3R - 068

ANNUAL MONITORING REPORT

04/02/2008

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April 2, 2008

Mr. Glenn von Gonten
New Mexico Oil Conservation Division (NMOCD)
1220 South St., Francis Drive
Santa Fe, New Mexico 87505

RE: El Paso Tennessee Pipeline Company Pit Groundwater Remediation Sites 2007 Annual Reports

Dear Mr. Von Gonten:

MWH Americas, Inc., on behalf of El Paso Tennessee Pipeline Company (EPTPC), is submitting the enclosed 2007 Annual Reports for each of EPTPC's 21 remaining San Juan River Basin pit groundwater remediation Sites. The reports present the 2007 sampling and product recovery data and include recommendations for 2008 activities at these Sites.

Copies of the reports for Sites located on Federal or Navajo lands are also being sent under separate cover to the Bureau of Land Management and the Navajo Nation Environmental Protection Agency.

If you have any questions concerning the enclosed reports, please call either Nancy Prince of EPTPC (719-520-4690) or me (303-291-2276).

Sincerely,

Jed Smith
Project Manager

cc: Brandon Powell – NMOCD, Aztec, NM
Nancy Prince – EPTPC
MWH Project File

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2007 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I

EL PASO TENNESSEE PIPELINE COMPANY

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EPTPC GROUNDWATER SITES
2007 ANNUAL GROUNDWATER REPORT

Fogelson 4-1 Com #14
Meter Code: 73220

SITE DETAILS

Legal Description:	**Town:**	29N	**Range:**	11W	**Sec:**	4	**Unit:** P
NMOCD Haz Ranking:	10	**Land Type:**	Federal	**Operator:**	Burlington Resources		

PREVIOUS ACTIVITIES

Site Assessment:	3/94	**Excavation:**	4/94 (65cy)	**Soil Boring:**	10/95
Monitor Well:	10/95	**Geoprobe:**	12/96	**Additional MWs:**	6/00
Downgradient MWs:	6/00	**Replace MW:**	NA	**Quarterly Initiated:**	12/96
ORC Nutrient Injection:	8/01	**Re-Excavation:**	NA	**PSH Removal Initiated:**	NA
Annual Initiated:	6/98	**Quarterly Resumed:**	NA	**PSH Removal in 2007?**	No

SUMMARY OF 2007 ACTIVITIES

MW-1: Annual water level monitoring was performed in November 2007. A product absorbing sock was placed in the well (in lieu of the normal oxygen releasing compound (ORC) socks) due to the discovery of free-product in the well.

MW-2: Annual water level monitoring was performed in November 2007.

MW-3: Annual water level monitoring was performed in November 2007.

Site-Wide Activities: No other activities were performed at this Site during 2007.

SITE MAPS

A Site map (November) is attached as Figure 1.

SUMMARY TABLES AND GRAPHS

- Historic analytical data are included in Table 1 and presented graphically on Figures 2 through 4.
- Field documentation is presented in Attachment 2 (included on CD).

Fogelson 4-1 Com #14
Meter Code: 73220

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this Site during 2007.

DISPOSITION OF GENERATED WASTES

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station.

ISOCONCENTRATION MAPS

No isoconcentration maps were prepared for this Site; however, the attached Site map presents the water level data collected during 2007.

CONCLUSIONS

- The groundwater flow direction generally is to the west.

- The presence of measurable free-product in MW-1 led to a decision not to proceed with the annual sample collection in November 2007. Water levels at the Site are lower than at any other time in the sampling record (which goes back to 1995), and are approximately 1 foot lower than in November 2006. It is not atypical to see observable accumulations of free-product as more of the smear zone becomes unsaturated.

- Long-term decreasing BTEX concentrations at the Site indicate that natural attenuation is occurring. Historically, benzene concentrations in MW-1 have decreased significantly from their level of 1,520 µg/L in 1995, when sampling was initiated. In November 2006, the benzene concentration was 206 µg/L and the total xylenes concentration was 2,460 µg/L. Both results were comparable to those of other recent years and exceeded their respective NMWQCC standards. Concentrations of toluene and ethylbenzene were below standards in 2006.

