

**3R - 212**

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**ANNUAL  
MONITORING  
REPORTS**

**DATE:**

**3/2006**

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**RECEIVED**

**2005 ANNUAL GROUNDWATER REPORT**  
**FEDERAL SITES VOLUME I**

**EL PASO TENNESSEE PIPELINE COMPANY**    **MAR 17 2006**

Oil Conservation Division  
Environmental Bureau

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

3R170

3R202

3R196

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3R223

3R204?

3R155



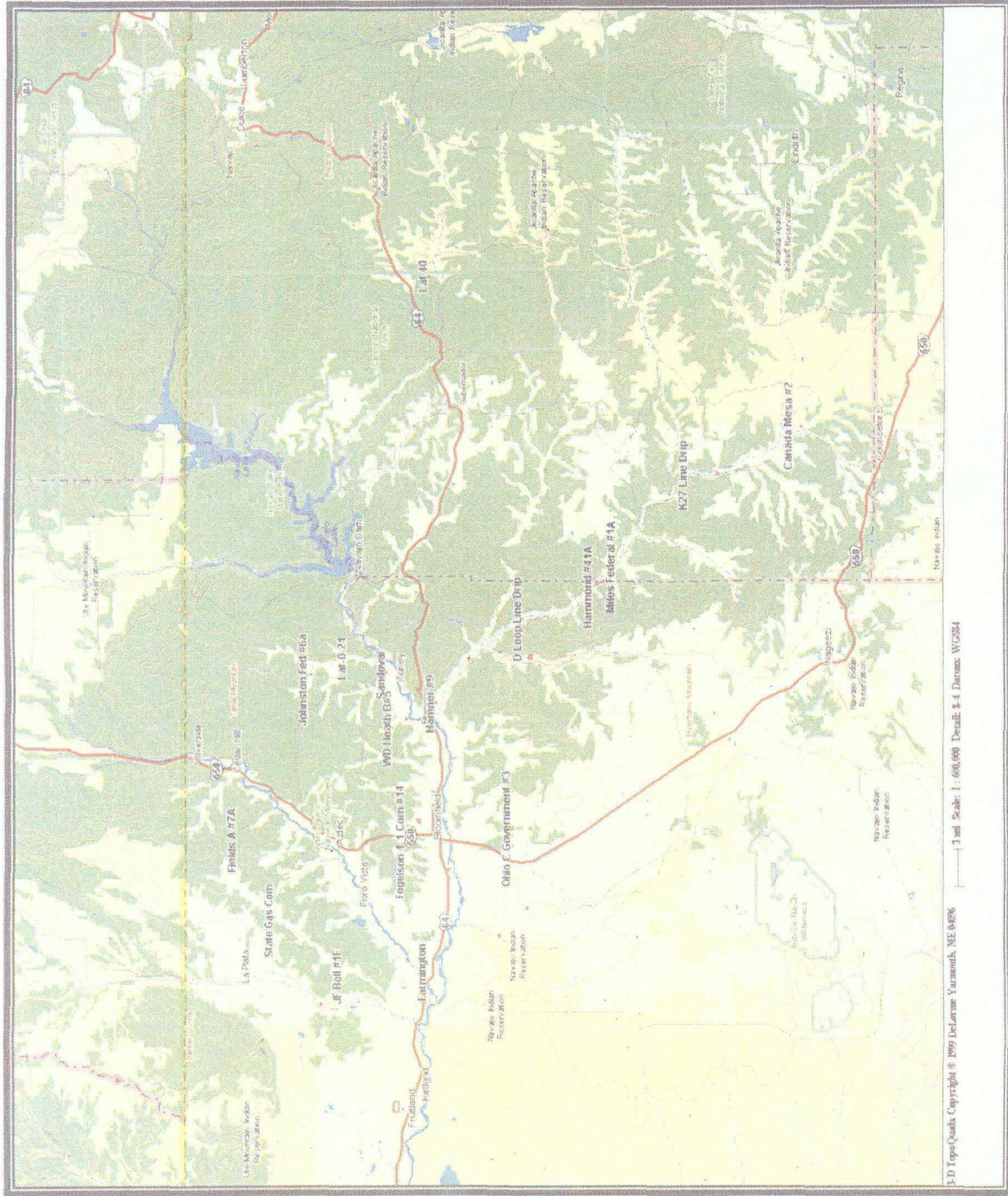
**MWH**

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
µg/L	micrograms per liter
X	total xylenes

