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**ANNUAL
MONITORING
REPORT**

2/28/2009

**MWH****BUILDING A BETTER WORLD**

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February 28, 2009

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
2008 Annual Reports**

Dear Mr. Von Gonten:

MWH Americas, Inc., on behalf of El Paso Tennessee Pipeline Company (EPTPC), is submitting the enclosed 2008 Annual Reports for each of EPTPC's 21 remaining San Juan River Basin pit groundwater remediation Sites. The reports present the 2008 sampling and product recovery data and include recommendations for 2009 activities at these Sites.

The 2008 Annual Reports are divided into three volumes based on location type. The volumes are as follows:

Volume Location Type

- | | |
|---|--|
| 1 | Federal Land |
| 2 | Non-Federal Land (Excl. Navajo Nation) |
| 3 | Navajo Nation |

If you have any questions concerning the enclosed reports, please call either Doug Stavinoha of EPTPC (713-420-5150) or me (303-291-2276).

Sincerely,

Jed Smith
Project Manager

encl.

cc: Bill Freeman – NNEPA, Shiprock, NM (Volume 3 Only)
Bill Liese – BLM, Farmington, NM (Volume 1 Only)
Brandon Powell – NMOCD, Aztec, NM (Volumes 1, 2, and 3)
Doug Stavinoha – EPTPC (Volumes 1, 2, and 3) -

**2008 ANNUAL GROUNDWATER REPORT
FEDERAL SITES VOLUME I
EL PASO TENNESSEE PIPELINE COMPANY**

TABLE OF CONTENTS

METER or LINE ID	NMOCD CASE NO.	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
87640	3RP-155-0	Canada Mesa #2	24N	06W	24	I
89961	3RP-170-0	Fields A#7A	32N	11W	34	E
73220	3RP-068-0	Fogelson 4-1 Com. #14	29N	11W	4	P
89894	3RP-186-0	Hammond #41A	27N	08W	25	O
97213	3RP-190-0	Hamner #9	29N	09W	20	A
94715	3RP-196-0	James F. Bell #1E	30N	13W	10	P
70194	3RP-201-0	Johnston Fed #4	31N	09W	33	H
89232	3RP-202-0	Johnston Fed #6A	31N	09W	35	F
LD072	3RP-204-0	K27 LD072	25N	06W	4	E
LD174	3RP-212-0	LAT L 40	28N	04W	13	H
LD151	3RP-213-0	Lat 0-21 Line Drip	30N	09W	12	O
94810	3RP-223-0	Miles Fed 1A	26N	07W	5	F
89620	3RP-235-0	Sandoval GC A #1A	30N	09W	35	C



**2008 ANNUAL GROUNDWATER REPORT
NON-FEDERAL SITES VOLUME II
EL PASO TENNESSEE PIPELINE COMPANY**

TABLE OF CONTENTS

METER or LINE ID	NMOCD CASE NO.	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
03906	3RP-179-0	GCU Com A #142E	29N	12W	25	G
93388	3RP-192-0	Horton #1E	31N	09W	28	H
LD087	3RP-205-0	K-31 Line Drip	25N	06W	16	N
72556	3RP-207-0	Knight #1	30N	13W	5	A
94967	3RP-214-0	*Lindrith B #24	24N	03W	9	N
70445	3RP-074-0	Standard Oil Com #1	29N	09W	36	N
71669	3RP-239-0	State Gas Com N #1	31N	12W	16	H

* Lindrith B#24 Site was submitted for closure in 2006, and is pending approval from NMOCD.
There were no activities for this site in 2008.



**EPTPC GROUNDWATER SITES
2008 ANNUAL GROUNDWATER REPORT**

**Canada Mesa #2
Meter Code: 87640**

SITE DETAILS

Legal Description:	Town:	24N	Range:	6W	Sec:	24	Unit:	I
NMOCD Haz Ranking:	40	Land Type:	Federal	Operator:	Merrion Oil & Gas Company			

PREVIOUS ACTIVITIES

Site Assessment:	7/94	Excavation:	8/94	Soil Boring:	8/95
Monitor Well:	8/95	Geoprobe:	NA	Additional MWs:	10/00
Downgradient MWs:	10/00	Replace MW:	NA	Quarterly Initiated:	8/95
ORC Nutrient Injection:	NA	Re-Excavation:	NA	PSH Removal Initiated:	8/97
Annual Initiated:	11/00	Quarterly Resumed:	NA	PSH Removal in 2008?	Yes

SUMMARY OF 2008 ACTIVITIES

MW-1: Quarterly free-product recovery and water level monitoring were performed during 2008.