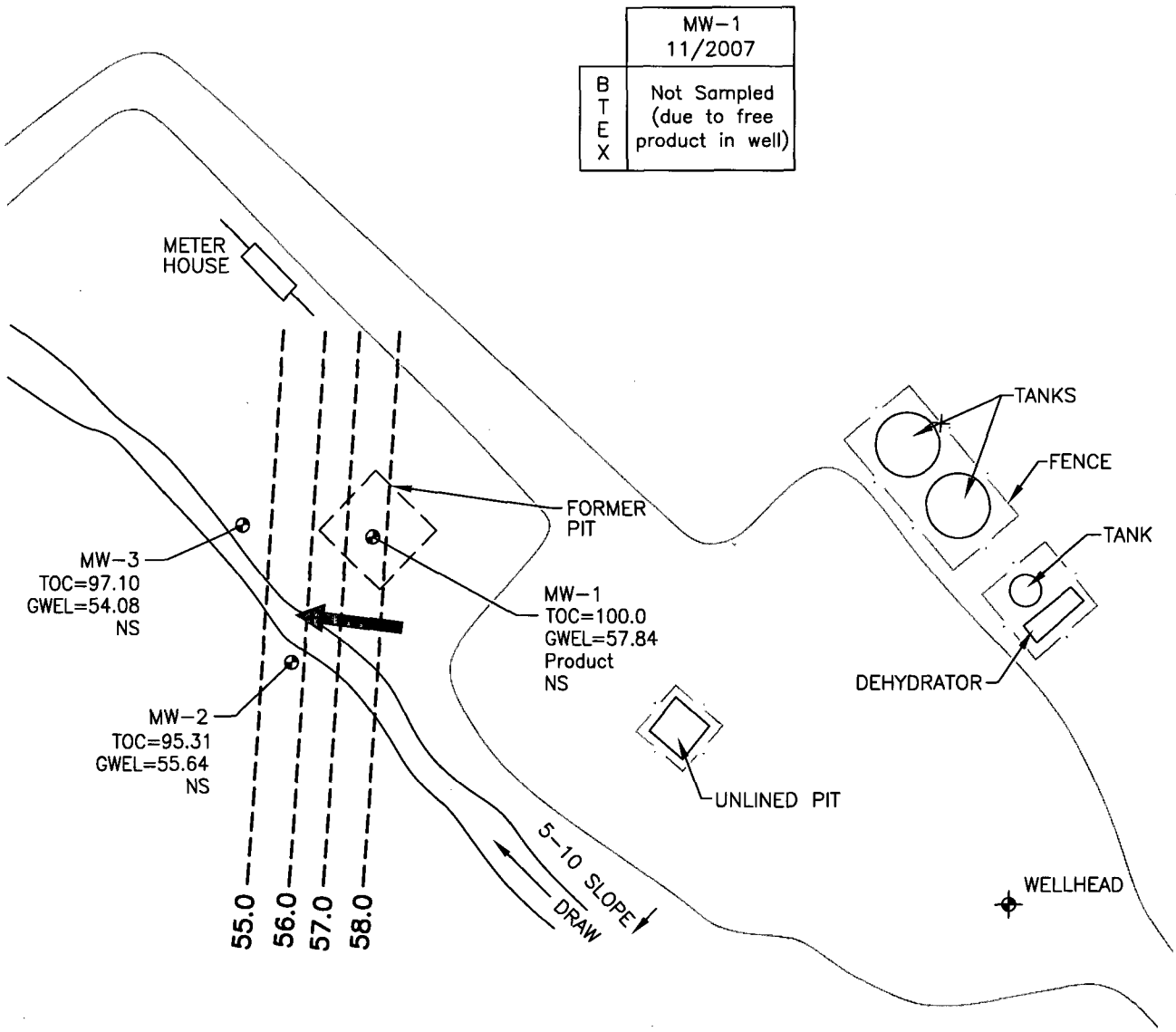
RECOMMENDATIONS

- EPTPC recommends conducting quarterly water level/free-product monitoring for this Site. At this time, EPTPC recommends bailing MW-1 quarterly and installing absorbent socks after each bailing event. These activities should continue until free-product subsides.

