNIT A142E, METER 03906

MARCH 2004

GROUNDWATER SITES
EL PASO FIELD SERVICES

FIGURE 1

TABLE 1

SUMMARY OF BTEX COMPOUNDS IN 2004 GROUNDWATER SAMPLES
GCU COM A #142E (METER #03906)

Site Name	Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft btoc)
GCU Com A #142E	MW-1	3/22/2004	1.4	< 1.0	< 1.0	< 1.0	17.38
GCU Com A #142E	MW-2	3/22/2004	13,000	8,880	321	2,850	17.06

< = Analyte not detected at Method Detection Limit (MDL). Value shown is MDL.

J = Value estimated

FIGURE 2
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
GCU COM A #142E
MW-1

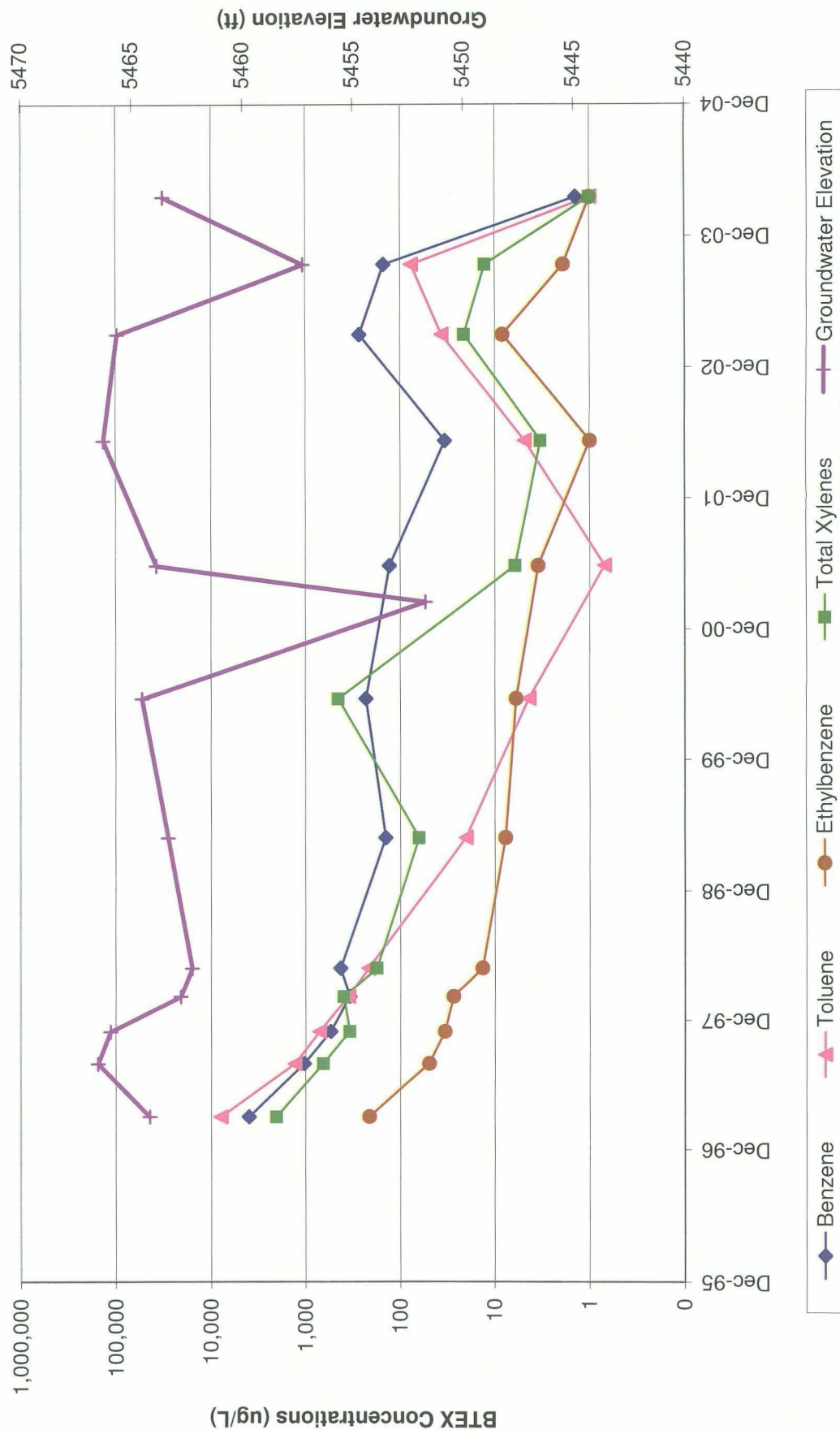


FIGURE 3
HISTORIC BTX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
GCU COM A #142E
MW-2

