

**3R - 212**

**ANNUAL  
MONITORING  
REPORT**

**04/02/2008**



**MWH**

**BUILDING A BETTER WORLD**

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2008 APR 4 PM 1 38

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

**2007 ANNUAL GROUNDWATER REPORT  
FEDERAL SITES VOLUME I**

**EL PASO TENNESSEE PIPELINE COMPANY**

**TABLE OF CONTENTS**

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT	
89961	Fields A#7A	32N	11W	34	E	3R170
89232	Johnston Fed #6A	31N	09W	35	F	3R202
94715	James F. Bell #1E	30N	13W	10	P	3R196
89620	Sandoval GC A #1A	30N	09W	35	C	3R235
LD151	Lat 0-21 Line Drip	30N	09W	12	O	3R213
73220	Fogelson 4-1 Com. #14	29N	11W	4	P	3R068
97213	Hamner #9	29N	09W	20	A	3R190
LD174	LAT L 40	28N	04W	13	H	3R212
89894	Hammond #41A	27N	08W	25	O	3R186
94810	Miles Fed 1A	26N	07W	5	F	3R223
LD072	K27 LD072	25N	06W	4	E	3R204
87640	Canada Mesa #2	24N	06W	24	I	3R155
70194	Johnston Fed #4	31N	09W	33	H	3R201



EPTPC GROUNDWATER SITES  
2007 ANNUAL GROUNDWATER REPORT

3R212

Lat L-40  
Meter Code: LD174

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**SITE DETAILS**

Legal Description:      Town: 28N                      Range: 4W                      Sec: 13      Unit: H  
NMOCD Haz              20              Land Type: Federal      Operator: Enterprise  
Ranking:

**PREVIOUS ACTIVITIES**

Site Assessment:	2/95	Excavation:	3/95	Soil Boring:	9/95
Monitor Well:	9/95	Geoprobe:	NA	Additional MWs:	*
Downgradient MWs:	*	Replace MW:	NA	Quarterly Initiated:	NA
ORC Nutrient Injection:	NA	Re-Excavation:	NA	PSH Removal Initiated:	1/98
Annual Initiated:	NA	Quarterly Resumed:	NA	PSH Removal in 2007?	No

\* Attempts were made to install additional monitoring wells at this Site during July 2000.  
All efforts were met with refusal.

**SUMMARY OF 2007 ACTIVITIES**

**MW-1:** Quarterly water level monitoring was performed.

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

**SITE MAP**

A Site map (2007) is attached as Figure 1.

**SUMMARY TABLES AND GRAPHS**

- Historical analytical data and depth to water data are summarized in Table 1 and presented graphically on Figure 2.
- Historical free-product recovery data from 2007 are included in Table 2 and presented graphically on Figure 3.
- Field documentation is presented in Attachment 1 (included on CD).

**EPTPC GROUNDWATER SITES  
2007 ANNUAL GROUNDWATER REPORT**

**Lat L-40  
Meter Code: LD174**

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**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.

