FINAL GROUNDWATER MONITORING REPORT FEBRUARY, MAY, & SEPTEMBER 2007 EVENTS

PEMACO SUPERFUND SITE

5050 E. Slauson Avenue
Maywood, California

SFUND RECORDS CTR
2278810

Prepared for:

U.S. Environmental Protection Agency
Region IX
San Francisco, California

Sullivan International Group
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September 2008

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Transmittal Letter

To:	Ms. Rose Marie Caraway Remedial Project Manager	**Company:**	U.S. EPA
Address:	US-EPA Region IX 75 Hawthorne St. San Francisco, CA 94105-3901		
From:	Dacre Bush	**Date:**	**September 5, 2008**
Re:	Final Groundwater Monitoring Report, February, May, and September 2007 Events Pemaco Superfund Site, Maywood, California, September 2008		
CC:	John Hartley, USACE, Omaha District (CD)		

☐ **Urgent**	☑ **For Review**	☐ **Please Comment**	☐ **Please Reply**	☐ **FYI**

Dear Ms. Caraway;

Enclosed please find two hard copies of the *Final Groundwater Monitoring Report, February, May and September 2007 Events, Pemaco Superfund Site, Maywood, California, September 2008.*

Please contact me if you have any questions or comments at 805-295-9071.

Regards,
T N & Associates, Inc.

Dacre Bush

Dacre Bush
Senior Remedial Specialist
dbush@tnainc.com

FINAL GROUNDWATER MONITORING REPORT FEBRUARY, MAY, & SEPTEMBER 2007 EVENTS

FOR

PEMACO SUPERFUND SITE
MAYWOOD, CALIFORNIA

Prepared for

U.S. Environmental Protection Agency – Region IX
San Francisco, California

Sullivan International Group

September 2008

Review and Approval

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TN&A Senior Project Manager	Dacre Bush	9/5/08 Date
TN&A QC Manager/Project Geologist	Jacques Marcillac, PG	9/5/08 Date
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TN&A Project Environmental Scientist	Harvinder Keila	9/5/2008 Date

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EXECUTIVE SUMMARY

This quarterly report has been prepared by T N & Associates, Inc. (TN&A) under contract with the U.S. Army Corps of Engineers Rapid Response and Sullivan International Group, Inc., at the request of the United States Environmental Protection Agency (USEPA), Region IX, Contract No. DACA45-97-D-0015 for the Pemaco Superfund Site Remedial Action to summarize the results of groundwater monitoring and sampling activities completed at the Pemaco Superfund Site ("Pemaco" or "the Site") in 2007 in Maywood, California.

This document focuses on the groundwater sampling activities, completed during February, May and September 2007. The remedial action being implemented according to the *Record of Decision* (ROD) *Pemaco Maywood Superfund Site, Maywood, California*, prepared by the USEPA on 13 January 2005 (USEPA, 2005), consists of dual-phase extraction (DPE), groundwater extraction, and soil vapor extraction processes to remove volatile organic compounds (VOCs), primarily trichloroethene (TCE), from the subsurface. Electrical resistance heating (ERH) is also being used in the source area (the area with the highest TCE concentrations) to expedite the remediation process, which is anticipated to take 5 years. Groundwater extraction and treatment began on April 25, 2007 and the vapor extraction and treatment began on May 4, 2007. ERH began on September 27, 2007.

An enhanced *in-situ* bioremediation (EISB) pilot study is currently being conducted in conjunction with the thermal treatment (ERH) for the residual source area in order to evaluate the use of the EISB in combination with the thermal treatment, and also as a stand-alone technology for the dissolved phase plume. The *Pemaco Bio-Pilot Interim Status Report, Pemaco Superfund Site, Maywood, California,* prepared by TN&A, dated November 2007 (TN&A, 2007c) outlines and fully addresses the objectives outlined in the EISB Pilot Study.

Also, in order to determine the progress of the ERH/vapor extraction remediation at the site, soil vapor samples from the vapor monitoring point (VMP) wells are collected as part of the sampling program. The frequency included a baseline event, and then increased to monthly when ERH was turned on. The type and frequency of analysis are detailed in the SAP, and the data is also posted on the project web site. The soil vapor data is not discussed in this quarterly report, however, results and analysis will be provided in the "post"-ERH report.

PEMACO QUARTERLY SAMPLING RESULTS FOR FEBRUARY, MAY AND SEPTEMBER 2007

Below is a summary table stating dates of each quarterly event, number of wells for each zone and total number of wells with COCs > SSRLs during this reporting period:

Event	Sampling Dates	Number of Wells Sampled						Total Number of Wells Not Sampled		
		Perched Zone	Exposition Zones							
			'A'	'B' *	'C'	'D'	'E'	DRY	FP	N/A
1Q 2007	February 13 to 26	43	24	39	6	6	1	14	0	6
2Q 2007	May 24 to June 14	33	11	36	6	6	1	32	4	9
3Q 2007	September 6 to 19	34	10	37	6	6	1	35	4	6
Total number of wells with COCs > SSRLs during 1Q		42	19	34	6	4	0	Not applicable		
Total number of wells with COCs > SSRLs during 2Q		27	8	31	5	4	0	Not applicable		
Total number of wells with COCs > SSRLs during 3Q		28	8	34	5	4	0	Not applicable		

Notes:

1Q – First Quarter
2Q – Second Quarter
3Q – Third Quarter

* – 'AB' Zone data compiled with 'B' Zone data
FP – Free Product
N/A – Not Accessible

- The most prevalent compounds in Perched groundwater underlying the Pemaco area include PCE, TCE, cis-1,2-DCE and VC. Significant decreases of PCE concentrations are apparent in wells B-01, B-19, B-31, B-32, SV-03, and extraction wells PC-06, PD-06, PD-07 and PD-08. Significant decreases in TCE concentrations are apparent in wells B-01, B-13, B-22 and B-27, while concentrations are consistently increasing in off-site well PB-03. Concentrations of cis-1,2-DCE and VC are also increasing in this extraction well, and these increases are likely a result of the DPE System start-up in May 2007.

- The third quarterly sampling event of 2007 indicates that 1,4-dioxane is significantly decreasing in Perched Zone wells B-01, B-20, PD-05, PD-06, and PD-08, while increasing concentrations have been observed in wells B-13 and B-21. Concentrations of 1,4-dioxane are stable in well PC-06. A total of eight monitoring wells had 1,4-dioxane detected above the Site Specific Remediation Level (SSRL) during the third quarter. The 1,4-dioxane plume occurs within the area of the chlorinated solvent plumes identified within the Perched Zone.

- Wells within the Perched Zone with free product include wells B-15, B-28, B-29 and PD-04. The free product detected in wells B-15 and PD-04 is related to Pemaco historical uses and is being addressed by the DPE System, while the free product detected in wells B-28 and B-29 is related to the W.W. Henry property, and is being addressed by their own remediation system under the auspices of the Los Angeles Regional Water Quality Control Board. Wells which have become de-watered in the Perched Zone include wells B-11, B-12, B-23, B-25, B-26, PC-01, PD-01 and SV-04.

- As groundwater levels within the 'A' Zone have fluctuated significantly due to extraction during this reporting period, the estimated surface area of the Exposition 'A' Zone TCE plume decreased from approximately 6.07 acres in the first quarter, to approximately 1.31 acres in the third quarter, resulting in a decrease of approximately 78%. A total of 10 monitoring wells, 1 recovery well and 5 extraction wells have become de-watered within the Exposition 'A' Zone since pumping began.
- The most extensive contaminant plume at the Site is found in the Exposition 'B' Zone and is comprised of TCE and its associated daughter products. The estimated surface area of this plume in September 2007 was estimated at 5.43 acres, which is a 30% decrease in size since February 2007. Although seasonal fluctuations in TCE concentrations have been observed in both the "source area" and fringes of the plume, the overall size and shape of the 'B' Zone TCE plume have been relatively stable since the Pemaco groundwater monitoring and sampling program began in May 2001. The effects of the DPE System, which began in May 2007 are clearly evident.
- Groundwater sampling data collected from wells within the 'C' Zone indicate stable COC concentrations with the exception of wells located near the "source area", including wells MW-24-110 and MW-25-110 where TCE is steadily increasing. Well MW-24-110 was converted to an extraction well in August 2007 to mitigate these increases.
- COCs in monitoring wells located within Exposition 'D' Zone are generally stable, with TCE concentrations detected slightly above SSRLs in wells MW-07-130, MW-24-140 and MW-25-130.
- The monitoring well located within Exposition 'E' Zone, MW-10-170, does not indicate any detections above SSRLs for COCs.
- 1,4-Dioxane was detected in Exposition Zones wells DA-01, DB-01, DB-06, MW-20-85, DAB-08, and MW-23-110, during the third quarter of 2007.

This quarterly report provides detailed groundwater sampling data and analyses and relevant observation to all parties involved in the management and review of the Site groundwater remediation. Continued progress on the groundwater and soil vapor remediation is documented by on-going weekly progress reports and real-time website data for the ERH remediation. In addition, groundwater remediation progress is reported in these Quarterly Groundwater Monitoring Reports.

7.2 EXPOSITION 'A' ZONE GROUNDWATER SAMPLING RESULTS 25
7.2.1 Volatile Organic Compounds (VOCs) 26
7.3 1,4-DIOXANE 27
7.4 EXPOSITION 'B' ZONE GROUNDWATER SAMPLING RESULTS 27
7.4.1 Volatile Organic Compounds (VOCs) 27
7.4.2 1,4-Dioxane 28
7.5 EXPOSITION 'C' ZONE GROUNDWATER SAMPLING RESULTS 28
7.5.1 Volatile Organic Compounds (VOCs) 28
7.5.2 1,4-Dioxane 29
7.6 EXPOSITION 'D' AND 'E' ZONES GROUNDWATER SAMPLING RESULTS 29
7.6.1 Volatile Organic Compounds (VOCs) 29
7.6.2 1,4-Dioxane 30
8.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) 31
8.1 FIELD DUPLICATE RESULTS 31
8.2 FIELD AND LABORATORY BLANK RESULTS 31
8.3 DATA VALIDATION EFFORT DISCUSSION 32
8.3.1 Data Validation Summary 32
8.3.2 The 1st Quarter 2007 Data Validation Summary 33
8.3.3 The 2nd Quarter 2007 Data Validation Summary 34
8.3.4 The 3rd Quarter 2007 Data Validation Summary 35
9.0 CHEMICAL DISTRIBUTIONS AND TRENDS 36
9.1 PERCHED ZONE 36
9.1.1 VOCs 36
9.1.2 1,4-Dioxane 39
9.2 EXPOSITION 'A' ZONE 39
9.2.1 VOC Plume 39
9.2.2 1,4-Dioxane 42
9.3 EXPOSITION 'B' ZONE 42
9.3.1 VOC Plume 42
9.3.2 1,4-Dioxane 44
9.4 VOCS IN GROUNDWATER EXPOSITION 'C' ZONE 45
9.5 VOCS IN GROUNDWATER EXPOSITION 'D' & 'E' ZONES 45
10.0 CONCLUSIONS 47
11.0 REFERENCES 49

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 SCOPE OF QUARTERLY REPORT 1
1.2 SITE BACKGROUND 1
1.3 INVESTIGATIVE SITE HISTORY 1
1.4 REMEDIAL ACTION OBJECTIVES 2
1.5 PROJECT TEAM ROLES AND CONTACT NUMBERS 3
1.6 PROJECT WEBSITE 3
2.0 SITE GEOLOGY/STRATIGRAPHY 4
2.1 REGIONAL GEOLOGY/HYDROGEOLOGY 4
2.2 GEOLOGY/HYDROGEOLOGY OF THE STUDY AREA 4
2.2.1 Surface and Near-Surface Soil 5
2.2.2 Upper Vadose Zone 5
2.2.3 Lower Vadose Zone 5
2.2.4 Perched Zone 6
2.2.5 Exposition Zones 'A' Through 'E' 6
3.0 REMEDIAL INVESTIGATION ACTIVITIES 9
3.1 PREVIOUS GROUNDWATER INVESTIGATIONS AND FINDINGS 9
3.2 POST REMEDIAL INVESTIGATION 11
3.2.1 Perched Zone 11
3.2.2 Exposition Groundwater 'A' through 'E' Zones 11
4.0 FIELD AND ANALYTICAL METHODS 12
4.1 GROUNDWATER SAMPLING METHODOLOGIES 12
4.1.1 Low-Flow Sampling 12
4.2 SAMPLE ANALYSIS AND LABORATORY INFORMATION 14
4.3 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SAMPLES 15
4.4 QA/QC MODIFICATION FOR VOC ANALYSIS BY USEPA CLP PROGRAM 15
5.0 GROUNDWATER ELEVATION AND FLOW PATTERNS 16
5.1 PERCHED ZONE GROUNDWATER ELEVATIONS AND GRADIENTS 16
5.2 EXPOSITION 'A' ZONE 16
5.3 EXPOSITION 'B' ZONE 16
5.4 EXPOSITION 'C' ZONE 17
5.5 EXPOSITION 'D' & 'E' ZONES 17
6.0 SUMMARY OF GROUNDWATER MONITORING ACTIVITIES 18
6.1 FEBRUARY 2007 MONITORING EVENT 18
6.1.1 Perched Zone Wells 18
6.1.2 Exposition Zone Wells 18
6.2 MAY 2007 MONITORING EVENT 20
6.2.1 Perched Zone Wells 20
6.2.2 Exposition Zone Wells 20
6.3 SEPTEMBER 2007 MONITORING EVENT 21
6.3.1 Perched Zone Wells 21
6.3.2 Exposition Zone Wells 22
6.4 PEMACO ENHANCED *IN SITU* BIOREMEDIATION (EISB) PILOT STUDY 23
7.0 GROUNDWATER QUALITY 24
7.1 PERCHED ZONE GROUNDWATER SAMPLING RESULTS 24
7.1.1 Volatile Organic Compounds (VOCs) 24
7.1.2 1,4-Dioxane 25

LIST OF FIGURES

Figure 1-1 Site Location Map
Figure 1-2 Site Plan with all Monitoring and Extraction Well Locations
Figure 1-3 Electrical Resistance Heating (ERH) Area
Figure 5-1 Groundwater Gradient Maps - Perched Zone
Figure 5-2 Groundwater Gradient Maps - Exposition 'A' Zone
Figure 5-3 Groundwater Gradient Maps - Exposition 'B' Zone
Figure 5-4 Groundwater Gradient Maps - Exposition 'C' Zone
Figure 5-5 Groundwater Gradient Maps - Exposition 'D' Zone
Figure 6-1 Selected Analytes in Groundwater - Perched Zone
Figure 6-2 Selected Analytes in Groundwater - Exposition 'A' Zone
Figure 6-3 Selected Analytes in Groundwater - Exposition 'B' Zone
Figure 6-4 Selected Analytes in Groundwater - Exposition 'C' Zone
Figure 6-5 Selected Analytes in Groundwater - Exposition 'D' & 'E' Zones
Figure 7-1 Trichloroethene Plume in Groundwater - Exposition 'A' Zone
Figure 7-2 Trichloroethene Plume in Groundwater - Exposition 'B' Zone

LIST OF TABLES

Table 1 Site Stratigraphy
Table 2 Well Construction Data – Perched Zone
Table 3 Well Construction Data – Exposition 'A' through 'E' Zones
Table 4 Groundwater Sample Analysis Summary (February, May, September 2007)
Table 5 Water Level Data (February, May, September 2007)
Table 6 Volatile Organic Compounds (VOCs) In Groundwater. Perched Zone (February, May, September 2007)
Table 7 Volatile Organic Compounds (VOCs) In Groundwater, Exposition 'A' Zone (February, May, September 2007)
Table 8 Volatile Organic Compounds (VOCs) In Groundwater, Exposition 'B' Zone (February, May, September 2007)
Table 9 Volatile Organic Compounds (VOCs) In Groundwater, Exposition 'AB' Zone (February, May, September 2007)
Table 10 Volatile Organic Compounds (VOCs) In Groundwater, Exposition 'C' Zone (February, May, September 2007)

LIST OF TABLES (CONTINUED)

Table 11 Volatile Organic Compounds (VOCs) In Groundwater, Exposition 'D' and 'E' Zones (February, May, September 2007)

Table 12 1,4-Dioxane In Groundwater (February, May, September 2007)

Table 13 Field Duplicate Results In Groundwater (February, May, September 2007)

Table 14 Summary of Detections In Trip Blank and Method Blanks (February, May, September 2007)

LIST OF GRAPHS

Graph 1-A Perched Groundwater Zone Hydrograph for Wells B-1 to B-18

Graph 1-B Perched Groundwater Zone Hydrograph for Wells B-19 to B-31

Graph 1-C Perched Groundwater Zone Hydrograph for Wells B-32 to B-39

Graph 2 Exposition 'A' Groundwater Zone Hydrograph

Graph 3 Exposition 'B' Groundwater Zone Hydrograph

Graph 4-A Exposition 'C' Groundwater Zone Hydrograph

Graph 4-B Exposition 'D' & 'E' Groundwater Zones Hydrograph

Graph 5-A Benzene Concentrations in Groundwater vs. Time, Perched Zone Wells B–01 to B-18

Graph 5-B Benzene Concentrations in Groundwater vs. Time, Perched Zone Wells B–19 to B-37

Graph 5-C Benzene Concentrations in Groundwater vs. Time, Perched Zone Wells B–38, B-39, SV-01, SV-03 and SV-05

Graph 5-D Benzene Concentrations in Groundwater vs. Time, Perched Zone Wells PA-03 to PA-05 & PB-01 to PB-05

Graph 5-E Benzene Concentrations in Groundwater vs. Time, Perched Zone Wells PB-07 & PC-02 to PC-06 & PD-04 to PD-09

Graph 5-F Benzene Concentrations in Groundwater vs. Time, Exposition 'A' Zone: Wells: DA-01 to DA-12

Graph 5-G Benzene Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: MW-03-70 to MW-26-75

Graph 5-H Benzene Concentrations in Groundwater vs. Time, Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85

Graph 5-I Benzene Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: DB-01 to DB-12

Graph 5-J Benzene Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-02-95 to MW-12-90

LIST OF GRAPHS (CONTINUED)

Graph 5-K Benzene Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-13-85 to MW-27-90 and RW-01-95

Graph 5-L Benzene Concentrations in Groundwater vs. Time, Exposition 'C' Zone Wells: MW-05-105 to MW-25-110

Graph 5-M Benzene Concentrations in Groundwater vs. Time, Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170

Graph 6-A Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Perched Zone Wells: B-01 to B-18

Graph 6-B Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Perched Zone Wells: B-19 to B-37

Graph 6-C Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Perched Zone Wells: B-38, B-39; SV-01, SV-03 and SV-05

Graph 6-D Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05

Graph 6-E Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Perched Zone Wells: PB-07 & PC-02 to PC -06; PD-04 to PD-09

Graph 6-F Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: DA-01 to DA-12

Graph 6-G Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: MW-03-70 to MW-26-75

Graph 6-H Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85

Graph 6-I Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: DB-01 to DB-12

Graph 6-J Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-02-95 to MW-12-90

Graph 6-K Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95

Graph 6-L Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'C' Zone Wells: MW-05-105 to MW-25-110

Graph 6-M Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time, Exposition 'D' & 'E' Zones Wells: MW-05-135 to MW-10-170

Graph 7-A Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: B-01 to B-18

Graph 7-B Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: B-19 to B-37

Graph 7-C Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05

LIST OF GRAPHS (CONTINUED)

Graph 7-D Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05

Graph 7-E Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: PB-07; PC-02 to PC -06; PD-04 to PD-09

Graph 7-F Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: DA-01 to DA-12

Graph 7-G Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: MW-03-70 to MW-26-75

Graph 7-H Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85

Graph 7-I Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: DB-01 to DB-12

Graph 7-J Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-02-95 to MW-12-90

Graph 7-K Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95

Graph 7-L Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'C' Zone Wells: MW-05-105 to MW-25-110

Graph 7-M Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time, Exposition 'D' & 'E' Zones Wells: MW-05-135 to MW-10-170

Graph 8-A Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: B-01 to B-18

Graph 8-B Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: B-19 to B-37

Graph 8-C Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05

Graph 8-D Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05

Graph 8-E Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09

Graph 8-F Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: DA-01 to DA-12

Graph 8-G Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: MW-03-70 to MW-26-75

Graph 8-H Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85

Graph 8-I Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: DB-01 to DB-12

LIST OF GRAPHS (CONTINUED)

Graph 8-J Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-02-95 to MW-12-90

Graph 8-K Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-13-85 to MW-27-90 & RW-01-95

Graph 8-L Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'C' Zone Wells: MW-05-105 to MW-25-110

Graph 8-M Trichloroethene (TCE) Concentrations in Groundwater vs. Time, Exposition 'D' & 'E' Zones Wells: MW-05-135 to MW-10-170

Graph 9-A Toluene Concentrations in Groundwater vs. Time, Perched Zone Wells: B–01 to B-18

Graph 9-B Toluene Concentrations in Groundwater vs. Time, Perched Zone Wells: B–19 to B-37

Graph 9-C Toluene Concentrations in Groundwater vs. Time, Perched Zone Wells: B–38, B-39; SV-01, SV-03 & SV-05

Graph 9-D Toluene Concentrations in Groundwater vs. Time, Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05

Graph 9-E Toluene Concentrations in Groundwater vs. Time, Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09

Graph 10-A Vinyl Chloride Concentrations in Groundwater vs. Time, Perched Zone Wells: B–01 to B-18

Graph 10-B Vinyl Chloride Concentrations in Groundwater vs. Time, Perched Zone Wells: B–19 to B-37

Graph 10-C Vinyl Chloride Concentrations in Groundwater vs. Time, Perched Zone Wells: B–38, B-39; SV-01, SV-03 & SV-05

Graph 10-D Vinyl Chloride Concentrations in Groundwater vs. Time, Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05

Graph 10-E Vinyl Chloride Concentrations in Groundwater vs. Time, Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09

Graph 10-F Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: DA-01 to DA-12

Graph 10-G Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'A' Zone Wells: MW-03-70 to MW-26-75

Graph 10-H Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85

Graph 10-I Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: DB-01 to DB-12

Graph 10-J Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-02-95 to MW-12-90

LIST OF GRAPHS (CONTINUED)

Graph 10-K Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95

Graph 10-L Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'C' Zone Wells: MW-05-105 to MW-25-110

Graph 10-M Vinyl Chloride Concentrations in Groundwater vs. Time, Exposition 'D' & 'E' Zones Wells: MW-05-135 to MW-10-170

LIST OF APPENDICES

Appendix A Field Forms

Appendix B Laboratory Reports and Data Validation Reports

Appendix C Summary of Analytical Data

ACRONYMS AND ABBREVIATIONS

AST	above ground storage tank
bgs	below ground surface
C°	degree Centigrade
CD	compact disc
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CRQL	contract required quantitation limits
D	Exposition Well in "D" Zone
DPE	Dual-phase Extraction
DVD	digital video disc
EDD	electronic data deliverables
EISB	Enhanced *In Situ* Bioremediation
EPA	Environmental Protection Agency
EPP	Environmental Protection Plan
ERH	Electrical Resistive Heating
ERM	Environmental Resources Management, Inc
FT/FT	feet per foot
FTO	Flameless Thermal Oxidizer
GIS	Geographical Information System
Hg	Mercury
in.	inches
ISMS	Integrated Safety Management System
LEL	Lower Explosive Limit
LARWQCB	Los Angeles Regional Water Quality Control Board
MDL	method detection limits
MOMP	Management and Operation and Maintenance Plan
MSDS	Material Safety Data Sheet
NCP	National Contingency Plan
O&M	Operation and Maintenance
OM	Operation Manager
OSHA	Occupational Safety and Health Agency
P	Perched Well Zone
PCE	Tetrachloroethene
PID	Photo Ionization Detector
PM	project manager
ppb	parts per billion
PPE	Personal Protective Equipment
QA	quality assurance
QC	quality control

ACRONYMS AND ABBREVIATIONS (CONTINUED)

RAO	Remedial Action Objectives
RCRA	Resource Conservation and Recovery Act
ROD	Record of Decision
SAP	Sampling and Analysis Plan
SARA	Superfund Amendments and Reauthorization Act
SCFM	Standard Cubic Feet per Minute
SOW	Scope of Work
SQL	Sequel Data Base
SSHP	Site Specific Health and Safety Plan
SSRL	Site Specific Remediation Levels
SVE	Soil Vapor Extraction
TCE	Trichloroethene
TI	Temperature Indicator
TN&A	T N & Associates, Inc.
TRS	Thermal Remediation Services, Inc.
USACE	United States Army Corp of Engineering
UST	underground storage tanks
VMP	Vapor Monitoring Point
VR	Vapor Recovery Well
WMP	Waste Management Plan

1.0 INTRODUCTION

This document has been prepared by T N & Associates, Inc. (TN&A) under contract with the U.S. Army Corps of Engineers Rapid Response Omaha District and Sullivan International Group, Inc., at the request of the United States Environmental Protection Agency (USEPA), Region IX, contract No. DACA45-97-D-0015 to summarize the results of groundwater monitoring activities and data results for completed at the Pemaco Superfund Site (the Site) in 2007 in Maywood, California.

This report focuses on the first three quarterly groundwater monitoring events in February, May and September, 2007 respectively, for the Perched and Exposition 'A' through 'E' Zones.

All field and laboratory work was completed in accordance with the *Final Sampling and Analysis Plan, Remedial Investigation/Feasibility Study, Pemaco Superfund Site, Maywood, California*, Prepared by TN&A, dated 2001 (TN&A, 2001) and with the *Draft Sampling and Analysis Plan, (field sampling plan and quality assurance project plan), Monitoring, Operations and Maintenance for the Pemaco Remedial Action, Pemaco Superfund Site, Maywood, California*, Prepared by TN&A, dated 2007 (TN&A, 2007a) in addition to SAP modifications approved by the USEPA Region IX Quality Assurance Group PMD –3 and USACE.

1.1 SCOPE OF QUARTERLY REPORT

This quarterly report presents detailed analysis of the groundwater levels and groundwater quality for the Perched and Exposition 'A' through 'E' Zones during the first three quarterly events of 2007.

The objectives of the quarterly groundwater monitoring program at the Site include:

To monitor extents of VOC plumes within selected Perched and Exposition Zones;

To provide continued monitoring of 1,4-dioxane within each the Perched and Exposition Zone wells; and

- To evaluate the effectiveness of the soil vapor and groundwater treatment implemented at the Site beginning in April 2007.

1.2 SITE BACKGROUND

The Pemaco Superfund Site is comprised of 1.4 acres located in a mixed industrial and residential neighborhood in Maywood, Los Angeles County, California. Figure 1-1 shows the Site location and vicinity map. The facility formally operated as a custom chemical blender from the 1950s until 1991. A wide variety of chemicals were used and stored on site including chlorinated and aromatic solvents, flammable liquids, oils and specialty chemicals. These chemicals were stored in drums, aboveground storage tanks (ASTs) and underground storage tanks (USTs). In 1991, the facility was abandoned by its owner. Remaining stored chemicals in drums and storage tanks (USTs) were removed by the EPA between 1992 and 1998.

1.3 INVESTIGATIVE SITE HISTORY

Environmental assessments performed between 1990 and 1999 identified soil and groundwater contamination that originated from the blending and storage of chemicals at the Site. A soil vapor extraction (SVE) system was installed as an interim treatment measure in 1998 and operated until 1999, when it was shut down due to community concerns about emissions from the thermal oxidation unit used to treat the extracted vapors.

The EPA enlisted the Pemaco Site into the Superfund program in 1999, and TN&A performed a full-scale remedial investigation between January 2001 and November 2001.

Groundwater monitoring, "data gap" investigations, and pilot-scale activities for the evaluation of remedial technologies have been on-going for the Pemaco Site, as TN&A conducted treatability tests including aquifer testing in December 2001 and a high vacuum dual phase extraction pilot test in December 2002. Additional "source" area evaluations were performed in September 2003 and September 2005 via membrane interface probe (MIP). The *Record of Decision (ROD) for Pemaco Maywood Superfund Site, Maywood, California*, prepared by the United States Environmental Protection Agency (USEPA) for the soil vapor and groundwater systems was finalized in January 2005.

1.4 REMEDIAL ACTION OBJECTIVES

The remedial action objectives (RAOs) for the Pemaco Superfund Site are to protect human health and the environment from threats caused by exposure to contaminated soil, soil vapor, indoor air, and groundwater; and to restore groundwater to potential beneficial use as a drinking water source. All chemicals of concern (COCs) have been identified at the Site and are listed with their respective Site Specific Remediation Levels (SSRLs) in Table 8.1 in the Pemaco ROD dated January 13, 2005 (EPA, 2005). In order to meet the RAO for the primary contaminant at the Site, TCE, it is necessary to remediate groundwater to 5 micrograms per liter (µg/L), by the end of the remediation period, which is scheduled for 5 years.

For expedited source reduction to meet the groundwater and soil RAOs within the source area, TN&A began an aggressive remedial water & vapor treatment system at the Site. This area consisted of dual-phase extraction (DPE), groundwater extraction, and soil vapor extraction processes. These processes remove volatile organic compounds (VOCs), namely trichloroethene (TCE), from the subsurface. Electrical resistance heating (ERH) is also being used in the source area. ERH began on September 25, 2007 in the main source area (Figure 1-3) to heat the soil and groundwater to the boiling temperature of water; vapor and liquids are brought to the surface through a network of extraction wells. Granular activated carbon (GAC) is used for both water and vapor treatment, and a Flameless Thermal Oxidizer (FTO) unit is applied for vapor treatment.

A comprehensive description of the extraction and treatment system is contained in the *Draft Final Monitoring Operations and Maintenance Plan for the Pemaco Remedial Action, Pemaco Superfund Site, Maywood, California,* Prepared by TN&A, dated October 2007 (TN&A, 2007a) and in the *Final Remedial Design Report, Pemaco Superfund Site, Maywood, California*, Prepared by TN&A, dated August 2006 (TN&A, 2006). The ERH contractor is using the site's extraction and treatment system for removal and destruction and/or capture of the contaminants of concern. An overview of the ERH implementation and operation is contained in *Work Plan, In Situ Thermal Remediation (Electrical Resistance Heating),* Prepared by Thermal Remediation Services, Inc. (TRS), dated September 21, 2006 (TRS, 2006).

The City of Maywood, in conjunction with the Trust for Public Land, has developed the northern portion of the Site and adjacent properties as the Maywood Riverfront Park, a public recreational area. The future remedial activities at the Site will be integrated with the existence of this park. The park opened to the public in April 2008.

1.5 PROJECT TEAM ROLES AND CONTACT NUMBERS

Technical contacts for the Pemaco Superfund Site include:

Contact	Affiliation	Contact Number
Ms. Rose Marie Caraway	USEPA, Remedial Project Manager	(415) 972-3158
Mr. John Hartley	USACE, Technical Manager	(402) 293-2523
Mr. Tim Garvey	TN&A, Project Director	(805) 585-6386
Mr. Dacre Bush	TN&A, Senior Project Manager	(805) 295-9071
Mrs. Ewelina Mutkowska, MSc	TN&A, Project Chemist	(805) 585-6391
Mr. Jacques Marcillac, PG	TN&A, QC Manager, Project Geologist	(805) 585-6382

1.6 PROJECT WEBSITE

The Pemaco project website serves as a work environment where internal and external participants come together as a cohesive team. All data generated through system monitoring as well as environmental data (e.g. groundwater chemical data and vapor data) is accessible to the project team via the website. The website functions as a secure virtual office space with tools and facilities necessary for the project team members to continuously stay up to date on developments and to interact with one another. Useful tools available on the project website include: a bulletin board, a calendar, events and announcements, an online library of relevant historical materials, operational materials, reports, graphics, animations, interactive maps, and interactive schematics. Web access is possible by contacting the USEPA Remedial Project Manager, Rose Marie Caraway.

2.0 SITE GEOLOGY/STRATIGRAPHY

The regional and study area stratigraphy is described below, while Table 1 summarizes site stratigraphy as encountered in continuously cored borings drilled during RI activities.

2.1 REGIONAL GEOLOGY/HYDROGEOLOGY

The Los Angeles–Orange County coastal plain is a structural basin formed by folding of the consolidated sedimentary, igneous and metamorphic rocks that underlie the basin at great depths. Primary geologic/hydrogeologic units in the area, from youngest to oldest include:

Recent Alluvium

Primarily composed of unconsolidated braided-river and floodplain deposits. These deposits comprise the uppermost 30 to 40 feet of soil/sediment in the immediate area.

Pleistocene Lakewood Formation, including the Exposition and Gage/Gardena Aquifers

Consisting of braided river and floodplain deposits. In the Site area, sediments of the Lakewood Formation generally comprise the stratigraphic interval between approximately 35 and 200 feet bgs. Saturated intervals of the Lakewood Formation within the study area that are stratigraphically equivalent to the Exposition Aquifer do not meet the strict definition of an aquifer because they are not capable of yielding economically significant quantities of water. The Gage/Gardena Aquifer is assumed to be located between 180 and 200 feet bgs in the site vicinity, however, this has not been confirmed. The deepest borehole drilled during the RI activities reached 183 feet bgs.

Lower Pleistocene San Pedro Formation, including the Hollydale, Jefferson, Lynwood and Silverado Aquifers

A variety of lithosomes deposited in both marine and non-marine environments. In the Site area of the Central Groundwater Basin, the stratigraphic top of the San Pedro Formation is generally placed at the base of the Gage/Gardena Aquifer (basal Lakewood Formation), estimated to occur at approximately 200 feet bgs. The uppermost unit of the San Pedro Formation is a 50- to 75-foot thick fine-grained lithosome, generally regarded as an aquitard. The Hollydale and Jefferson aquifers are the upper aquifers in the San Pedro Formation and may be present below the Site, with the top of the uppermost coarse-grained unit occurring somewhere between 250 and 325 feet bgs.

The aquifers mentioned above are all used for both municipal and industrial purposes in various parts of the Central Basin. In the Site area, screened/perforated intervals in nearby production wells begin in the San Pedro Formation Aquifers, usually at depths of 350 feet bgs or deeper. The closest active well is approximately ½ mile south of the Site (screen interval begins at 610 feet bgs), one of the two wells owned and operated by Mutual Maywood Water Company No. 3. The shallowest production well within one mile of the Site is screened starting at 350 feet bgs within the uppermost aquifer of the San Pedro Formation (the Jefferson Aquifer). In general, the groundwater flow direction in the aquifers is southwest, towards the coast.