# Federal Groundwater Site Map



**EPTPC GROUNDWATER SITES  
2005 ANNUAL GROUNDWATER REPORT**

3R212

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

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**SITE DETAILS**

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

**PREVIOUS ACTIVITIES**

<b>Site Assessment:</b>	2/95	<b>Excavation:</b>	3/95	<b>Soil Boring:</b>	9/95		
<b>Monitor Well:</b>	9/95	<b>Geoprobe:</b>	NA	<b>Additional MWs:</b>	*		
<b>Downgradient MWs:</b>	*	<b>Replace MW:</b>	NA	<b>Quarterly Initiated:</b>	NA		
<b>ORC Nutrient Injection:</b>	NA	<b>Re- Excavation:</b>	NA	<b>PSH Removal Initiated:</b>	1/98		
<b>Annual Initiated:</b>	NA	<b>Quarterly Resumed:</b>	NA				

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

**SUMMARY OF 2005 ACTIVITIES**

**MW-1:** Quarterly free-product recovery and water level monitoring were performed.

**Site-Wide Activities:** A technology review and data assessment was performed to evaluate free-product removal protocol and methodologies for sites with free product.

**SITE MAP**

A site map (2005) is attached in Figure 1.

**SUMMARY TABLES AND GRAPHS**

- Historical analytical data and groundwater elevation data are presented graphically in Figure 2.
- Free-product recovery data from 2005 are summarized in Table 1, and historic data are presented graphically in Figure 3.
- Field documentation is presented in Attachment 1 (included on CD).

**EPTPC GROUNDWATER SITES  
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**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 2005.

**DISPOSITION OF GENERATED WASTES**

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station. Phase separated hydrocarbons are stored in a 55 gallon drum and are periodically picked up by Mesa Oil for recycling.

**ISOCONCENTRATION MAPS**

No isoconcentration maps were prepared for this site, however, the attached site map presents the water level data collected during 2005.