- The use of ORC socks in MW-1 to enhance biodegradation of dissolved-phase contaminants may be reinstated once observable free-product in the well has subsided. However, EPTPC will be evaluating this Site for alternative approaches/optimization during 2008 and will present recommendations in the 2008 annual report. ORC socks are generally not utilized when hydrocarbon product (including residual phase product that cannot mobilize into a monitoring

well) is present, due to the extremely high oxygen demand.

- Because BTEX sampling at MW-2 and MW-3 have historically indicated concentrations less than closure criteria, EPTPC recommends that these wells not be sampled until closure.



LEGEND

MW-1	Approximate Monitoring Well Location and Number
	Fence Line
	Direction of Groundwater Flow (Estimated)
58.0	Potentiometric Surface (Inferred where Dashed)

GWEL	Groundwater Elevation (Relative Elevation)
TOC	Top of Casing
NS	Not Sampled
B	BENZENE (µg/L)
T	TOLUENE (µg/L)
E	ETHYLBENZENE (µg/L)
X	TOTAL XYLENES (µg/L)

N

NOT TO SCALE

REV. No.	REVISIONS	REV. DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
0	Issued for Report	11/07	D. Wade	N.Day	J.Smith

MWH

PROJECT No.: 1005521.0601
AutoCAD FILE: fogelson41
SCALE: As Shown
FIGURE No: 1

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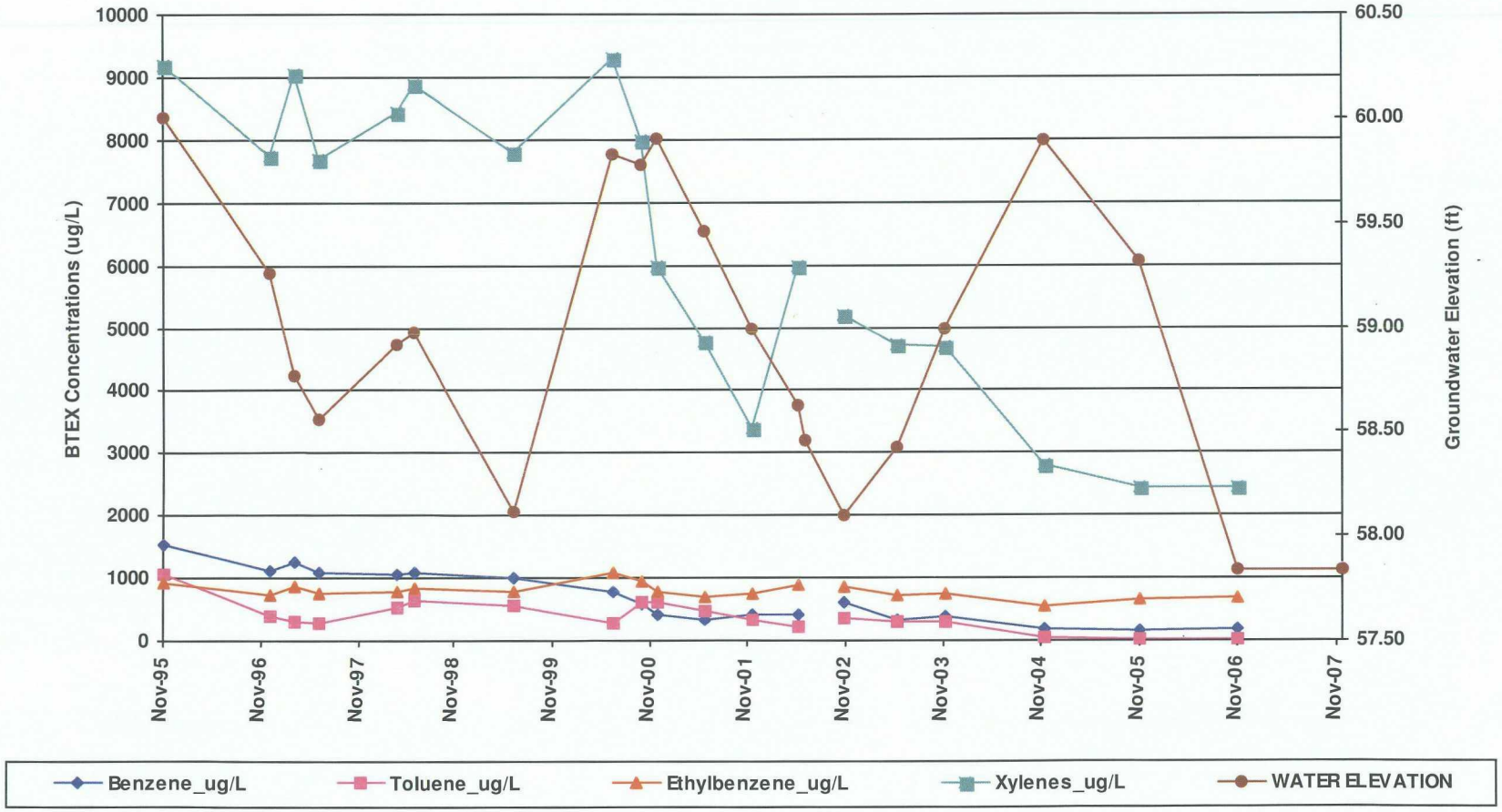
EL PASO TENNESSEE PIPELINE COMPANY
FOGELSON 4-1 COM #14, METER 73220