2.2 GEOLOGY/HYDROGEOLOGY OF THE STUDY AREA

There are two distinct hydrogeologic units within the study area: a perched groundwater zone and the stratigraphic equivalent of the more regional Exposition Aquifer. Site stratigraphy is summarized in Table 1 and may be used in conjunction with the discussion of each zone described below.

The following nomenclature was adopted to describe the stratigraphy and lithologic units underlying the site vicinity: Surface and Near-surface Soil; Upper Vadose Zone; Lower Vadose

Zone; Perched Groundwater Zone; and Exposition 'A' through 'E' Zones. This nomenclature will be used throughout the document as they relate to analytical results and RAs associated with the Site.

2.2.1 Surface and Near-Surface Soil

Surficial fill in the area varies in thickness from 2 to 6 feet and is typically comprised of dark yellowish brown silty sands and local gravelly sands or clayey gravels.

2.2.2 Upper Vadose Zone

For purposes of this report, the upper vadose zone includes the upper vadose zone sands and the perching clay. The saturated zone above the perching clay (perched groundwater zone) is discussed in Section 2.1.1.4.

Upper Vadose Zone Sands

Typical depth of the upper vadose zone is between 2 to 25 feet below ground surface (bgs). These native soils are predominately light olive gray to dark yellowish brown laminated to moderately bedded fine silty sands ranging from 1 to 20 feet in thickness interbedded with pale yellowish brown to light olive gray lenses of laminated to poorly bedded poorly graded sands and fine poorly graded sands with silt which are 2-inches to 6-feet thick. Local discontinuous lenses of olive gray sandy silt and lean clay lenses ranging from 3 inches to 4 feet thick are also present within the upper vadose zone sand.

Perching Clay

Typical depth of the perching clay is between 28 to 40 feet bgs. The top of this unit is comprised of silty lean and fat clays ranging from 1 to 15 feet in thickness, which are underlain and interbedded with olive gray to moderate yellowish brown clayey and sandy silts ranging from 1 to 8 feet in thickness. The perching clay and associated clayey silts comprise the fine-grained lithosome that ranges from 10 to 20 feet in total thickness. Local unsaturated silty sand and sands with silt lenses are found within the lithosome.

2.2.3 Lower Vadose Zone

Lower Vadose Zone Sand

The lower vadose zone sand is typically found between 40 to 50 feet bgs. It is predominately fine- to medium-grained, unsaturated, poorly graded sands and gravelly well-graded sands derived from granitic source rocks. The zone typically coarsens downward with poorly bedded gravelly basal units. The lower vadose zone sands are usually 1- to 14-foot thick with local intervals of silty sands and poorly graded sands with silt which are 6-inches to 3-foot thick. Local interbeds of silt lenses are 6-inches to 4-foot thick within this unit. The lower vadose zone sand appears to be continuous throughout the area as it was encountered in every boring completed in the site vicinity except in the area adjacent to MW 12 (Alamo and 60th Street) where it appears to pinch out locally. The thickest local sequences are found along District Blvd. and in the area underlying 60th Street between Walker Ave. and District Boulevard. Fine silty sands comprise the unit in locations where the interval is less than 3 feet thick.

Lower Vadose Zone Fine-Grained Unit

Typical depth of the lower vadose zone fine-grained unit is between 50 to 65 feet bgs. It is comprised of sandy and clayey silts ranging from 7 to 20 feet in thickness interbedded with lean and fat clays ranging from 6 inches to 5 feet in thickness. Local discontinuous lenses of unsaturated poorly graded sands and silty sands are 0.5- to 2-foot thick within this interval. The thickest areas of the unit are predominately silt. Localized abundant organic material can also be found throughout the interval.

2.2.4 Perched Zone

The perched groundwater zone is typically found between 25 and 40 feet bgs within the study area. Groundwater in the perched zone occurs in semi-continuous and discontinuous lenses of poorly graded sand, silty sand, and sandy silt. These lenses are located at different depths ranging from 20 and 40 feet bgs and 5 inches to 5 feet in thickness. The geometry of the perched zone is controlled by the highly irregular and undulating top surface of the underlying, laterally extensive perching clay.

Measurements of depths to groundwater in the perched zone in the Pemaco site vicinity have ranged from 14.65 feet bgs (B-30, September 2007) to 44.55 feet bgs (B-17, September 2007) since measurements began in September 2000. Groundwater fluctuations of greater than 12 feet have been observed since routine gauging started. Currently sixty (60) monitoring wells are installed within the perched groundwater zone.

The complex hydrogeology of the perched zone causes highly variable groundwater gradients. The overall general component of apparent groundwater flow in the perched zone is towards the southwest, but there are many localized areas that indicate that the apparent groundwater flow is in multiple directions. The perched zone can be characterized by low transmissivities and very limited yield. This is not a viable aquifer.

2.2.5 Exposition Zones 'A' Through 'E'

Beneath the perched groundwater zone, lie five distinct saturated intervals present within the study area which are typically found between 65 and 175 feet bgs, separated by silt/clay intervals. These saturated zones do not comprise a viable aquifer as the groundwater yield does not produce economically significant quantities of water to local production wells. However, as these zones are stratigraphically equivalent with the more regional Exposition Aquifer, they have been have been informally named the Exposition 'A' through 'E' Zones. Currently, forty-five (45) monitoring wells and thirty-four (34) extraction wells are installed within the five Exposition Zones.

Exposition 'A' Zone

The first saturated zone encountered below the perched zone is Exposition 'A' Zone, typically found between 65 and 75 feet bgs. It is comprised of fine silty and poorly graded sands locally interbedded with well-graded sands. The thickness of this zone is highly variable ranging from 3 inches to 10 feet in thickness. This interval can be characterized as a series of semi-discontinuous saturated sand lenses.

Potentiometric surface measurements in the semi-confined Exposition 'A' Zone have ranged from 52.52 feet bgs (MW-07-75, July 2003) to 64.27 feet bgs (MW-20-70, October 2003), and groundwater fluctuations of up to 12 feet have been observed in the 'A' Zone since measurements began in May 2001. Groundwater gradient of the Exposition 'A' Zone ranges from 0.008 feet/foot (ft/ft; 9/4/07) to 0.012 ft/ft (5/29/07), and apparent groundwater flow directions have been consistently towards the northwest and west during these quarterly events.

Exposition 'B' Zone

The 'B' Zone is the second saturated zone below the perching layer and is typically found between 80 and 90 feet bgs. It is comprised of fine silty sands, poorly graded sands and poorly graded sands with silt ranging from 1.5 to 10 feet in thickness. The fine-grained silty sands are typically light olive gray mottled with moderate yellowish brown or moderate olive brown. Some of the thicker portions of the unit have 4-foot-thick interbeds of silt/clay. The 'B' Zone is continuous throughout the site vicinity, except in the area along District Blvd., south of 60th Street, where it pinches out.

A secondary saturated silty sand lens located between 90 and 92 feet bgs was consistently observed during the coring of borings MW-16 through MW-18 and RW-01 located in the southernmost portion of the Pemaco Site. This secondary lens is isolated from the 'B' Zone described above by an overlying interval of fat clay ranging in thickness from 1 to 3 feet. Monitoring well MW-17-95 was screened solely in this zone for aquifer test purposes. This zone was informally named the 'B2' Zone. The 'B2' lens was not encountered in any of the offsite borings that were cored below 90 feet bgs.

Potentiometric surface measurements in the confined Exposition 'B' Zone have ranged from 57.71 feet bgs (MW-13-85, May 2001) to 72.40 feet bgs (MW-17-95, October 2002), and groundwater fluctuations of more than 12 feet have been observed in the 'B' Zone since measurements began in May 2001. Groundwater gradient of the Exposition 'B' Zone ranges from 0.004 ft/ft (2/12/07) to 0.032 ft/ft (9/4/07), and apparent groundwater flow directions have generally been towards the southwest.

The 'B' Zone is more uniform and laterally continuous than the 'A' Zone. These two zones are the predominant zones of concern.

Exposition 'C' Zone

The 'C' Zone is typically found between 100 and 105 feet bgs. It is comprised of saturated dark greenish gray fine silty sands, poorly graded sands and poorly graded sands with silt ranging from 2 to 6 feet in thickness. It appears to be continuous throughout the site vicinity within the 95 to 110 feet depth interval.

Potentiometric surface measurements in the Exposition 'C' Zone have ranged from 87.31 feet bgs (MW-1-100, October 2003) to 97.56 feet bgs (MW-25-110, October 2003), and groundwater fluctuations of more then 4 feet have been observed in the 'C' Zone since measurements began. Groundwater gradient of the Exposition 'C' Zone ranges from 0.0014 ft/ft (9/4/07) to 0.0016 ft/ft (2/12/07 and 5/29/07). Apparent groundwater flow directions have generally been towards the south.

Exposition 'D' Zone

The 'D' Zone is typically found between 125 and 145 feet bgs. It is comprised of interbedded fine silty sands, poorly graded sands and poorly graded sands with silt, well-graded sands and gravelly sands and local well-graded sandy gravel intervals. Total thickness ranges from 6 to 15 feet. This zone is the thickest and highest yielding of all the Exposition Zones encountered in the Site vicinity.

Potentiometric surface measurements in the Exposition 'D' Zone have ranged from 97.00 feet bgs (MW-07-130, January 2003) to 106.34 feet bgs (MW-25-130, September 2007), and groundwater fluctuations of more then 13 feet have been observed in the 'D' Zone since measurements began. Groundwater gradients of the Exposition 'D' Zone ranged from 0.0015 ft/ft (2/12/07) to 0.0017 ft/ft (9/4/07) and inferred groundwater flow directions have generally been towards south.

Exposition 'E' Zone

The 'E' Zone is typically found between 160 and 175 feet bgs and is comprised of alternating saturated intervals of 1-feet-thick fine silty sands and well-graded sands. Only one monitoring well, MW-10-170, has been installed in this zone and potentiometric surface measurements in the Exposition 'E' Zone have ranged from 92.16 feet bgs (January 2003) to 105.75 feet bgs (September 2007). Due to the limited number of monitoring wells screened within the Exposition 'E' Zone, no gradient data is available for this zone.

3.0 REMEDIAL INVESTIGATION ACTIVITIES

Numerous soil and groundwater investigations have been conducted at the Site and at the adjacent properties to assess the nature and extent of contamination at the Site and the surrounding area. This has resulted in a large database of physical and chemical information associated with the various site media (i.e., surface and near-surface soil, upper vadose zone soil, perched groundwater, lower vadose zone soil and Exposition groundwater). A brief description of historical activity is described below.

3.1 PREVIOUS GROUNDWATER INVESTIGATIONS AND FINDINGS

The first soil assessment of the property was completed in 1990 on behalf of Pemaco, Inc. by ALT, the potentially responsible party and former owner and operator of the property. The first groundwater monitoring wells installed were the converted borings B-01 through B-16; these wells are screened in the perched groundwater zone underlying the site vicinity from approximately 25 to 35 feet bgs. The owner abandoned the Site sometime after 1991 and environmental activities at the Site became the responsibility of the State of California, and eventually the USEPA under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA).

No analytical data for wells B-01 through B-16 was reported prior to May 1997, at which time Ecology and Environment, Inc. sampled them as part of the Environmental Site Investigation (ESI) performed at the Site (E&E, 1998a). Results indicated that various Volatile Organic Compounds (VOCs) were present in every well sampled (B-01, B-02, B-04 through B-08, B-10 through B-12, B-14 and B-15). The highest VOC concentrations were TCE (180 µg/L in B-12), VC (290 µg/L in B-08) and 1,2-DCE (350 µg/L in B-01). These elevated chlorinated VOC concentrations were found mainly in the drum storage area. However, several of the samples from the former UST areas were analyzed using elevated detection limits and did not accurately characterize the groundwater concentrations. Also, benzene, toluene, ethylbenzene, and xylene components were not part of the reported analyte list for the perched groundwater samples.

Wells B-02, B-06 and B-09 were found to contain floating free product when they were sampled in May 1997. This free product was analyzed and results indicated that it was comprised of 20% to 30% gasoline range hydrocarbons.

Fourteen (14) of these original perched zone wells still exist at the Site: B-01, B-03 through B-08 and B-10 through B-16 (Figure 1-2), however, wells B-02 and B-09 were destroyed during UST removal actions.

In addition to the perched groundwater wells, four additional monitoring wells (MW-01 through MW-04) were installed during the ESI. These wells were screened within the Exposition Zones (60 to 100 feet bgs) and sampled for VOCs in May and November 1997. No VOC concentrations were detected above detection limits in upgradient well MW-01 located 15 feet northwest of the Site between the Site boundary and the train tracks (Los Angeles Junction Railroad). Onsite well MW-02, located in the southeastern portion of the Site, had elevated TCE (1,090 µg/L), cis-1,2-DCE (7.59 µg/L) and VC (3.88 µg/L) concentrations. Well MW-03, located approximately 35 feet downgradient to the south-southeast of the Site, had elevated 1,1-DCE, cis-1,2-DCE, PCE and TCE concentrations ranging from 5.46 µg/L (PCE) to 9,600 µg/L (TCE). Well MW-04, located approximately 45 feet downgradient to the southeast of the Site, had elevated 1,1-DCE, cis-1,2-DCE, PCE and TCE concentrations ranging from 4.53 µg/L (PCE) to 11,000 µg/L (TCE).

No water sampling occurred at the Pemaco Site between November 1997 and October 2000.

In October 2000, after the operation of the SVE system (installed in 1998 and shut down in 1999), a preliminary investigation was performed by TN&A to assess existing site contamination. Nine perched zone wells (B-01, B-03 through B-05, B-10, B-13, B-15, SV-01, and SV-05) and Exposition Zone wells MW-01 through MW-04 were sampled and analyzed for VOCs, semi-volatile organic compounds (SVOCs) and non-halogenated volatile organic compounds (NHVOCs). In addition, 43 soil gas samples were collected from vertical and horizontal wells associated with the decommissioned SVE system and analyzed for VOCs. Results for the October 2000 groundwater event can be referenced in the *Draft Summary of Groundwater and SVE System Sampling Events, October 2000* (TN&A, 2000). Results indicated that every well sampled had concentrations of selected COCs that were above regulatory levels.

The USEPA placed the Pemaco Site on the NPL in January 1999, making it eligible for cleanup action under Superfund. A full-scale RI was performed by USEPA between January 2001 and November 2001 to identify the nature and extent of soil and groundwater contamination present at the Site. These activities included the collection of over 2,500 ambient air, soil, soil vapor, and groundwater samples.

Eighteen (18) groundwater monitoring wells (MW-05-85 through MW-13-85) were installed in March and April 2001 within the Exposition Zones.

In April 2001, sixteen (16) shallow groundwater monitoring wells (B-17 through B-32) were installed by TN&A within the vicinity of the Pemaco Site as a part of the RI/FS.

The full-scale RI involved the installation of fifty-four (54) additional monitoring wells and the development of a quarterly groundwater monitoring and sampling program, which began in May 2001.

In November 2001, seven (7) more shallow wells (B-33 through B-39) were installed to address data gaps. All of these wells are generally screened between 25 and 35 feet bgs within the perched groundwater zone that underlies the Site area. Each of the perched wells, B-17 through B-39, were installed with direct push techniques using pre-packed 1.5-inch diameter wells, except for B-38, which is a 2-inch diameter well installed with a hollow-stem auger due to a subgrade that was encountered and caused Geoprobe refusal.

In November 2001, six (6) additional double-nested wells and a recovery well (MW-14-80 through MW-19-90 and RW-01-95) were installed to perform an aquifer pump test. Several of these wells were multi-nested to monitor different groundwater zones at the same location. These wells were installed using hollow stem auger or mud-rotary techniques

One double-nested vapor probe, OB-1V, and one observation well, OB-1W, were installed in November 2002 to monitor a high-vacuum dual-phase extraction (HVDPE) pilot-test for the upper vadose/perched groundwater zone, using SV-01 as the recovery well.

An additional recovery well, RW-01-70, was installed in November 2002 to facilitate a HVDPE pilot-test for the lower vadose/Exposition 'A' Zone. (Recovery well, RW-01-95, was used in the HVDPE pilot test for the lower vadose/Exposition 'B' Zone.)

Well locations are illustrated in Figure 1-2, and a stratigraphic summary of lithosomes present in the vicinity of the Site is provided as Table 1. USEPA also conducted treatability tests and additional "data gap" assessments between December 2001 and December 2002 to support the Remedial Investigation (RI) and Feasibility Study (FS) phase of the Superfund process, which was performed between January 2002 and August 2003.

3.2 POST REMEDIAL INVESTIGATION

3.2.1 Perched Zone

Twenty-three (23) groundwater extraction wells were installed within the perched zone between August 15 and August 25, 2005. These wells were installed as part of the DPE system construction, and include wells PA-1 to PA-5, PB-1 to PB-7, PC-1 to PC-6 and PD-1 to PD-9.

A summary of construction details, surveying data and corresponding groundwater zones for the perched groundwater zone is presented in Table 2, while well locations are presented in Figure 1-2.

3.2.2 Exposition Groundwater 'A' through 'E' Zones

Thirty-two (32) groundwater extraction wells were installed within Exposition 'A' and 'B' Zones in September 2005. Installation of the extraction well series DA, DB and DAB was completed between September 7 and September 30, 2005. These wells were installed as part of the DPE system construction for the Exposition 'A' and 'B' Zones (Table 3):

Twelve (12) DA wells were installed within Exposition 'A' Zone (DA-01 through DA-12);

Twelve (12) DB wells were installed within Exposition 'B' Zone (DB-01 through DB-12); and

Eight (8) DAB wells were installed within Exposition 'AB' Zone (DAB-01 through DAB-08).

Monitoring wells MW-03-70/90, MW-04-75/90 and MW-26-75/90 were also installed in November 2006, and Monitoring well MW-27-70/90 was installed in December 2006. These wells were installed to better characterize the Source Area and to facilitate a bioremediation pilot test. The bioremediation pilot test is documented in the Enhanced *In Situ* Bioremediation (EISB) Pilot Test Work Plan (TN&A, 2006b).

Monitoring wells previously installed have been given identification modifiers according to their total depths rounded to the nearest five feet. For example, well MW-05-85 is approximately 85 feet in total depth bgs and well MW-05-135 is approximately 135 feet in total depth bgs.

A summary of construction details, surveying data and corresponding groundwater zones for each of the Exposition Zones, Zones 'A' through 'E' are presented in Table 3, and Figure 1-2 illustrates the well locations.

Wells which have been destroyed/abandoned during site remedial activities include:

Perched Zone wells B-02 and B-09 were destroyed during the 1997 tank pull activities;

Perched Zone wells B-06, B-14, B-16, B-35 and SV-02 were abandoned in August 2005 due to obstructions/logistical issues during remedial construction period;

Exposition Zone well series MW-15 through MW-18 - abandoned in August 2005 to accommodate ERH operation; and

Exposition Zone monitoring wells MW-3-85 and MW-4-85 were abandoned on 10/30-31/06 because they were completed through both A&B zones.

4.0 FIELD AND ANALYTICAL METHODS

Presented in this section are the field collection/measurement techniques and laboratory analytical methods used during the February, May and September 2007 quarterly groundwater monitoring and sampling events at the Site. A brief description of the groundwater elevation measurements, groundwater sampling network, and the sample analysis program is provided below.

All field and laboratory work was completed in accordance with the *Final Sampling and Analysis Plan, Remedial Investigation/Feasibility Study, Pemaco Superfund Site, Maywood, California*, Prepared by TN&A, dated 2001 (TN&A, 2001) and with the *Draft Sampling and Analysis Plan, (field sampling plan and quality assurance project plan), Monitoring, Operations and Maintenance for the Pemaco Remedial Action, Pemaco Superfund Site, Maywood, California*, Prepared by TN&A, dated 2007 (TN&A, 2007b) in addition to SAP modifications approved by the USEPA Region IX Quality Assurance Group PMD –3 and USACE.

The analytical program for quarterly events has evolved over time as new data was collected and evaluated.

4.1 GROUNDWATER SAMPLING METHODOLOGIES

This section summarizes the methods and procedures used to collect the groundwater samples during the 2007 quarterly groundwater monitoring events. Detailed descriptions of the sampling procedures are provided in the SAP (TN&A 2007a), and groundwater sampling was conducted in accordance with these described field procedures. In addition, all non-disposable sampling equipment and materials used during the field operations were decontaminated in accordance with the procedures outlined in the SAP (TN&A 2007a).

During each groundwater sampling event, depth-to-water and total depth measurements were collected prior to initiating well purging and sample collection activities. A permanent reference mark has been located or scribed onto the top of the casing at each well to provide a consistent reference point from which all levels are measured. Depth-to-water measurements were taken to an accuracy of 0.01 feet using an electronic water level indicator, or interface probe where the presence of free product was anticipated. Well construction details for the Perched Zone and Exposition Zone wells are presented in Tables 2 and 3, respectively. Depth-to-water measurements are presented in Table 5.

4.1.1 Low-Flow Sampling

During each Quarterly Groundwater Monitoring event, low-flow sampling was performed using procedures detailed in the SAP (TN&A 2007a). During low-flow sampling, the pump is lowered to a mid-point in the water column, and pumping rates are kept low, generally 0.50 liters per minute (L/min) or less, to minimize draw-down and reduce disturbance and stress to the local aquifer. Measurement of the water level in the well during purging determines the level of drawdown, which is used to optimize the flow rate for purging. The goal is to achieve a stabilized pumping water level as quickly as possible with minimal drawdown to avoid stressing the formation and mobilizing fine-grained solids, and to obtain stabilized indicator parameters in the shortest time possible. By closely monitoring the water table drawdown, the sampler can adjust the flow rate until equilibrium is established with the natural groundwater influx velocity. The groundwater sample is collected once indicator parameters have stabilized, indicating representative aquifer water.

During the 2007 Quarterly Groundwater Monitoring events, wells were purged with the intake of the low-flow bladder pump positioned near the base of the screen for each well, based on water levels. Each well was purged at an approximate rate of 0.2 to 0.5 L/min and monitored to ensure

that the groundwater level did not drop more than 10 percent of the total height of the water column. During purging, the conductivity, temperature, turbidity, pH, and dissolved oxygen (DO) were measured at regular time intervals in a flow-through cell and recorded on purge logs. All field measurements were recorded on groundwater Well Development/Sampling Logs. Copies of these field data logs for 2007 are provided in Appendix A.

Per the SAP (TN&A, 2007a), aquifer stabilization is achieved after three consecutive readings were within:

- ± 0.2 for pH,
- ± 20 millivolts for oxidation-reduction potential (ORP),
- ± 0.2 mg/L for dissolved oxygen (DO),
- < 50 NTU for turbidity,
- ± 10% (± 2°C) for temperature, and
- ± 10% for conductivity.

Once the groundwater parameters stabilized and turbidity goals met, the flow-through cell was disconnected and samples were collected from the bladder pump discharge line. The pumping flow rate was lowered to the lowest possible flow rate that would sustain laminar flow prior to collecting samples for VOCs. Samples were transferred into the appropriate sample containers per the project SAP (TN&A, 2007b). Immediately following collection, the samples were placed in coolers with ice, maintained at 4 ± 2 °C, and transported under appropriate chain of custody protocol to USEPA's Contract Laboratory Program (CLP) selected analytical laboratory or to Calscience Environmental Laboratories, Inc. (Calscience). Courier service was provided by the Calscience laboratory. Samples for USEPA CLP Laboratory analysis were shipped on a daily basis via FedEx Priority Overnight™. Copies of the completed chain-of-custody forms for the quarterly groundwater monitoring events are provided in Appendix B.

Groundwater generated from purging and sampling activities at the project site during the three quarterly events was containerized and pumped through the groundwater treatment system as a waste management procedure.

4.1.1.1 Exposition Zone Wells

Low-flow sampling was achieved and groundwater samples were collected from Exposition Zone wells using the following:

- Each monitoring well (MW) and recovery well (RW) is equipped with a dedicated bladder pump and sample tube;
- Extraction wells (identified by DA-, DAB-, and DB-) are equipped with existing pneumatic extraction pumps, and samples were collected from the existing sample port;

For the Exposition Zone, decontamination of the equipment is not necessary, with the exception of the water level indicator. These wells were purged and sampled according to the standard low-flow methods described above.

4.1.1.2 Perched Zone Wells

Perched Zone wells (identified by B-, P-, and SV-) were purged and sampled according to the low-flow methodology described above if the water column was at least 1 foot. These wells were purged and sampled using portable ¾-inch bladder pumps equipped with dedicated or

previously unused Teflon® bladders and disposable tubing. Wells with a water column less than 1 foot were purged and sampled manually, via disposable polyethylene bailers or decontaminated stainless steel Waterra™ foot valves equipped with dedicated or previously unused polyethylene tubing.

Groundwater generated from purging and sampling activities at the Superfund Site during the three quarterly events was collected in 500 gallon tanks mounted on the sample trucks. This purged groundwater was then pumped through the groundwater treatment system as a waste management procedure.

4.2 Sample Analysis and Laboratory Information

Pemaco groundwater samples were analyzed for a Target Compound List (TCL) VOCs by the USEPA CLP SOM01.1/SOM01.2 method. The TCL VOC list includes Pemaco-specific Chemicals of Concern (COCs) defined in the ROD (USEPA, 2005) for groundwater as acetone, 1,1-dichloroethane (DCA), 1,1-dichloroethene (DCE), 1,1,2-trichloroethane (TCA), 1,2-Dibromo-3-chloropropane, 1,2-DCA, benzene, chloroethane, chloroform, cis-1,2-DCE, dibromochloromethane, ethylbenzene, methylene chloride, methyl tert-butyl ether (MTBE), tetrachloroethene (PCE), trans-1,2-DCE, TCE, toluene, and VC.

The addition of hexane, isopropanol, and 1,4-dioxane to the TCL VOC list was requested as those compounds were historically detected at elevated concentrations. In addition, 1,4-dioxane was defined as a COC in the Perched Zone (USEPA, 2005). The physico-chemical properties of these additional compounds are not highly suitable for purge-and-trap procedure for VOC analysis. As a result, their reporting limits are high (100 µg/L) and results are often associated with QA/QC issues (for details refer to Section 8.0). Prior to September 2007, CLP protocol was revised to incorporate 1,4-dioxane as a target analyte for low concentration water VOC analysis (Low SOM01.2 method); for the trace concentration water VOC analysis (trace SOM01.2 method) 1,4-dioxane is no longer available. During the May and September 2007 quarterly sampling events, the alternative method for 1,4-dioxane analysis was employed, SW 3520B/8270C, involving continuous liquid-liquid extraction for sample preparation in order to generate definitive 1,4-dioxane results. Details of the quarterly groundwater sample analysis are provided in Table 4.

TCL VOC analysis by the USEPA CLP SOM01.1/SOM01.2 method was conducted by the following CLP-selected laboratories:

Shealy Environmental Services, Inc. (Shealy) located in West Columbia, SC;

A4 Scientific, Inc. located in The Woodlands, TX; and

Mitkem Corporation, Inc. (Mitkem) located in Warwick, RI.

The following is a summary of analytical laboratories and their respective analyses and methods:

Event / CLP Case No.	Laboratory	Analysis	Method
February 2007 / CLP Case No. 36123	USEPA CLP Shealy	TCL VOCs plus hexane, 1,4-dioxane & isopropanol	SOM01.1
May 2007 / CLP Case No. 36408	USEPA CLP A4 Scientific	VOCs plus hexane, 1,4-dioxane & isopropanol	SOM01.1
September 2007 / CLP Case No. 36768	USEPA CLP Mitkem	VOCs plus hexane & isopropanol	SOM01.2
May 2007 and September 2007	Calscience under TN&A's contract	1,4-dioxane	SW 3520B/ 8270C

4.3 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) SAMPLES

Several quality QA/QC samples were collected during each sampling event. These included field duplicates (FD), trip blanks (TB), and matrix spike/matrix spike duplicate (MS/MSD) samples. MS/MSD samples are not required for VOC groundwater analysis under the EPA CLP protocol. Equipment rinsate blanks were not collected because all samples were taken using dedicated or disposable sampling equipment.

In general, one FD sample was collected per every 10 samples collected; one trip blank was included in every cooler used to transport VOC samples; and when applicable one set of MS/MSD was collected for every 20 field samples collected. A temperature blank was also included in each cooler used to transport samples so that the receiving laboratory could confirm the proper preservation temperatures. During the first quarterly sampling event 12 field duplicates and 10 trip blanks were collected. All field QC samples were provided for USEPA CLP laboratory analysis. During the second quarterly sampling event 12 field duplicates and 13 trip blanks were submitted for TCL VOC analysis to USEPA CLP laboratory. In addition, 4 field duplicates for 1,4-dioxane were provided to Calscience. In December 2007, 10 field duplicates and 10 trip blanks were collected for USEPA CLP laboratory analysis. In addition, 2 field duplicates were submitted to Calscience for 1,4-dioxane analysis.

Laboratory QA/QC procedures were carried out according to EPA CLP analysis protocols and the data was accepted based on the QA/QC criteria established by the EPA. Laboratory QA/QC samples with a water matrix included method blanks, storage blanks, laboratory control samples (LCS), LCS duplicates (LCD), MS, and MSD samples.

Results for all QA/QC samples are discussed in Section 8.0.

4.4 QA/QC MODIFICATION FOR VOC ANALYSIS BY USEPA CLP PROGRAM

On October 24, 2002, US EPA Region 9 informed TN&A that MS/MSD analysis is no longer required for volatile organics analysis performed according to US EPA CLP protocols (OLC03.2 for low concentration water samples and OLM04.2 for multi-concentration water samples). Instead of MS/MSD analysis, the precision and accuracy assessment will be accomplished using deuterated monitoring compounds analysis (DMC). The DMCs such as vinyl chloride-d3, chloroethane-d5, 1,1-dichloroethene-d2, 2-butanone-d5, chloroform-d, and benzene-d6 are added to all the samples and blanks. The precision and accuracy of the method is evaluated by comparing percent recoveries of DMCs against the QC limits.

5.0 GROUNDWATER ELEVATION AND FLOW PATTERNS

A total of 139 monitoring and extraction wells are currently installed within the Perched Zone and Exposition 'A' through 'E' Zones in the vicinity of the Site, as of September 2007. Well construction data for Perched Zone wells is presented on Table 2 and on Table 3 for the Exposition Zones. Groundwater depth levels were taken with an electronic sounder during the February, May and September, 2007 events. Water level data collected during these events are presented in Table 5.

The following sections summarize each hydrogeologic unit in more detail as well as the findings of the groundwater gauging data for each groundwater zone. Hydrographs Graph 1 through Graph 4 illustrate groundwater elevations versus time since well installment.

5.1 PERCHED ZONE GROUNDWATER ELEVATIONS AND GRADIENTS

Measurements of depths to groundwater in the Perched Zone in the Pemaco site vicinity have ranged from 14.65 feet bgs (B-30, September 2007) to 44.55 feet bgs (B-17, September 2007) since measurements began in September 2000. Groundwater fluctuations of greater than 12 feet have been observed since routine gauging started. The abnormally high water levels in selected wells were likely due to the Maywood Riverfront Park irrigation program. Graphs 1-A through 1-C illustrate groundwater fluctuation of the Perched Zone wells (installed prior to, during and post RI/FS/RA activities) from September 2000 to September 2007.

The complex hydrogeology of the Perched Zone causes highly variable groundwater gradients. The overall general component of apparent groundwater flow in the Perched Zone is towards the southwest, but there are many localized areas that indicate that the apparent groundwater flow is in multiple directions. The gradient maps of the Perched Zone for the first, second and third quarters of 2007 are illustrated in Figure 5-1. Due to the irregular nature of the Perched Zone, no gradient was calculated.

5.2 EXPOSITION 'A' ZONE

Potentiometric surface measurements in the semi-confined Exposition 'A' Zone ranged from 53.43 feet bgs (MW-07-75, May 2001) to 78.14 feet bgs (MW-04-75, May 2007) since measurements began in May 2001. Potentiometric surface fluctuations of up to 12 feet have been observed in the 'A' Zone. Graph 2 illustrates groundwater fluctuation of this zone from May 2001 to September 2007.

Historical native state groundwater gradients/apparent flow directions for the 'A' zone have been consistently towards the south to the south-southwest at 0.008 ft/ft (September 2007) to 0.012 ft/ft (May 2007), which is consistent with plume geometry. However, in 2007, the installation of the ERH system electrodes have resulted in hydraulic connectivity between the 'A' and 'B' Zones in the ERH Area. This factor, along with groundwater extraction which began in April 2007, has resulted in a gradient direction towards the northwest and west, as illustrated by Figure 5-2.

5.3 EXPOSITION 'B' ZONE

Potentiometric surface measurements in the confined Exposition 'B' Zone ranged from 57.71 feet bgs (MW-13-85, May 2001) to 93.3 feet bgs (DB-08, September 2007) since measurements began. Potentiometric surface fluctuations of more then 12 feet have been observed in the Exposition 'B' Zone since measurements began in September 2000 (Graph 3).

Historical native state groundwater gradients/apparent flow directions for the 'B' zone have been consistently towards the southwest at 0.004 (February 2007) to 0.032 ft/ft (September 2007), which is consistent with plume geometry. However, after the ERH activities and groundwater

extraction program began, the apparent groundwater direction seems to flow in a south, north and west direction, as illustrated by Figure 5-3.

Potentiometric surface measurements in the confined Exposition 'AB' Zone ranged from 57.58 feet bgs (MW-4-85, September 2000 – well now abandoned) to 71.98 feet bgs (MW-05-85, September 2007) since measurements began in 2000 (Graph 2). Monitoring wells MW-01-80 and MW-05-85 were completed through both 'A' and 'B' zones, as the complex Site stratigraphy was not completely assessed at the time of well installation.

5.4 EXPOSITION 'C' ZONE

Potentiometric surface measurements in the confined Exposition 'C' Zone ranged from 88.60 feet bgs (MW-11-100, July 2001) to 100.46 feet bgs (MW-25-110, September 2007) since measurements began in May 2001. Potentiometric surface fluctuations of approximately 4 feet have been observed in the Exposition 'C' Zone since measurements began in May 2001 (Graph 4-A).