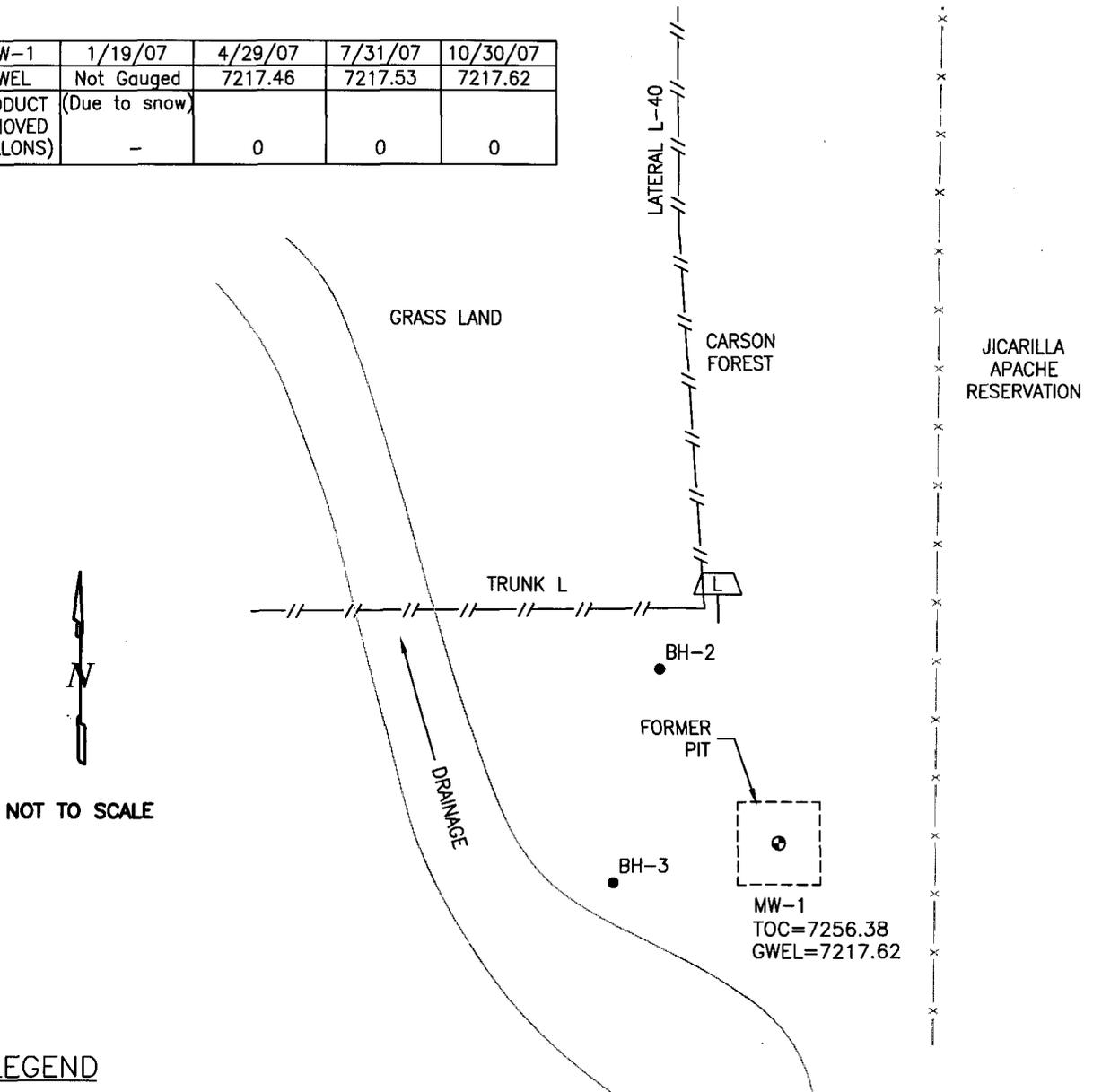
**CONCLUSIONS**

- Free-product was not observed during the 2007 quarterly water level monitoring events. Free-product was most recently observed in July 2006 (i.e., hydrocarbon had been absorbed into the product recovery sock). It appears that the free-product has subsided and sampling may be reinitiated in this well.

**RECOMMENDATIONS**

- EPTPC recommends quarterly water level monitoring to check for product reappearance. If free-product is observed, oil absorbent sock use will be reinitiated.
- Unless product reappears, EPTPC will sample MW-1 on an annual basis until sample results approach closure criteria. Sampling would then proceed at quarterly intervals until the closure criteria are met.

MW-1	1/19/07	4/29/07	7/31/07	10/30/07
GWEL	Not Gauged	7217.46	7217.53	7217.62
PRODUCT REMOVED (GALLONS)	(Due to snow) -	0	0	0



**LEGEND**

- MW-1      Approximate Monitoring Well Location and Number
- x—x—      Fence Line
- //—//—      Pipe Line
- GWEL      Groundwater Elevation  
(FT Above Mean Sea Level Unless Noted Otherwise)
- TOC      Top of Casing
- Attempted Monitoring Well Installation Location
- NM      Not Measured

0	Issued for Report	12/07	D. Wade	N. Day	J. Smith
REV. No.	REVISIONS	REV. DATE	DESIGN BY	DRAWN BY	REVIEWED AND SIGNED BY
PROJECT No.: 1003521.0601			AutoCAD FILE: LATL40LD-1207		
SCALE: As Shown			FIGURE No: 1		