MW-2: Annual groundwater sampling (December) and quarterly water level monitoring were performed during 2008.

MW-3: Annual groundwater sampling (December) and quarterly water level monitoring were performed during 2008.

Site-Wide Activities: No other activities were performed at this Site during 2008.

SITE MAP

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

SUMMARY TABLES AND GRAPHS

- Historic analytical and water level data are summarized in Table 1 and presented graphically in Figures 2 through 4. Where applicable, static water level elevations were corrected for measurable thicknesses of free-product (specific gravity of 0.8).
- Historic free-product recovery data are summarized in Table 2 and presented graphically in Figure 5.

EPTPC GROUNDWATER SITES 2008 ANNUAL GROUNDWATER REPORT

**Canada Mesa #2
Meter Code: 87640**

- The 2008 laboratory report is presented in Attachment 1 (included on CD).
- The 2008 field documentation is presented in Attachment 2 (included on CD).

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this Site during 2008.

DISPOSITION OF GENERATED WASTES

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station. Spent absorbent socks were managed as non-hazardous solid waste.

ISOCONCENTRATION MAPS

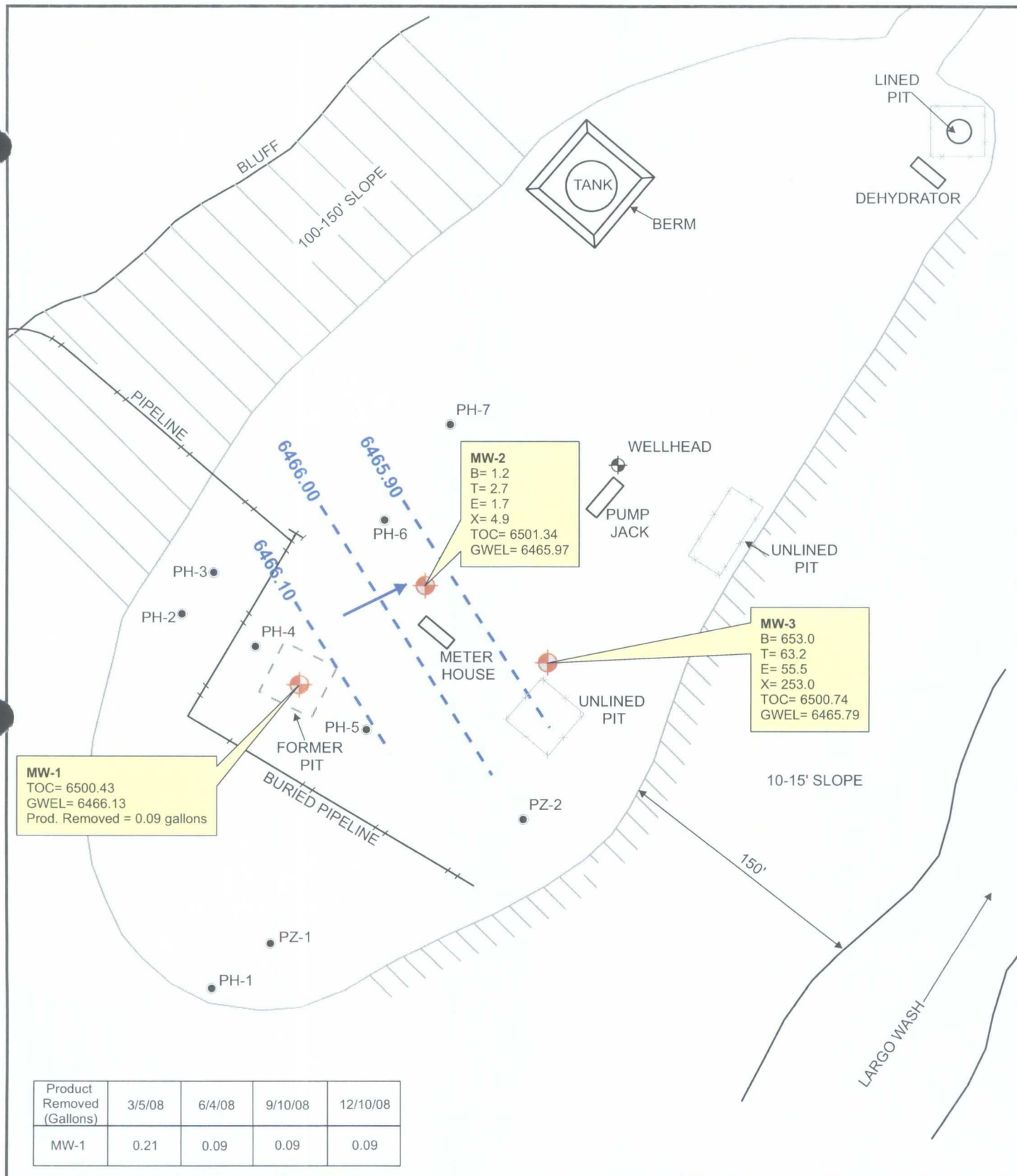
The attached Site map presents both water level and analytical data collected during the December 2008 annual sampling event.