The groundwater gradient data collected from Exposition 'C' Zone wells during the February, May and September 2007 monitoring events is illustrated in Figure 5-4, respectively. Gradients ranged from 0.0014 ft/ft (September 2007) to 0.0016 ft/ft (February and May 2007), and apparent groundwater flow were towards the south-southeast to southeast until 8/02/07, when well MW-24-110 was converted to an extraction well. This has caused the apparent flow direction to change to an east to northeast direction as illustrated on Figure 5-4.

5.5 EXPOSITION 'D' & 'E' ZONES

Potentiometric surface measurements in the confined Exposition 'D' Zone ranged from 92.16 feet bgs (MW-10-170, January 2003) to 110.50 feet bgs (MW-25-130, September 2007) since measurements began in May 2001. Potentiometric surface fluctuations of more than 13 feet have been observed in the 'D' Zone since measurements began in May 2001 (Graph-4-B).

The groundwater gradient data collected from Exposition 'D' Zone wells during the February, May and September 2007 monitoring events is illustrated in Figure 5-5. Gradients ranged from 0.0015 ft/ft (2/12/07) to 0.0017 ft/ft (9/4/07), and apparent groundwater flow directions have generally been towards the southwest to south.

Potentiometric surface fluctuations of approximately five feet have been observed in the 'E' Zone since measurements began in May 2001 (Graph 4-B). Only one monitoring well, MW-10-170, has been installed in this zone and potentiometric surface measurements in the Exposition 'E' Zone have ranged from 92.16 feet bgs (January 2003) to 105.75 feet bgs (September 2007). Due to the limited number of monitoring wells screened within the Exposition 'E' Zone, no gradient data is available for this zone.

6.0 SUMMARY OF GROUNDWATER MONITORING ACTIVITIES

During each quarterly monitoring event, selected wells were gauged, product levels were measured (where appropriate) and each accessible well with sufficient water was sampled. Samples were analyzed for one or more of the following analyses: VOCs (hexane, 1,4-dioxane & isopropanol) by USEPA Methods SOM01.1; 1,4-dioxane by SW 3520B/ 8270C; and VOCs (hexane & isopropanol) by USEPA Methods SOM01.2.

A quarterly monitoring program has been developed for this Site in order to meet all data quality objectives (DQOs) pertaining to groundwater sampling. A 2007 fourth quarter monitoring and sampling report will be prepared under separate cover for the fourth quarter event (October – December 2007). The Pemaco EISB pilot study sampling overlaps with the quarterly groundwater sampling program, and is described further in section 6.3.

The following tables describe the field activities and chemical analyses performed for the February, May and September 2007 sampling events for wells within the Perched Zone and each Exposition Zone. Monitoring wells B-01, B-07, B-10, B-17 through B-21, B-30 through B-32, B-37 through B-39, SV-01, SV-032 and SV-05 and each well within Exposition 'C', 'D' and 'E' Zones were consistently sampled for VOCs during the first three quarterly sampling events of 2007.

6.1 FEBRUARY 2007 MONITORING EVENT

During the first quarterly sampling event in 2007 (February 13 through February 26), a total of 43 wells were sampled within the Perched Zone and a total of 76 wells were sampled within the Exposition Zones. All samples were analyzed for VOCs (including hexane, 1,4-dioxane & isopropanol) by EPA Method SOM01.1 during the first quarterly sampling event in 2007.

6.1.1 Perched Zone Wells

The following is a summary of Perched Zone groundwater monitoring wells sampled and inspected in February 2007:

Status	Quantity	Well IDs
Sampled	43	B-01, B-03, B-04, B-07, B-08, B-10, B-13, B-15, B-17 to B-22, B-27, B-30, B-31, B-32, B-36 to B-39 SV-01, SV-03, and SV-05 PA-03 to PA-05, PB-01 to PB-05, PB-07, PC-02, PC-05, PC-06, PD-04 to PD-09
Dry	12	B-11, B-12, B-23, B-25, B-26, B-28, B-29, PA-01, PA-02, PC-01, PD-01 and SV-04
Inaccessible	5	B-05 (obstructed at 12.8 feet), B-24, B-33, B-34, PB-06
Free Product	0	None

6.1.2 Exposition Zone Wells

The following is a summary of Exposition Zone groundwater monitoring wells sampled and inspected in February 2007:

Status	Quantity	Well IDs
EXPOSITION 'A' ZONE		
Sampled	24	MW-03-70, MW-04-75, MW-07-75, MW-08-70, MW-09-70, MW-10-75, MW-12-70, MW-19-70, MW-20-70, MW-21-80, MW-22-75 and MW-26-75 DA-01 to DA-12
Dry	2	MW-14-80 and RW-01-75
Inaccessible	1	MW-27-70
Free Product	0	None
EXPOSITION 'B' & 'AB' ZONES		
Sampled	39	MW-01-80*, MW-02-95, MW-03-90, MW-04-90, MW-05-85*, MW-06-85, MW-08-85, MW-09-85, MW-10-90, MW-12-90, MW-13-85, MW-14-90, MW-19-90, MW-20-85, MW-21-90, MW-22-90, MW-26-90, MW-27-90 RW-01-95 DB-01 to DB-12 DAB-01 to DAB-08*
Dry	0	None
Inaccessible	0	None
Free Product	0	None
EXPOSITION 'C' ZONE		
Sampled	6	MW-05-105, MW-10-110, MW-11-100, MW-23-110, MW-24-110 and MW-25-110
Dry	0	None
Inaccessible	0	None
Free Product	0	None
EXPOSITION 'D' & 'E' ZONES		
Sampled	7	MW-05-135, MW-07-130, MW-10-170, MW-12-150, MW-23-145, MW-24-140 and MW-25-130
Dry	0	None
Inaccessible	0	None
Free Product	0	None

Notes:

* - Well screened through both 'A' and 'B' zones

6.2 MAY 2007 MONITORING EVENT

During the second quarterly sampling event in 2007 (May 24 through June 14), a total of 33 wells were sampled within the Perched Zone and a total of 61 wells were sampled within the Exposition Zones. All samples were analyzed for VOCs (including hexane, 1,4-dioxane & isopropanol) by EPA Method SOM01.1 and 1-4-dioxane samples were also submitted to Calscience for analysis by method SW 3520B/8270C, during the second quarterly sampling event.

6.2.1 Perched Zone Wells

The following is a summary of Perched Zone groundwater monitoring wells sampled and inspected in May 2007:

Status	Quantity	Well IDs
Sampled	33	B-01, B-07, B-10, B-17, B-18, B-19, B-20, B-21, B-22, B-30, B-31, B-32, B-36, B-37, B-38, B-39, SV-01, SV-03 and SV-05 PA-05, PB-01 to PB-05, PB-07, PC-05, PC-06, PD-05, PD-06, PD-07, PD-08 and PD-09
Dry	14	B-11, B-12, B-23, B-25, B-26, B-27, PA-01, PA-02, PA-03, PA-04, PC-01, PC-02, PD-01 and SV-04
Inaccessible	8	B-03 to B-05 (obstructed at 12.8 feet), B-08, B-13, B-24, B-33 and B-34
Free Product	4	B-15, B-28, B-29 and PD-04

6.2.2 Exposition Zone Wells

The following is a summary of Exposition Zone groundwater monitoring wells sampled and inspected in May 2007:

Status	Quantity	Well IDs
EXPOSITION 'A' ZONE		
Sampled	11	MW-07-75, MW-10-75, MW-12-70, and MW-21-80 DA-01 to DA-03; DA-05 to DA-08
Dry	16	MW-03-70, MW-04-75, MW-08-70, MW-09-70, MW-14-80, MW-19-70, MW-20-70, MW-22-75, MW-26-75 and MW-27-70 RW-01-75 DA-04, DA-09, DA-10, DA-11 and DA-12
Inaccessible	0	
Free Product	0	None

EXPOSITION 'B' & 'AB' ZONES		
Sampled	36	MW-02-95, MW-03-90, MW-04-90, MW-05-85*, MW-06-85, MW-08-85, MW-09-85, MW-10-90, MW-12-90, MW-13-85, MW-19-90, MW-20-85, MW-21-90, MW-22-90, and MW-26-90 RW-01-95 DB-01 to DB-12 DAB-01 to DAB-08*
Dry	2	MW-01-80* and MW-14-90
Inaccessible	1	MW-27-90
Free Product	0	None
EXPOSITION 'C' ZONE		
Sampled	6	MW-05-105, MW-10-110, MW-11-100, MW-23-110, MW-24-110, and MW-25-110
Dry	0	None
Inaccessible	0	None
Free Product	0	None
EXPOSITION 'D' & 'E' ZONES		
Sampled	7	MW-05-135, MW-07-130, MW-10-170, MW-12-150, MW-23-145, MW-24-140, and MW-25-130
Dry	0	None
Inaccessible	0	None
Free Product	0	None

Notes:

* - Well screened through both 'A' and 'B' zones

6.3 SEPTEMBER 2007 MONITORING EVENT

During the third quarterly sampling event in 2007 (September 6 through September 19), a total of 34 wells were sampled within the Perched Zone and a total of 60 wells were sampled within the Exposition Zones. All samples were analyzed for VOCs (including hexane & isopropanol) by EPA Method SOM01.1 and 1-4-dioxane samples were submitted to Calscience for analysis by method SW 3520B/ 8270C, during the third quarterly sampling vent.

6.3.1 Perched Zone Wells

The following is a summary of Perched Zone groundwater monitoring wells sampled and inspected in September 2007:

Status	Quantity	Well IDs
Sampled	34	B-01, B-03, B-04, B-07, B-10, B-17, B-18, B-19, B-20, B-21, B-27, B-30, B-31, B-32, B-37, B-38, B-39, SV-01, SV-03, and SV-05 PA-05, PB-01, PB-02, PB-03, PB-04, PB-05, PB-07, PC-05, PC-06, PD-05, PD-06, PD-07, PD-08, PD-09
Dry	16	B-08, B-11, B-12, B-13, B-22, B-23, B-25, B-26, B-36, PA-01, PA-03, PA-04, PC-01, PC-02, PD-01 and SV-04
Inaccessible	6	B-05 (obstructed at 12.8 feet), B-24, B-33, B-34, PA-02, and PB-06
Free Product	4	B-15, B-28, B-29, and PD-04

6.3.2 Exposition Zone Wells

The following is a summary of Exposition Zone groundwater monitoring wells sampled and inspected in September 2007:

Status	Quantity	Well IDs
EXPOSITION 'A' ZONE		
Sampled	10	MW-07-75, MW-10-75, and MW-21-80 DA-01, DA-02, DA-03, DA-05, DA-06, DA-08 and DA-11
Dry	17	MW-03-70, MW-04-75, MW-08-70, MW-09-70, MW-12-70, MW-14-80, MW-19-70, MW-20-70, MW-22-75, MW-26-75 and MW-27-70 RW-01-70 DA-04, DA-07, DA-09, DA-10 and DA-12
Inaccessible	0	None
Free Product	0	None
EXPOSITION 'B' & 'AB' ZONES		
Sampled	37	MW-02-95, MW-03-90, MW-04-90, MW-05-85*, MW-06-85, MW-08-85, MW-09-85, MW-10-90, MW-12-90, MW-13-85, MW-19-90, MW-20-85, MW-21-90, MW-22-90, MW-26-90, MW-27-90 RW-01-95 DB-01 to DB-12 DAB-01 to DAB-08*
Dry	2	MW-01-80* and MW-04-90
Inaccessible	0	None
Free Product	0	None

EXPOSITION 'C' ZONE		
Sampled	6	MW-05-105, MW-10-110, MW-11-100, MW-23-110, MW-24-110, and MW-25-110
Dry	0	None
Inaccessible	0	None
Free Product	0	None
EXPOSITION 'D' & 'E' ZONES		
Sampled	7	MW-05-135, MW-07-130, MW-10-170, MW-12-150, MW-23-145, MW-24-140, and MW-25-130.
Dry	0	None
Inaccessible	0	None
Free Product	0	None

Notes:

* - Well screened through both 'A' and 'B' zones

6.4 PEMACO ENHANCED *IN SITU* BIOREMEDIATION (EISB) PILOT STUDY

The Pemaco EISB pilot study is currently being conducted in conjunction with the thermal treatment using ERH for the residual source area in order to evaluate the use of the EISB in combination with the thermal treatment, and also as a stand-alone technology for the dissolved phase plume. The pilot study involves the subsurface injection of selected organic substrate and groundwater monitoring to determine progress of bioremediation processes using two separate application strategies:

1. EISB treatment area application involving subsurface delivery of a selected organic substrate using the injection and extraction wells, and
2. EISB bio-barrier application using direct-push technology (DPT) points.

Evaluation of the pilot study is conducted using groundwater results generated in accordance with the sampling program described in the EISB Pilot Test Work Plan (TN&A, 2006b). Monitoring program includes groundwater sample collection from wells MW-19-70, MW-19-90, MW-27-70, MW-27-90, DA-04, and DB-04 (pilot study area A), and MW-03-70, MW-03-90, DA-05, and DB-05 (pilot study Area B). The pilot test progress monitoring was initiated in February 2007 (baseline sampling) and followed by post-injection sampling commenced on April 10, 2007. Some of the pilot test monitoring events overlapped with the quarterly groundwater sampling program. VOC results for both the pilot test (non-quarterly) and quarterly groundwater sampling events are presented in Tables 6 through 11. Analytical results for pilot study progress monitoring were reported in the *Pemaco Bio-Pilot Interim Status Report* (TN&A, 2007c).

7.0 GROUNDWATER QUALITY

The following sections present the findings of the VOC analyses performed on groundwater samples collected from each zone within the vicinity of the Site during the first three quarters of 2007, February, May and September, respectively. In May and September 2007 additional groundwater samples were collected for 1,4-dioxane by SW 3520B/8270C for select Perched Zone and Exposition wells (wells selected based on high historic concentrations).

7.1 PERCHED ZONE GROUNDWATER SAMPLING RESULTS

Several chlorinated and non-chlorinated VOCs were detected in the Perched and Exposition Zones, however, the most prevalent and widespread concentrations were those of chlorinated VOCs. The following sections present the findings of VOC analyses performed on groundwater samples collected from the Perched Zone during the three quarterly sampling events. As discussed in Section 4.0, samples collected from the Perched Zone wells were analyzed for VOCs during the quarterly sampling events, and a select group of wells were also analyzed for 1,4-dioxane (Table 12).

7.1.1 Volatile Organic Compounds (VOCs)

As a result of sampling conditions (water levels, obstructions, free product, etc.), the number and list of Perched Zone wells sampled during each event differed from one quarterly event to the next. Forty-three (43) Perched Zone wells were sampled and analyzed for VOCs during the first quarterly event (February 2007) and thirty-three (33) wells were sampled and analyzed during both the second and third quarterly events, May and September 2007, respectively.

The highest concentrations of VOCs (>100 µg/L) in the Perched Zone were found in wells B-21, B-27, B-31, B-36, PD-04, PD-06 and PD-08. The COCs in the Perched Zone are presented below with their corresponding detected concentration ranges, sample locations and SSRLs. Concentrations detected above method detection limits, but below the reporting limits, are qualified as quantitative estimates and are flagged with "J".

Prevalent COCs Detected Above SSRLs in the Perched Zone, (February, May and September, 2007)

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
1,1-Dichloroethane (1,1-DCA)	0.058 J (PB-05)	11 J (PD-08)	5
1,1-Dichloroethene (1,1-DCE)	0.065 J (SV-01)	40 J (PD-08)	6
1,2-Dichloroethane (1,2-DCA)	0.83 J (PD-08)	0.83 J (PD-08)	0.5
Benzene *	0.07 J (B-39)	110 (PB-03)	1
cis-1,2-Dichloroethene (cis-1,2-DCE) *	0.19 J (B-07)	320 (B-21)	6
Ethylbenzene	0.093 J (B-10)	1,100 (PD-04)	300
Methylene Chloride	0.54 J (PC-05)	10 J (B-03)	5
Methyl tert-butyl ether (MTBE)	2.6 (PD-05)	4.1 J (B-20)	13
Tetrachloroethene (PCE) *	0.13 J (B-13)	100 J (PD-06)	5
Toluene	0.065 J (PC-05)	1,300 (B-27)	150

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
trans-1,2-Dichloroethene (trans-1,2-DCE)	0.11 J (B-30)	44 (B-21)	10
Trichloroethene (TCE) *	0.2 J (PB-07)	250 J (B-36)	5
Vinyl Chloride (VC) *	0.36 J (B-01)	91 (B-21)	0.5

Notes.
1. * Concentration versus Time trend graphs presented for selected analyte
2. SSRLs for the Pemaco Site are listed in Table 8.1 of the ROD (EPA, 2005)

VOC results for wells within the Perched Zone for each quarterly sampling event February, May and September 2007, are presented on Figure 6-1 and Table 6. Historical analytical results are presented in concentration versus time trend graphs for select analytes (*) in Graphs 5 through 10, respectively. For analytes not detected above their respective reporting limits, half of the reporting limit was plotted for all referenced graphs in this document.

7.1.2 1,4-Dioxane

Per EPA RPM request, starting in May 2007 1,4-dioxane by SW 3520B/8270C was incorporated into the quarterly groundwater sampling program. During May 2007 sampling event samples for 1,4-dioxane were collected at all sampled Perched Zone wells. Results for May 2007 event will serve as a baseline concentrations for evaluation of RA progress. In September 2007 list of Perched Zone wells included all wells with previous detections and seven wells without detections, for details refer to Table 12. Total of sixteen (16) wells were sampled for 1,4-dioxane. In addition, 1,4-dioxane was analyzed by CLP methods, however the reporting limits were elevated (> 100 µg/L) and majority of data were rejected during data validation, for details refer to data validation reports provided in Appendix B.

A total of 10 wells contained detectable concentrations of 1,4-dioxane above the SSRL of 3 µg/L during at least one of the three quarterly sampling events. Detected concentrations above the respective SSRL ranged from 3.8 µg/L (B-20) to 2,800 µg/L (PD-08). The highest 1,4-dioxane concentrations (>50 µg/L) were found in wells B-21, PC-06, PD-05, PD-06, and PD-08.

1,4-Dioxane Detected Above SSRLs in the Perched Zone (February, May and September, 2007)

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
1,4-Dioxane	3.8 (B-20)	2,800 (PD-08)	3

Notes.
1. SSRLs for the Pemaco Site are listed in Table 8.1 of the ROD (EPA, 2005)

Table 12 summarizes the 1,4-dioxane results and SSRL exceedances for the February, May and September 2007 quarterly sampling events.

7.2 EXPOSITION 'A' ZONE GROUNDWATER SAMPLING RESULTS

The following sections present the findings of VOC analyses performed on groundwater samples collected from wells screened within Exposition 'A' Zone during the February, May and September 2007 quarterly events. As discussed in Section 4.0, all samples collected from

Exposition 'A' Zone wells were analyzed for VOCs during each of the three sampling events, and samples were also collected from a select number of wells for 1,4-dioxane analysis during each sampling event.

Cumulative historical groundwater analytical results for the wells within the Perched Zone are presented in Appendix C.

7.2.1 Volatile Organic Compounds (VOCs)

As a result of sampling conditions (water levels, obstructions, free product, etc.), the number and list of Exposition 'A' Zone wells sampled during each event differed from one quarterly event to the next. A total of twenty-four (24) monitoring and extraction wells were sampled and analyzed for VOCs during the first quarterly event (February 2007), fifteen (16) during the second quarterly event (May 2007) and a total of ten (10) wells were sampled and analyzed during the third quarterly event (September 2007).

All monitoring wells screened within the 'A' zone contained VOC concentrations exceeding SSRLs during this reporting period, except for off-site wells MW-07-75, MW-08-70, MW-09-70, MW-10-75 and MW-12-70. The groundwater contaminants of concern within Exposition "A" Zone are presented below with their corresponding detected concentration ranges, sample locations and SSRLs:

Prevalent COCs Detected Above SSRLs in Exposition 'A' Zone, (February, May and September, 2007)

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
1,1-DCE	0.081 J (MW-12-70)	20 (MW-22-75)	6
Benzene *	0.082 J (DA-02)	36 J (DA-03)	1
Chloroform	1.2 J (DA-07)	140 J (DA-02)	80
cis-1,2-DCE *	5.5 (DA-02)	1,200 J (MW-21-80)	6
Methylene Chloride	0.78 (DA-02)	14 (DA-05)	5
PCE *	0.2 J (DA-02)	9.2 (DA-03)	5
trans-1,2-DCE	0.19 J (MW-20-70)	38 (MW-22-75)	10
TCE *	0.27 J (MW-07-75)	8,900 J (MW-19-70)	5
VC *	0.75 (DA-05)	51 J (MW-21-80)	0.5

Notes:
1. * Concentration versus Time trend graphs presented for selected analyte
2. SSRLs for the Pemaco Site are listed in Table 8.1 of the ROD (EPA, 2005)

VOC results for wells within the 'A' zone for each quarterly sampling event February, May and September 2007, are presented on Figure 6-2 and Table 7. Historical analytical results are presented in concentration versus time trend graphs for select analytes (*) in Graphs 5 through 10, respectively. Plume diagrams illustrating the lateral extent of TCE concentrations in groundwater for the 'A' zone are presented in Figure 7-1.

7.3 1,4-DIOXANE

Historically 1,4-dioxane was not detected at elevated concentrations within the Exposition 'A' Zone and therefore no SSRL was established in the ROD. Samples collected for 1,4-dioxane by SW 3520B/8270C included three Exposition 'A' wells in May 2007 and two wells in September 2007. In addition, 1,4-dioxane was analyzed by CLP methods, however the reporting limits were elevated (> 100 µg/L) and majority of data were rejected during data validation, for details refer to data validation reports provided in Appendix B.

Wells DA-01, DA-06, DA-07 and DA-08 contained detectable concentrations of 1,4-dioxane during at least one of the three quarterly sampling events. Detected concentrations ranged from 1.5 J µg/L (DA-08, June 2007) to 13 µg/L (DA-01, September 2007). Table 12 summarizes the 1,4-dioxane results for the February, May and September 2007 quarterly sampling events.

7.4 EXPOSITION 'B' ZONE GROUNDWATER SAMPLING RESULTS

The following sections present the findings of chemical analyses performed on groundwater samples collected from the Exposition 'B' Zone within the vicinity of the Pemaco Site during the February, May and September 2007 monitoring events. As discussed in Section 4.0, samples collected from Exposition 'B' Zone wells were analyzed for VOCs during the quarterly sampling events, and a select group of wells were analyzed for 1,4-dioxane.

Cumulative historical groundwater analytical results for the wells within Exposition 'B' Zone are presented in Appendix C.

7.4.1 Volatile Organic Compounds (VOCs)

Each well screened within Exposition 'B' Zone were consistently sampled during the first three quarterly events of 2007 as part of the Pemaco groundwater monitoring and sampling program, with the exception of one well, MW-14-90, where it was measured dry during the second quarter. All monitoring wells within this zone contained VOC concentrations exceeding SSRLs during this reporting period, except for off-site wells MW-06-85, MW-08-85, MW-09-85, MW-10-90 and MW-12-90. The groundwater COCs in the "B" zone are presented below with their corresponding detected concentration ranges, sample locations and SSRLs:

Prevalent COCs Detected Above SSRLs in Exposition 'B' Zone, (February, May and September, 2007)

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
1,1-DCE	0.09 J (MW-10-90)	14 (RW-01-95)	6
Benzene *	0.056 J (MW-10-90)	13 J (DB-03)	1
Chloroform	2.1 J (DB-06)	130 J (DB-06)	80
cis-1,2-DCE *	0.56 J (MW-08-85)	2,200 J (RW-01-95)	6
Methylene Chloride	12 J (DB-03)	37 J (DB-12)	5
PCE *	0.071 J (MW-08-85)	10 J (RW-01-95)	5
trans-1,2-DCE	0.71 J (MW-22-90)	12 J (DB-03 and MW-02-95)	10
TCE *	0.1 J (MW-09-85)	13,000 (RW-01-90)	5
VC *	0.22 J (MW-06-85)	820 (MW-19-90)	0.5

Notes:

1. * Concentration versus Time trend graphs presented for selected analyte
2. SSRLs for the Pemaco Site are listed in Table 8.1 of the ROD (EPA, 2005)

VOC results for wells within the 'B' Zone for each quarterly sampling event February, May and September 2007, are presented in Figure 6-3 and Table 8. Historical analytical results are presented in concentration versus time trend graphs for select analytes (*) in Graphs 5 through 10, respectively. Plume diagrams illustrating the lateral extent of TCE concentrations in groundwater for the 'B' Zone is presented in Figure 7-2.

7.4.2 1,4-Dioxane

Historically 1,4-dioxane was not detected at elevated concentrations within the Exposition 'B' Zone and therefore no SSRL was established in the ROD. Samples collected for 1,4-dioxane by SW 3520B/8270C included two Exposition 'B' wells in May 2007 and three wells in September 2007. In addition, 1,4-dioxane was analyzed by CLP methods, however the reporting limits were elevated (> 100 µg/L) and majority of data were rejected during data validation, for details refer to data validation reports provided in Appendix B.

Wells DB-01, DB-06 and monitoring well MW-20-85 contained detectable concentrations of 1,4-dioxane during at least one of the three quarterly sampling events. Detected concentrations ranged from 3 µg/L (MW-20-85, September 2007) to 24 µg/L (DB-01, September 2007). A summary of 1,4-dioxane results for the February, May and September 2007 quarterly sampling events is presented in Table 12.

7.5 Exposition 'C' Zone Groundwater Sampling Results

The following sections present the findings of chemical analyses performed on groundwater samples collected from the Exposition 'C' Zone within the vicinity of the Pemaco Site during the February, May and September 2007 monitoring events. As discussed in Section 4.0, all groundwater samples collected from wells screened within the 'C' zone, were analyzed for VOCs during all three sampling events. In addition, samples were also collected from a select group of wells and analyzed for 1,4-dioxane during the three quarterly sampling events.

Cumulative historical groundwater analytical results for the wells within Exposition 'C' Zone are presented in Appendix C.

7.5.1 Volatile Organic Compounds (VOCs)

Samples collected from all six wells screened within the Exposition 'C' Zone contained detectable concentrations of VOCs during the three quarterly sampling events. Groundwater sampling results for all three quarters indicate that monitoring well MW-24-110 was found to have the highest concentration of VOCs (>100 µg/L) in the 'C' zone . The groundwater contaminants of concern for wells within the "C" zone are presented below with their corresponding detected concentration ranges, sample locations and SSRLs:

Prevalent COCs Detected Above SSRLs in Exposition 'C' Zone, (February, May and September, 2007)

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
1,1-DCE	0.17 J (MW-10-110)	6 J (MW-24-110)	6
cis-1,2-DCE *	0.22 J (MW-05-105)	1,100 (MW-24-110)	6

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
Methylene Chloride	0.38 J (MW-24-110)	4.2 (MW-23-110)	5
PCE *	0.05 J (MW-11-100)	2.4 J (MW-24-110)	5
TCE *	0.41 J (MW-11-100)	7,900 (MW-24-110)	5
VC *	9.4 J (MW-24-110)	51 J (MW-24-110)	0.5

Notes:
1. * Concentration versus Time trend graphs presented for selected analyte
2. SSRLs for the Pemaco Site are listed in Table 8.1 of the ROD (EPA, 2005)

VOC results for the Pemaco quarterly sampling events (February, May and September 2007) for wells screened within the 'C' zone are presented on Figure 6-4 and Table 10. Historical analytical results are presented in concentration versus time trend graphs for select analytes (*) in Graphs 5 through 10, respectively.

7.5.2 1,4-Dioxane

Historically 1,4-dioxane was not detected at elevated concentrations within the Exposition 'C' Zone and therefore no SSRL was established in the ROD. Samples were collected for 1,4-dioxane by SW 3520B/8270C in MW-23-110 in May 2007 and September 2007. In addition, 1,4-dioxane was analyzed by CLP methods, however the reporting limits were elevated (> 100 µg/L) and majority of data were rejected during data validation, for details refer to data validation reports provided in Appendix B.

Wells MW-23-110 and MW-25-110 contained detectable concentrations of 1,4-dioxane during at least one of the three quarterly sampling events ranging from 2.9 J µg/L (MW-25-110, September 2007) to 13 µg/L (MW-23-110, May 2007). A summary of 1,4-dioxane results for the quarterly sampling events are presented in Table 12.

7.6 Exposition 'D' and 'E' Zones Groundwater Sampling Results

The following sections present the findings of chemical analyses performed on groundwater samples collected from the Exposition 'D' Zone during the February, May and September 2007 quarterly sampling events. As discussed in Section 4.0, all samples collected from Exposition 'D' Zone wells were analyzed for VOCs during each of the three sampling events and samples from a select group of wells were also analyzed for 1,4-dioxane.

Cumulative historical groundwater analytical results for the wells within Exposition 'D' &'E' Zones are presented in Appendix C.

7.6.1 Volatile Organic Compounds (VOCs)

Samples were collected from each of the six wells screened in the Exposition 'D' Zone and from the one well screened in the Exposition 'E' Zone (MW-10-170) during each quarterly event. Concentrations of TCE exceeding the SSRL of 5 µg/L was detected in three wells within the 'D' Zone, MW-07-130 and MW-24-140 and MW-25-130 during the February, May and September 2007. The groundwater contaminants of concern in both the 'D' and 'E' Zones are presented below with their corresponding detected concentration ranges, sample locations and SSRLs.

Prevalent COCs Detected Above SSRLs in Exposition 'D' & 'E' Zones, (February, May and September, 2007)

Compound	Minimum Concentration in Wells (µg/L)	Maximum Concentration in Wells (µg/L)	SSRLs (µg/L)
TCE *	0.15 J (MW-23-145)	80 J (MW-24-140)	5

Notes:
1. * Concentration versus Time trend graphs presented for selected analyte
2. SSRLs for the Pemaco Site are listed in Table 8.1 of the ROD (EPA, 2005)

VOC results for the Pemaco quarterly sampling events (February, May and September 2007) for wells screened within the 'D' & 'E' zone are presented on Figure 6-5 and Table 11. Historical analytical results are presented in concentration versus time trend graphs for select analytes (*) in Graphs 5 through 10, respectively.

7.6.2 1,4-Dioxane

Historically 1,4-dioxane was not detected at elevated concentrations within the Exposition 'D' & 'E' Zones and therefore no SSRL was established in the ROD. During this monitoring period 1,4-dioxane was analyzed by CLP methods for all sampled Exposition 'D' & 'E' Zones wells, however the results were rejected during data validation. For details refer to data validation reports provided in Appendix B.

8.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The following sections summarize all results associated with quality assurance (QA) and quality control (QC), including field QA/QC samples (i.e., trip blanks and field duplicates) and laboratory QA/QC samples (i.e., method blanks, storage blank, matrix spike/matrix spike duplicates [MS/MSD], and laboratory duplicates).

8.1 FIELD DUPLICATE RESULTS

Field duplicate samples are collected at the same time and from the same source and then submitted as separate samples to the laboratory for analysis. The main purpose of field duplicate analysis is to measure the consistency of filed sampling procedures; however, the results are also affected by precision of the laboratory operations. Field duplicates were collected at a frequency of 10 percent for groundwater samples and submitted blind to the laboratory.

Results for all field duplicates collected during the February 2007, May 2007, and September 2004 are presented in Table 13. Field duplicate results are compared to the results of the parent sample. In addition, Table 13 presents values of the relative percent difference (RPD) calculated according to the following formula:

$$\text{RPD} = \frac{|A - B|}{(A + B)/2} \times 100\%$$

where: A = first duplicate concentration
B = second duplicate concentration

The following PRD ranges were calculated:

- Between 0 and 196% for the 1Qrt07 event,
- Between 0% and 193% for the 2Qrtr07 event, and
- Between 0% and 47% for the 3Qrtr07 event.

Results of the parent and duplicate samples were qualified as estimated for RPD greater than 40%. In addition, if an analyte was detected in only one sample of the field duplicate pair, it was also qualified as estimated. Qualified results are listed in Table 13.

8.2 FIELD AND LABORATORY BLANK RESULTS

According to the USEPA Contract Laboratory Program (CLP) National Functional Guidelines for Data Review, the purpose of laboratory (or field) blank analysis is to determine the existence and magnitude of contamination resulting from laboratory or field activities (USEPA, 1999). The criteria for evaluation of blanks apply to any blanks associated with the samples, such as method blanks, instrument blanks, trip blanks, and equipment blanks, analyzed and reported as one batch and/or sample delivery group (SDG).

No contaminant should be found in the blanks. However, in the event that an organic compound is present in the blank, analytical results for that blank contaminant need to be carefully evaluated for all the associated samples. VOC results are reported as non-detect (qualified as "U") if the concentration of the compound in the sample is less than or equal to 5 times (5x) the amount in any blank. For the common volatile laboratory contaminants, namely methylene chloride, acetone, 2-butanone, and cyclohexane, this rule applies if concentration in the sample is 10 times (10x) the amount present in the blank sample.

In instances where more than one blank is associated with a given sample, qualification is based upon a comparison with the associated blank having the highest concentration of a contaminant. Qualification efforts are further discussed in Section 7.7.

Trip blanks are used to assess potential external sources of VOC contamination that may have been introduced during shipment, handling, or storage on site and at the laboratory. The collection frequency for trip blank samples is 1 sample per day per cooler containing samples for VOC analysis. Majority of the VOC detections in trip blank and method blanks were below the contract required reporting limit (CRRL), refer to Table 14. In addition to the common laboratory contaminants (methylene chloride, acetone, 2-butanone, and cyclohexane) the detections included a number of compounds know as trihalomethanes generated in the drinking water as a result of disinfection (chloroform, chloromethane). Detections in blanks above CRRLs included 1,1,2-Trichloro-1,2,2-Trifluoroethane, 2-Butanone, Carbon disulfide, Chloroform, Methylene chloride, and n-Hexane. The numerous detections in the method blanks indicate VOC contamination resulting from the laboratory sample handling and analysis.

8.3 DATA VALIDATION EFFORT DISCUSSION

The following sections describe data validation effort and summarize results of data validation for quarterly groundwater events.

8.3.1 Data Validation Summary

Data review and validation procedures for analytical results were followed as described in the *Final Sampling and Analysis Plan for Remedial Investigation/Feasibility Study, Pemaco Superfund Site, Maywood, California* (TN&A, 2001) and *Draft Sampling and Analysis Plan, (field sampling plan and quality assurance project plan), Monitoring, Operations and Maintenance for the Pemaco Remedial Action, Pemaco Superfund Site, Maywood, California* (TN&A, 2007b).