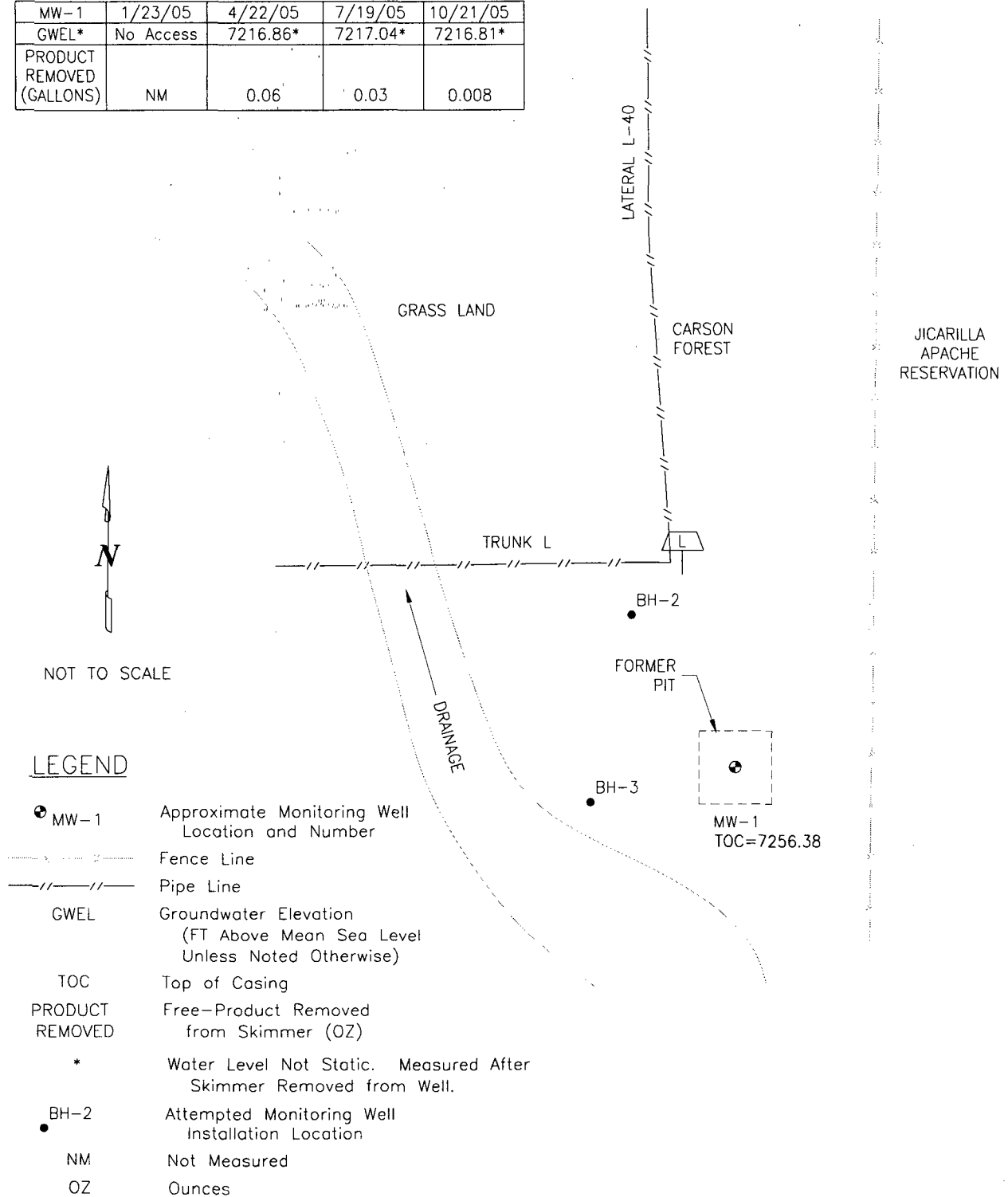
**CONCLUSIONS**

- Free-product recovery efforts at MW-1 resulted in removal of approximately 0.10 gallons of free-phase hydrocarbons during 2005 bringing the cumulative total recovered to date to approximately 26.01 gallons since 2000. Free-product removal in 2004 totaled 0.45 gallons, compared to 0.10 gallons in 2005, demonstrating that product accumulation is decreasing.
- The passive skimmer in MW-1 was replaced with an oil absorbent sock during the October 2005 monitoring event.
- Based on the technology review and free-product removal data for this site, it was concluded that oil absorbent socks would be the most efficient and cost-effective product removal technique for MW-1 at this time.

**RECOMMENDATIONS**

- EPTPC will continue quarterly free-product recovery at MW-1 using the oil absorbent sock; however, the frequency of monitoring will be adjusted based on the amount of product recovered during the monitoring visits.
- Once free-product recovery efforts are completed at MW-1, this well will be sampled on an annual basis until sample results approach closure criteria. The well will then be scheduled for quarterly sampling until closure criteria are met.

MW-1	1/23/05	4/22/05	7/19/05	10/21/05
GWEL*	No Access	7216.86*	7217.04*	7216.81*
PRODUCT REMOVED (GALLONS)	NM	0.06	0.03	0.008



LATERAL L-40 LINE DRIP, LD 174

2005

GROUNDWATER SITES  
EL PASO TENNESSEE PIPELINE COMPANY

FIGURE 1



**SUMMARY OF FREE PRODUCT REMOVAL DURING 2005**  
**LAT L-40 (METER #LD174)**

**TABLE 1**

Site Name	Monitoring Well	Removal Date	Depth to Product (feet bgs)	Depth to Water (feet bgs)	Product Thickness (feet)	Volume of Product Removed (gallons)	Cummulative Volume of Product Removed (gallons)
Lat L-40	MW-1	4/22/05		39.52	0	0.06	25.97
Lat L-40	MW-1	7/19/05		39.34	0	0.03	26.00
Lat L-40	MW-1	10/21/05		39.57	0	0.01	26.01