RESULTS

- The groundwater flow direction is generally to the east-northeast at this Site.
- Approximately 0.48 gallons of free-product was recovered from MW-1 in 2008, bringing the cumulative total recovered to approximately 46.94 gallons.
- BTEX constituents were detected just above their reporting limits in MW-2; however, no parameters exceeded the NMWQCC standards. The benzene concentration in MW-2 first dropped below the NMWQCC standard in 2006 and has remained compliant since that time.
- The benzene concentration in MW-3 was 653 µg/L in December 2008, similar to previous years. Overall, the benzene concentrations have decreased significantly from a high of 1,430 µg/L in 2002. Toluene, ethylbenzene and total xylenes concentrations remain below their respective NMWQCC standards.

RECOMMENDATIONS

- EPTPC will continue quarterly free-product recovery efforts at MW-1; however, the frequency of monitoring may be adjusted based on the amount of product recovered during the monitoring visits.
- EPTPC will continue sampling MW-2 and MW-3 on an annual basis.
- 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. All wells will then be scheduled for quarterly sampling until closure criteria are met.



Product Removed (Gallons)	3/5/08	6/4/08	9/10/08	12/10/08
MW-1	0.21	0.09	0.09	0.09

LEGEND

- MW-4** Existing Monitoring / Observation Well
- PZ-01** Abandoned Monitoring Well
- Groundwater Flow Direction
- Potentiometric Surface Contour (Inferred Where Dashed)

- B** Benzene (ug/L)
- T** Toluene (ug/L)
- E** Ethylbenzene (ug/L)
- X** Total Xylenes (ug/L)
- TOC** Top of Casing (ft. AMSL)
- GWEL** Groundwater Elevation (ft. AMSL)



Not To Scale



MWH



PROJECT:

CANADA MESA #2

TITLE:

Groundwater Potentiometric Surface Map,
and BTEX Concentrations - December 10, 2008

FIGURE:

1

FIGURE 2
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
CANADA MESA #2 (METER #87640)
MW01