The data review and validation was performed on 100% of the definitive level data sets generated for the groundwater samples collected during the quarterly groundwater sampling events that occurred in February 2007, May 2007, and September 2007. The overall quality of the data collected for this project is good with completeness at 2% of the data "rejected" (mostly 1,4-dioxane and isopropanol analyzed by CLP protocol for VOC analysis) and approximately 9% of the data were qualified as "estimated" for precision, accuracy, representativeness, comparability and completeness (PARCC) parameters. The remaining data met the data quality objectives specified in the Sampling and Analysis Plan (SAP) (TN&A, 2007b) and U.S. EPA Guidelines (USEPA, 1999).

The definitive level analytical data for all samples collected at Pemaco were validated according to the QA/QC requirements specified in the project SAP. The validation was performed utilizing guidelines and procedures outlined in the EPA Contract Laboratory Program National Functional Guidelines For Organic Data Review (EPA-540/R-99-008, October 1999). The reviewer's professional judgment was used to evaluate data quality when called for in the Functional Guidelines and in instances with no clear policy or conflicting guidance on how the data should be qualified. The data validation was performed by the USEPA CLP Electronic Data Exchange and Evaluation System (EXES), IFC Consulting/Laboratory data Consultants located in Richmond, California, and T N & Associates, Inc. located in Ventura, California. Table 3 summarizes data validation efforts for analytical results generated for the Pemaco Site, including environmental sample and QA/QC field and laboratory samples.

Appendix B contains laboratory data packages and data validation reports generated for the quarterly groundwater sampling events conducted in February, May, and September 2007.

Samples collected and analyzed during groundwater monitoring activities at Pemaco was anticipated to involve:

Option 1 data evaluation for ninety percent (90%) of the analytical data packages, and

In-depth review and data validation following Option 3 performed on ten percent (10%) of the analytical data packages.

Due to the extended time period required to conduct Option 3 data evaluation, all analytical data (100%) was reviewed by Option 1 for quick data availability to accommodate project decision-making needs. If the Option 3 data validation process revealed any problems during sample analysis or result determination, analytical results for the associated samples were corrected accordingly.

In October 2002 EPA Region IX specified that matrix spike and matrix spike duplicate (MS/MSD) analysis is no longer required for volatile organics analysis performed according to US EPA CLP protocols (SOM01.1/SOM01.2). Instead of MS/MSD analysis, the precision and accuracy assessment is accomplished using deuterated monitoring compounds analysis (DMC). The DMCs such as vinyl chloride-d3, chloroethane-d5, 1,1-dichloroethene-d2, 2-butanone-d5, chloroform-d, and benzene-d6 are added to all the samples and blanks. The precision and accuracy of the method is evaluated by comparing percent recoveries of DMCs against the QC limits. Per EPA Region IX specifications, CLP Laboratories have replaced MS/MSD with DMC for VOC analysis of Pemaco groundwater samples since October 2002.

Data review and validation efforts were aimed at qualifying analytical results according to the following criteria:

- The parameter was detected at the reported concentration value. Flagged as "=".
- Results are estimates only. Flagged as "**J**". The parameter was detected, but the reported value may not be accurate or precise. As per *National Functional Guidelines* (NFG), sample results below reporting limits (RL) but above method detection limits are qualified as estimated (J).
- Parameter was not detected. Flagged as "**U**". The reported value is the practical RL.
- Parameter was not detected, however, analytical issues were identified through data review and validation processes. Flagged as "**UJ**". The reported value is an estimated RL.
- Rejected results (not usable). Flagged as "**R**". The parameter may or may not be present. This flag is also used to identify the un-preferred result selected from multiple analyses.

8.3.2 The 1st Quarter 2007 Data Validation Summary

Review and validation of the analytical data generated in February 2007 (1st Quarter 2007 and Baseline Sampling Event) can be summarized as follows (for details refer to Appendix B):

1. For trace level VOCs: Non-detected results for 1,4-dioxane and isopropanol were qualified as rejected (R) in samples associated with very low response factors (<0.01) in initial and continuing calibrations.
2. For low level VOCs: Non-detected results for 1,4-dioxane were qualified as rejected (R) in samples associated with very low response factors (<0.01) in initial and continuing calibrations.

3. Detected results for some analytes are qualified as non-detected and estimated (UJ) due to method blank, storage blank, and trip blank contamination.
4. Results for all analytes in samples PB-04 and B-08 are qualified as estimated (J) due to holding time problems. Laboratory exceeded technical holding time of 7 days for non-preserved samples.
5. Results for some analytes are qualified as estimated (J) due to calibration problems, DMC recovery problems,
6. Results for some analytes in a method blank VBLK3B are qualified as estimated (J) due to an internal standard (IS) area problem.
7. Detected results for some analytes in samples B-07, B-27, and B-18 are qualified as estimated (J) due to concentrations exceeding calibration range.

As a result of the February 2007 data validation the following data qualifications were applied:

Approximately 3% of data were qualified as rejected. Data rejection was applied mostly to 1,4-dioxane and isopropanol analyzed by CLP protocol for VOC analysis involving purge-and-trap procedure. As discussed in Section 4.2, 1,4-dioxane and isopropanol are not highly suitable for purge-and-trap method and therefore results are often associated with QA/QC issues.

Approximately 12% of the analytical results were qualified as estimated due to the laboratory and field blank sample analysis issues, and/or due to matrix related interference, and/or due to laboratory accuracy criteria, and/or due to calibration problems.

Approximately 5% of the analytical results were detected below the contract required quantitation limits (CRQLs) but above method detection limits (MDLs) and therefore qualified as estimated.

Percent completeness = 97%.

8.3.3 The 2nd Quarter 2007 Data Validation Summary

Review and validation of the analytical data generated in May 2007 (2nd Quarter 2007 Sampling Event) can be summarized as follows (for details refer to Appendix B):

1. Non-detected results for 1,4-dioxane and isopropanol were qualified as rejected (R) in samples associated with very low relative response factors (RRFs <0.01) in initial and continuing calibrations.
2. Detected results for some analytes are qualified as non-detected and estimated (UJ) due to method blank and trip blank contamination.
3. Results for some analytes are qualified as estimated (J) due to calibration problems.

As a result of the May 2007 data validation the following data qualifications were applied:

Approximately 2% of data were qualified as rejected. Data rejection was applied mostly to 1,4-dioxane and isopropanol analyzed by CLP protocol for VOC analysis involving purge-and-trap procedure. As discussed in Section 4.2, 1,4-dioxane and isopropanol are not highly suitable for purge-and-trap method and therefore results are often associated with QA/QC issues.

Approximately 10% of the analytical results were qualified as estimated due to the laboratory and field blank sample analysis issues, and/or due to matrix related interference, and/or due to laboratory accuracy criteria, and/or due to calibration problems.

Approximately 3% of the analytical results were qualified as estimated for detections below the CRQLs, but above MDLs.

Percent completeness = 98%.

8.3.4 The 3rd Quarter 2007 Data Validation Summary

Review and validation of the analytical data generated in September 2007 (3rd Quarter 2007 Sampling Event) can be summarized as follows (for details refer to Appendix B):

1. For trace level VOCs: non-detected results for isopropanol were qualified as rejected (R) in samples associated with very low relative response factors (RRFs <0.01) in initial and continuing calibrations.
2. For low level VOCs: non-detected results for 1,4-dioxane and isopropanol were qualified as rejected (R) in samples associated with very low relative response factors (RRFs <0.01) in initial and continuing calibrations.
3. Detected results for some analytes are qualified as non-detected and estimated (UJ) due to method blank and trip blank contamination.
4. Results for some analytes are qualified as estimated (J) due to calibration problems, DMC recovery problems, or internal standard recovery problems.

As a result of the September 2007 data validation the following data qualifications were applied:

Approximately 1% of data were qualified as rejected. Data rejection was applied mostly to 1,4-dioxane and isopropanol analyzed by CLP protocol for VOC involving purge-and-trap procedure. As discussed in Section 4.2, 1,4-dioxane and isopropanol are not highly suitable for purge-and-trap method and therefore results are often associated with QA/QC issues.

Approximately 5% of the analytical results were qualified as estimated due to the laboratory and field blank sample analysis issues, and/or due to matrix related interference, and/or due to laboratory accuracy criteria, and/or due to calibration problems.

Approximately 2% of the analytical results were qualified as estimated for detections below the CRQLs, but above MDLs.

Percent completeness = 99%.

9.0 CHEMICAL DISTRIBUTIONS AND TRENDS

The following sections summarize the nature and extent of chemical concentrations exceeding the SSRLs detected in groundwater underlying the Pemaco Site and surrounding area for the first 3 quarters of 2007. Deviations to the sampling plan were limited to situations where certain wells could not be sampled as they had become dry or were not accessible.

Observations based on data collected from the three quarterly groundwater sampling events of 2007, February, May and September, respectively, and historical data for the Site are discussed below; the following sections have been organized by contaminants of concern within each aquifer zone.

9.1 PERCHED ZONE

9.1.1 VOCs

Several chlorinated and non-chlorinated VOCs were detected in the Perched Zone above the SSRLs for the Pemaco Site. The most prevalent and widespread concentrations are of chlorinated VOCs. There are several non-chlorinated VOCs in the Perched Zone, however, the most significant of these non-chlorinated concentrations are likely from releases at the W.W. Henry property. The chlorinated compounds PCE, TCE, cis-1,2-DCE and VC cover the most extensive areas and are the most significant in terms of environmental impact from historical uses of the Pemaco property.

During this reporting period, four wells within the Perched Zone, wells B-15, B-28, B-29 and PD-04, were found to have free product and were not sampled. The free product found in wells B-15 and PD-04 is related to Pemaco historical uses, whereas the free product in wells B-28 and B-29 are related to W.W. Henry historical uses, as outlined in the *Draft Remedial Investigation Report* (TN&A, 2002). Free product was measured in wells B-15, B-28, B-29, and PD-04 during the second and third quarterly sampling events of 2007. During the second quarterly sampling event, free product was measured at a thickness of 2.4 feet in well B-15 and 0.11 feet in well B-28; and during the third quarter, free product thickness decreased, as thickness was measured at 0.82 feet in well B-15, a sheen in well B-28 and 1.25 feet in well B-29. Free product thicknesses were not available for PD-04.

Groundwater analytical data for wells within the Perched Zone for benzene, cis-1,2-DCE, PCE, toluene, TCE and VC for the February, May and September 2007 sampling events is presented in Table 6 and Figure 6-1. The following paragraphs discuss the distributions of these six COCs within the Perched Zone.

9.1.1.1 Benzene and Toluene

Compounds benzene and toluene have both been detected in samples collected during the three quarterly events of 2007 within the Perched Zone:

Benzene was detected during each quarterly event in wells within the Perched Zone, however, no detections were above the SSRL of 1 µg/L.

Significant decreases are apparent in wells B-27 and B-30 as concentrations decreased from 510 J µg/L and 1,900 µg/L in April 2001 to 1.1 µg/L and 0.5 U µg/L in September 2007, respectively (Graph 5-B).

Concentrations of benzene in well PB-03 increased from 0.3 J µg/L in February 2007 to 110 µg/L in May and September 2007 (Graph 5-D).

Toluene was detected during each quarterly event in wells within the Perched Zone, with concentrations ranging from 0.065 J µg/L (PC-05) to 1,300 µg/L (B-27), during the first quarterly event (Table 6).

Concentrations of toluene decreased in wells B-13 and B-21: Concentrations of toluene in well B-13 were detected as high as 100 µg/L in January 2003 and decreased to 1 J µg/L in February 2007 (Graph 9-A); and toluene concentrations decreased in well B-21 from 600 µg/L (October 2002) down to 0.71 µg/L (September 2007) (Graph 9-B).

A concentration spike of toluene was detected in wells B-20, B-27 and extraction well PA-05 during the quarterly events: a concentration spike was detected in well B-20 from an estimated concentration of 0.36 J µg/L (February 2007) to 380 µg/L (September 2007); concentrations spiked in well B-27 to 1,300 µg/L in February 2007, however decreased down to 0.5 U µg/L in September 2007; and a concentration spike was detected in PA-05 from 0.5 U µg/L in June 2007 to 340 µg/L in September 2007 (Graphs 9-B and 9-D).

In general, concentrations of benzene and toluene are decreasing, with the exception of well PB-03, where benzene is slightly increasing, and wells B-20, B-27 and PA-05 where toluene spikes have been detected.

9.1.1.2 PCE

There appears to be four separate areas where PCE was originally released, and these areas include the north-central portion of the Pemaco property, the northeast portion of the W.W. Henry property, along 59th Place adjacent to the southern end of the Pemaco property, and along District Blvd approximately half a block south of the Pemaco property (adjacent to the former Lubricating Oil property).

The highest PCE concentrations (>100 µg/L) were originally found in the north-central portion of the Pemaco property co-mingled with the northeast portion of the W.W. Henry property, in the vicinity of wells B-01, the abandoned SV-02, and SV-03 (Graph 7-A and 7-C and Appendix C). This original plume area coincided with the former ASTs and drum storage areas. The concentrations of PCE within these monitoring wells have been notably reduced, as concentrations in well B-01 measured 1,100 µg/L in October 2002, and now measures 11 µg/L (September 2007), and concentrations in well SV-03 measured 160 µg/L in February 2001 and now measures 12 µg/L (September 2007).

Significant decreases in PCE concentrations are also apparent in the following wells:

Monitoring wells B-19, B-31 and B-32 are located just northwest of the Pemaco property boundary line. Concentrations of PCE measured greater than 80 µg/L when these wells were first sampled in 2001, and now measure less than 7 µg/L (Graph 7-B).

A further decrease in PCE concentration is also apparent in wells PC-06, PD-06, PD-07 and PD-08, located on the northern portion of the Pemaco property, as concentrations decreased from samples collected during the first quarter of 2007 (> 34 µg/L) to samples collected in the third quarter (< 21 µg/L) (Graph 7-E).

In general, PCE concentrations in all Perched Zone wells have decreased or remained stable, with the only notable increases being detected in samples collected from well PB-03, which indicate a slight increase from 11 J µg/L to 15 µg/L (Graph 7-D).

9.1.1.3 TCE

TCE is the most prevalent VOC in the Perched Zone, extending throughout most of the Pemaco Site and adjacent areas (Figure 6-1 and Table 6). This plume may have originated from the former loading dock located in the extreme southwest of the Pemaco property or from spills that could have occurred along the previously existing railway. Relatively low concentrations of TCE are also present as daughter products in the PCE source area described above. The highest detected TCE concentrations during the three quarterly events of 2007 are found in off-site wells B-36, PA-03, PB-03 and B-21:

Monitoring well B-36 is located off-site, south of the Pemaco property boundary line. TCE concentrations slightly decreased during this reporting period as concentrations measured 250 J µg/L during the first quarter and 230 J µg/L during the second quarter, however, these detected concentrations are much higher compared to concentrations detected in April 2003 (65 µg/L) (Graph 8-B).

Monitoring well PA-03 is located off-site, southwest of the Pemaco property boundary line. Concentrations of TCE in this well are slightly decreasing since September 2006: 150 µg/L (September 2006); and 130 J µg/L (February 2007), when this well was last sampled (Graph-8-D).

PB-03 is located off-site in the northeast portion of the W.W. Henry Property, where concentrations are significantly increasing; TCE concentrations measured 2.1 J µg/L in February 2007, 39 J µg/L in May 2007, and 61 µg/L in September 2007 (Graph 8-D).

Monitoring well B-21 is located off-site at the intersection of 59th Place and 60th Street. TCE concentrations in this well measured 300 µg/L in April 2003 and decreased to 17 µg/L in February 2006, however, during the third quarter of 2007, concentrations slightly increased to 38 µg/L (Graphs 8-B).

Significant decreases in concentrations during the first three quarters of 2007 are apparent wells B-01, B-13, B-22 and B-27:

Monitoring well B-01 is located in the north-central portion of the Pemaco Site where concentrations of TCE are decreasing at a similar rate as concentrations of PCE. Concentrations of TCE measured 99 µg/L in January 2002, and measured 1.1 µg/L during the last sampling event (September 2007) (Table 6 and Graph 8-A).

Concentrations in monitoring well B-13 are significantly decreasing, as concentrations measured 55 µg/L in January 2003, and measured 1.8 J µg/L during the last sampling event (February 2007). This well was not accessible during the second quarters of 2007 and it was dry in the third quarter of 2007(Table 6 and Graph 8-A).

Monitoring wells B-22 and B-27 are located off-site in the vicinity of the 59th Place and 60th Street intersection. TCE concentrations decreased from 270 µg/L (October 2002) and 230 µg/L (April 2003) to 5 U µg/L (June 2007) and 2.7 µg/L (September 2007), respectively (Table 6 and Graph 8-B).

The plume remained relatively stable between February 2007 and September 2007, with the exception of well PB-03 which has shown a consistent increasing TCE concentration trend (2.1 J µg/L to 61 µg/L) (Graph 8-D). Similar to the PCE plume in this area, the southwest edge of the plume is being pulled further southwest at some locations by the extraction wells. This is evident through the increase in concentration of TCE in wells B-21, B-36 and PB-03 and the elevated concentrations in well PA-03.

9.1.1.4 Cis-1,2-Dichloroethene (Cis-1,2-DCE) & Vinyl Chloride (VC)

Cis-1,2-DCE and VC are two of the end daughter products in the degradation process of PCE and TCE, and highest concentrations of both compounds in the Perched Zone are limited to the southwest corner of the Pemaco property, at the intersection of 59th Place and 60th Street, near well B-21 (likely the result of this degradation process and not from a release of VC) (Graphs 6-B and 10-B). Petroleum compounds in this area are possibly causing co-metabolism in this area.

Monitoring well B-21 has historically elevated levels of toluene, which may be aiding in the degradation process of TCE and PCE causing the elevated cis-1,2-DCE and VC concentrations in this area.

Concentrations of each compound, cis-1,2-DCE and VC, are increasing in extraction well PB-03, as evident in Graphs 6-D and 10-D.

The natural attenuation of PCE and TCE is occurring, as evident by the increase of cis-1,2-DCE and VC concentrations over time throughout the Site as PCE and TCE concentrations have decreased.

9.1.2 1,4-Dioxane

During the May 2007 sampling event all sampled Perched Zone wells were analyzed for 1,4-dioxane using SW 3520B/8270C. In September 2007, 1,4-dioxane was monitored at selected sixteen (16) Perched Zone wells. A total of 10 wells contained detectable concentrations of 1,4-dioxane above the SSRL of 3 µg/L during at least one of the three quarterly sampling events. Based on the analytical results, the highest concentrations of 1,4-dioxane (> 50 µg/L) during this reporting period is limited to the central portion of the Pemaco Site, at wells B-21 (51 µg/L, September 2007), PC-06 (71 µg/L, May 2007), PD-05 (63 µg/L; May 2007 and 67 µg/L; September 2007), PD-06 (310 µg/L ; September 2007) and PD-08 (720 J µg/L; February 2007 and 2,800 J µg/L; May 2007) (Table 12).

The compound 1,4-dioxane was likely originally used as a solvent stabilizer in association with the chlorinated solvents used at the Pemaco facility. The third quarterly sampling results indicate that 1,4-dioxane is significantly decreasing in wells B-01, PC-05, PC-06, and PD-08. Increasing concentrations are apparent in wells B-13 and B-21 and concentrations of 1,4-dioxane are relatively steady in well PD-05. The 1,4-dioxane plume occurs within the area of the chlorinated solvent plumes identified within the Perched Zone.

9.2 EXPOSITION 'A' ZONE

9.2.1 VOC Plume

Groundwater concentrations of chlorinated VOCs are the most prevalent and widespread compounds in the 'A' Zone (Figure 7-1). The compounds PCE, TCE and their associated daughter products (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE and VC) are the only chlorinated compounds that are widespread and consistently detected above SSRLs, within the 'A' Zone, however, the following two compounds have also been detected above the respective SSRLs during this reporting period:

Chloroform was detected over the remediation level of 80 µg/L in wells DA-02 (140 J µg/L), and DA-06 (110 µg/L and 120 µg/L) (Table 7);

Methylene chloride (SSRL of 5 µg/L), although, this compound only appears once, in well DA-05 (14 µg/L) (Table 7); and

Benzene, a non-chlorinated compound, was detected in four wells (DA-01, DA-03, DA-07 and MW-21-80) within the 'A' zone above the SSRL of 1 µg/L, ranging in estimated concentrations from 2.6 J µg/L to 36 J µg/L (Table 7).

TCE is the most prevalent compound in the 'A' Zone, indicated by its high concentrations (8,900 µg/L, well MW-19-70), and large spatial area. Figure 7-1 illustrates the lateral extent of TCE in the 'A' Zone during the quarterly events.

During the second and third quarters, analytical data was limited, as many wells were measured dry. Monitoring and extraction wells which were measured dry at least once during this reporting period include: wells MW-03-70, MW-04-75, MW-08-70, MW-09-70, MW-12-70, MW-14-80, MW-19-70, MW-20-70, MW-22-75, MW-26-75, MW-27-70, RW-01-70, DA-04, DA-07, DA-09, DA-10 and DA-12. As a result, the plume appears to have significantly contracted during the second quarter, and appears to have even further reduced in the third quarter. As groundwater levels have fluctuated significantly during this reporting period, the estimated surface area of the 'A' zone TCE plume decreased from approximately 6.07 acres (246,200 sq. ft.) in the first quarter, to approximately 1.31 acres (57,000 sq.feet) in the third quarter.

In the following section the VOC plume within the Exposition 'A' Zone is discussed via three areas: Source Area, Mid Area, and Downgradient Margins.

Exposition 'A' Zone Plume Source Area

Monitoring wells with the highest VOC concentrations within the plume interior (1,000 µg/L - 10,000 µg/L TCE contour line) include wells MW-03-70, MW-19-70, MW-26-75 and DA series wells, as discussed below:

Well MW-03-70 was recently installed in November 2006 to replace the previous MW-03-85, which was screened through both 'A' and 'B' Zones. Well MW-03-70 is located approximately 10 feet south of the ERH Electrode Array (Figure 6-2 and Table 7). TCE concentrations measured 1,500 J µg/L and cis-1,2-DCE concentrations measured 100 J µg/L, during the first quarter of 2007. PCE was also detected in February 2007, measuring an estimated concentration of 7.2-J-µg/L (Graphs 8-G and 6-G). This well was measured dry during the second and third quarters of 2007. VOC concentrations in this well were likely effected by the EISB pilot test which occurred in March 2007.

Monitoring well MW-19-70 (Figure 6-2) is located off-site, approximately 10 feet from the southwest corner of the Pemaco Property line. Historical data indicate that TCE concentrations in MW-19-70 have remained above the SSRL of 5 µg/L since the well was installed in November 2001, ranging in concentration from 5,000 µg/L to 8,900 J µg/L (Graph 8-G). Cis-1,2-DCE concentrations have similarly not changed significantly, with a low detection of 85 µg/L (December 2001) and a high of 330 µg/L (January 2006) (Graph 6-G); PCE was detected just above the SSRL of 5 µg/L at an estimated concentration of 9.1 J µg/L and VC was also detected above the SSRL of 0.5 µg/L at an estimated concentration of 19 J µg/L during the first quarter. This well was measured dry during the second and third quarters of 2007. VOC concentrations in this well were likely effected by the EISB pilot test which occurred in March 2007.

Monitoring well MW-26-75 (Figure 6-2) was also recently installed in November of 2006, and is located in the center of the plume "hot spot", on-site. TCE concentrations measured 8,800 µg/L,

and cis-1,2-DCE was detected above the SSRL of 6 µg/L at an estimated concentration of 49-J-µg/L, during the first quarter (Graphs 8-G and 6-G). This well was also measured dry during the second and third quarters of 2007.

Extraction "DA" series wells are located throughout the 'A' Zone TCE plume (Figure 6-2). Concentrations of TCE in extraction wells DA-01, DA-05, DA-07, DA-08 and DA-11 are on a steady decline since February 2007. A significant decrease in TCE concentration from the first quarter to the third quarter are apparent in wells DA-11 and DA-08; TCE concentrations in well DA-11 decreased from 6,300 J µg/L to 750 µg/L; and TCE concentrations in well DA-08 decreased from 320 µg/L to 13 µg/L (Graph 8-F).

Concentrations of cis-1,2-DCE are on a steady increase in wells DA-02, DA-03, DA-05 and DA-07, with the greatest increase in well DA-03, measuring 360 J µg/L (May 2007) to 810 µg/L (September 2007) (Graph 6-F).

The COC benzene was detected in wells DA-01, DA-03 and DA-07 with a maximum estimated concentration of 36 J µg/L detected in well DA-03 (May and September 2007) (Graph 5-F).

Exposition 'A' Zone Plume Mid Area

Monitoring wells within the interior of the plume which have significant VOC concentrations (100 µg/L -1,000 µg/L TCE contour line), include wells MW-04-75, MW-21-80 and MW-22-75, as discussed below:

Monitoring well MW-04-75 was installed in October 2006, and is located approximately 40 feet southeast of the ERH Electrode Array (Figure 6-2). During the first quarter of 2007, concentrations of TCE and cis-1,2-DCE were detected above the respective SSRLs, measuring 550 J µg/L and 16 J µg/L, respectively. PCE was detected at 1.8 J µg/L; this well was measured dry during the second and third quarters of 2007 (Table 7).

Monitoring well MW-21-80 is located in the northwest portion of the Pemaco Property (Figure-6-2). Historical data from MW-21-80 indicate that TCE concentrations have increased since monitoring began in October 2003, with concentrations ranging from a low of 0.56 J µg/L (October 2003) to a high of 190 J µg/L (February 2007) (Graphs 6-G and 8-G). However, during the second quarter of 2007, TCE concentrations began to decline (170 J µg/L, June 2007), and continued to decline in September 2007 (120 µg/L). Similarly, cis-1,2-DCE concentrations have increased overall, however, concentrations also began to decline during the second quarter of 2007: February- 1,200 J µg/L; June- 1,000 J µg/L; and September- 720 J µg/L. Historical concentrations of VC ranged from 0.085 J µg/L (October 2003) to 51 J µg/L (June 2007), where concentrations began to decline during the third quarter of 2007 (Graph 10-G). PCE was measured less than the detection limit during all three quarters, and 1,1-DCE and benzene were each detected once above the respective SSRLs (Table 7).

Monitoring well MW-22-75 is located in the northeast portion of the Pemaco Property (Figure-6-2). Historical data indicate that TCE concentrations in MW-22-75 have remained above the SSRL of 5 µg/L since the well was installed in October 2003, ranging in concentration from 46 J µg/L to 94 µg/L (Graph 8-G). Cis-1,2-DCE concentrations have similarly remained above the SSRL of 6 µg/L since installation, with a low detection of 180 µg/L and a high of 600 µg/L (Graph 6-G); Concentrations above the SSRLs for 1,1-DCE, PCE, trans-1,2-DCE and VC were also detected in this well during the first quarter of 2007 (20 µg/L, 6.5 µg/L, 38 µg/L and 23 µg/L, respectively). This well was measured dry during the second and third quarters of 2007.

Exposition 'A' Zone Plume Downgradient Margins

Samples collected from wells at the downgradient plume margins which have marginal TCE, PCE and 1,1-DCE concentrations, include wells MW-07-75, MW-08-70, MW-09-70, MW-10-75, MW-12-70 and MW-20-70 as shown on Figure 6-2. Historical concentrations of TCE in these downgradient wells range from 0.27J µg/L in well MW-07-75 (May 2007) to 17 µg/L in well MW-08-70 (April 2002). TCE concentrations during this reporting period decreased overall, ranging from a low of less than the detection limit, to a high of 2.9 J µg/L (well MW-20-70, February 2007). Cis-1,2-DCE was detected above the SSRL of 6 µg/L in well MW-20-70 during the first quarter of 2007 (6.4 J µg/L), however, this well was measured dry during the second and third quarters of 2007 (Graphs 6-G and 8-G).

Historical VOC data for all wells are presented in Appendix C, and Graphs 5-10.

9.2.2 1,4-Dioxane

Groundwater samples were collected for 1,4-dioxane from each monitoring well and each DA series well screened within Exposition 'A' Zone at least once during the first three quarters of 2007, with the exception of three wells which were measured dry, or were not accessible. Laboratory analysis indicates that samples collected from wells DA-01, DA-06, DA-07 and DA-08 contained detectable concentrations of 1,4-dioxane during at least one of the three quarterly sampling events. Detected concentrations ranged from 1.5 J µg/L (DA-08, June 2007) to 13 µg/L (DA-01, September 2007) (Table 12).

Elevated concentrations of 1,4-dioxane correlate with elevated TCE concentrations within the 'A' Zone supporting the relationship between 1,4-dioxane and chlorinated solvents present at the Site. Based on analytical data collected from the 'A' zone wells, the 1,4-dioxane plume is not migrating beyond the perimeter of the TCE plume.

9.3 EXPOSITION 'B' ZONE

9.3.1 VOC Plume

The groundwater concentrations of chlorinated VOCs in the 'B' Zone are similar to the concentrations found in the 'A' Zone, with TCE being the most prevalent and widespread compound. The dilute fringes of the TCE plume extend over a much greater area in the 'B' Zone than in the 'A' Zone during the first three quarters of 2007 (Figure 7-2). This larger plume size is a further indication that the 'B' Zone sand lenses are more uniform and continuous than the 'A' Zone sands. Less prevalent chlorinated and non-chlorinated VOCs, which are consistently detected above the respective SSRLs in several of the 'B' Zone wells during this reporting period include: benzene, chloroform and methyl chloride and TCE daughter products (1,1-DCE, cis-1,2-DCE, trans-1,2-DCE, PCE, and VC) (Table 8).

During the first quarter of 2007, results indicate that the dilute fringes of the TCE plume extend west, onto the W.W. Henry property. During the third quarter, however, the west plume boundary line contracted, and terminates at the 59th Place and 60th Street intersection. The estimated surface area of the 'B' zone TCE plume decreased from approximately 7.60 acres in the first quarter, to approximately 5.43 acres in the third quarter (approximately 30% decrease). This decrease is likely due to the startup of the groundwater and vapor extraction and treatment systems in April/May 2007; the measured average VOC removal rate from 4/25/07 to 12/31/07 was 56 lbs/day, as referenced in the *Annual Operations Report, Pemaco Superfund Site, Maywood, California,* Prepared by TN&A, dated January 2008 (TN&A, 2008). Although

fluctuations of TCE concentrations have been observed, the overall size and shape of the plume has remained relatively stable since the first quarter of 2007. During the second and third quarters, monitoring wells MW-14-90 and MW-01-80 (located within Exposition 'AB' Zone) were measured dry at least once during this reporting.

The source area concentrations (1,000 to 10,000 µg/L) of the Exposition 'B' Zone TCE plume mimic the 'A' Zone source area, while the dilute fringes of the 'B' Zone TCE plume further extend offsite in a south (approximately 240 feet south of 60th Place) and west (beyond monitoring well MW-20-75/80) direction (Figure 7-2). Concentrations of TCE range from an estimated concentration of 0.1 J µg/L (well MW-09-85) to 13,000 J µg/L for well MW-26-90 and 13,000 µg/L for well RW-01-95 during this reporting period.

In the following section the VOC plume within Exposition 'B' Zone is discussed via three areas: Source Area, Mid Area, and Downgradient Margins.

Exposition 'B' Zone Plume Source Area

Monitoring wells which displayed the highest VOC concentrations within the source area (1,000-µg/L -10,000 µg/L TCE contour line) during each of the three quarters of 2007, include wells MW-26-90, RW-01-95 and MW-19-90, as discussed below:

RW-01-95 was installed in 2002 and is located within the plume "Source Area", at the south end of the former Pemaco property. Concentrations of TCE ranged from 7,500 µg/L (June 2007), to 13,000 µg/L (September 2007) (Graph 8-K). Concentrations of 1,1-DCE, cis-1,2-DCE, PCE and VC were also detected above their respective SSRLs in well RW-01-95 during this reporting period (Table 8).

Monitoring wells MW-26-90 is located within the plume "Source Area" at the south end of the former Pemaco property. Concentrations of TCE ranged from 2,700 µg/L (September 2007) to 13,000 J µg/L (February 2007) during this reporting period. (Graph 8-K). Concentrations of 1,1-DCE, cis-1,2-DCE, and PCE were also detected above their respective SSRLs during this reporting period (Table 8).

Monitoring well MW-19-90 is located just southwest of RW-01-95, in the "Source Area". TCE was detected at an estimated concentration 1,800 J µg/L during the February 2007 event, however, TCE has since decreased to 470 µg/L (September 2007). Accordingly, concentrations of cis-1,2-DCE have increased, as cis-1,2-DCE was detected at an estimated concentration of 30 J µg/L in February, and increased to an estimated concentration of 1,300 J in September 2007 (Table 8 and Graphs 6-K and 8-K).

Exposition 'B' Zone Plume Mid Area

During this reporting period, monitoring wells MW-02-95, MW-03-90 and MW-27-90, located within the interior of the plume (100 µg/L -1,000 µg/L TCE contour line) show a significant decrease in TCE concentration, as discussed below:

Well MW-02-95 is located cross-gradient of the "source area" (Figure 6-3). TCE concentrations in this well have remained high since this well was installed in May 2001, with concentrations ranging from 2,200 µg/L (May 2001) to 7,500 J µg/L (June 2007) (Graph 8-J). A VOC concentration spike was observed in this well during the second quarter of 2007, however, TCE concentrations decreased in September 2007, measuring 4,000 µg/L.

Monitoring well MW-03-90 was installed in November 2006 to replace MW-03-85, which was screened through both 'A' and 'B' Zones, and is located approximately 35 feet south of the ERH Electrode Array. Analytical data collected from samples taken during this reporting period indicate a significant decrease in TCE concentration from 3,000 J µg/L in February down to 570 µg/L in September 2007(Graph 8-J). Concentrations in this well have likely been affected by the EISB Pilot Test.

Monitoring well MW-27-90 is located on-site, just southwest of the ERH Electrode Array. This well was first sampled in February 2007, and groundwater samples collected from the three quarterly events of 2007 indicate a decrease in TCE concentration from 7,700 J µg/L measured in February, to less than the detection limit in September (Graph 8-K). This well was used as an injection well to inject sodium lactate for the EISB Pilot Study, therefore, the VOC concentrations have been affected.