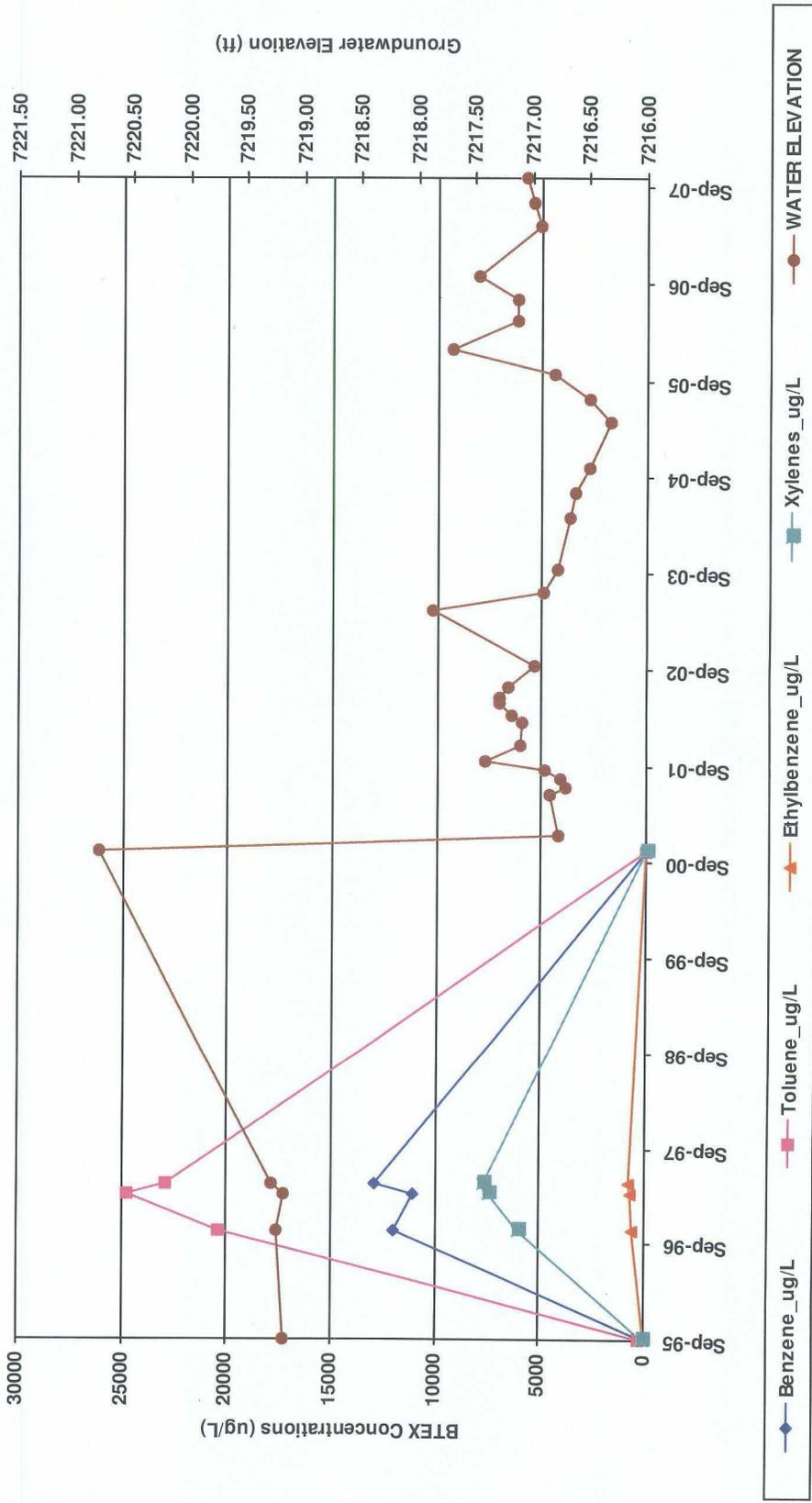


EL PASO TENNESSEE PIPELINE COMPANY  
LATERAL L-40 LINE DRIP, LD174

**GROUNDWATER POTENTIOMETRIC SURFACE ELEVATIONS AND BTEX CONCENTRATIONS  
DECEMBER 2007**



FIGURE 2  
 SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES  
 LAT L-40 (METER #LD174)  
 MW01