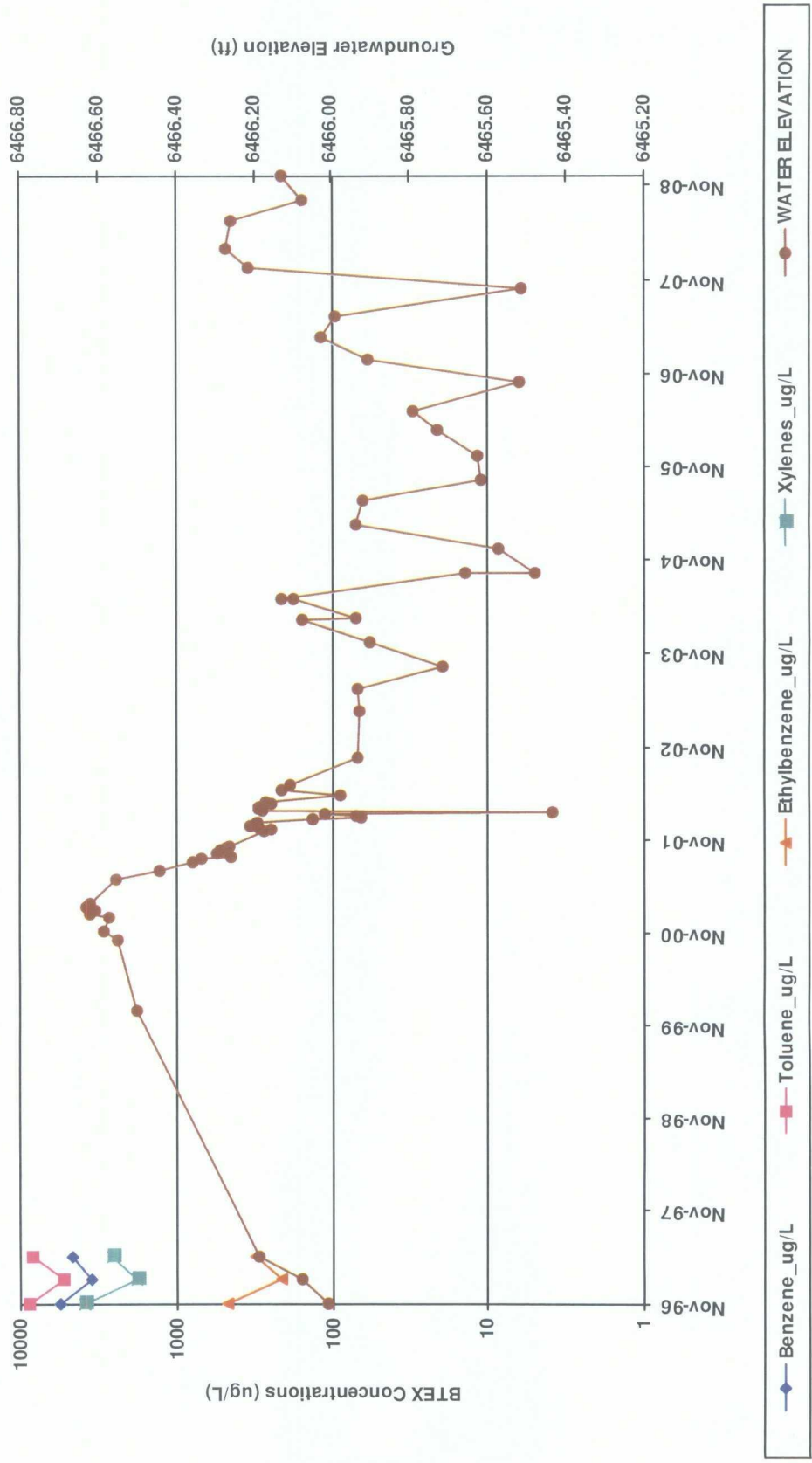


FIGURE 3
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
CANADA MESA #2 (METER #87640)
MW02