Monitoring wells MW-13-85 and MW-22-90 show an increase in TCE detected during this reporting period, within the Exposition 'B' Zone:

Monitoring well MW-13-85 is located south of the site on 60th street, just south of the treatment compound. Analytical data collected from samples taken during this reporting period indicate a slight increase in TCE concentration, as concentrations increased from 48 µg/L in February, to 67 µg/L in September.

Monitoring well MW-22-90 is located along the east property line of the Site, at the north end. Analytical data collected from samples taken during this reporting period indicate a slight increase in TCE concentration, as concentrations measured 1.2 J µg/L in February, to 14 µg/L in September (Table 8 and Graph 8-K).

Exposition 'B' Zone Plume Downgradient Margins

Samples collected from wells at the downgradient plume margins which have low levels of TCE, PCE and 1,1-DCE concentrations, include wells MW-06-85, MW-20-85, MW-08-85 and MW-09-85 as shown on Figure 6-3. These wells serve as west, south and southwest plume margin wells, respectively. Groundwater samples from these wells indicate that TCE, PCE and 1,1-DCE concentrations remained below SSRL levels in February, May and September 2007, except well MW-20-85, where TCE was detected at 9.9 J µg/L on 02/16/07. Historical data for these wells is presented on Table 8 and Graphs 5 to 10.

Historical VOC data for all wells are presented in Appendix C.

9.3.2 1,4-Dioxane

Groundwater samples were collected for 1,4-dioxane from each monitoring well and each DB series well screened within Exposition 'B' Zone at least once during the first three quarters of 2007. Laboratory analysis indicates that samples from wells DB-01, DB-06 and MW-20-85 contained detectable concentrations of 1,4-dioxane during at least one of the three quarterly sampling events, where detected concentrations ranged from 3 µg/L (MW-20-85, September 2007) to 24 µg/L (DB-01, September 2007) (Table 12).

Elevated concentrations of 1,4-dioxane correlate with elevated TCE concentrations within the 'B' Zone supporting the relationship between 1,4-dioxane and chlorinated solvents present at the Site. Based on analytical data collected from the 'B' zone wells, 1,4-dioxane is not migrating beyond the perimeter of the TCE plume.

9.4 VOCs In Groundwater Exposition 'C' Zone

There are six wells screened in the Exposition 'C' Zone. Monitoring wells MW-10-110 and MW-11-100 are located over 800 feet downgradient to the southwest and south of the Pemaco Site, respectively, while the remainder of the wells are located within approximately 160 feet south and west of the site (MW-05-105, MW-23-110, MW-24-110 and MW-25-110).

Cis-1,2-DCE, TCE and VC were consistently detected above the SSRLs during the first three quarterly events of 2007 in monitoring well MW-24-110, with concentrations ranging from 170 µg/L to 1,100 µg/L (cis-1,2-DCE), 560 µg/L to 7,900 J µg/L (TCE) and 3.9 µg/L to 51 J µg/L (VC) (Table 10). Concentrations of TCE are steadily increasing in this well, as concentrations measured 3.3 J µg/L when the well was initially installed (October 2003) and now measures 3,800 µg/L (September 2007) (Graph 8-L). 1,1-DCE was also detected at an estimated concentration above the SSRL in MW-24-110 in February 2007.

Concentrations of TCE in monitoring well MW-10-110 have remained above the SSRL of 5 µg/L since January 2006, and have ranged from 13 µg/L (September 2007) to 15 J µg/L (February 2007) during this reporting period (Graph 8-L).

Concentrations of TCE in monitoring well MW-25-110 have been above the SSRL since August 2004 (25 µg/L) and samples collected during this reporting period indicate that TCE is steadily increasing from 45 µg/L to 92 µg/L (Graph 8-L).

Historical concentrations of TCE and cis-1,2-DCE in samples collected from monitoring wells MW-05-105, MW-11-100 and MW-23-110 show both compounds have remained relatively stable below 5 µg/L) (Table 10 and Graph 6-L and 8-L).

1,4-Dioxane

Groundwater samples were collected for 1,4-dioxane from each monitoring well screened within Exposition 'C' Zone at least once during the first three quarters of 2007, where monitoring wells MW-23-110 and MW-24-110 were consistently sampled during the first three quarters. Monitoring wells MW-23-110 and MW-25-110 contained detectable concentrations of 1,4-dioxane, ranging from an estimated concentration of 2.9 J µg/L (MW-25-110, January 2007) to 13 µg/L (MW-23-110, May 2007). A summary of 1,4-dioxane results for the February, May and September 2007 quarterly sampling events are presented in Table 12.

9.5 VOCs In Groundwater Exposition 'D' & 'E' Zones

There are six wells screened in the Exposition 'D' Zone (MW-05-135, MW-07-130, MW-12-150, MW-23-145, MW-24-140 and MW-25-130) and one well screened in the Exposition 'E' Zone (MW-10-170). During this reporting period, TCE was detected above the SSRL in three wells, MW-07-130, MW-24-140 ad MW-25-130, with a maximum concentration detected in MW-24-140 in February 2007 (80 µg/L).

Monitoring well MW-24-140 is located within the ERH Electrode Array area, and historical concentrations of TCE showed a decreasing trend (120 J µg/L, October 2003 and 1.6 µg/L, September 2007) (Graph 8-M), however, a TCE spike was detected in February 2007 at 80 J µg/L. This spike is anomalous as the May and September 2007 results were < 2.0 µg/L.

Trace detections of TCE were detected in MW-05-135 and MW-23-145 during this reporting period (Table 11 and Graph 8-M), however all were below the SSRL of 5.0 µg/L.

'E' Zone monitoring well MW-10-170, is located approximately 1,000 feet southwest of the Site, just north of the intersection of Alamo Avenue and 61st Street. No detections were measured from samples collected from this well during this reporting period (Table 11).

1,4-Dioxane

Groundwater samples were collected for each of the wells screened within Exposition 'D' & 'E' Zones for analysis of 1,4-dioxane at least once during this reporting period, and monitoring well MW-24-140 was consistently sampled during each quarter. During this reporting period, laboratory analysis reported no detection of 1,4-dioxane for any wells screened within the 'D' & 'E' zones (Table 12).

10.0 CONCLUSIONS

This section summarizes the results of the quarterly groundwater sampling program performed for the Pemaco Superfund Site for the first three quarters of 2007. Deviations of the sampling and analysis plan were limited to situations where certain wells could not be sampled as they had become dry or inaccessible:

Below is a summary table stating dates of each quarterly event, number of wells for each zone and total number of wells with COCs > SSRLs during this reporting period:

Event	Sampling Dates	Number of Wells Sampled						Total Number of Wells Not Sampled		
		Perched Zone	Exposition Zones							
			'A'	'B' *	'C'	'D'	'E'	DRY	FP	N/A
1Q 2007	February 13 to 26	43	24	39	6	6	1	14	0	6
2Q 2007	May 24 to June 14	33	11	36	6	6	1	32	4	9
3Q 2007	September 6 to 19	34	10	37	6	6	1	35	4	6
Total number of wells with COCs > SSRLs during 1Q		42	19	34	6	4	0	Not applicable		
Total number of wells with COCs > SSRLs during 2Q		27	8	31	5	4	0	Not applicable		
Total number of wells with COCs > SSRLs during 3Q		28	8	34	5	4	0	Not applicable		

Notes:

1Q – First Quarter
2Q – Second Quarter
3Q – Third Quarter

* – 'AB' Zone data compiled with 'B' Zone data
FP – Free Product
N/A – Not Accessible

- The most prevalent compounds in Perched groundwater underlying the Pemaco area include PCE, TCE, cis-1,2-DCE and VC. Significant decreases of PCE concentrations are apparent in wells B-01, B-19, B-31, B-32, SV-03, and extraction wells PC-06, PD-06, PD-07 and PD-08. Significant decreases in TCE concentrations are apparent in wells B-01, B-13, B-22 and B-27, while concentrations are consistently increasing in off-site well PB-03. Concentrations of cis-1,2-DCE and VC are also increasing in this extraction well, and these increases are likely a result of the DPE System start-up in May 2007.

- The third quarterly sampling event of 2007 indicates that 1,4-dioxane is significantly decreasing in Perched Zone wells B-01, B-20, PD-05, PD-06, and PD-08, while increasing concentrations have been observed in wells B-13 and B-21. Concentrations of 1,4-dioxane are stable in well PC-06. A total of eight monitoring wells had 1,4-dioxane detected above the Site Specific Remediation Level (SSRL) during the third quarter. The 1,4-dioxane plume occurs within the area of the chlorinated solvent plumes identified within the Perched Zone.

- Wells within the Perched Zone with free product include wells B-15, B-28, B-29 and PD-04. The free product detected in wells B-15 and PD-04 is related to Pemaco historical uses and is being addressed by the DPE System, while the free product detected in wells B-28 and B-29 is related to the W.W. Henry property, and is being addressed by their own remediation system under the auspices of the LARWQCB. Wells which have become de-watered in the Perched Zone include wells B-11, B-12, B-23, B-25, B-26, PC-01, PD-01 and SV-04.

- As groundwater levels within the 'A' Zone have fluctuated significantly due to extraction during this reporting period, the estimated surface area of the Exposition 'A' Zone TCE plume decreased from approximately 6.07 acres in the first quarter, to approximately 1.31 acres in the third quarter, resulting in a decrease of approximately 78%. A total of 10 monitoring wells, 1 recovery well and 5 extraction wells have become de-watered within the Exposition 'A' Zone since pumping began.

- The most extensive contaminant plume at the Site is found in the Exposition 'B' Zone and is comprised of TCE and its associated daughter products. The estimated surface area of this plume in September 2007 was estimated at 5.43 acres, which is a 30% decrease in size since February 2007. Although seasonal fluctuations in TCE concentrations have been observed in both the "source area" and fringes of the plume, the overall size and shape of the 'B' Zone TCE plume have been relatively stable since the Pemaco groundwater monitoring and sampling program began in May 2001. The effects of the DPE System, which began in May 2007 are clearly evident.

- Groundwater sampling data collected from wells within the 'C' Zone indicate stable COC concentrations with the exception of wells located near the "source area", including wells MW-24-110 and MW-25-110 where TCE is steadily increasing. Well MW-24-110 was converted to an extraction well in August 2007 to mitigate these increases.

- COCs in monitoring wells located within Exposition 'D' Zone are generally stable, with TCE concentrations detected slightly above SSRLs in wells MW-07-130, MW-24-140 and MW-25-130.

- The monitoring well located within Exposition 'E' Zone, MW-10-170, does not indicate any detections above SSRLs for COCs.

- 1,4-Dioxane was detected in Exposition Zones wells DA-01, DB-01, DB-06, MW-20-85, DAB-08, and MW-23-110, during the third quarter of 2007.

This quarterly report provides detailed groundwater sampling data and analyses and relevant observation to all parties involved in the management and review of the Site groundwater remediation. Continued progress on the groundwater and soil vapor remediation is documented by on-going weekly progress reports and real-time website data for the ERH remediation. In addition, groundwater remediation progress is reported in these Quarterly Groundwater Monitoring Reports.

11.0 REFERENCES

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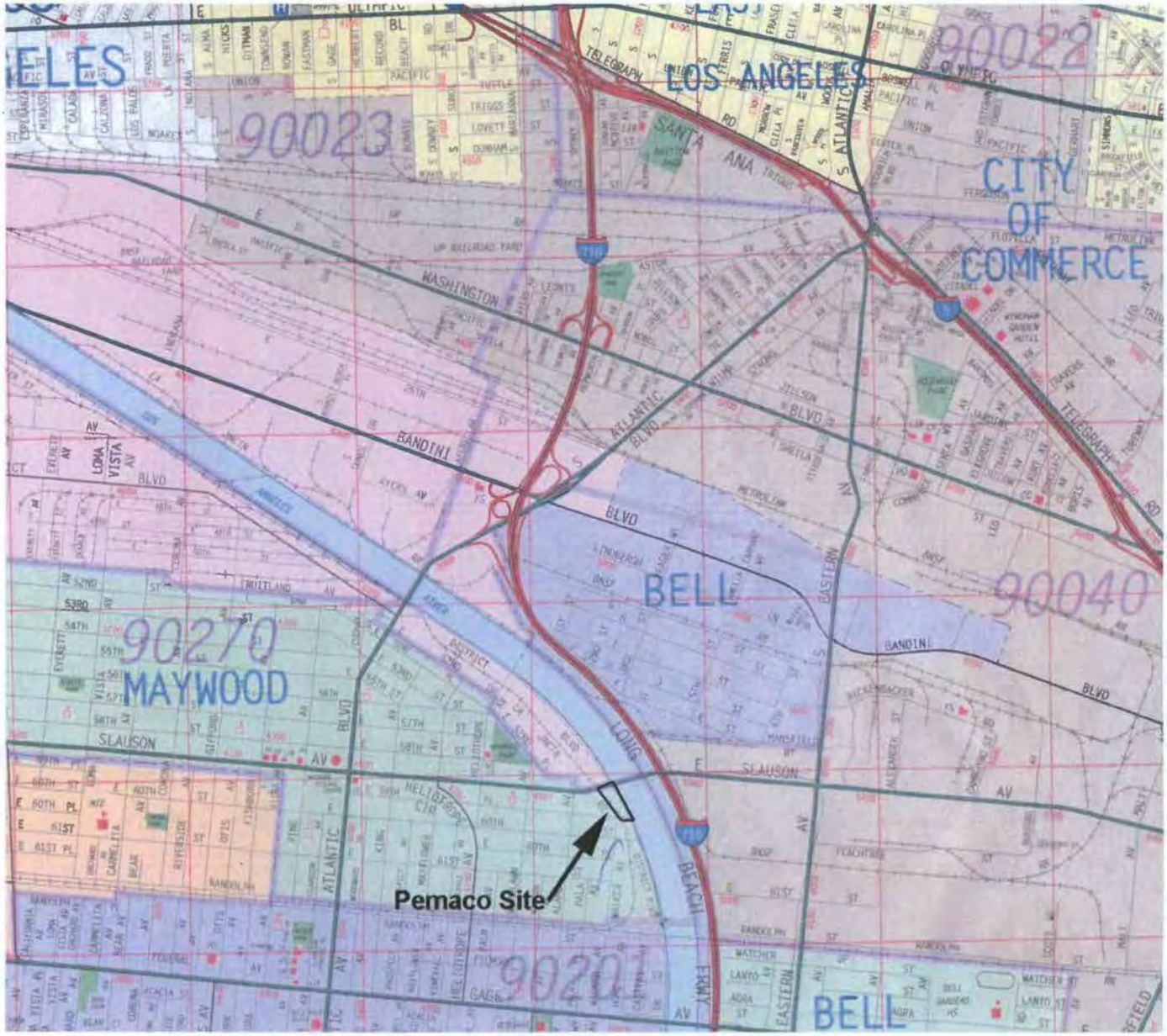
FIGURES



1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

SCALE 1:24000

LEGEND

DATE:	FILE NAME:	APPROVED BY:
11/5/2000	PEMACO-SL	

SITE LOCATION MAP

PEMACO, INC.
MAYWOOD, CALIFORNIA

T N & Associates, Inc.
Engineering and Science

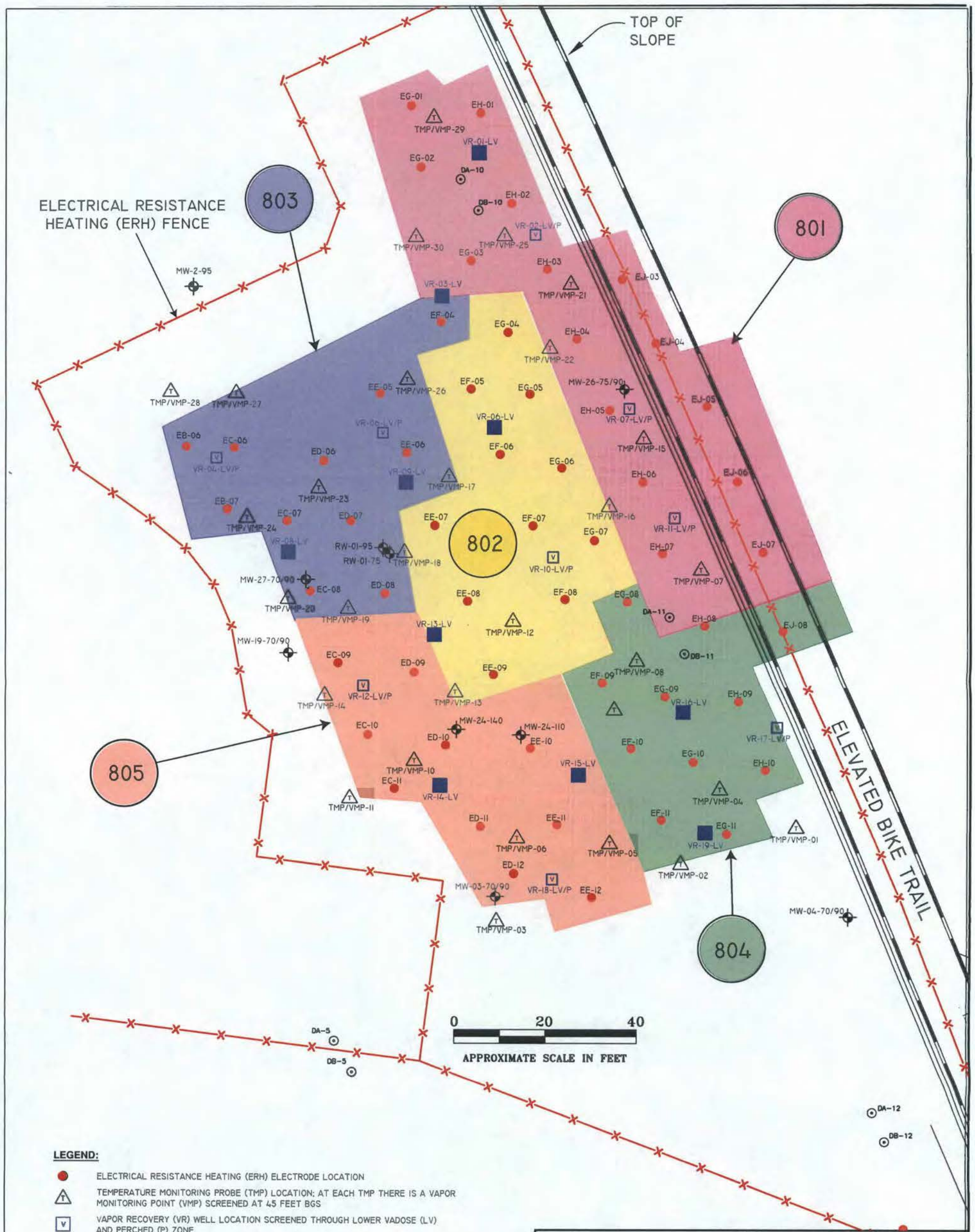
FIGURE
1-1

PARTIALLY SCANNED OVERSIZE ITEM(S)

See document # 2279326
for partially scanned image(s).

FIGURE 1-2

For complete hardcopy version of the oversize document
contact the Region IX Superfund Records Center



LEGEND:

- ELECTRICAL RESISTANCE HEATING (ERH) ELECTRODE LOCATION
- TEMPERATURE MONITORING PROBE (TMP) LOCATION; AT EACH TMP THERE IS A VAPOR MONITORING POINT (VMP) SCREENED AT 45 FEET BGS
- VAPOR RECOVERY (VR) WELL LOCATION SCREENED THROUGH LOWER VADOSE (LV) AND PERCHED (P) ZONE
- VAPOR RECOVERY (VR) WELL LOCATION SCREENED THROUGH LOWER VADOSE (LV)
- DUAL PHASE EXTRACTION (DPE) WELL LOCATION
- EXISTING MONITORING WELL LOCATION
- ELECTRICAL RESISTANCE HEATING (ERH) AREA

NOTES:

1. **THERMAL REMEDIATION SERVICES, INC. SURFACE PIPING IS NOT SHOWN.**

ELECTRICAL RESISTANCE HEATING (ERH) AREA

PEMACO SUPERFUND SITE
5050 EAST SLAUSON AVENUE
MAYWOOD, CALIFORNIA

PREPARED FOR:	PREPARED BY:
U.S. Environmental Protection Agency Region IX San Francisco, California	TN & A — T N & Associates, Inc. Engineering and Science

SCALE: AS SHOWN	APPROVED	DATE: 09/19/07
DESIGNED: TRS DRAWN: TRS & TN&A CHECKED: PB & JW		FIGURE 1-3

PARTIALLY SCANNED OVERSIZE ITEM(S)

See document # 2279326
for partially scanned image(s).

For complete hardcopy version of the oversize document
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FIGURES 5-1 TO 5-5

FIGURES 6-3 TO 6-5

FIGURES 7-1 TO 7-2

TABLES

Table 1
Site Stratigraphy
Pemaco Superfund Site, Maywood, California

STRATIGRAPHIC ZONE	AVERAGE DEPTH INTERVAL	GENERAL LITHOLOGY	AVAILABLE GEOTECHNICAL CHARACTERISTICS
Upper Vadose Zone	Surface to 25' bgs	Surficial fill from 2' to 6' deep. Underlying native soils are predominately fine SM sands from 1' to 20' thick interbedded with fine SP and SP-SM sands from 2" to 6' thick. Local discontinuous lenses of silt/clay ranging from 3" to 4' thick are also present within upper vadose zone interval.	▪ Total Porosity: 40% to 47% ▪ TOC: 1.19% to 4.98% ▪ Less than 200 Sieve: 24% to 89%
Perched Zone	25' to 30' bgs	Fine silty sand ranging from 6" to 4' thick. Locally, perched zone is comprised of sandy silts or silt with sand ranging from 1' to 3' thick.	▪ Total Porosity: 38% to 47% ▪ TOC: 0.05% to 2.12% ▪ Less than 200 Sieve: 14% to 56%
"Perching" Clay	Top of clay ranges from 28' to 40' bgs	Silty Lean and Fat clays ranging from 1' to 15' thick comprise top of perching unit and are underlain and interbedded with clayey and sandy silts ranging from 1' to 8' thick. Perching lithosome ranges from 10' to 20' total thickness.	▪ Total Porosity: 32% to 50% ▪ TOC: 0.48% to 4.15% ▪ Less than 200 Sieve: 75% to 89%
Lower Vadose Zone Sand	40' to 50' bgs	Predominately fine to medium SP sands and gravelly SW sands from 1' to 14' thick with local intervals of SM and SP-SM sands from 6" to 3' thick. Local interbeds of silt lenses from 6" to 4' thick are within this unit. Coarser units are derived from granitic source rocks.	▪ Total Porosity: 48% to 57% ▪ TOC: 0.2% to 5.0% ▪ Less than 200 Sieve: 1% to 12%
Lower Vadose Zone (Fine-Grained interval)	50' to 65' bgs	Lean and Fat Clays ranging from 6" to 5' thick interbedded with Sandy and Clayey Silts ranging from 2' to 20' thick. Local discontinuous lenses of unsaturated SP and SM sands are present from 6" to 2" thick within interval.	▪ Total Porosity: 42% to 68% ▪ TOC: 0.4% to 8.6% ▪ Less than 200 Sieve: 57% to 97%
Exposition 'A'	65' to 75' bgs	Fine SM and SP sands locally interbedded with SW sands. Thickness is highly variable ranging from 3" to 10' thick. Interval is comprised of a series of discontinuous saturated sand lenses.	▪ Total Porosity: 38% to 68% ▪ TOC: 0.66% to 3% ▪ Less than 200 Sieve: 2.4% to 35% ▪ K range: 2.277E-03 ft/min (1.16E-03 cm/sec) to 8.281E-04 ft/min (4.21E-03 cm/sec)
'A' – 'B' Fine-Grained	75' to 80' bgs	Fat and Lean Clays with local interbeds of Clayey Silt with sand. Interval ranges from 5' to 10' thick and is continuous where both "A" and "B" aquifer zones are present.	▪ Total Porosity: 50% to 61% ▪ TOC: 2.91% – 5.46% ▪ Less than 200 Sieve: 76% to 87%
Exposition 'B_1' **Exposition 'B_2'**	80' to 90' bgs 90' to 92' bgs	Fine SM, SP and SM-SP sands ranging from 1.5' to 10' thick Some of the thicker portions of the unit have interbeds of silt/clay to 1' thick. The "B" zone is continuous throughout site vicinity. Fine SM, SC and SP-SM sands ranging from 1.5' to 2' thick This secondary unit has only been observed underlying the southernmost portion of the site where it is separated by the overlying B_1 unit by 1' to 3' of fat clay. This unit has not been observed offsite in any of the locations sampled below 90' bg.	▪ Total Porosity: 50% to 56% ▪ TOC: 0.60% to 0.64% ▪ Less than 200 Sieve: 4% - 39% ▪ K range: 1.046E-01 ft/min (5.3E-02 cm/sec) to 6.56E-03 ft/min (5.44E-04 cm/sec)
'B' – 'C' Fine-Grained	90' to 100' bgs	Predominately Fat and Lean Clays from from 8' to 10' thick with local interbeds Sandy Silts from 1' to 5' thick. Total thickness of unit ranges from 7' to 12'.	▪ Total Porosity: 48% to 53% ▪ TOC: 3.76% to 9.22% ▪ Less than 200 Sieve: 91% to 99%
Exposition 'C'	100' to 110' bgs	Fine SM, SP and SP-SM sands ranging from 2' to 6' thick. Appears to be continuous throughout the site vicinity within the 95' to 110' depth interval.	▪ No Geotechnical Lab Data Available

Table 1 (continued)
Site Stratigraphy
Pemaco Superfund Site, Maywood, California

STRATIGRAPHIC ZONE	AVERAGE DEPTH INTERVAL	GENERAL LITHOLOGY	GENERAL GEOTECHNICAL CHARACTERISTICS
'C' – 'D' Fine-Grained	110' to 125' bgs	Lean and Fat Clays form 3' to 6' thick interbedded with Sandy and Clayey Silts from 4' to 12' thick. Total unit thickness ranges from 18' to 30'.	▪ No Geotechnical Lab Data Available
Exposition 'D'	125' to 140' bgs	Interbedded fine SM, SP and SP-SM sands, SW sands and gravelly sands and local GW intervals. Total thickness rages from 6' to 15'.	▪ Total Porosity: 49% to 60% ▪ TOC: 0.60% to 1.04% ▪ Less than 200 Sieve: 8% to 16%
'D' – 'E' Fine-Grained	140' to 160' bgs	Predominately Clayey Silt with local interbeds of Lean Clays. Thickness ranges from 12' to 18'. Local saturated SM sand lenses to 2' thick located within interval.	▪ Total Porosity: 54% ▪ TOC: 2.6% ▪ Less than 200 Sieve: 85% * - Only one sample analyzed
Exposition 'E'	160' to 175' bgs	Alternating intervals of 1' thick fine SM sands and SW sands.	▪ Total Porosity: 53% ▪ TOC: 0.4% ▪ Less than 200 Sieve: 12% * - Only one sample analyzed
Lower Exposition Fine-Grained	175' to ???	Clay with Silt finely laminated with Silt. Local lenses of medium SP sand 6" thick.	▪ No Geotechnical Lab Data Available

TABLE 2
Well Construction Data - Perched Zone
Pemaco Superfund Site, Maywood, California

Well ID	Date Installed	Northing	Easting	Top of Casing Elevation (ft NAVD88)	Vault Cover Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Casing Diameter (inches)	Well Material	Screening Interval (feet)	Screen Slot Size (inches)	Filter Pack Sand Size	Constructed Total Depth (feet)	Measured Total Depth (from top of casing)
Monitoring Wells													
B-01	07/19/90	1817183 99	6509516.29	147.84	--	--	2	PVC	--	--	Pea Gravel	35	35 00
B-03	07/18/90	1817172.57	6509452 98	146 06	--	--	2	PVC	--	--	Pea Gravel	40	41.00
B-04	07/18/90	1817121.53	6509468 70	145 92	--	--	2	PVC	--	--	Pea Gravel	40	36.00
B-05	07/18/90	1817139.90	6509458.37	145 91	--	--	2	PVC	--	--	Pea Gravel	40	36 00
B-06	07/19/90	1817097.47	6509526.68	146 36	--	--	2	PVC	--	--	Pea Gravel	45	Obstructed at 8 feet below ground surface
B-07	07/18/90	1817093.69	6509563.42	146 64	--	--	2	PVC	--	--	Pea Gravel	30	28 80
B-08	07/19/90	1817067.20	6509578.20	146 32	--	--	2	PVC	--	--	Pea Gravel	--	30.00
B-10	07/19/90	1817036.93	6509591.80	145 50	--	--	2	PVC	--	--	Pea Gravel	35	32.00
B-11	07/20/90	1817004.23	6509607.57	144 57	--	--	2	PVC	--	--	Pea Gravel	25	25 00
B-12	07/18/90	1816927.58	6509632.80	142 36	--	--	2	PVC	--	--	Pea Gravel	25	24 00
B-13	07/20/90	1816951.73	6509574.91	140.26	--	--	2	PVC	--	--	Pea Gravel	35	30.00
B-14	07/20/90	1817022.70	6509500.08	141 55	--	--	2	PVC	--	--	Pea Gravel	30	23.00
B-15	07/20/90	1817051.94	6509471.83	141 05	--	--	2	PVC	--	--	Pea Gravel	35	31.50
B-16	07/20/90	1817074.26	6509454.45	141 39	--	--	2	PVC	--	--	Pea Gravel	35	23.00
B-17	04/16/01	1817351 65765779	6509406 34185294	150 30	150 61	150 50	1.5	Schedule 40 PVC	33 - 43	0 010	20/40	43	42.90
B-18	04/16/01	1817270.76487070	6509340.32725634	147.05	147 50	147 40	1.5	Schedule 40 PVC	24 - 29	0 010	20/40	29	28 50
B-19	04/18/01	1817152.21032391	6509374.68210412	143 58	143.75	143 60	1.5	Schedule 40 PVC	22 - 32	0 010	20/40	32	31 65
B-20	04/19/01	1817047.52634224	6509461.88110673	141 40	141.89	141.70	1.5	Schedule 40 PVC	22 - 32	0 010	20/40	32	32 10
B-21	04/16/01	1816938 69098282	6509530 85939496	140 20	140.44	140 30	1 5	Schedule 40 PVC	23 - 28	0 010	20/40	28	27 85
B-22	04/18/01	1816895 62218899	6509507.68590426	138.12	138.41	138.38	1 5	Schedule 40 PVC	20 - 25	0.010	20/40	25	24.50
B-23	04/18/01	1816710 68891235	6509489 13838956	137.43	137 73	137 69	1.5	Schedule 40 PVC	19 - 24	0 010	20/40	24	23 90
B-24	04/16/01	1816717.14312994	6509625.75764029	138.20	138.57	138.40	1 5	Schedule 40 PVC	22 - 27	0 010	20/40	27	26 95
B-25	04/17/01	1816742.46665634	6509714 16346814	137.84	138 10	138 08	1 5	Schedule 40 PVC	18 - 23	0 010	20/40	23	22 53
B-26	04/17/01	1816837.46377518	6509677 05741614	139.66	139 90	139.90	1 5	Schedule 40 PVC	18 - 23	0 010	20/40	23	22 78
B-27	04/17/01	1816917.90003661	6509407.21703202	138.50	138.71	138.68	1 5	Schedule 40 PVC	21 - 26	0 010	20/40	26	25 74
B-28	04/17/01	1816929.58504548	6509294 00513734	138.67	138 87	138 85	1 5	Schedule 40 PVC	21 - 26	0 010	20/40	26	25 70
B-29	04/17/01	1816945.89123575	6509165 33403617	138.85	139 10	139.07	1 5	Schedule 40 PVC	22 - 27	0 010	20/40	27	26.80
B-30	04/16/01	1817032.22368902	6509245 81735845	143 60	143 79	143 80	1 5	Schedule 40 PVC	23 - 28	0 010	20/40	28	28 00
B-31	04/16/01	1817100.47996941	6509311 29722791	140.38	140 80	140 70	1.5	Schedule 40 PVC	20 - 25	0 010	20/40	25	24 72
B-32	04/17/01	1817153 02765714	6509321 44622878	141.45	141.69	141 63	1 5	Schedule 40 PVC	20 - 30	0 010	20/40	30	29.52
B-33	11/07/01	1816649 97763408	6509752 82624065	137.59	137 78	137 76	1 5	Schedule 40 PVC	21 - 26	0.010	20/40	26	25 96
B-34	11/08/01	1816558 24316450	6509788 03050540	137.21	137 56	137 55	1 5	Schedule 40 PVC	19 - 24	0 010	20/40	24	23.68
B-35	11/07/01	1816629.32401275	6509670 07710503	138.03	138 42	138 30	1.5	Schedule 40 PVC	23 - 28	0 010	20/40	28	27 78
B-36	11/07/01	1816855.42970305	6509622 67647721	139.78	140 00	139 80	1 5	Schedule 40 PVC	23 - 28	0 010	20/40	28	28 00
B-37	11/08/01	1817369.53616122	6509379 23316034	153.78	153 97	153 80	1.5	Schedule 40 PVC	31 - 36	0 010	20/40	36	36 11
B-38	01/09/02	1817428 12776000	6509346 79741000	153 33	153 59	153.56	2	Schedule 40 PVC	29 - 34	0 010	2/16	34	34 78
B-39	11/08/01	1817104.79004773	6509217 89912279	140.08	140 32	140 10	1 5	Schedule 40 PVC	18 - 28	0 010	20/40	28	28 25
SV-1	11/01/97	1817147 76481511	6509478.45017901	146.10	146 33	146 20	4	Schedule 40 PVC	10 - 35	0 020	2/16	35	34 00
SV-2	12/01/97	1817247 08599699	6509445 60435200	148.36	148 65	148 60	4	Schedule 40 PVC	15 - 35	0 020	2/16	35	34 00
SV-3	12/01/97	1817260.03006567	6509395 92432370	148.27	148 61	148 50	4	Schedule 40 PVC	15 - 35	0 020	2/16	35	34 40
SV-4	12/01/97	1817086 72137137	6509543.45140799	146.19	146 48	146 30	4	Schedule 40 PVC	15 - 35	0 020	2/16	35	33.40
SV-5	12/01/97	1817002 42853345	6509526.95076490	140.91	141 14	141 10	4	Schedule 40 PVC	15 - 35	0 020	2/16	35	29 00
OB-1V-10	11/22/02	--	--	--	--	--	2	Schedule 40 PVC	9 - 10	0 030	No 3	11	10 00
OB-1V-20	11/22/02	--	--	--	--	--	2	Schedule 40 PVC	18 - 19	0 030	No 3	20	20 00
OB-1W	11/22/02	--	--	--	--	--	2	Schedule 40 PVC	29 5 - 34 5	0 010	2/16	35 5	35.50