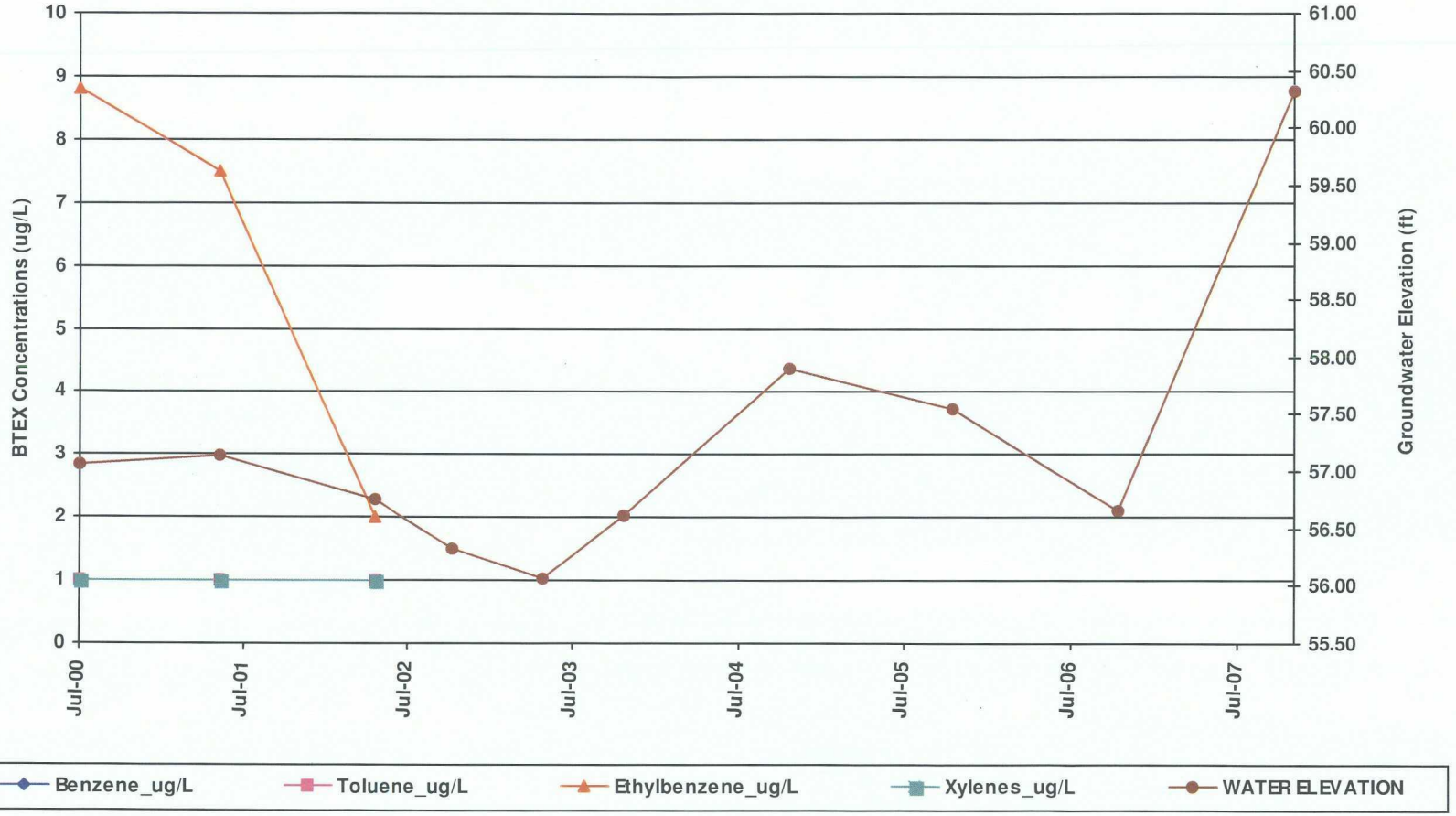
GROUNDWATER POTENTIOMETRIC SURFACE CONTOURS NOVEMBER 2007

FIGURE 2
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
FOGELSON 4-1 COM. #14 (METER #73220)
MW01