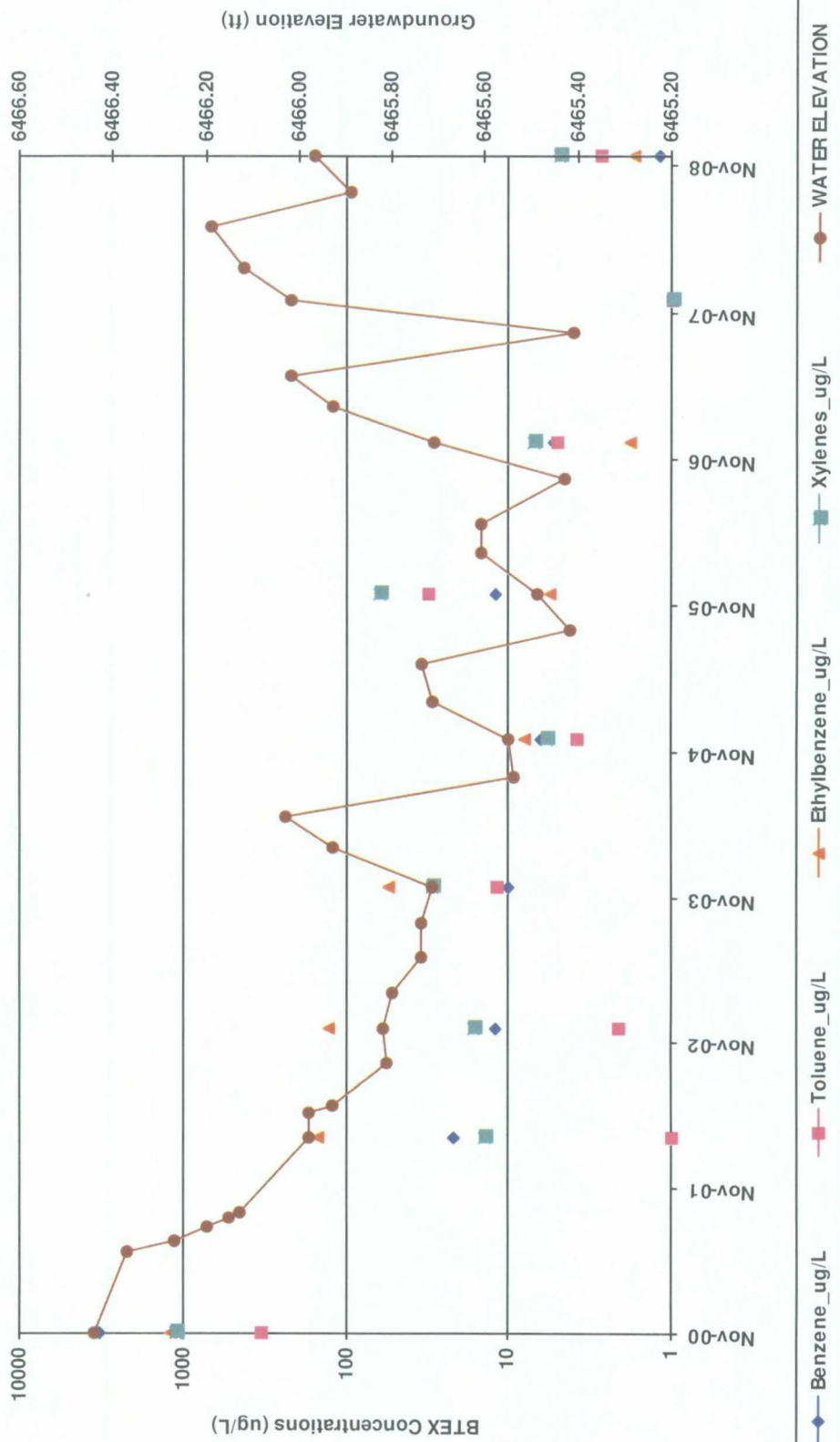


FIGURE 4
SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
CANADA MESA #2 (METER #87640)
MW03