**FIGURE 2**  
**HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS**  
**LAT L40**  
**MW-1**

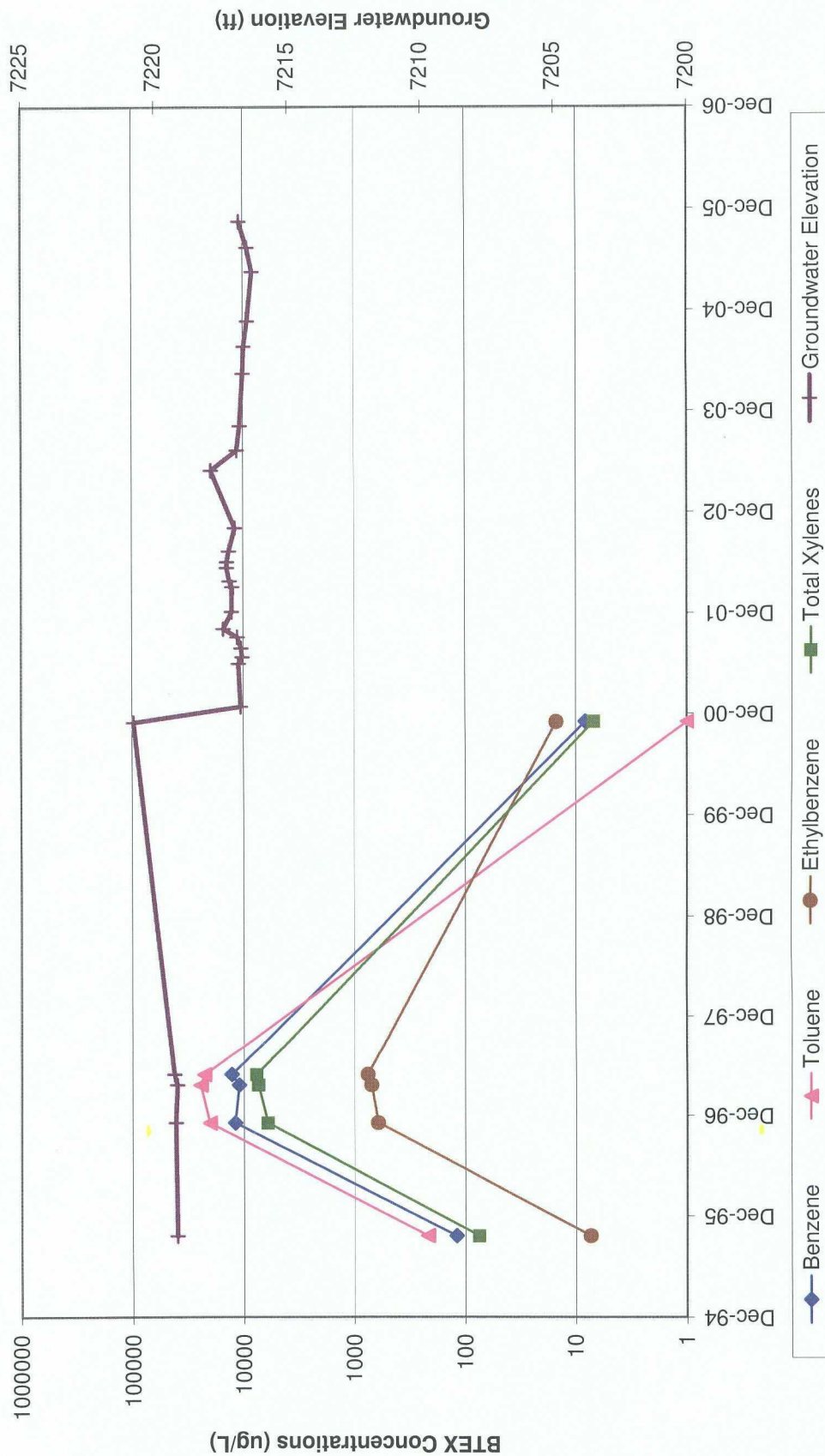


FIGURE 3  
HISTORIC FREE-PRODUCT RECOVERY  
LAT L40  
MW-1