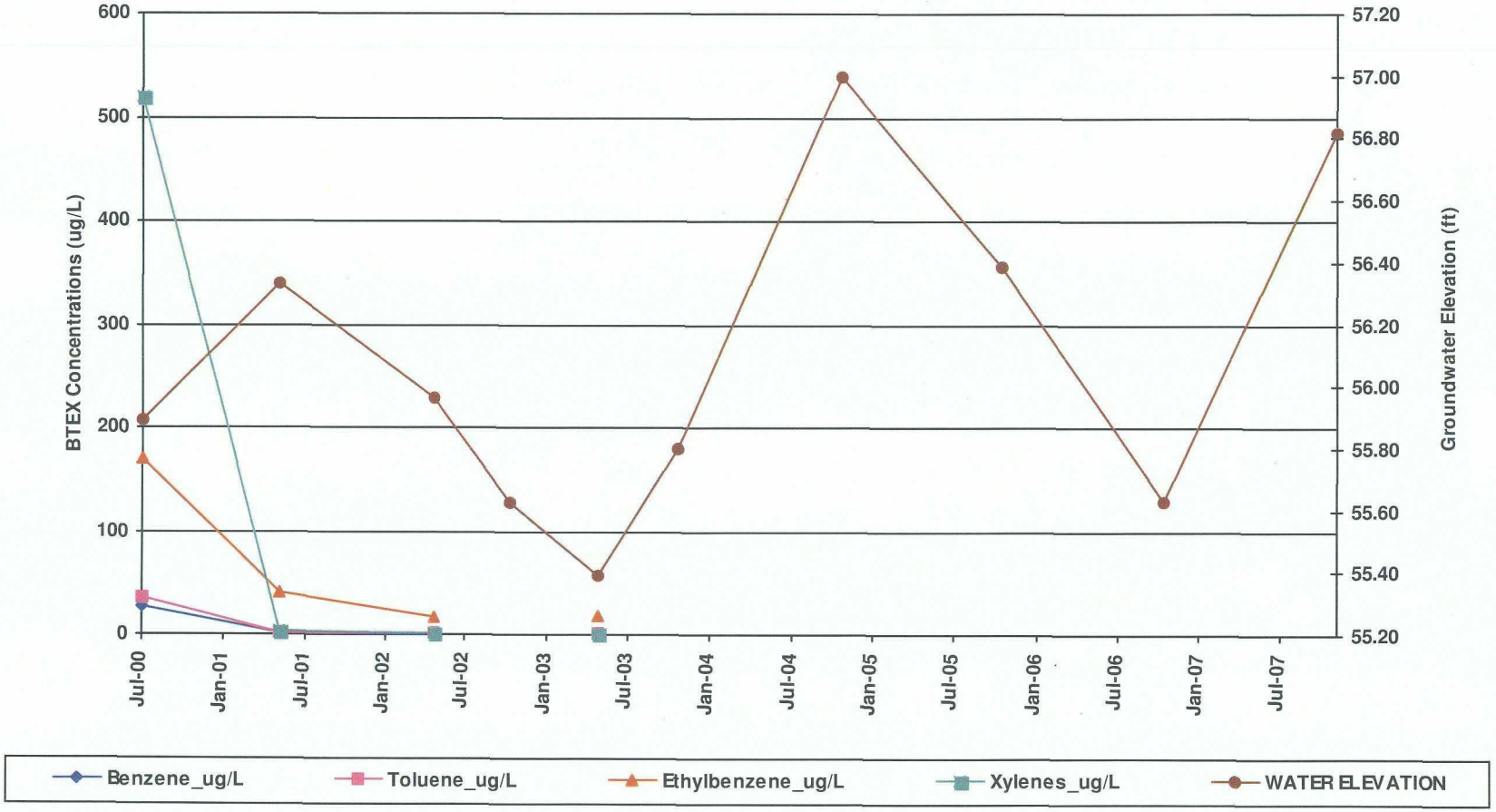
Note: Non Detects are represented by a value of 1.

FIGURE 3
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
FOGELSON 4-1 COM. #14 (METER #73220)
MW02



Note: Non Detects are represented by a value of 1.

FIGURE 4
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
FOGELSON 4-1 COM. #14 (METER #73220)
MW03



Note: Non Detects are represented by a value of 1.

TABLE 1

SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
FOGELSON 4-1 COM. #14 (METER #73220)

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)
MW01	11/6/1995	1520	1050	907	9180	39.99
	12/6/1996	1110	388	713	7730	40.74
	3/10/1997	1240	318	850	9050	41.23
	6/6/1997	1080	268	747	7700	41.44
	3/30/1998	1070	522	789	8430	41.08
	6/4/1998	1090	627	837	8880	41.02
	6/15/1999	1000	550	770	7800	41.88
	6/19/2000	790	280	1100	9300	40.17
	10/2/2000	580	600	950	8000	40.22
	12/5/2000	420	610	770	6000	40.09
	5/30/2001	340	470	710	4800	40.54
	11/26/2001	420	330	760	3400	41.00
	5/15/2002	430	230	900	6000	41.37
	11/4/2002	625	370	862	5210	41.90
	5/21/2003	339	296	723	4730	41.57
	11/15/2003	401	308	755	4700	41.00
	11/16/2004	185	59.9	550	2800	40.10
	11/8/2005	174	34.3	675	2440	40.68
	11/8/2006	206	41.6	694	2460	42.16
MW02	7/27/2000	1	1	8.8	1	38.25
	5/30/2001	1	1	7.5	1	38.17
	5/15/2002	1	1	2	1	38.56
MW03	7/27/2000	27	35	170	520	41.21
	5/30/2001	1.3	1	40	2.8	40.77
	5/15/2002	0.64	1	17	1.2	41.14
	5/21/2003	1	1	18.2	1	41.71

Note: Non Detects are represented by a value of 1.