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

FIGURE 3  
 SUMMARY OF FREE-PRODUCT REMOVAL  
 LAT L-40 (METER #LD174)  
 MW01

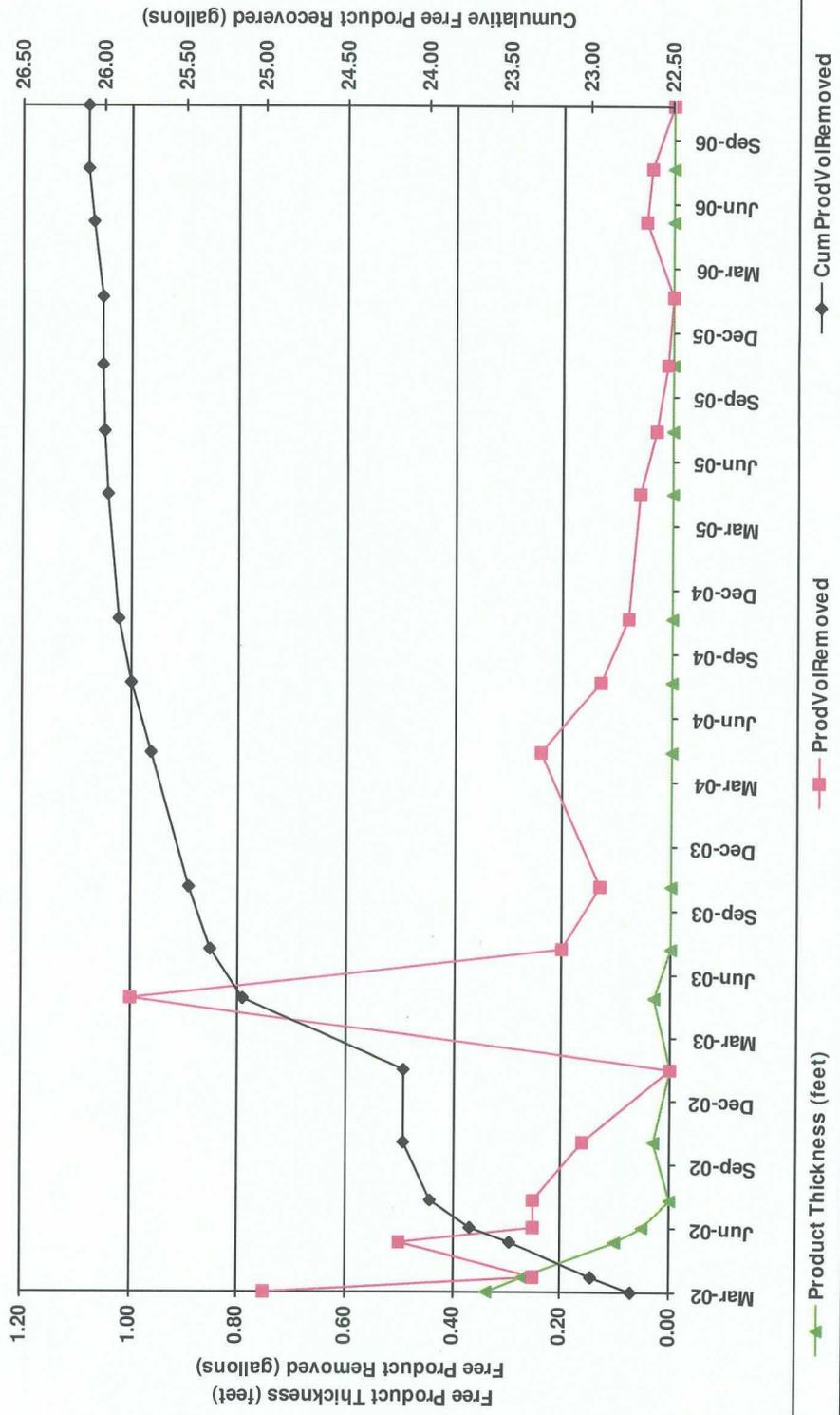


TABLE 1

SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES  
LAT L-40 (METER #LD174)

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)
MW01	9/26/1995	121	218	7.4	75.1	36.68
	11/11/1996	12000	20400	612	6075	36.62
	3/31/1997	11100	24700	702	7440	36.68
	5/9/1997	12900	22900	761	7730	36.57
	11/6/2000	8.2	1	15	6.9	35.06
MW02	11/6/2000	1	0.5	1.3	3.1	

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

TABLE 2

**SUMMARY OF FREE-PRODUCT REMOVAL  
LAT L-40 (METER #LD174)**

Monitoring Well	Removal Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Volume Removed (gallons)	Cumulative Volume of Product Removed (gallons)
MW01	3/12/2002	38.42	38.76	0.34	0.75	22.73
	4/3/2002	38.39	38.66	0.27	0.25	22.98
	5/20/2002	38.46	38.56	0.10	0.50	23.48
	6/10/2002	38.51	38.56	0.05	0.25	23.73
	7/19/2002		38.64	0	0.25	23.98
	10/11/2002	38.84	38.87	0.03	0.16	24.14
	1/23/2003			0	0.00	24.14
	5/6/2003	37.94	37.97	0.03	1.00	25.14
	7/17/2003		38.95	0	0.20	25.34
	10/13/2003		39.06	0	0.13	25.47
	4/20/2004		39.18	0	0.24	25.71
	7/27/2004		39.22	0	0.13	25.83
	10/26/2004		39.35	0	0.08	25.91
	4/22/2005		39.52	0	0.06	25.97
	7/19/2005		39.34	0	0.03	26.00
	10/21/2005		39.57	0	0.01	26.01
	1/24/2006		38.67	0	0.00	26.01
	5/10/2006		38.72	0	0.05	26.06
	7/26/2006		38.72	0	0.04	26.10
	10/22/2006		38.91	0	0.00	26.10