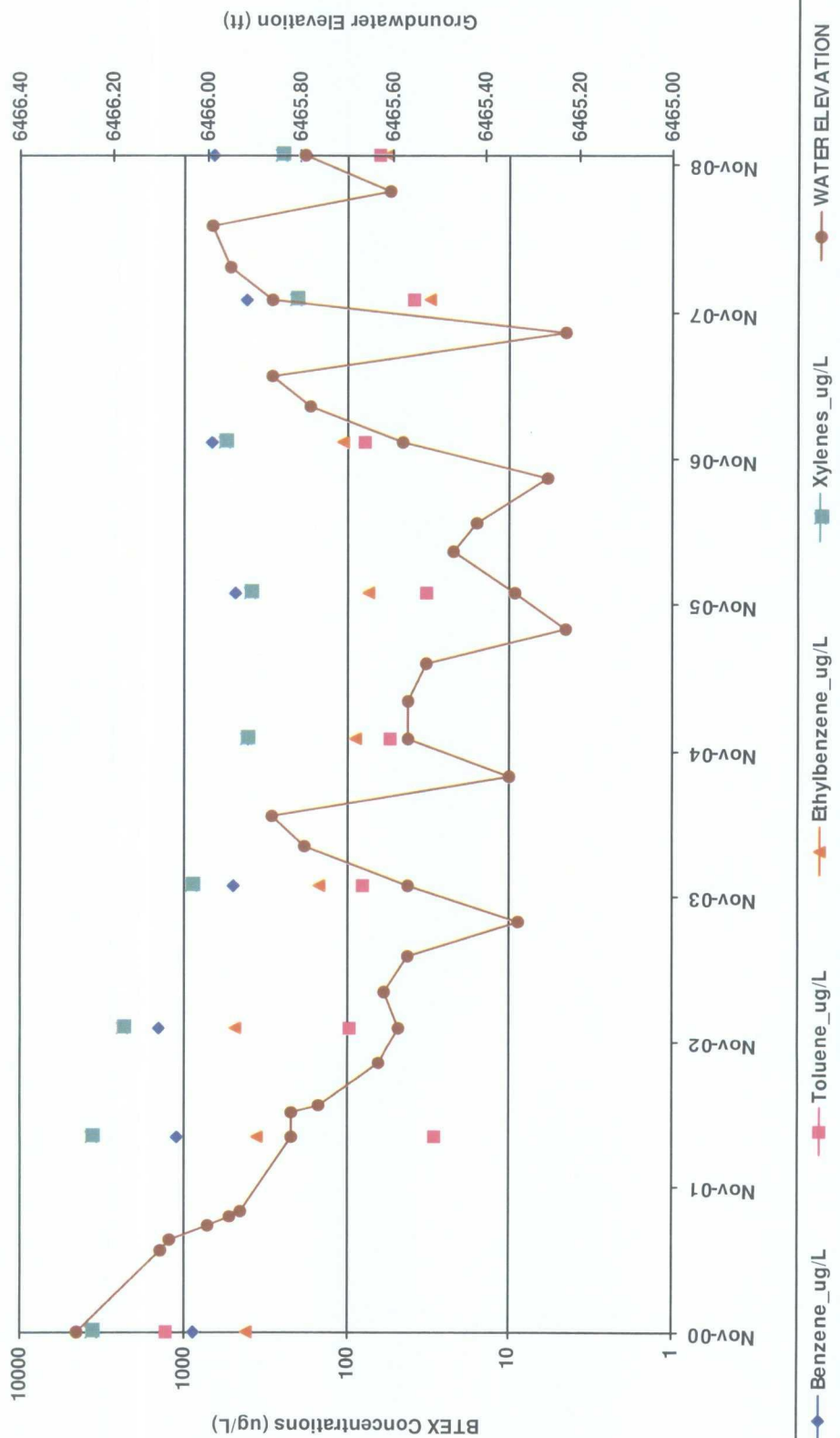


FIGURE 5
SUMMARY OF FREE-PRODUCT REMOVAL
CANADA MESA #2 (METER #87640)
MW01

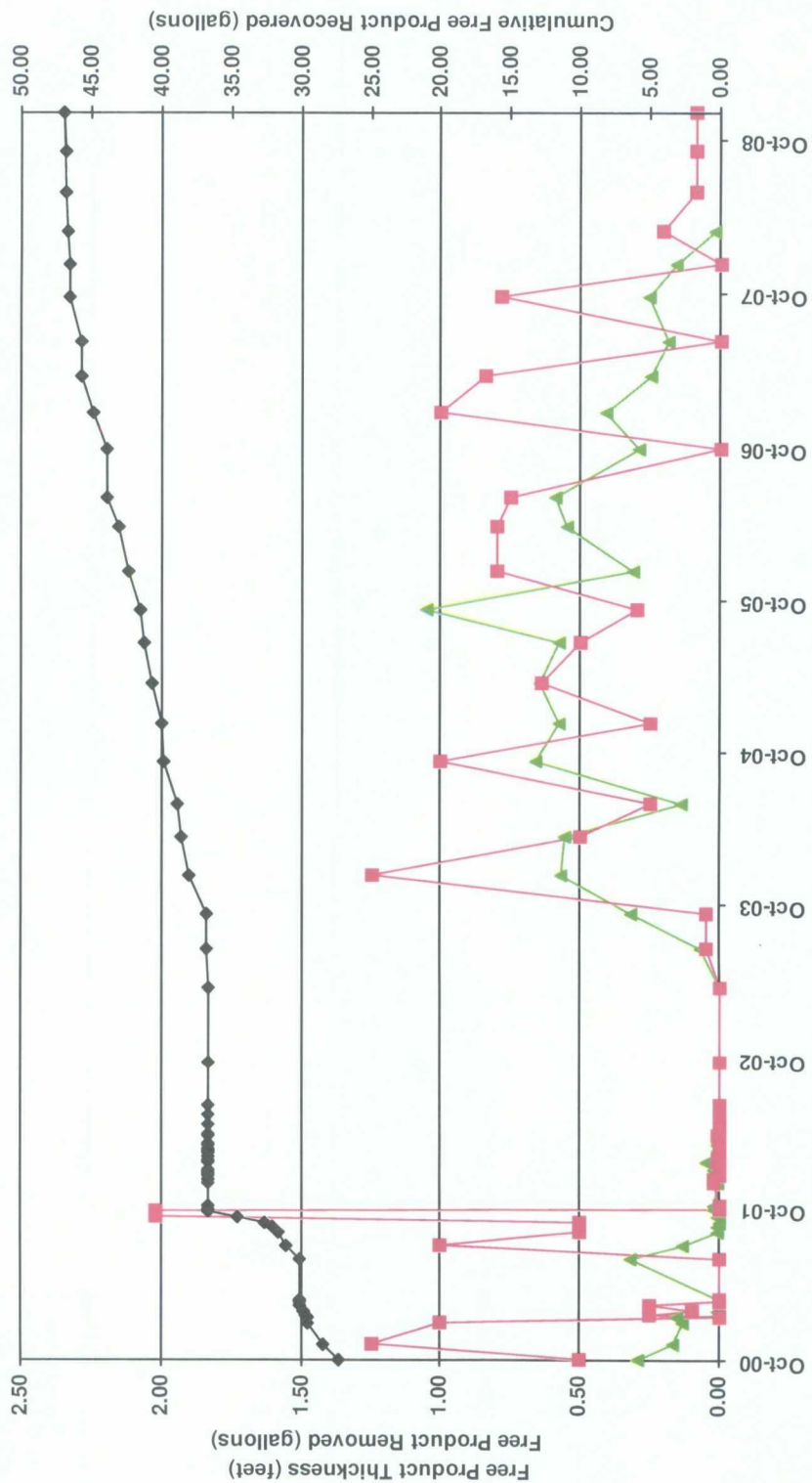


TABLE 1

**SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES
CANADA MESA #2 (METER #87640)**

Monitoring Well	Sample Date	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	Depth to Water (ft BTOC)
MW01	11/4/1996	5520	8880	469	3920	34.42
	2/5/1997	3450	5200	214	1770	34.35
	5/7/1997	4650	8440	317	2580	34.24
MW02	11/16/2000	3200	330	1200	1100	34.90
	3/19/2002	22	1	150	14	35.36
	12/24/2002	12.1	2.1	129	16.4	35.52
	12/15/2003	10	11.7	55.3	29.7	35.63
	12/15/2004	6.3	3.8	8	5.9	35.79
	12/15/2005	12.1	30.9	5.6	61.9	35.85
	12/26/2006	5.3	5	1.8	7.1	35.63
	12/18/2007	1	1	1	1	35.32
	12/10/2008	1.2	2.7	1.7	4.9	35.37
MW03	11/16/2000	880	1300	420	3700	34.46
	3/19/2002	1100	29	360	3700	34.92
	12/24/2002	1430	95	483	2359	35.15
	12/15/2003	503	79.7	148	891	35.17
	12/15/2004	410	54.9	88.7	420	35.17
	12/15/2005	482	32.7	74.1	399	35.40
	12/26/2006	679	78.9	106	565	35.16
	12/18/2007	412	39.4	31.5	207	34.88
	12/10/2008	653	63.2	55.5	253	34.95