TABLE 2
Well Construction Data - Perched Zone
Pemaco Superfund Site, Maywood, California

Well ID	Date Installed	Northing	Easting	Top of Casing Elevation (ft NAVD88)	Vault Cover Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Casing Diameter (inches)	Well Material	Screening Interval (feet)	Screen Slot Size (inches)	Filter Pack Sand Size	Constructed Total Depth (feet)	Measured Total Depth (from top of casing)
Extraction Wells													
PA-1	08/24/05	1816811 10000000	6509624 00000000	141.09	142.1	--	4	Schedule 40 PVC	17-27	0.020	2/12	30	30.10
PA-2	08/23/05	--	--	--	--	--	4	Schedule 40 PVC	22-32	0 020	2/12	35	35 30
PA-3	08/25/05	1816896 00000000	6509493.70000000	139.32	140.4	--	4	Schedule 40 PVC	22-32	0 020	2/12	35	31.22
PA-4	08/25/05	1816829 00000000	6509476 20000000	139 25	140.3	--	4	Schedule 40 PVC	20-30	0.020	2/12	30	29 53
PA-5	08/25/05	1816915 90000000	6509411 50000000	139 41	140 7	--	4	Schedule 40 PVC	20-30	0.020	2/12	30	30.69
PB-1	08/18/05	1816997.00000000	6509468 30000000	142 38	143 9	--	4	Schedule 40 PVC	26-36	0.020	2/12	40	35 10
PB-2	08/17/05	1817075.80000000	6509419 70000000	145.69	146 7	--	4	Schedule 40 PVC	22-32	0 020	2/12	35	35 10
PB-3	08/17/05	1817078.50000000	6509344.70000000	143 55	144 5	--	4	Schedule 40 PVC	22-32	0.020	2/12	35	35 20
PB-4	08/17/05	1817090.80000000	6509269 70000000	144 02	145 1	--	4	Schedule 40 PVC	16-26	0.020	2/12	30	25.75
PB-5	08/16/05	1817161.80000000	6509373.80000000	144 54	146 1	--	4	Schedule 40 PVC	24-34	0 020	2/12	35	35 30
PB-6	08/15/05	--	--	--	146.0	--	4	Schedule 40 PVC	22-32	0 020	2/12	35	35.20
PB-7	08/15/05	1817259 50000000	6509348.50000000	148 01	149 0	--	4	Schedule 40 PVC	24-34	0 020	2/12	35	35 20
PC-1	08/22/05	1816737 20000000	6509718.80000000	140 56	141 5	--	4	Schedule 40 PVC	15-25	0 020	2/12	25	25 10
PC-2	08/23/05	1816826 80000000	6509684 70000000	141.99	143 7	--	4	Schedule 40 PVC	17-27	0.020	2/12	30	30.10
PC-5	08/22/05	1817082.60000000	6509585.60000000	149 21	150 2	--	4	Schedule 40 PVC	29-39	0 020	2/12	40	40 10
PC-6	08/22/05	1817167.10000000	6509551 30000000	148 98	150 5	--	4	Schedule 40 PVC	28-38	0 020	2/12	40	40 60
PD-1	08/23/05	1816762 50000000	6509645.50000000	141.51	142 6	--	4	Schedule 40 PVC	17-27	0.020	2/12	30	30 10
PD-4	08/22/05	1817076 60000000	6509511.50000000	146 37*	146.6	--	4	Schedule 40 PVC	27-37	0.020	2/12	40	40.10
PD-5	08/23/05	1817154 00000000	6509462.70000000	147.60	148 6	--	4	Schedule 40 PVC	27-37	0 020	2/12	40	42.40
PD-6	08/22/05	1817233 80000000	6509501 20000000	149.48	151 4	--	4	Schedule 40 PVC	24-34	0.020	2/12	35	35 00
PD-7	08/19/05	1817231 80000000	6509415 80000000	149 37	150 3	--	4	Schedule 40 PVC	26-36	0.020	2/12	40	35 10
PD-8	08/19/05	1817299 30000000	6509459 10000000	148.96	150.6	--	4	Schedule 40 PVC	26-36	0.020	2/12	37	35 00
PD-9	08/19/05	1817330.40000000	6509382 60000000	151.75	152.7	--	4	Schedule 40 PVC	28-38	0.020	2/12	40	40.00

Notes:
PVC - Polyvinyl chloride
ft NAVD88 - Feet, North American Vertical Datum of 1988
"--" - Data not available or not surveyed
1. Wells B-2 and B-9 were destroyed during UST removal activities (1997)
2. Wells B-6, B-14, B-16, B-35. and SV-2 were abandoned in August 2005 due to obstructions or logistical issues during remedial construction

TABLE 3
Well Construction Data - Exposition 'A' through 'E' Zones
Pemaco Superfund Site, Maywood, California

Well ID	Associated Hydrogeologic Unit	Date Installed	Northing	Easting	Top of Casing Elevation (ft NAVD88)	Vault Cover Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Casing Diameter (inches)	Well Material	Screening Interval (feet)	Screen Slot Size (inches)	Filter Pack Sand Size	Constructed Total Depth (feet)	Measured Total Depth (from top of casing)
Monitoring Wells														
MW-01-80	A and B Zones	05/17/97	1817283 00	6509290 20	146 04	146 53	146 60	2	Schedule 40 PVC	59 - 79	0 020	No 3	79	79 00
MW-02-95	B Zone	05/13/97	1817006.10	6509548 80	144 61	145 08	145 07	2	Schedule 40 PVC	80 - 100	0 020	No 3	100	94 00
MW-03-85	A and B Zones	05/15/97	18168741 40	6509615 50	139 50	139 76	139 80	2	Schedule 40 PVC	64 - 84	0 020	No 3	84	84 00
MW-03-70	A Zone	11/01/06	1816871 30	6509615 10	143 78	--	144 30	2	Schedule 80 CPVC	60 - 70	0 010	2/16 and 0/30	70	71 10
MW-03-90	B Zone	11/01/06	1816871 00	6509614 90	143 93	--	144 30	2	Schedule 80 CPVC	75 - 85	0 010	2/16 and 0/30	85	86 20
MW-04-85	A and B Zones	05/14/97	1816867 00	6509692 90	140 42	140 72	140 72	2	Schedule 40 PVC	64 - 84	0 020	No 3	84	84 00
MW-04-75	A Zone	10/31/06	1816866 50	6509692 50	144 86	--	145 30	2	Schedule 80 PVC	75 - 85	0 010	2/16	75	75 15
MW-04-90	B Zone	10/31/06	1816866 10	6509692 70	145 53	--	145.30	2	Schedule 80 PVC	65 - 75	0 010	2/16	85	86 91
MW-05-85	A and B Zones	03/23/01	1816734 27	6509491 42	137 30	137 83	137 78	4	Schedule 80 PVC	70 - 85	0 010	2/16	85	85 50
MW-05-105	C Zone	07/24/03	1816742 55	6509492 93	137 50	137 88	137 88	4	Schedule 80 PVC	95-105	0 010	2/16 and 0/30	105	105 19
MW-05-135	D Zone	04/02/01	1816726 81	6509490 50	137 57	137 78	137 75	4	Schedule 80 PVC	126 - 136	0 010	2/16	136	136 00
MW-06-85	B Zone	03/27/01	1816953 90	6509201 74	138 66	139 08	139 07	4	Schedule 80 PVC	79 - 84	0 010	2/16	84	83 32
MW-07-75	A Zone	03/26/01	1816531 15	6509817.14	137 19	137 55	137 52	4	Schedule 80 PVC	65 - 75	0 010	2/16	75	75 60
MW-07-130	D Zone	04/05/01	1816447 79	6509845 61	136 97	137 30	137 27	4	Schedule 80 PVC	120 - 130	0 010	2/16	130	129 00
MW-08-70	A Zone	03/28/01	1816346 91	6509419 25	136 90	137 09	137 06	2	Schedule 40 PVC	63 - 68	0 010	2/16	68	68 80
MW-08-85	B Zone	03/28/01	1816346 91	6509419 25	136 84	137 09	137.06	2	Schedule 40 PVC	79 - 84	0 010	2/16	84	85 70
MW-09-70	A Zone	03/30/01	1816611 11	6509258 06	137 44	137.85	137 80	2	Schedule 40 PVC	65 - 70	0 010	2/16	70	69 20
MW-09-85	B Zone	03/30/01	1816611 11	6509258 06	137.53	137 85	137 80	2	Schedule 40 PVC	80 - 85	0 010	2/16	85	84 82
MW-10-75	A Zone	04/02/01	1816416 06	6508720 43	138 53	138 83	138 82	2	Schedule 40 PVC	68 - 73	0 010	2/16	73	72 83
MW-10-90	B Zone	04/02/01	1816416 06	6508720 43	138 49	138 83	138 82	2	Schedule 40 PVC	87 - 92	0 010	2/16	92	91 50
MW-10-110	C Zone	04/06/01	1816426 52	6508721 65	138 52	138 89	138 87	4	Schedule 80 PVC	100 - 110	0 010	2/16	110	109 20
MW-10-170	E Zone	04/05/01	1816420 98	6508721 10	138 59	138 84	138 83	4	Schedule 80 PVC	163 - 173	0 010	2/16	173	173 91
MW-11-100	C Zone	03/29/01	1816185 04	6509927 41	136 08	136 52	136 50	4	Schedule 80 PVC	95 - 100	0 010	2/16	100	99.20
MW-12-70	A Zone	04/03/01	1816799 51	6508772 17	138 56	138 82	138 79	2	Schedule 40 PVC	65 - 70	0 010	2/16	70	70 25
MW-12-90	B Zone	04/03/01	1816799 51	6508772.17	138 58	138 82	138 79	2	Schedule 40 PVC	85 - 90	0 010	2/16	90	89 99
MW-12-150	D Zone	04/10/01	1816794 10	6508771 38	138 56	138 80	138 77	4	Schedule 80 PVC	138 - 148	0 010	2/16	148	147 36
MW-13-85	B Zone	04/04/01	1816563 36	6509621 22	137 72	138 17	138 16	4	Schedule 80 PVC	80 - 85	0 010	2/16	85	85 00
MW-14-80	A Zone	11/14/01	1817059 40	6509595 87	146 02	146 33	146.34	2	Schedule 40 PVC	76 - 81	0.010	2/16	81	80 55
MW-14-90	B Zone	11/14/01	1817059 40	6509595.87	145.93	146 33	146 34	2	Schedule 40 PVC	87 - 92	0 010	2/16	92	92 35
MW-15-70	A Zone	11/28/01	1816968 14	6509596 54	142 52	142.97	142 70	2	Schedule 40 PVC	63 - 68	0 010	2/16	68	68 43
MW-15-85	B Zone	11/19/01	1816965 16	6509598 63	141.94	143 06	142 70	2	Schedule 40 PVC	80 - 85	0 010	2/16	85	85 45
MW-16-70	A Zone	11/15/01	1816955 56	6509582 81	140 80	141 27	140 90	2	Schedule 40 PVC	63 - 68	0 010	2/16	68	68 61
MW-16-90	B Zone	11/15/01	1816955 56	6509582 81	140 77	141 27	140 90	2	Schedule 40 PVC	84 - 89	0 010	2/16	89	89.32
MW-17-70	A Zone	11/26/01	1816938 93	6509601.15	141 27	141 80	141 60	2	Schedule 40 PVC	63 - 68	0 010	2/16	68	68 46
MW-17-85	B Zone	11/26/01	1816935 67	6509602 56	141 28	141 76	141 50	2	Schedule 40 PVC	78 - 83	0 010	2/16	83	83 44
MW-17-95	B Zone	11/28/01	1816934 38	6509598 88	140 85	141 38	141 20	2	Schedule 40 PVC	90 - 92 5	0 010	2/16	92 5	93 15
MW-18-70	A Zone	11/16/01	1816939 40	6509578 16	139 49	140 03	139 80	2	Schedule 40 PVC	62 - 67	0 010	2/16	67	66 98
MW-18-85	B Zone	11/16/01	1816939.40	6509578 16	139.29	140 03	139 80	2	Schedule 40 PVC	81 - 86	0 010	2/16	86	85 40
MW-19-70	A Zone	11/27/01	1816925 51	6509569 71	142 70	139 98	139 80	2	Schedule 40 PVC	62 - 67	0 010	2/16	67	69 57
MW-19-90	B_2 Zone	11/27/01	1816925 51	6509569.71	142 20	139 98	139 80	2	Schedule 40 PVC	82 - 87	0 010	2/16	87	88 43
MW-20-70	A Zone	07/31/03	1817059.43	6509264 63	145 48	--	143 80	2	Schedule 40 PVC	63-68	0 010	2/16	68	70 27
MW-20-85	B Zone	07/31/03	1817059 43	6509264 63	145 53	--	143 80	2	Schedule 40 PVC	78-83	0 010	2/16	83	85 28
MW-21-80	A Zone	07/29/03	1817176 06	6509413 88	147 38	--	146 00	2	Schedule 40 PVC	68-78	0 010	2/16	78	80 30
MW-21-90	B Zone	07/29/03	1817176 06	6509413 88	147 44	--	146 00	2	Schedule 40 PVC	85-90	0.010	2/16	90	91 31
MW-22-75	A Zone	07/30/03	1817251.95	6509501.06	149 18	--	148 08	2	Schedule 40 PVC	69-74	0 010	2/16	74	75 27
MW-22-90	B Zone	07/30/03	1817251 95	6509501 06	147 96	--	148 08	2	Schedule 40 PVC	89-94	0.010	2/16	94	94 60
MW-23-110	C Zone	07/18/03	1816937 33	6509425 55	138 13	138 45	138 43	4	Schedule 80 PVC	99-109	0 010	2/16 and 0/30	109	109 51
MW-23-145	D Zone	07/17/03	1816936 68	6509431 04	137 93	138 45	138 33	4	Schedule 80 PVC	135-145	0 010	2/16 and 0/30	145	145.08
MW-24-110	C Zone	08/19/03	1816907 24	6509620 90	140 50	141 14	141 20	4	Schedule 80 PVC	100-110	0 010	2/16 and 0/30	110	109 65
MW-24-140	D Zone	08/18/03	1816908 46	6509606 73	139 90	140 52	140 51	4	Schedule 80 PVC	130-140	0 010	2/16 and 0/30	140	139 88
MW-25-110	C Zone	07/23/03	1816781 50	6509727 83	137 92	138 31	138 30	4	Schedule 80 PVC	102-107	0 010	2/16 and 0/30	107	107 00
MW-25-130	D Zone	07/22/03	1816776 71	6509729 69	138 03	138 31	138 28	4	Schedule 80 PVC	120-130	0 010	2/16 and 0/30	130	130 40
MW-26-75	A Zone	11/03/06	1816979 90	6509631 90	146 29	146 70	--	4	Schedule 80 CPVC	65-75	0 010	2/16 and 0/30	75	74 50
MW-26-90	B Zone	11/03/06	1816983.00	6509640 30	146 47	146 90	--	4	Schedule 80 CPVC	80-90	0 010	2/16 and 0/30	90	90 82
MW-27-70	A Zone	12/11/06	1816941 00	6509566 60	145 10	145 20	--	2	Schedule 80 CPVC	60-70	0 020	2/12 and 0/30	70	63 30
MW-27-90	B Zone	03/07/07	1816943 90	6509570 60	146.27	145 40	--	2	Schedule 80 CPVC	80-90	0 020	2/12 and 0/30	90	81 70
Extraction Wells														
RW-01-70	A Zone	11/22/02	--	--	--	--	--	6	Stainless Steel, V-wrap	55 - 70	0 030	No 3 and 0/30	70	70 00
RW-01-95	B Zone	11/20/01	1816948 78	6509590 56	141 14	141 49	141 20	6	Stainless Steel, V-wrap	80 - 95	0 020	2/12 and 2/16	95	94 55
DA-1	A Zone	09/07/05	1816964 60	6509410.60	140 65	142 10	--	6	Schedule 40 PVC	61-76	0 020	2/12 and 0/30	77	76 08
DB-1	B Zone	09/08/05	1816961 30	6509417 00	140 57	142 10	--	6	Schedule 80 PVC	83-93	0 020	2/12 and 0/30	94	92 20
DA-2	A Zone	09/26/05	1816739 60	6509466 40	138 41	140 10	--	6	Schedule 40 PVC	65-75	0 020	2/12 and 0/30	75	71 85
DB-2	B Zone	09/27/05	1816733 60	6509465 10	138 31	140 10	--	6	Schedule 80 PVC	78-88	0 020	2/12 and 0/30	89	87 82

TABLE 3
Well Construction Data - Exposition 'A' through 'E' Zones
Pemaco Superfund Site, Maywood, California

Well ID	Associated Hydrogeologic Unit	Date Installed	Northing	Easting	Top of Casing Elevation (ft NAVD88)	Vault Cover Elevation (ft NAVD88)	Ground Surface Elevation (ft NAVD88)	Casing Diameter (inches)	Well Material	Screening Interval (feet)	Screen Slot Size (inches)	Filter Pack Sand Size	Constructed Total Depth (feet)	Measured Total Depth (from top of casing)
Extraction Wells														
DA-3	A Zone	09/23/05	1816855 90	6509481 20	138 88	140 40	--	6	Schedule 40 PVC	65-75	0 020	2/12 and 0/30	76	74.90
DB-3	B Zone	09/22/05	1816848 70	6509480 50	138 87	140 40	--	6	Schedule 80 PVC	77-87	0 020	2/12 and 0/30	88	86.00
DA-4	A Zone	09/09/05	1816936 90	6509540 30	140 53	141.90	--	6	Stainless Steel Screen/Low Carbon Steel Riser	56-66	0 020	2/12 and 0/30	67	67 90
DB-4	B Zone	09/12/05	1816928 70	6509543 20	140 58	141 80	--	6	Stainless Steel Screen/Low Carbon Steel Riser	75-85	0 020	2/12 and 0/30	86	84 00
DA-5	A Zone	08/26/05	1816839 00	6509576.70	141 31	142 50	--	6	Schedule 40 PVC	68-78	0 020	2/12 and 0/30	80	79 20
DB-5	B Zone	08/29/05	1816832 80	6509577 70	141.07	142 40	--	6	Schedule 80 PVC	80-90	0 020	2/12 and 0/30	90	92 60
DA-6	A Zone	09/30/05	1816749 10	6509566.10	142 11	143 60	--	6	Schedule 40 PVC	61-71	0 020	2/12 and 0/30	72	70.45
DB-6	B Zone	09/08/05	1816741 90	6509571 90	142 05	143 50	--	6	Schedule 80 PVC	80-90	0 020	2/12 and 0/30	91	90 60
DA-7	A Zone	09/12/05	1817034 20	6509484 70	145 25	146 70	--	6	Stainless Steel Screen/Schedule 40 Riser	61-71	0 020	2/12 and 0/30	72	69 50
DB-7	B Zone	09/13/05	1817027 90	6509487.50	145 28	146 60	--	6	Stainless Steel Screen/Schedule 80 Riser	81-91	0 020	2/12 and 0/30	92	91 10
DA-8	A Zone	09/28/05	1816739 10	6509671 80	140 56	142 00	--	6	Schedule 40 PVC	61-76	0 020	2/12 and 0/30	77	80 60
DB-8	B Zone	09/27/05	1816730 90	6509676 90	140 64	141 90	--	6	Schedule 80 PVC	79 5-94 5	0 020	2/12 and 0/30	95 5	92 75
DA-9	A Zone	09/14/05	1817134 90	6509550 50	148 74	150 20	--	6	Stainless Steel Screen/Schedule 40 Riser	66-76	0 020	2/12 and 0/30	77	79 90
DB-9	B Zone	09/15/05	1817127 20	6509555 00	148 76	150 20	--	6	Stainless Steel Screen/Schedule 80 Riser	84-94	0 020	2/12 and 0/30	95	95 20
DA-10	A Zone	09/14/05	1817029 10	6509604 60	147 38		--	6	Stainless Steel Screen/Low Carbon Steel Riser	66-76	0 020	2/12 and 0/30	77	78 00
DB-10	B Zone	09/16/05	1817022 20	6509606 50	147 29	148 90	--	6	Stainless Steel Screen/Low Carbon Steel Riser	81-91	0 020	2/12 and 0/30	92	93 02
DA-11	A Zone	09/29/05	1816931 60	6509650 40	143 35	145 00	--	6	Stainless Steel Screen/Low Carbon Steel Riser	68-78	0 020	2/12 and 0/30	79	81 60
DB-11	B Zone	09/28/05	1816923 50	6509653 70	143 43	145 00	--	6	Stainless Steel Screen/Low Carbon Steel Riser	82-92	0 020	2/12 and 0/30	93	93 08
DA-12	A Zone	09/30/05	1816825 50	6509692 90	143 62	145 00	--	6	Schedule 40 PVC	65-75	0 020	2/12 and 0/30	76	75 19
DB-12	B Zone	09/29/05	1816818.80	6509696 00	143 63	145 10	--	6	Schedule 80 PVC	79-89	0 020	2/12 and 0/30	90	90 70
DAB-1	A & B Zone	09/19/05	1816637 30	6509070 70	138 25	139 90	--	6	Schedule 80 PVC	70-90	0 020	2/12 and 0/30	91	90 80
DAB-2	A & B Zone	09/19/05	1816623.60	6509174 30	138 49	139 80	--	6	Schedule 80 PVC	70-90	0 020	2/12 and 0/30	91	89 50
DAB-3	A & B Zone	09/21/05	1816610 90	6509289.60	138 38	139 80	--	6	Schedule 80 PVC	68 5-88 5	0 020	2/12 and 0/30	89 5	89 00
DAB-4	A & B Zone	09/21/05	1816597.40	6509399 10	138 17	139.70	--	6	Schedule 80 PVC	66-86	0 020	2/12 and 0/30	87	86 00
DAB-5	A & B Zone	09/22/05	1816582 90	6509517 80	137 96	139 30	--	6	Schedule 80 PVC	69-89	0 020	2/12 and 0/30	90	89 60
DAB-6	A & B Zone	09/23/05	1816568 90	6509631 80	138 41	139 80	--	6	Schedule 80 PVC	67-87	0 020	2/12 and 0/30	88	84.50
DAB-7	A & B Zone	09/26/05	1816555 00	6509747 20	138 36	139 70	--	6	Schedule 80 PVC	64 5-84 5	0 020	2/12 and 0/30	85 5	84 75
DAB-8	A & B Zone	09/16/05	1816987 70	6509301 30	141 50	142 90	--	6	Schedule 80 PVC	65-85	0 020	2/12 and 0/30	86	85 02

Notes:
CPVC - Chlorinated polyvinyl chloride
PVC - Polyvinyl chloride
ft NAVD88 - Feet, North American Vertical Datum of 1988
"--" - Data not available or not surveyed
1 Well Series MW-15 through MW-18 were abandoned in August 2005 to accommodate ERH operation
2 Monitoring well MW-3-85 was abandoned on 10/31/06 because it was completed through both A&B zones
3 Monitoring well MW-4-85 was abandoned on 10/30/06 because it was completed through both A&B zones

TABLE 4
Groundwater Sample Analysis Summary (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Case No.	Delivery Group	Laboratory	Matrix	Analytes	Method	Validation Effort	
						100% Option 1	10% Option 3
February 2007							
36123	Y34Y0	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36123	Y34Z0	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36123	Y35A0	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01 1	EXES	
36123	Y35C0	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36123	Y3506	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01 1	EXES	
36123	Y3529	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36123	Y3560	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	ICF/LDC
36123	Y3580	USEPA CLP Lab - Shealy	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
May 2007							
36408	Y3AT6	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	ICF/LDC
36408	Y3AT7	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36408	Y3AX7	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36408	Y3AY2	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36408	Y3AZ7	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01 1	EXES	
36408	Y3B11	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01 1	EXES	
36408	Y3B30	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36408	Y3B32	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01 1	EXES	
36408	Y3B35	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36408	Y3B62	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
36408	Y3B63	USEPA CLP Lab - A4 Scientific	GW	TCL VOC (hexane, 1,4-dioxane & isopropanol)	SOM01.1	EXES	
N/A	07-05-2074	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	TN&A
N/A	07-06-0303	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-0405	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-0525	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-0658	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-0774	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-0856	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-0992	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-1111	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-06-1251	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
September 2007							
36768	Y3JW3	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES/ □ICF/LDC	
36768	Y3JY3	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES/ □ICF/LDC	
36768	Y3JZ6	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES/ □ICF/LDC	
36768	Y3K16	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES	ICF/LDC
36768	Y3K36	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES	
36768	Y3K54	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES	
36768	Y3K74	USEPA CLP Lab - Mitkem	GW	TCL VOC (hexane & isopropanol)	SOM01.2	EXES	

TABLE 4
Groundwater Sample Analysis Summary (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Case No.	Delivery Group	Laboratory	Matrix	Analytes	Method	Validation Effort	
						100% Option 1	10% Option 3
September 2007							
N/A	07-09-0620	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	TN&A
N/A	07-09-0726	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-09-0871	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-09-0989	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	
N/A	07-09-1114	Calscience	GW	1,4-Dioxane	SW3520B/8270C	TN&A	

Notes:

Calscience - Calscience Environmental Laboratory, Garden Grove, CA
EXES - Electronic Data Exchange and Evaluation System
GW - Groundwater
ICF/LDC - ICF International, Inc and Laboratory Data Consultants, Inc.
NA - Not Applicable
Option 1 - Analytical data review resulting in a brief summary of key analytical issues/deficiencies affecting data quality to the user
Option 3 - Analytical data review resulting in a detailed Data Validation report based on clearly defined and documented project-specific data quality criteria and/or method quality objectives The report identifies significant and noticeable data quality issues/deficiencies and indicates whether the data quality meets the intended use.
QC - Quality Control
TN&A - T N & Associates, Inc
USEPA CLP Lab - Analytical laboratory assigned through US EPA Region IX Contract Laboratory Program (CLP)
VOC - Volatile Organic Compound Analysis (Method SOM01.1/SOM01.2)

Analytical Laboratory Information:

A4 Scientific
1544 Sawdust Road, Suite 505
The Woodlands, TX 77380
Phone. (281) 292-5277

Shealy Environmental Services (Shealy)
106 Vantage Point Drive
West Columbia, SC 29172
Phone: (803) 791-9700

Mitkem Corporation
175 Metro Center Blvd
Warwick, RI 02886
Phone (401) 732-3400

Data Validator Information:

ICF International / Laboratory Data Consultants
Environmental Services Assistance Team, Region 9
1337 South 46th Street, Building 201, Richmond, CA 94804-4698
Phone (510) 412-2300
Fax (510) 412-2304

TABLE 5
Water Level Data (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Perched Zone Groundwater Wells									
B-01	P	2	147.84	35	NA	02/12/07	25.93	150.24	124.31
			150.24 (2006)			05/29/07	26.79	150.24	123.45
						09/04/07	30.21	150.24	120.03
B-03	P	2	146.06	41	NA	02/12/07	22.82	148.42	125.60
			148 42 (2006)			05/29/07	21.95	148.42	126.47
						09/04/07	19.96	148.42	128.46
B-04	P	2	145.92	36	NA	02/12/07	20.79	145.73	124.94
			145.73 (2006)			05/29/07	21.87	145.73	123.86
						09/04/07	20.00	145.73	125.73
B-05	P	2	145.91	36	NA	02/12/07	Dry	147.23	--
			147.23 (2006)			05/29/07	Obstructed	147.23	--
						09/04/07	Obstructed	147 23	--
B-07		2	146.64	28.8	NA	02/12/07	25.83	150.19	124.36
			150.19 (2006)			05/29/07	26 58	150 19	123.61
						09/04/07	25.42	150.19	124.77
B-08	P	2	146.32	30	NA	02/12/07	27 15	149 24	122 09
			149.24 (2006)			05/29/07	28 54	149 24	120 70
						09/04/07	31.19	149 24	118.05
B-10	P	2	145.5	32	NA	02/12/07	29 18	150 67	121.49
			150.67 (2006)			05/30/07	30.45	150 67	120.22
						09/04/07	33.21	150.67	117.46
B-11	P	2	144.57	25	NA	02/12/07	30.48	153.69	123.21
			153.69 (2006)			05/30/07	Dry	153.69	--
						09/04/07	Dry	153.69	--
B-12	P	2	142 36	24	NA	02/12/07	Dry	149.69	--
			149.69 (2006)			05/30/07	Dry	149 69	--
						09/04/07	Dry	149 69	--
B-13	P	2	140.26	30	NA	02/12/07	26.85	150.89	124.04
			150.89 (2006)			05/30/07	31.62	150.89	119.27
						09/04/07	34.20	150 89	116 69
B-15*	P	2	141.05	31.5	NA	02/12/07	23.20	146.34	123.14
			146.34 (2006)			05/30/07	FP	146 34	--
						09/04/07	FP	146.34	--
B-17	P	2	150.3	42.9	33-43	02/12/07	37.27	156 11	118.84
			156 11 (2006)			05/29/07	37.16	156.11	118.95
						09/04/07	44 55	156.11	111 56
B-18	P	2	147.05	28.5	24-29	02/12/07	22.27	148.09	125.82
			148.09 (2006)			05/29/07	22.49	148.09	125.60
						09/04/07	23.26	148.09	124 83
B-19	P	2	143 58	31.65	22-32	02/12/07	20.72	145.68	124.96
			145.68 (2006)			05/29/07	21.35	145.68	124.33
						09/04/07	22.13	145.68	123.55
B-20	P	2	141.4	32.1	22-32	02/12/07	26 33	146.70	120.37
			146.70 (2006)			05/29/07	27 40	146.70	119 30
						09/04/07	29.87	146.70	116.83
B-21	P	2	140.2	27.85	23-28	02/12/07	21.37	141 13	119 76
			141.13 (2006)			05/29/07	22.53	141.13	118 60
						09/04/07	24.41	141.13	116.72
B-22	P	2	138 12	24.5	20-25	02/12/07	20.72	140.11	119.39
			140.11 (2006)			05/29/07	22.54	140 11	117.57
						09/04/07	23.88	140.11	116.23
B-23	P	2	137.73	23.9	19-24	02/12/07	23.17	139.55	116.38
			139.55 (2006)			05/29/07	Dry	139 55	--
						09/04/07	23.96	139.55	115.59
B-24	P	2	138.2	26.95	22-27	02/12/07	No Access	138.20	--
						05/29/07	No Access	138.20	--
						09/04/07	No Access	138 20	--
B-25	P	2	137 84	22.53	18-23	02/12/07	Dry	144.37	--
			144 37 (2006)			05/30/07	Dry	144.37	--
						09/04/07	Dry	144.37	--

TABLE 5
Water Level Data (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Perched Zone Groundwater Wells									
B-26	P	2	139.66	22.78	18-23	02/12/07	28.73	148 20	119.47
			148.20 (2006)			05/30/07	Dry	148.20	--
						09/04/07	29.25	148.20	118.95
B-27	P	2	138.5	25.74	21-26	02/12/07	21 83	140.63	118.80
			140 63 (2006)			05/29/07	24.58	140 63	116.05
						09/04/07	24.02	140.63	116.61
B-28*	P	2	138.67	25.7	21-26	02/12/07	23.32	140 60	117.28
			140 60 (2006)			05/30/07	FP	140.60	--
						09/04/07	20.33*	140.60	120.27
B-29*	P	2	138.85	26.8	22-27	02/12/07	Dry	140.40	--
			140.40 (2006)			05/30/07	Dry	140.40	--
						09/04/07	FP	140.40	--
B-30	P	2	143 6	28	23-28	02/12/07	15 90	141.35	125.45
			141.35 (2006)			05/29/07	16 07	141 35	125.28
						09/04/07	14.65	141.35	126.70
B-31	P	2	140.38	24.72	20-25	02/12/07	16.52	142 85	126.33
			142 85 (2006)			05/29/07	17.26	142.85	125.59
						09/04/07	16.28	142 85	126 57
B-32	P	2	141.45	29.52	20-30	02/12/07	19 50	145.12	125.62
			145.12 (2006)			05/29/07	19 57	145 12	125.55
						09/04/07	17.30	145.12	127 82
B-33	P	2	137.59	25.96	21-26	02/12/07	No Access	137 59	--
						05/29/07	No Access	137.59	--
						09/04/07	No Access	137.59	--
B-34	P	2	137.21	23.68	19-24	02/12/07	No Access	137 21	--
						05/29/07	No Access	137.21	--
						09/04/07	No Access	137.21	--
B-36	P	2	139.78	28	23-28	02/12/07	30.16	149.87	119.71
			149.87 (2006)			05/30/07	31.72	149.87	118.15
						09/04/07	35 21	149.87	114.66
B-37	P	2	153 78	36.11	31-36	02/12/07	30.19	155.54	125.35
			155.54 (2006)			05/30/07	30.83	155.54	124.71
						09/04/07	30.89	155.54	124.65
B-38	P	2	153.33	34.78	29-34	02/12/07	30.08	155.40	125 32
			155.40 (2006)			05/30/07	30.68	155 40	124 72
						09/04/07	20.47	155.40	134.93
B-39	P	2	140.08	28.25	18-28	02/12/07	20.60	145.74	125.14
			145.74 (2006)			05/29/07	20.80	145.74	124.94
						09/04/07	18.29	145.74	127.45
SV-01	P	4	146.1	34	10-35	02/12/07	22 35	148.39	126.04
			148.39 (2006)			05/30/07	22.50	148.39	125.89
						09/04/07	21.10	148.39	127.29
SV-03	P	4	148.27	34 4	15-35	02/12/07	24.72	150.34	125.62
			150.34 (2006)			05/30/07	24.87	150.34	125.47
						09/04/07	25.06	150.34	125 28
SV-04	P	4	146.19	33.4	15-35	02/12/07	Dry	149.54	--
			149.54 (2006)			05/30/07	Dry	149.54	--
						09/04/07	Dry	149.54	--
SV-05	P	4	140 91	29	15-35	02/12/07	25.97	146.18	120.21
			146.18 (2006)			05/30/07	26.65	146.18	119.53
						09/04/07	29.61	146.18	116.57
PA-01	P	4	141 09	30	17-27	02/12/07	Dry	141 09	--
						05/29/07	NM	141.09	--
						09/04/07	NM	141 09	--
PA-02	P	4	NA	35	22-32	02/12/07	No Access	NA	--
						05/29/07	No Access	NA	--
						09/04/07	No Access	NA	--
PA-03	P	4	139.32	35	22-32	02/12/07	21.57	139.32	117 75
						05/29/07	NM	139 32	--
						09/04/07	Dry	139 32	--

TABLE 5
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Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Perched Zone Groundwater Wells									
PA-04	P	4	139.25	30	20-30	02/12/07	21.60	139.25	117 65
						05/29/07	NM	139.25	--
						09/04/07	Dry	139.25	--
PA-05	P	4	139.41	30	20-30	02/12/07	21 59	139.41	117.82
						05/29/07	NM	139.41	--
						09/10/07	28.70	139 41	110.71
PB-01	P	4	142.38	40	26-36	02/12/07	21.02	142 38	121.36
						05/29/07	NM	142 38	--
						09/10/07	34.50	142.38	107 88
PB-02	P	4	145.69	35	22-32	02/12/07	21.11	145.69	124.58
						05/29/07	NM	145.69	--
						09/10/07	37 00	145.69	108 69
PB-03	P	4	143.55	35	22-32	02/12/07	21.02	143.55	122.53
						05/29/07	NM	143.55	--
						09/10/07	24.80	143.55	118.75
PB-04	P	4	144.02	30	16-26	02/12/07	18 24	144 02	125.78
						05/29/07	NM	144 02	--
						09/10/07	24.40	144 02	119.62
PB-05	P	4	144.54	35	24-34	02/12/07	19.09	144 54	125.45
						05/29/07	NM	144.54	--
						09/10/07	25 40	144.54	119.14
PB-06	P	4	NA	35	22-32	02/12/07	No Access	NA	--
						05/29/07	No Access	NA	--
						09/04/07	No Access	NA	--
PB-07	P	4	148.01	35	24-34	02/12/07	22.34	148 01	125.67
						05/29/07	NM	148.01	--
						09/10/07	27.50	148.01	120 51
PC-01	P	4	140.56	25	15-25	02/12/07	Dry	140.56	--
						05/29/07	NM	140.56	--
						09/18/07	Dry	140.56	--
PC-02	P	4	141.99	30	17-27	02/12/07	22.58	141 99	119.41
						05/29/07	NM	141.99	--
						09/18/07	Dry	141.99	--
PC-05	P	4	149.21	40	29-39	02/12/07	28.48	149.21	120.73
						05/29/07	NM	149.21	--
						09/14/07	31 70	149.21	117.51
PC-06	P	4	148.98	40	28-38	02/12/07	25.07	148.98	123.91
						05/29/07	NM	148.98	--
						09/14/07	28.02	148 98	120.96
PD-01	P	4	141.51	30	17-27	02/12/07	Dry	141.51	--
						05/29/07	NM	141.51	--
						09/18/07	27.08	141.51	114.43
PD-04*	P	4	145.59	40	27-37	02/12/07	29 45	145.59	116.14
						05/29/07	NM	145.59	--
						09/10/07	28.00	145.59	117.59
PD-05	P	4	147.6	40	27-37	02/12/07	25.98	147 60	121.62
						05/29/07	NM	147 60	--
						09/10/07	27.00	147.60	120.60
PD-06	P	4	149.48	35	24-34	02/12/07	24.33	149.48	125.15
						05/29/07	NM	149.48	--
						09/04/07	27.78	149.48	121.70
PD-07	P	4	149.37	40	26-36	02/12/07	24.56	149.37	124.81
						05/29/07	NM	149.37	--
						09/10/07	29.00	149.37	120.37
PD-08	P	4	148.96	37	26-36	02/12/07	23.60	148.96	125.36
						05/29/07	NM	148.96	--
						09/10/07	24.40	148.96	124.56
PD-09	P	4	151.75	40	28-38	02/12/07	26.48	151.75	125.27
						05/29/07	NM	151.75	--
						09/10/07	32.00	151.75	119.75

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Water Level Data (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (Inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Exposition Zone Groundwater Wells									
DA-01	A	6	140.65	77	61-76	02/12/07	60.29	140.65	80.36
						05/29/07	NM	140.65	--
						09/04/07	Dry	140.65	--
DA-02	A	6	138.41	83	72-82	02/12/07	58.42	138.41	79.99
						05/29/07	68.72	138.41	69.69
						09/04/07	Dry	138 41	--
DA-03	A	6	138.88	85	74-84	02/12/07	59 02	138 88	79 86
						05/29/07	NM	138.88	--
						09/04/07	NM	138.88	--
DA-04	A	6	140.53	67	56-66	02/12/07	62.12	140.53	78.41
						05/29/07	NM	140.53	--
						09/04/07	Dry	140 53	--
DA-05	A	6	141 31	80	68-78	02/12/07	62.68	141.31	78 63
						05/29/07	NM	141.31	--
						09/18/07	71.20	141.31	70 11
DA-06	A	6	142.11	71	60-70	02/12/07	63 05	142.11	79.06
						05/29/07	NM	142.11	--
						09/18/07	Dry	142.11	--
DA-07	A	6	145.25	72	61-71	02/12/07	65 43	145 25	79.82
						05/29/07	NM	145.25	--
						09/18/07	Dry	145.25	--
DA-08	A	6	140.56	76	65-75	02/12/07	61 68	140.56	78 88
						05/29/07	NM	140.56	--
						09/18/07	69.10	140.56	71.46
DA-09	A	6	148.74	77	66-76	02/12/07	72.38	148.74	76.36
						05/29/07	NM	148.74	--
						09/18/07	Dry	148.74	--
DA-10	A	6	147 38	77	66-76	02/12/07	70 87	147.38	76.51
						05/29/07	NM	147.38	--
						09/18/07	Dry	147.38	--
DA-11	A	6	143.35	76	64-74	02/12/07	66.77	143.35	76 58
						05/29/07	NM	143.35	--
						09/18/07	67.20	143.35	76 15
DA-12	A	6	143 62	77	66-76	02/12/07	64.53	143.62	79.09
						05/29/07	NM	143.62	--
						09/18/07	Dry	143.62	--
DB-01	B	6	140.57	94	83-93	02/12/07	64.61	140.57	75.96
						05/29/07	NM	140.57	--
						09/04/07	NM	140.57	--
DB-02	B	6	138.31	97	86-96	02/12/07	61.14	138.31	77 17
						05/29/07	NM	138.31	--
						09/04/07	NM	138.31	--
DB-03	B	6	138.87	88	77-87	02/12/07	61.75	138.87	77.12
						05/29/07	NM	138.87	--
						09/04/07	NM	138.87	--
DB-04	B	6	140.58	86	75-85	02/12/07	64.36	140.58	76 22
						05/29/07	NM	140.58	--
						09/04/07	NM	140.58	--
DB-05	B	6	141.07	90	80-90	02/12/07	64.52	141.07	76 55
						05/29/07	NM	141 07	--
						09/18/07	NM	141 07	--
DB-06	B	6	142.05	91	80-90	02/12/07	63 94	142 05	78.11
						05/29/07	NM	142.05	--
						09/18/07	NM	142.05	--
DB-07	B	6	145.28	92	81-91	02/12/07	68 80	145 28	76.48
						05/29/07	NM	145.28	--
						09/18/07	NM	145.28	--
DB-08	B	6	140 64	92	81-91	02/12/07	74.55	140.64	66.09
						05/29/07	NM	140.64	--
						09/18/07	93.30	140.64	47.34
DB-09	B	6	148.76	94	84-94	02/12/07	70.03	148.76	78.73
						05/29/07	NM	148.76	--
						09/11/07	79.46	148.76	69.30

TABLE 5
Water Level Data (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (Inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Exposition Zone Groundwater Wells									
DB-10	B	6	147.29	92	81-91	02/12/07	72.54	147.29	74.75
						05/29/07	NM	147.29	--
						09/18/07	Dry	147.29	--
DB-11	B	6	143.43	87	76-86	02/12/07	67 72	143.43	75.71
						05/29/07	NM	143 43	--
						09/18/07	NM	143.43	--
DB-12	B	6	143.63	94.5	83.5-93.5	02/12/07	66.86	143 63	76 77
						05/29/07	NM	143 63	--
						09/18/07	NM	143.63	--
DAB-01	A and B	6	138.25	91	70-90	02/12/07	NM	138 25	--
						05/29/07	NM	138 25	--
						09/18/07	NM	138.25	--
DAB-02	A and B	6	138.49	91	70-90	02/12/07	NM	138.49	--
						05/29/07	NM	138.49	--
						09/18/07	NM	138.49	--
DAB-03	A and B	6	138.38	89.5	68 5-88.5	02/12/07	NM	138.38	--
						05/29/07	NM	138.38	--
						09/18/07	NM	138.38	--
DAB-04	A and B	6	138.17	87	66-86	02/12/07	NM	138.17	--
						05/29/07	NM	138.17	--
						09/18/07	NM	138.17	--
DAB-05	A and B	6	137.96	90	69-89	02/12/07	NM	137.96	--
						05/29/07	NM	137.96	--
						09/18/07	80.40	137.96	57 56
DAB-06	A and B	6	138 41	88	67-87	02/12/07	NM	138 41	--
						05/29/07	NM	138.41	--
						09/18/07	NM	138.41	--
DAB-07	A and B	6	138.36	89	68-88	02/12/07	NM	138.36	--
						05/29/07	NM	138.36	--
						09/18/07	NM	138.36	--
DAB-08	A and B	6	141.5	86	65-85	02/12/07	NM	141 50	--
						05/29/07	NM	141.50	--
						09/18/07	NM	141.50	--
MW-01-80	A and B	2	146.04 148.34 (2006)	79	59-79	02/12/07	69.60	148.34	78.74
						05/29/07	NM	148.34	--
						09/04/07	Dry	148.34	--
MW-02-95	B	2	144.61 145.77 (2006)	94	80-100	02/12/07	69.03	145.77	76.74
						05/29/07	77.95	145.77	67.82
						09/04/07	76.95	145.77	68.82
MW-03-70	A	2	143 78	71.1	60-70	02/12/07	66.71	143.78	77.07
						05/29/07	Dry	143 78	--
						09/04/07	74.31	143.78	69.47
MW-03-90	B	2	143.93	86.2	75-85	02/12/07	67.85	143.93	76.08
						05/29/07	78.51	143.93	65.42
						09/04/07	77.79	143.93	66.14
MW-04-75	A	2	144 86	75	65-75	02/12/07	66.09	144 86	78 77
						05/29/07	78.14	144.86	66.72
						09/04/07	Dry	144.86	--
MW-04-90	B	2	145.53	90	75-85	02/12/07	69 27	145 53	76 26
						05/29/07	78.91	145.53	66.62
						09/04/07	69.47	145.53	76.06
MW-05-85	A and B	4	137.3 139 45 (2006)	85.5	70-85	02/12/07	60.28	139.45	79.17
						05/29/07	NM	139.45	--
						09/04/07	71.98	139.45	67 47
MW-05-105	C	4	139 63	105	95-105	02/12/07	91.23	139.63	48.40
						05/29/07	91.46	139.63	48.17
						09/04/07	92.28	139 63	47 35
MW-05-135	D	4	137 57 139 72 (2006)	136	126-136	02/12/07	101.13	139.72	38 59
						05/29/07	100.90	139.72	38.82
						09/04/07	102.62	139.72	37.10
MW-06-85	B	4	138 66 140 63 (2006)	83.32	79-84	02/12/07	62.64	140.63	77.99
						05/29/07	69.04	140.63	71.59
						09/04/07	70.04	140.63	70.59
MW-07-75	A	4	137.19 139.21 (2006)	75.6	65-75	02/12/07	61.27	139.21	77.94
						05/29/07	67.76	139.21	71.45
						09/04/07	67.45	139.21	71.76

TABLE 5
Water Level Data (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Exposition Zone Groundwater Wells									
MW-07-130	4	D	136.97	129	120-130	02/12/07	100.95	138.99	38 04
			138 99 (2006)			05/29/07	100.77	138.99	38.22
						09/04/07	102.51	138.99	36.48
MW-08-70	A	2	136.9	68.8	63-68	02/12/07	60.30	139.04	78.74
			139 04 (2006)			05/29/07	Dry	139.04	--
						09/04/07	Dry	139.04	--
MW-08-85	B	2	136.84	85.7	79-84	02/12/07	62.63	138.96	76.33
			138 96 (2006)			05/29/07	67.71	138.96	71.25
						09/04/07	69.20	138.96	69.76
MW-09-70	A	2	137.44	69.2	65-70	02/12/07	58.93	139.55	80.62
			139.55 (2006)			05/29/07	Dry	139.55	--
						09/04/07	Dry	139.55	--
MW-09-85	B	2	137 53	84.82	80-85	02/12/07	62.70	139.64	76.94
			139.64 (2006)			05/29/07	72.98	139.64	66 66
						09/04/07	74 24	139.64	65 40
MW-10-75	A	2	138.53	72.83	68-73	02/12/07	62.01	140.59	78.58
			140.59 (2006)			05/29/07	64 21	140 59	76 38
						09/04/07	65 49	140.59	75.10
MW-10-90	B	2	138.49	91.5	87-92	02/12/07	67.35	140.54	73.19
			140.54 (2006)			05/29/07	71.42	140.54	69.12
						09/04/07	72.56	140.54	67.98
MW-10-110	C	2	138.52	109.2	100-110	02/12/07	91.92	140.57	48.65
			140.57 (2006)			05/29/07	92.02	140.57	48.55
						09/04/07	92.41	140.57	48.16
MW-10-170	D	2	138.59	173.91	163-173	02/12/07	103 65	140 65	37.00
			140.65 (2006)			05/29/07	103.68	140.65	36.97
						09/04/07	105.75	140.65	34.90
MW-11-100	C	4	136.08	99 2	95-100	02/12/07	90.74	138.09	47.35
			138.09 (2006)			05/29/07	90.85	138.09	47.24
						09/04/07	91 05	138.09	47.04
MW-12-70	A	2	138.56	70.25	65-70	02/12/07	60.35	140.63	80 28
			140.63 (2006)			05/29/07	62.48	140.63	78.15
						09/04/07	64.26	140.63	76.37
MW-12-90	B	2	138.58	89 99	85-90	02/12/07	65.38	140.61	75.23
			140.61 (2006)			05/29/07	70.06	140.61	70 55
						09/04/07	71.29	140.61	69 32
MW-12-150	D	4	138.56	147.36	138-148	02/12/07	102.74	140.60	37.86
			140.60 (2006)			05/29/07	102 63	140.60	37.97
						09/04/07	104.53	140.60	36.07
MW-13-85	B	4	137.72	85	80-85	02/12/07	61.89	139.48	77.59
			139.48 (2006)			05/29/07	72.51	139.48	66.97
						09/04/07	72 42	139.48	67.06
MW-14-80	A	2	146.02	80.55	76-81	02/12/07	Dry	149.61	--
			149.61 (2006)			05/29/07	Dry	149.61	--
						09/04/07	Dry	149.61	--
MW-14-90	B	2	145.93	92.35	87-92	02/12/07	71.93	149.58	77.65
			149.58 (2006)			05/29/07	74.14	149.58	75.44
						09/04/07	75.49	149 58	74 09
MW-19-70	A	2	139.25	69.57	62-67	02/12/07	68.35	145 29	76 94
			145.29 (2006)			05/29/07	Dry	145 29	--
						09/04/07	73 20	145 29	72 09
MW-19-90	B	2	139 59	88.43	82-87	02/12/07	69.40	144.94	75.54
			144 94 (2006)			05/29/07	79.36	144.94	65.58
						09/04/07	79.45	144.94	65.49
MW-20-70	A	2	141.54	68	60-70	02/12/07	62.23	141.54	79 31
						05/29/07	NM	141 54	--
						09/04/07	Dry	141.54	--
MW-20-85	B	2	141.52	83	78-83	02/12/07	63.24	141.52	78.28
						05/29/07	NM	141.52	--
						09/04/07	68 13	141.52	73.39
MW-21-80	A	2	148.36	78	68-78	02/12/07	68.79	148.36	79 57
						05/29/07	71 21	148.36	77 15
						09/04/07	72.52	148.36	75 84

TABLE 5
Water Level Data (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Well ID	Zone	Well Diameter (inches)	Top of Casing (ft bgs)	Total Depth (ft bgs)	Screen Interval (ft btoc)	Gauging Date	Depth to Water (ft bgs)	Top of Casing Elevation (ft NAVD88)	Groundwater Elevation (ft NAVD88)
Exposition Zone Groundwater Wells									
MW-21-90	B	2	148.38	90	85-90	02/12/07	71 34	148.38	77.04
						05/29/07	76.68	148.38	71.70
						09/04/07	76.83	148.38	71.55
MW-22-75	A	2	151 11	74	69-74	02/12/07	71.43	151.11	79.68
						05/29/07	Dry	151.11	--
						09/04/07	Dry	151.11	--
MW-22-90	B	2	150 94	94	89-94	02/12/07	74.77	150.94	76.17
						05/29/07	80.13	150.94	70.81
						09/04/07	79 84	150 94	71.10
MW-23-110	C	4	140.25	109	99-109	02/12/07	91.43	140.25	48.82
						05/29/07	91.61	140.25	48.64
						09/04/07	92.52	140.25	47 73
MW-23-145	D	4	140.08	145	135-145	02/12/07	101.17	140.08	38.91
						05/29/07	100.90	140 08	39 18
						09/04/07	102.68	140.08	37 40
MW-24-110	C	3	145 57	116.5	100-110	02/12/07	96.70	145.57	48 87
						05/29/07	97.20	145.57	48 37
						09/04/07	98.82	145.57	46 75
MW-24-140	D	3	142 18	142.5	130-140	02/12/07	103.22	142.18	38.96
						05/29/07	103.06	142.18	39 12
						09/04/07	104.77	142.18	37.41
MW-25-110	C	4	147 62	107	102-107	02/12/07	99 48	147.62	48.14
						05/29/07	99.72	147.62	47.90
						09/04/07	100.46	147.62	47.16
MW-25-130	D	4	147.83	130	120-130	02/12/07	108.99	147.83	38.84
						05/29/07	108.80	147.83	39.03
						09/04/07	110 50	147.83	37.33
MW-26-75	A	4	146.29	74.5	65-75	02/12/07	70.38	146.29	75 91
						05/29/07	Dry	146.29	--
						09/04/07	74.13	146.29	72.16
MW-26-90	B	4	146.47	90.82	80-90	02/12/07	71.34	146.47	75.13
						05/29/07	80.69	146.47	65.78
						09/04/07	79.73	146.47	66.74
MW-27-70	A	2	145 1	62.7	60-70	02/12/07	67.83	145 1	77.27
						05/29/07	Dry	145.1	--
						09/04/07	NM	145.1	--
MW-27-90	B	2	146.27	90	80-90	02/12/07	68.99	146.27	77.28
						05/30/07	NM	146 27	--
						09/13/07	76.58	146.27	69.69
RW-01-75	A	6	148.37	76.5	55-70	02/12/07	72.23	148.37	76.14
						05/29/07	Dry	148 37	--
						09/04/07	Dry	148 37	--
RW-01-95	B	6	141.14 146 22 (2006)	94.55	80-95	02/12/07	70.92	146.22	75.30
						05/29/07	80.77	146 22	65 45
						09/04/07	79 80	146.22	66 42

Notes:
A - Exposition 'A' Zone
FP - Free product
NM - Not measured
P - Perched Zone
"--" - Not available
ft bgs - Feet below ground surface
ft btoc - Feet below top of casing
ft NAVD88 - Feet, North Amencan Vertical Datum of 1988
* Free product was present in these wells at the following thicknesses. 2 4 feet in B-15 on 05/30/07; 0.82 feet in B-15 on 09/04/07, 0 11 feet in B-28 on 05/30/07, sheen only in B-28 on 09/04/07, and 1 25 feet in B-29 on 09/07/07 Free product thicknesses are not available for PD-04

TABLE 6
Volatile Organic Compounds (VOCs) in Groundwater
Perched Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	B-01			B-03		B-04		B-07			B-08	B-10			B-13	B-15	B-17		
		Sample Date:	02/20/07	06/13/07	09/11/07	02/19/07	09/18/07	02/19/07	09/18/07	02/19/07	06/14/07	09/11/07	02/19/07	02/22/07	06/14/07	09/06/07	02/22/07	02/21/07	02/20/07	06/13/07	09/12/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																			
1,1,1-Trichloroethane	--	µg/L	**0.81**	**0.28 J**	**0.35 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	µg/L	**3**	**2.1 J**	**0.82**	**0.13 J**	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	**0.11 J**	0.5 U	0.5 U	**0.13 J**	**8.6 J**	**2.7**	**3**	**2.1**
1,1-Dichloroethene	6	µg/L	**1.7**	0.5 U	**0.34 J**	**0.069 J**	0.5 UJ	0.5 U	0.5 UJ	2.5 U	0.5 U	0.5 UJ	5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	**0.83**
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 UJ	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ
1,2-Dibromoethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
2-Butanone	--	µg/L	5 U	5 U	5 U	**510 J**	5 U	**220 J**	5 U	25 U	5 U	5 U	50 UJ	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 UJ
2-Hexanone	--	µg/L	5 U	5 U	5 U	**14 J**	5 U	5 U	5 U	25 U	5 U	5 U	50 UJ	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	5 U	**240 J**	5 U	**220 J**	5 U	25 U	5 U	5 U	50 UJ	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U
Acetone	5,500	µg/L	5 UJ	5 U	5 U	**13000 J**	5 U	**3000 J**	5 U	25 UJ	5 U	5 U	50 UJ	5 UJ	5 U	**13**	1 UJ	50 UJ	5 UJ	5 U	5 UJ
Benzene	1	µg/L	**0.19 J**	**0.23 J**	0.5 U	**0.19 J**	0.5 U	**0.22 J**	0.5 U	**0.89 J**	**0.16 J**	0.5 U	**1.6 J**	**0.38 J**	**0.21 J**	0.5 U	**0.84 J**	**1.6 J**	**0.13 J**	0.5 U	0.5 U
Bromochloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	--	µg/L	0.5 U	0.5 U	0.5 U	**1 J**	0.5 U	**1.2 J**	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.11 UJ	**2.3 J**	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	**0.13 J**	0.5 U	**0.84 J**	0.5 U	**0.29 J**	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	**0.063 J**	5 U	0.5 U	0.5 U	0.5 U
Chloroethane	100	µg/L	0.5 U	0.5 U	0.5 U	**0.25 J**	0.5 U	**0.076 J**	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	**0.17 J**	**1.9 J**	**0.23 J**	0.5 U	0.5 U
Chloroform	80	µg/L	**0.82**	0.5 U	0.25 UJ	0.5 U	0.5 U	0.5 U	0.5 U	2.5 UJ	0.5 U	0.5 U	5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.5 UJ	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	0.5 U	**0.64 J**	**1.4**	**47 J**	**0.72**	**10 J**	**2**	2.5 U	**0.19 J**	0.5 U	5 UJ	**2.3 J**	**1.4 J**	**0.35 J**	**5.9 J**	**5 J**	**0.84**	**1.1**	**0.47 J**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	µg/L	0.68 UJ	0.5 U	0.5 U	**0.097 J**	0.5 U	0.5 U	0.5 U	**4.5**	0.5 U	0.5 U	5 UJ	**0.19 J**	0.5 U	0.5 U	**0.45 J**	5 U	**0.86**	0.5 U	0.5 U
Dibromochloromethane	80	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	300	µg/L	**0.55**	**0.12 J**	0.5 U	**31 J**	**0.29 J**	**3.3 J**	**2.6**	**470 J**	**0.21 J**	0.5 U	**43 J**	**0.093 J**	0.5 U	0.5 U	**13 J**	**110 J**	**0.53**	0.5 U	0.5 U
Isopropanol	--	µg/L	--	--	--	--	25 UJ	--	25 UJ	--	--	--	--	--	--	25 UJ	--	250 U	--	--	--
Isopropylbenzene	--	µg/L	**0.052 J**	0.5 U	0.5 U	**1.8 J**	0.5 U	**0.14 J**	0.5 U	**22**	**0.29 J**	0.5 U	**0.98 J**	0.5 U	0.5 U	0.5 U	**9.6 J**	**39 J**	0.5 U	0.5 U	0.5 U
m,p-Xylene	--	µg/L	**0.69**	0.32 UJ	0.5 U	**120 J**	0.5 U	**11 J**	**0.47 J**	**410 J**	**0.28 J**	0.5 U	5 UJ	0.5 UJ	**0.3 J**	0.5 U	0.5 UJ	**3.5 J**	**0.71**	0.5 U	0.5 U
Methyl Acetate	--	µg/L	0.5 U	0.5 U	0.5 U	**610 J**	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ
Methylcyclohexane	--	µg/L	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**51**	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	**0.29 J**	**27 J**	**0.54**	0.5 U	0.5 U
Methylene chloride	5	µg/L	0.5 U	0.3 UJ	0.5 U	**10 J**	0.5 U	0.5 U	0.5 U	0.5 UJ	0.32 UJ	0.5 U	0.5 UJ	0.5 U	0.31 UJ	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U
N-Hexane	--	µg/L	**13**	1 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	**0.72 J**	0.85 UJ	0.5 U	0.5 U	5 U	**14**	1.6 UJ	0.5 U
o-Xylene	--	µg/L	**0.12 J**	**0.14 J**	0.5 U	**87 J**	0.5 U	**14 J**	**0.27 J**	**120 J**	0.5 U	0.5 U	5 UJ	0.5 UJ	0.5 U	0.5 U	**1.3 J**	5 U	**0.096 J**	0.5 U	0.5 U
Styrene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/L	**18**	**17 J**	**11**	**0.36 J**	0.5 U	0.5 U	0.5 U	**0.51 J**	0.5 U	0.5 U	**0.87 J**	**0.16 J**	0.5 U	0.5 U	**0.13 J**	5 U	**3.2**	**3.8**	**1.9**
Toluene	150	µg/L	0.99 UJ	0.5 U	0.5 U	**14 J**	0.5 U	**2.2 J**	**0.3 J**	0.5 UJ	0.5 U	0.5 U	5 UJ	**0.14 J**	0.5 U	0.5 U	**1 J**	5 U	1.4 UJ	0.5 U	0.5 U
trans-1,2-Dichloroethene	10	µg/L	**0.14 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	**0.43 J**	**0.17 J**	0.5 U	**0.63 J**	5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/L	**5**	**4.5 J**	**1.1**	**0.56 J**	0.5 U	**0.21 J**	**0.48 J**	**0.87 J**	**0.63 J**	0.5 U	**1.4 J**	**3.8 J**	0.5 U	0.5 U	**1.8 J**	**15 J**	**1.4**	**0.89**	**0.78**
Trichlorofluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5	µg/L	0.5 UJ	0.5 U	**0.36 J**	**8 J**	0.5 U	0.59 UJ	**1.2**	2.5 U	0.5 U	0.5 U	5 UJ	1.3 UJ	0.5 U	0.5 U	**9.1 J**	5 U	0.5 U	0.5 U	0.5 U

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
Bolded and highlighted values indicate results exceeding SSRLs
1. Rejected concentrations are not reported in this table

TABLE 6
Volatile Organic Compounds (VOCs) in Groundwater
Perched Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	B-18			B-19			B-20			B-21			B-22		B-27		B-30		
		Sample Date:	02/20/07	06/08/07	09/13/07	02/20/07	06/13/07	09/14/07	02/21/07	06/13/07	09/14/07	02/20/07	06/11/07	09/14/07	02/19/07	06/13/07	02/20/07	09/18/07	02/21/07	06/08/07	09/12/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**SSRLs**	**Units**																			
1,1,1-Trichloroethane	--	µg/L	**0.57**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	**0.12 J**	0.5 U	0.5 U	**0.35 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.1 J**	**3.5 J**	**2.7**	**0.29 J**	**1.8 J**	**9.1**	5 U	5 U	0.5 U	**0.75**	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	0.5 U	**2.7**	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,2-Dibromoethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	**0.06 J**	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	--	µg/L	5 U	**4.1 J**	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 UJ
2-Hexanone	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U
Acetone	5,500	µg/L	5 UJ	**36 J**	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	10 U	10 U	5 UJ	**130**	5 U	5 U	5 UJ
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.5 J**	**1.1 J**	**0.95**	**0.61**	**1.1 J**	**1.2**	5 U	5 U	**8.1**	**1.1**	**0.27 J**	0.5 U	0.5 U
Bromochloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	5 U	5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Carbon disulfide	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.079 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.24 J**	0.5 U	0.5 U	5 U	5 U	**0.13 J**	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	100	µg/L	0.5 U	0.5 U	0.5 U	**0.062 J**	0.5 U	0.5 U	**0.51 J**	0.5 U	0.5 U	**2.1 J**	0.5 U	0.5 U	**2.3 J**	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	80	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.51 UJ
Chloromethane	--	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.6 J**	**1.5 J**	**7.7**	**88**	**170 J**	**320**	**27 J**	**37 J**	**1.6**	**9.1**	**0.56 J**	0.5 U	0.5 U
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	µg/L	**1.6**	0.5 U	0.5 U	**1.6**	0.5 U	0.5 U	**0.94 J**	0.5 U	**0.55**	**1.4**	**1 J**	**1**	**3 J**	5 U	**210**	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	80	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	300	µg/L	**0.64**	0.5 U	0.5 U	**0.68**	**0.13 J**	0.5 U	**0.49 J**	**0.14 J**	**1.5**	**3.4**	0.5 U	0.5 U	5 U	5 U	**7.2**	0.5 U	**0.14 J**	0.5 U	0.5 U
Isopropanol	--	µg/L	--	25 U	--	--	--	--	--	--	--	--	--	--	--	250 UJ	25 UJ	25 UJ	--	25 U	--
Isopropylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.32 J**	0.5 U	0.5 U	**1.3**	0.5 U	0.5 U	5 U	5 U	**0.22 J**	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	--	µg/L	**0.88**	0.5 U	0.5 U	**0.93**	0.37 UJ	0.5 U	**0.61 J**	0.26 UJ	**2.8**	**4**	0.26 UJ	0.5 U	5 U	5 U	**28 J**	0.5 U	**0.18 J**	0.5 U	0.5 U
Methyl Acetate	--	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Methylcyclohexane	--	µg/L	**0.7**	0.5 U	0.5 U	**0.71**	0.5 U	0.5 U	**0.9 J**	**0.16 J**	0.5 U	**18**	0.5 U	0.5 U	5 U	5 U	**4.1**	0.5 U	**0.16 J**	0.5 U	0.5 U
Methylene chloride	5	µg/L	0.5 U	1.9 UJ	0.5 U	0.5 U	0.45 UJ	0.5 U	0.5 U	0.19 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	5 U	5 UJ	0.5 U	0.5 U	0.5 U	2 UJ	0.5 U
N-Hexane	--	µg/L	**21 J**	1.1 UJ	0.5 U	**25**	1.2 UJ	0.5 U	**2.4 J**	1.5 UJ	**0.96**	0.36 UJ	0.5 U	0.5 U	5 U	5 U	**710**	0.5 U	**2 J**	1.2 UJ	0.5 U
o-Xylene	--	µg/L	**0.13 J**	0.5 U	0.5 U	**0.13 J**	**0.12 J**	0.5 U	**0.3 J**	**0.1 J**	**1**	**0.91**	**0.46 J**	0.5 U	5 U	5 U	**7.4**	0.5 U	0.5 U	0.5 U	0.5 U
Styrene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	**0.15 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.1 J**	**2.9**	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/L	**4.3**	0.5 U	**0.57**	**11**	**5.8 J**	**6.2**	**0.57 J**	0.5 U	0.5 U	**0.73**	0.5 U	0.5 U	**2 J**	5 U	**0.38 J**	0.5 U	**0.73 J**	0.5 U	0.5 U
Toluene	150	µg/L	**3.7**	0.5 U	0.5 U	**2.8 J**	**0.33 J**	0.5 U	**0.36 J**	0.5 U	**380**	0.5 UJ	**0.74 J**	**0.71**	5 U	5 U	**1300**	0.5 U	**0.36 J**	0.5 U	0.5 U
trans-1,2-Dichloroethene	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**14 J**	**18 J**	**44**	5 U	5 U	**0.23 J**	**0.68**	**0.11 J**	0.5 U	0.5 U
trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/L	**0.7**	0.5 U	0.5 U	**1.4**	**0.75 J**	**0.5**	**0.73 J**	0.5 U	**1**	**29**	**42 J**	**38**	**91 J**	5 U	**1.8**	**2.7**	**0.45 J**	0.5 U	0.5 U
Trichlorofluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1**	**19 J**	**47 J**	**91**	1.7 UJ	5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied.
- Results were detected below reporting limits;
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
[ ] **Bolded** and highlighted values indicate results exceeding SSRLs
1 Rejected concentrations are not reported in this table