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

TABLE 2

**SUMMARY OF FREE-PRODUCT REMOVAL
CANADA MESA #2 (METER #87640)**

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	10/6/2000	33.82	34.11	0.29	0.50	27.23
	11/14/2000	33.81	33.98	0.17	1.25	28.48
	1/3/2001	33.83	33.96	0.13	1.00	29.48
	1/15/2001	33.78	33.93	0.15	0.00	29.48
	1/22/2001	33.81	33.81	0.00	0.25	29.73
	1/30/2001	33.82	33.83	0.01	0.10	29.83
	2/13/2001	33.80	33.80	0.00	0.25	30.08
	2/20/2001	33.81	33.81	0.00	0.00	30.08
	2/28/2001	33.81	33.81	0.00	0.00	30.08
	6/4/2001	33.81	34.13	0.32	0.00	30.08
	7/3/2001	33.96	34.09	0.13	1.00	31.08
	8/6/2001	34.07	34.08	0.01	0.50	31.58
	8/20/2001	34.09	34.10	0.01	0.50	32.08
	8/31/2001	34.17	34.17	0.00	0.50	32.58
	9/14/2001	34.13	34.14	0.01	2.02	34.60
	9/26/2001	34.14	34.15	0.01	2.02	36.62
	10/2/2001	34.15	34.17	0.02	0.00	36.62
	10/10/2001	34.16	34.18	0.02	0.00	36.62
	12/5/2001	34.25	34.26	0.01	0.02	36.64
	12/14/2001	34.27	34.27	0.00	0.02	36.66
	12/21/2001	34.24	34.24	0.00	0.00	36.66
	12/28/2001	34.22	34.22	0.00	0.00	36.66
	1/2/2002	34.23	34.23	0.00	0.00	36.66
	1/7/2002	34.23	34.25	0.02	0.00	36.66
	1/23/2002	34.37	34.42	0.05	0.01	36.67
	1/30/2002	34.50	34.51	0.01	0.01	36.68
	2/7/2002	34.49	34.50	0.01	0.00	36.68
	2/14/2002	34.41	34.42	0.01	0.00	36.68
	2/20/2002	34.99	35.00	0.01	0.00	36.68
	2/26/2002		34.25	0.00	0.00	36.68
	3/7/2002	34.24	34.25	0.01	0.00	36.68
	3/12/2002	34.24	34.25	0.01	0.00	36.68
	3/28/2002		34.27	0.00	0.01	36.69
	4/3/2002		34.26	0.00	0.00	36.69
	4/25/2002		34.45	0.00	0.00	36.69
	5/21/2002		34.30	0.00	0.00	36.69
	6/10/2002		34.32	0.00	0.00	36.69
	9/23/2002		34.50	0.00	0.00	36.69
	3/25/2003		34.50	0.00	0.00	36.69

TABLE 2

**SUMMARY OF FREE-PRODUCT REMOVAL
CANADA MESA #2 (METER #87640)**

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	6/22/2003	34.48	34.55	0.07	0.05	36.74
	9/15/2003	34.65	34.97	0.32	0.05	36.79
	12/15/2003	34.41	34.98	0.57	1.25	38.04
	3/17/2004	34.24	34.80	0.56	0.50	38.54
	6/3/2004	34.30	34.44	0.14	0.25	38.79
	9/13/2004	34.64	35.30	0.66	1.00	39.79
	12/15/2004	34.74	35.32	0.58	0.25	40.04
	3/22/2005	34.36	35.01	0.65	0.64	40.68
	6/24/2005	34.39	34.97	0.58	0.50	41.18
	9/14/2005	34.60	35.65	1.05	0.30	41.48
	12/14/2005	34.74	35.05	0.31	0.80	42.28
	3/28/2006	34.59	35.14	0.55	0.80	43.08
	6/7/2006	34.52	35.11	0.59	0.75	43.83
	9/29/2006	34.85	35.14	0.29	0.00	43.83
	12/26/2006	34.44	34.85	0.41	1.00	44.83
	3/26/2007	34.35	34.60	0.25	0.84	45.67
	6/13/2007	34.20	35.39	1.19	0.00	45.67
	9/28/2007	34.86	35.12	0.26	0.79	46.46
	12/18/2007	34.18	34.34	0.16	0.00	46.46
	3/5/2008	34.15	34.17	0.02	0.21	46.67
	6/4/2008			0.00	0.09	46.76
	9/10/2008		34.35	0.00	0.09	46.85
	12/10/2008		34.30	0.00	0.09	46.94