TABLE 6
Volatile Organic Compounds (VOCs) in Groundwater
Perched Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	B-31			B-32			B-36		B-37			B-38			B-39			PA-03	PA-04
		Sample Date:	02/20/07	06/08/07	09/12/07	02/20/07	06/13/07	09/13/07	02/22/07	06/14/07	02/21/07	06/14/07	09/17/07	02/15/07	06/14/07	09/17/07	02/21/07	06/08/07	09/14/07	02/14/07	02/14/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**SSRLs**	**Units**																			
1,1,1-Trichloroethane	--	µg/L	5 U	5 U	0.5 U	0 5 U	0.5 U	0 5 U	5 U	5 U	0.5 U	0 5 U	0.5 U	**0.25 J**	**0.16 J**	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	5 U	0.5 U
1,1,2-Trichloroethane	5	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	5 U	0.5 U
1,1-Dichloroethane	5	µg/L	5 U	5 U	0.5 U	0 5 U	0 5 U	0.5 U	5 U	5 U	**0.84 J**	**0.99 J**	**0.39 J**	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	5 U	0 5 U
1,1-Dichloroethene	6	µg/L	5 U	5 U	0.5 U	0 5 U	0 5 U	0.5 U	**2.4 J**	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	**12 J**	0.5 U
1,2,3-Trichlorobenzene	--	µg/L	5 U	5 U	0 5 UJ	0.5 U	0 5 U	0.5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,2,4-Trichlorobenzene	--	µg/L	5 U	5 U	0 5 U	0 5 U	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	5 U	5 U	0.5 UJ	0 5 U	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,2-Dibromoethane	--	µg/L	5 U	5 U	0 5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	5 U	5 U	0 5 U	0.5 U	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 UJ	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0 5 U	0.5 U	0.5 U	0.5 UJ	5 U	0.5 U
1,2-Dichloropropane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0 5 U	0.5 U	0.5 U	0.5 U	5 U	0 5 U
1,3-Dichlorobenzene	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0 5 U	5 U	0 5 U
1,4-Dichlorobenzene	--	µg/L	5 U	5 U	0.5 U	0 5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	5 U	0.5 U
2-Butanone	--	µg/L	10 U	10 U	5 UJ	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	**4.2 J**
2-Hexanone	--	µg/L	10 U	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U
4-Methyl-2-pentanone	--	µg/L	10 U	10 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U
Acetone	5,500	µg/L	10 U	10 U	5 UJ	5 UJ	5 U	5 U	10 U	10 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	**3.6 J**	5 UJ
Benzene	1	µg/L	5 U	5 U	0.5 U	**0.67**	0 5 U	0.5 U	5 U	5 U	**0.074 J**	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	**0.07 J**	0 5 U	0.5 U	5 U	0.5 U
Bromochloromethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
Bromodichloromethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
Bromoform	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 UJ
Bromomethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	5 U	0.5 U
Carbon disulfide	--	µg/L	5 U	5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	0 5 U
Carbon tetrachloride	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0 5 U	5 U	0.5 U
Chlorobenzene	--	µg/L	5 U	5 U	0.5 U	**0.066 J**	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	0.5 U
Chloroethane	100	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.6 J**	0.5 U
Chloroform	80	µg/L	5 U	5 U	0.5 U	0 5 UJ	0.5 U	0.5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 UJ
Chloromethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	5 U	0.5 U	0 5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	**2.2 J**	**9.1 J**	**0.94**	0.5 U	0.5 U	0 5 U	**11 J**	**12 J**	**0.41 J**	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.7 J**	0.5 U	**0.39 J**	**130 J**	**1.6 J**
cis-1,3-Dichloropropene	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Cyclohexane	--	µg/L	5 U	5 U	**0.97**	**11**	0.5 U	0.5 U	5 U	5 U	**5.3 J**	0.5 U	0.5 U	**0.45 J**	0.5 U	0.5 U	**0.93 J**	0.5 U	0.5 U	**5.6 J**	**6.7 J**
Dibromochloromethane	80	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	0 5 U
Dichlorodifluoromethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0 5 U	5 U	0 5 U
Ethylbenzene	300	µg/L	5 U	5 U	0.5 U	**0.9**	0.5 U	0.5 U	5 U	5 U	**0.34 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.17 J**	0.5 U	0.5 U	5 U	0.5 U
Isopropanol	--	µg/L	250 UJ	250 UJ	--	--	--	--	250 U	250 UJ	--	--	25 UJ	25 UJ	--	--	--	25 U	--	250 UJ	--
Isopropylbenzene	--	µg/L	5 U	5 U	0 5 U	**0.053 J**	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
m,p-Xylene	--	µg/L	5 U	5 U	0 5 U	**2.1**	0.25 UJ	0.5 U	5 U	5 U	**0.24 J**	**0.26 J**	0.5 U	0.5 U	**0.25 J**	0.5 U	**0.24 J**	0.5 U	0.5 U	5 U	0.5 U
Methyl Acetate	--	µg/L	5 U	5 U	0 5 UJ	0.5 U	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
Methylcyclohexane	--	µg/L	5 U	5 U	0.5 U	**0.63**	0.5 U	0.5 U	5 U	5 U	**0.19 J**	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.18 J**	0.5 U	0.5 U	5 U	0 5 U
Methylene chloride	5	µg/L	5 U	17 UJ	0.5 U	0.5 U	0.39 UJ	0.5 U	5 U	5 UJ	0.5 U	0.37 UJ	0.5 U	0.5 U	0.31 UJ	0.5 U	0.5 U	2.2 UJ	0.5 U	5 U	0 5 U
N-Hexane	--	µg/L	5 U	**13 J**	0.5 U	**35**	0 81 UJ	0 5 U	**1 J**	2.7 UJ	**2.7 J**	0.85 UJ	0.5 U	**9.8 J**	0.8 UJ	0.5 U	**2.1 J**	1 2 UJ	0.5 U	5 U	0.5 U
o-Xylene	--	µg/L	5 U	5 U	0 5 U	**0.63**	0.5 U	0.5 U	5 U	5 U	0.5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
Styrene	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0 5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	5 U	5 U	0 5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Tetrachloroethene	5	µg/L	**6.1**	**2.4 J**	**6.2**	**14**	**16 J**	**5.5**	**1.4 J**	**1.5 J**	**2.4 J**	**2 J**	**1.1**	**0.76 J**	**0.78 J**	**0.66**	**1.3 J**	0.5 U	**0.34 J**	**1.6 J**	**0.68 J**
Toluene	150	µg/L	5 U	5 U	0.5 U	**36**	0.5 U	0.5 U	5 U	5 U	**0.75 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.53 J**	0.5 U	0.5 U	5 U	0.5 U
trans-1,2-Dichloroethene	10	µg/L	**1.7 J**	**2 J**	0.5 U	0 5 U	0.5 U	0.5 U	5 U	5 U	0.5 U	0 5 U	0 5 U	0.5 U	0 5 U	0.5 U	**0.26 J**	0.5 U	0.5 U	**30 J**	0.5 U
trans-1,3-Dichloropropene	--	µg/L	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0 5 U	0.5 U	0.5 U	0 5 U	0.5 U	5 U	0.5 U
Trichloroethene	5	µg/L	**5.4**	**3.3 J**	**1.8**	**1.5**	**0.96 J**	**0.38 J**	**250 J**	**230 J**	**3.6 J**	**0.26 J**	0.5 U	**2.7 J**	**0.2 J**	0.26 UJ	**1 J**	0.5 U	0.5 U	**130 J**	**44 J**
Trichlorofluoromethane	--	µg/L	5 U	5 U	0.5 U	0.5 U	0.5 U	0 5 U	5 U	5 U	0.5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	0.5 U
Vinyl chloride	0.5	µg/L	5 U	5 U	0.5 U	0.5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	0.5 U	0.5 U	0.5 U	0.5 U	0 5 U	0.5 U	**20 J**	0.5 U

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits;
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
Bolded and highlighted values indicate results exceeding SSRLs
1 Rejected concentrations are not reported in this table

TABLE 6
Volatile Organic Compounds (VOCs) in Groundwater
Perched Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	PA-05			PB-01			PB-02			PB-03			PB-04			PB-05		
		Sample Date:	02/14/07	06/12/07	09/18/07	02/15/07	06/11/07	09/12/07	02/15/07	06/11/07	09/12/07	02/16/07	06/12/07	09/12/07	02/19/07	06/12/07	09/17/07	02/16/07	06/11/07	09/14/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**SSRLs**	**Units**																		
1,1,1-Trichloroethane	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	µg/L	**0.59 J**	**0.93 J**	20 U	5 U	**0.48 J**	**0.29 J**	5 U	0.5 U	**0.27 J**	0.5 U	**0.53 J**	**1.9**	0.5 UJ	0.5 U	0.5 U	**0.058 J**	**1.2 J**	**0.28 J**
1,1-Dichloroethene	6	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.8 J**	0.5 UJ	0.5 U	0.5 U	0.5 U	**2.3 J**	0.5 U
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	--	µg/L	**1.5 J**	5 U	200 U	**200 J**	**1.6 J**	5 UJ	10 U	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U
2-Hexanone	--	µg/L	5 U	5 U	200 U	10 U	5 U	5 UJ	10 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	200 U	10 U	5 U	5 UJ	10 U	**3.8 J**	5 U	5 U	5 U	5 U	5 UJ	5 U	**5.3**	5 U	5 U	5 U
Acetone	5,500	µg/L	5 UJ	5 U	200 U	**72 J**	5 U	5 UJ	10 U	**90 J**	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	**770**	5 UJ	5 U	5 U
Benzene	1	µg/L	**1.5 J**	0.5 U	20 U	**14 J**	**5.1 J**	0.5 UJ	5 U	0.5 U	0.5 U	**0.3 J**	**110 J**	**110**	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.31 J**	0.5 U
Bromochloromethane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
Carbon disulfide	--	µg/L	0.054 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	100	µg/L	**1.6 J**	0.5 U	20 U	**20 J**	**7.7 J**	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	80	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.7 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	**1.1 J**	**5.1 J**	20 U	**3.1 J**	**0.92 J**	0.5 U	5 U	**2.7 J**	**1.7**	**0.71 J**	**21 J**	**68**	0.5 UJ	0.5 U	0.5 U	**0.23 J**	**20 J**	**2.6**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	µg/L	0.5 U	0.5 U	**19 J**	**13 J**	**1.6 J**	0.5 UJ	5 UJ	0.5 U	0.5 U	0.5 U	**9.1 J**	**110**	0.5 UJ	**14 J**	**56**	**0.43 J**	**6.8 J**	0.5 U
Dibromochloromethane	80	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	300	µg/L	0.5 U	**0.11 J**	20 U	5 U	0.5 U	0.5 UJ	5 U	**0.6 J**	**0.39 J**	0.5 U	0.5 U	**0.58**	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.43 J**	0.5 U
Isopropanol	--	µg/L	25 UJ	--	--	250 UJ	--	--	250 UJ	--	--	25 UJ	--	--	--	--	--	25 UJ	--	--
Isopropylbenzene	--	µg/L	0.5 U	0.5 U	20 U	**4.6 J**	**1.7 J**	0.5 UJ	5 U	0.5 U	**0.26 J**	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	--	µg/L	0.5 U	**0.31 J**	**9.4 J**	5 U	**4.8 J**	0.5 UJ	5 U	**1.1 J**	**1.2**	0.5 U	0.5 U	**4**	0.5 UJ	0.5 U	**0.39 J**	0.5 U	**1.8 J**	**0.21 J**
Methyl Acetate	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	**3.2 J**	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	--	µg/L	0.5 U	0.5 U	20 U	5 U	**1.7 J**	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	**0.48 J**	0.5 U	0.5 U	0.5 U
Methylene chloride	5	µg/L	0.5 UJ	**3 J**	20 U	5 U	0.5 UJ	0.5 U	5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	**2.6 J**	0.5 U
N-Hexane	--	µg/L	0.5 U	**0.83 J**	**35**	5 U	0.5 U	0.5 U	5 U	**0.69 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	**0.18 J**	**25 J**	0.5 U
o-Xylene	--	µg/L	0.5 U	**0.13 J**	20 U	5 U	0.5 U	0.5 UJ	5 U	**1 J**	**1.1**	0.5 U	**0.31 J**	**1.1**	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.4 J**	0.5 U
Styrene	--	µg/L	0.5 U	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/L	**0.18 J**	**0.21 J**	20 U	5 U	0.5 U	0.5 UJ	**1 J**	**1.1 J**	**0.96**	**11 J**	**4.1 J**	**15**	**1.5 J**	**3.3 J**	**3.3**	**11 J**	**3.9 J**	**1.1**
Toluene	150	µg/L	0.5 U	0.5 U	**340**	5 U	**0.15 J**	0.5 UJ	5 U	**0.36 J**	0.5 U	0.5 U	**0.11 J**	**3.3**	0.5 UJ	0.5 U	0.5 U	0.5 U	**1.6 J**	0.5 U
trans-1,2-Dichloroethene	10	µg/L	**0.25 J**	**0.38 J**	20 U	**2.1 J**	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	**0.92 J**	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
Trichloroethene	5	µg/L	**4.2 J**	**11 J**	20 U	**13 J**	**1.5 J**	0.5 UJ	**7.1 J**	**0.96 J**	**0.47 J**	**2.1 J**	**39 J**	**61**	0.5 UJ	**0.24 J**	0.39 UJ	**2.5 J**	**16 J**	**0.59**
Trichlorofluoromethane	--	µg/L	0.5 UJ	0.5 U	20 U	5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5	µg/L	0.5 U	0.5 U	20 U	2.4 UJ	0.5 U	0.5 U	5 U	0.5 U	**1**	0.5 U	0.5 U	**4.7**	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied:
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
Bolded and highlighted values indicate results exceeding SSRLs
1. Rejected concentrations are not reported in this table.

TABLE 6
Volatile Organic Compounds (VOCs) in Groundwater
Perched Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	PB-07			PC-02	PC-05			PC-06			PD-04	PD-05			PD-06		
		Sample Date:	02/16/07	06/11/07	09/17/07	02/21/07	02/19/07	06/11/07	09/14/07	02/19/07	06/12/07	09/14/07	02/19/07	02/19/07	06/11/07	09/11/07	02/16/07	06/12/07	09/11/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**SSRLs**	**Units**																	
1,1,1-Trichloroethane	--	µg/L	**0.48 J**	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	**1.9 J**	**1.8 J**	**0.44 J**	--	0.5 U	0.5 U	0.5 U	**11 J**	**3.9 J**	**2.2**
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	µg/L	0.5 U	**0.5 J**	**0.77**	5 U	**0.31 J**	**1.2 J**	**0.31 J**	**7.8 J**	**7.1 J**	**1.4**	--	**0.82 J**	**2.5 J**	**1.1**	**6.2 J**	**4.3 J**	**5.7**
1,1-Dichloroethene	6	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	**7.4 J**	**7.7 J**	**0.96 J**	250 UJ	**0.095 J**	13 U	0.5 U	**6.6 J**	**5.9 J**	**4.3**
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 UJ	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	--	µg/L	5 U	5 U	5 U	**150 J**	5 U	5 U	5 U	5 U	5 U	5 U	--	**78 J**	5 U	**75**	5 U	5 U	5 UJ
2-Hexanone	--	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	--	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	2500 U	**48 J**	**13 J**	**69**	5 U	5 U	5 U
Acetone	5,500	µg/L	5 UJ	**5.4 J**	5 U	**75 J**	5 U	5 U	5 U	5 U	5 U	5 U	**430 J**	**1200 J**	**550 J**	5 U	5 U	**66 J**	5 UJ
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	5 U	**0.32 J**	**0.91 J**	0.5 U	**0.21 J**	**0.17 J**	0.5 U	--	**3.3 J**	**18 J**	**1.3**	**0.13 J**	**0.16 J**	**0.3 J**
Bromochloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	µg/L	0.5 UJ	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	--	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U
Carbon disulfide	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	**0.19 J**	0.5 U	**1.4**	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	**2.4 J**	**2.3 J**	**0.76**	0.5 U	0.5 U	0.5 U
Chloroethane	100	µg/L	0.5 U	0.5 U	0.5 U	5 U	**0.085 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	250 U	**0.39 J**	0.5 U	0.5 U	**0.17 J**	0.5 U	0.5 U
Chloroform	80	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	**4.5 J**	**6.3 J**	**1**	--	0.5 U	0.5 U	0.5 U	**18 J**	**4 J**	1.9 UJ
Chloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	250 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	**0.37 J**	0.21 UJ	**0.26 J**	**0.78 J**	**14 J**	**71 J**	**3.3**	**1.1 J**	**1.6 J**	**0.42 J**	--	0.5 U	**200 J**	**0.66**	**2.5 J**	**1.9 J**	**15**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	µg/L	**0.39 J**	0.5 U	0.5 U	**2.1 J**	**1.1 J**	**0.7 J**	0.5 U	0.5 U	0.5 U	0.5 U	250 U	**0.065 J**	**2.4 J**	0.5 U	**0.46 J**	0.5 U	**0.29 J**
Dibromochloromethane	80	µg/L	0.5 UJ	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	300	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	**0.16 J**	0.5 U	0.5 U	**0.13 J**	0.5 U	**1100**	**13 J**	**12 J**	**1.7**	0.5 U	0.5 U	0.5 U
Isopropanol	--	µg/L	25 UJ	--	--	--	25 U	--	--	25 U	--	25 UJ	--	--	**1300 J**	--	--	--	--
Isopropylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	**0.92 J**	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.51 UJ	0.5 U	**0.1 J**	**0.44 J**	0.5 U	**910 J**	**29 J**	**14 J**	**6.5**	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	**4.6 J**	**4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**100 N**	**0.2 J**	**0.18 J**	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5	µg/L	0.5 U	**1.5 J**	0.5 U	5 U	0.5 U	**0.54 J**	0.5 U	0.5 U	0.5 UJ	0.5 U	--	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U
N-Hexane	--	µg/L	**0.58 J**	**0.94 J**	0.5 U	5 UJ	0.5 U	**5 J**	0.5 U	0.5 U	**2.2 J**	0.5 U	--	0.5 U	**7.2 J**	0.5 U	**0.63 J**	0.5 U	0.5 U
o-Xylene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.15 J**	0.5 U	--	**16 J**	**15 J**	**6.6**	0.5 U	0.5 U	0.5 U
Styrene	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	**2.9 J**	0.5 U	**2.6**	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/L	**6.5 J**	**3 J**	**2.3**	**0.97 J**	**0.15 J**	**0.22 J**	0.5 U	**48 J**	**61 J**	**7.6**	--	0.5 U	**3.8 J**	0.5 U	**100 J**	**77 J**	**21**
Toluene	150	µg/L	0.5 U	0.5 U	0.5 U	5 U	**0.065 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	**4 J**	**14 J**	**2.3**	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	10	µg/L	0.5 U	0.5 U	0.5 U	5 U	**1.2 J**	**2 J**	0.5 U	**0.22 J**	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	--	µg/L	0.5 UJ	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/L	**1.9 J**	**0.2 J**	0.33 UJ	**51 J**	**3.1 J**	**23 J**	**2.3**	**7.4 J**	**6.5 J**	**1.3**	--	0.5 U	**9 J**	0.5 U	**7.1 J**	**4.1 J**	**3.2**
Trichlorofluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5	µg/L	0.5 U	0.5 U	0.5 U	5 U	**6.2 J**	**3.9 J**	0.5 U	1.4 UJ	0.5 U	0.5 U	--	**2.3 J**	**26 J**	**1.5**	0.5 U	0.5 U	0.5 U

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis.

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
[ ] **Bolded** and highlighted values indicate results exceeding SSRLs
1. Rejected concentrations are not reported in this table

TABLE 6
Volatile Organic Compounds (VOCs) In Groundwater
Perched Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	PD-07			PD-08			PD-09			SV-01			SV-03			SV-05		
		Sample Date:	02/16/07	06/12/07	09/19/07	02/21/07	06/12/07	09/17/07	02/16/07	06/12/07	09/19/07	02/19/07	06/15/07	09/11/07	02/16/07	06/15/07	09/19/07	02/20/07	06/15/07	09/14/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**SSRLs**	**Units**																		
1,1,1-Trichloroethane	--	µg/L	**2.5 J**	**1.8 J**	**0.64**	**6 J**	**1.9 J**	0.5 U	**0.33 J**	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	**3.2 J**	**1.3 J**	**2.5**	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	5	µg/L	0.5 U	0.5 U	0.5 U	**1.8 J**	**0.28 J**	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	5	µg/L	**1.9 J**	**2.7 J**	**6**	**11 J**	**7.6 J**	0.5 U	**4.3 J**	**3.5 J**	**4.4 J**	**0.079 J**	0.5 U	0.5 U	**1.4 J**	**1.5 J**	**6.8**	**5.1 J**	**5.7 J**	**3.6**
1,1-Dichloroethene	6	µg/L	**1.6 J**	**1.5 J**	**8.6**	**14 J**	**40 J**	**0.25 J**	0.5 U	0.5 U	**2.9 J**	**0.065 J**	0.5 U	0.5 UJ	**0.52 J**	0.5 U	**0.63**	0.5 U	0.5 U	0.5 U
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 U	0.5 U	0.5 U	**0.83 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2-Butanone	--	µg/L	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	**82 J**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	--	µg/L	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	--	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	5 U	25 U	5 U	5 U	5 U	5 U	--	**120 J**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	5,500	µg/L	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	**13 J**	5 U	**580 J**	5 U	5 U	5 U	5 U	5 U	2.7 UJ	**8.6 J**	5 U
Benzene	1	µg/L	0.5 U	**0.11 J**	0.5 U	**0.34 J**	**2.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.11 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.1 J**	**3.5 J**	0.5 U
Bromochloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	**1.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	µg/L	0.5 UJ	0.5 U	0.5 U	2.5 U	0.5 U	**2.1**	0.5 UJ	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
Carbon disulfide	--	µg/L	0.5 U	0.5 U	0.5 U	0.068 UJ	0.5 U	0.5 U	0.5 U	0.5 U	1.3 UJ	**0.82 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.063 J**	0.5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.24 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	100	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	**0.27 J**	0.5 U	0.5 U	**0.22 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.54**	**0.32 J**	**0.56 J**	0.5 U
Chloroform	80	µg/L	**1.4 J**	**0.81 J**	0.2 UJ	**13 J**	**7 J**	**4.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	µg/L	0.5 UJ	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	**1.7 J**	**9.4 J**	**16 J**	**40 J**	**21 J**	**1.4**	**2.8 J**	**4.3 J**	**2.8**	**7.3 J**	**1.9 J**	**0.56**	**3.3 J**	**8.9 J**	**13**	**6 J**	**4.9 J**	**0.29 J**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	µg/L	**0.27 J**	**0.29 J**	0.5 U	**1.2 J**	**2.1 J**	0.5 U	**0.21 J**	**0.62 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**0.86 J**	**0.91 J**	0.5 U
Dibromochloromethane	80	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	**2.2**	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	300	µg/L	0.5 U	0.5 U	0.5 U	**0.47 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**5.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.38 J**	**5.6 J**	0.5 U
Isopropanol	--	µg/L	--	--	--	--	--	25 UJ	25 UJ	--	25 UJ	--	--	--	--	--	--	--	--	--
Isopropylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	**0.34 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.31 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.91 J**	**2 J**	0.5 U
m,p-Xylene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**14 J**	**0.31 J**	0.5 U	0.5 U	**0.26 J**	0.5 U	**0.089 J**	**0.37 J**	0.5 U
Methyl Acetate	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**22 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	--	µg/L	0.5 U	**0.15 J**	0.5 U	**0.93 J**	**1.1 J**	0.5 U	0.5 U	**0.16 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.85 J**	**3.5 J**	0.5 U
Methylene chloride	5	µg/L	0.5 U	0.5 UJ	0.5 U	0.32 UJ	0.5 UJ	0.5 U	0.5 U	**1.4 J**	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	**1.9**	0.5 U	0.5 U	**1.2 J**	0.5 U
N-Hexane	--	µg/L	**0.4 J**	**1.7 J**	0.5 U	2.5 U	**2 J**	0.5 U	0.5 U	**2.5 J**	0.5 U	0.5 U	0.81 UJ	0.5 U	**0.34 J**	0.81 UJ	0.5 U	0.5 U	1.2 UJ	0.5 U
o-Xylene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**12 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.29 J**	**1.1 J**	0.5 U
Styrene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/L	**34 J**	**25 J**	**9.7**	**58 J**	**57 J**	**0.36 J**	**8.1 J**	**3.3 J**	**0.68**	**0.16 J**	0.5 U	**0.5 J**	**21 J**	**21**	**12**	**0.14 J**	0.5 U	0.5 U
Toluene	150	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.3 J**	**0.36 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.42 J**	**0.46 J**	0.5 U
trans-1,2-Dichloroethene	10	µg/L	0.5 U	**0.14 J**	0.5 U	**0.13 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.4 J**	**0.76 J**	0.5 U
trans-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/L	**5.2 J**	**4.8 J**	**2.4**	**15 J**	**6 J**	**6.2**	**0.74 J**	**0.79 J**	**0.9**	**0.41 J**	**0.3 J**	**0.26 J**	**3 J**	**1.8 J**	**1.4**	**3.1 J**	**0.44 J**	0.5 U
Trichlorofluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl chloride	0.5	µg/L	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	**1.9 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.44 J**	**4.7 J**	**3.2 J**	0.5 U

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample;
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
[ ] **Bolded** and highlighted values indicate results exceeding SSRLs
1. Rejected concentrations are not reported in this table

TABLE 7
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'A' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	DA-01			DA-02			DA-03			DA-04	DA-05							DA-06			DA-07		DA-08		
		Sample Date:	02/15/07	06/07/07	09/17/07	02/14/07	05/29/07	09/14/07	02/14/07	05/29/07	09/17/07	02/15/07	02/20/07	04/18/07	05/02/07	05/10/07	05/23/07	06/06/07	09/18/07	02/20/07	06/05/07	09/18/07	02/15/07	06/07/07	02/20/07	06/06/07	09/18/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																									
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2,2-Tetrachloroethane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	10 U	200 U	200 U	200 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1,2-Trichloroethane	--	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,1-Dichloroethane	--	µg/L	**41 J**	**3 2 J**	**3 1 J**	**0 078 J**	0 5 U	**0.64 J**	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	**0.29 J**	**2.1 J**	5 U	**4 3 J**	**11 J**	**3.7 J**	**0.69 J**	5 U
1,1-Dichloroethene	6	µg/L	**19 J**	5 U	5 U	0 5 U	0 5 U	0 5 U	**8.6 J**	50 U	**6 3**	**19 J**	**9.1 J**	**2 8**	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	**4.2 J**	5 U	5 U	5 U	5 U
1,1-Dichloropropene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	--	µg/L	5 U	5 UJ	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 UJ	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,3-Trichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	5 U	100 U	100 U	100 U	--	--	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	µg/L	5 U	5 UJ	5 U	0 5 U	0 5 U	0 5 UJ	25 U	50 U	0.5 UJ	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2,4-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	0 2	µg/L	5 U	5 U	5 U	0 5 U	0 5 UJ	0 5 U	25 U	50 U	0.5 U	25 U	25 U	5 U	100 U	100 U	100 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dibromoethane	--	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0.5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	0 5	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	0 5 U	10 U	10 U	10 U	5 U	5 U	0.5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0.5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3,5-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0.5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,3-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
2,2-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
2-Butanone	--	µg/L	10 U	10 U	10 U	5 U	5 U	5 U	50 U	100 U	5 U	50 U	50 U	10 U	200 U	200 U	200 U	10 U	10 U	**9.3**	5 U	10 U	10 U	10 U	**5 6 J**	10 U	10 U
2-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
2-Hexanone	--	µg/L	10 U	10 U	10 U	5 U	5 U	5 U	50 U	100 U	5 U	50 U	50 U	10 U	200 U	200 U	200 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	--	µg/L	10 U	10 U	10 U	5 U	5 U	5 U	50 U	100 U	5 U	50 U	50 U	10 U	200 U	200 U	200 U	10 U	10 U	5 U	5 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	5,500	µg/L	10 U	10 U	10 U	5 UJ	5 UJ	5 U	50 U	100 U	5 U	50 U	50 U	50 U	1000 U	1000 U	1000 U	10 U	10 U	12 UJ	5 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	µg/L	5 U	**5.2 J**	5 U	**0 082 J**	0 5 U	**0.24 J**	**19 J**	**36 J**	**38 J**	25 U	25 U	**0.52**	10 U	10 U	10 U	5 U	5 U	**0.14 J**	**0.38 J**	5 U	5 U	**3.5 J**	5 U	5 U	5 U
Bromobenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
Bromochloromethane	--	µg/L	5 U	5 U	5 U	0.5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromodichloromethane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromoform	--	µg/L	5 U	5 U	5 U	0 5 UJ	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Bromomethane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 UJ	0.5 U	25 U	50 U	0 5 U	25 U	25 U	10 U	200 U	200 U	200 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	10 U	200 U	200 U	200 U	5 U	5 U	0.5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	0 5 U	10 U	10 U	10 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	--	µg/L	5 U	5 U	5 U	0.5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	**0.16 J**	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroethane	--	µg/L	5 U	5 U	5 U	0.5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	**0.76 J**	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	µg/L	5 U	5 U	5 U	**2.2 J**	**14**	**140 J**	25 UJ	50 U	**2.2 J**	**3 J**	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 58 UJ	**120**	**110**	**1 2 J**	5 U	**4**	**3 2 J**	5 U
Chloromethane	--	µg/L	5 U	5 U	5 U	0.5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	10 U	200 U	200 U	200 U	5 U	5 U	0 5 UJ	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
cis-1,2-Dichloroethene	6	µg/L	**390 J**	**11 J**	**6.7 J**	**8.4 J**	**5.5**	**16**	**440 J**	**360 J**	**810**	**190 J**	**63**	**50**	**73**	**76**	**77.**	**82**	**190 J**	**17 J**	**33 J**	**33 J**	**12 J**	**60 J**	**97**	**12 J**	5 U
cis-1,3-Dichloropropene	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	0 5 U	10 U	10 U	10 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	--	µg/L	5 U	**17 J**	**2.5 J**	0.5 U	0 5 U	0 5 U	**300 J**	**160 J**	**180 J**	**240 J**	**170**	--	--	--	--	**77**	5 U	**1 6**	**0 13 J**	5 U	**67 J**	**31 J**	**25**	**1 7 J**	5 U
Dibromochloromethane	80	µg/L	5 U	5 U	5 U	0 5 UJ	0 5 U	0.5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0.5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Dibromomethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Ethylbenzene	--	µg/L	**8.8 J**	**8 9 J**	5 U	0.5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	**5 1 J**	5 U	5 U	5 U
Isopropanol	--	µg/L	250 UJ	250 UJ	250 UJ	25 UJ	--	--	--	2500 UJ	--	1300 UJ	1300 UJ	--	--	--	--	--	250 UJ	--	--	250 UJ	250 UJ	250 UJ	250 UJ	250 UJ	250 UJ
Isopropylbenzene	--	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
m,p-Xylene	--	µg/L	**7.2 J**	**27 J**	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	**0.29 J**	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0.5 U	0 5 U	5 U	5 U	**16 J**	5 U	5 U	5 U
Methyl Acetate	--	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	25 U	50 U	0.5 U	25 U	25 U	--	--	--	--	5 U	5 U	0.5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--	µg/L	5 U	5 U	5 U	0 5 U	0 5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	--	--	--	--	5 U	5 U	0.5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylene chloride	5	µg/L	5 U	5 UJ	5 U	0 5 U	0.89 UJ	**0 78**	25 U	50 UJ	0 5 U	25 U	25 U	10 U	200 U	200 U	200 U	**14**	5 U	0 5 UJ	3 3 UJ	5 U	5 U	5 UJ	5 U	5 UJ	5 U
Naphthalene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	10 U	200 U	200 U	200 U	--	--	--	--	--	--	--	--	--	--
N-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
N-Hexane	--	µg/L	5 U	5 U	5 U	0 5 U	2 7 UJ	0 5 U	25 U	50 U	0 5 U	25 U	25 U	--	--	--	--	5 U	5 U	0 5 U	**0.46 J**	5 U	5 U	5 U	5 U	5 U	5 U
N-Propylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
o-Xylene	--	µg/L	5 U	**6.7 J**	5 U	0 5 U	0 5 UJ	0 5 U	25 U	50 U	0.5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0.5 U	0.5 U	5 U	5 U	**4.3 J**	5 U	5 U	5 U
p-Isopropyltoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
Sec-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
Styrene	--	µg/L	5 U	5 U	5 U	0 5 U	0.5 UJ	0 5 U	25 U	50 U	0.5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
T-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	1 U	20 U	20 U	20 U	--	--	--	--	--	--	--	--	--	--
Tert-Butyl Methyl Ether	13	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0.5 U	25 U	50 U	0 5 U	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 U	0.5 U	5 U	5 U	5 U	5 U	5 U	5 U
Tetrachloroethene	5	µg/L	**1 3 J**	5 U	5 U	**0 2 J**	0.5 U	**0.57**	**8.8 J**	**7.6 J**	**9.2**	**6.2 J**	**8 J**	**2.2**	20 U	20 U	20 U	**5 4**	**4.3 J**	**1.4**	**1.7 J**	5 U	**0.51 J**	**1.1 J**	**3.2 J**	**1.2 J**	5 U
Toluene	--	µg/L	**5 4 J**	5 U	5 U	0 5 U	0.5 U	0 5 U	25 U	50 U	**0.83**	25 U	25 U	1 U	20 U	20 U	20 U	5 U	5 U	0 5 UJ	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,2-Dichloroethene	10	µg/L	**22 J**	5 U	5 U	0 5 U	0.5 U	**0.31 J**	25 U	50 U	**24 J**	25 U	25 U	**3**	20 U	20 U	20 U	5 U	**3.4 J**	**0.2 J**	**0.69 J**	5 U	5 U	5 U	5 U	5 U	5 U
trans-1,3-Dichloropropene	--	µg/L	5 U	5 U	5 U	0 5 UJ	0.5 U	0 5 U	25 U	50 U	0 5 U	25 U	25 U	0.5 U	10 U	10 U	10 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	µg/L	**280 J**	**21 J**	**9.2**	**20 J**	**23**	**170**	**5000 J**	**4300 J**	**7200 J**	**5600 J**	**3000**	**1800**	**2600**	**2600**	**2800**	**3100 J**	**1800**	**48**	**150**	**190**	**510 J**	**450 J**	**320**	**150 J**	**13**
Trichlorofluoromethane	--	µg/L	5 U	5 U	5 U	0 5 U	0.5 U	0 5 U	25 U	50 U	0.5 U	25 U	25 U	10 U	200 U	200 U	200 U	5 U	5 U	0 5 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Vinyl acetate	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	10 U	200 U	200 U	200 U	--	--	--	--	--	--	--	--	--	--
Vinyl chloride	0 5	µg/L	**40 J**	5 U	5 U	0 2 UJ	0 5 UJ	0.5 U	2 9 UJ	50 U	**7**	**21 J**	25 U	**0.75**	10 U	10 U	10 U	5 U	5 U	0 5 U	0 5 U	5 U	1 6 UJ	5 U	0.93 UJ	5 U	5 U

Notes.

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied

- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

Bolded and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

2 In addition to the querterly sampling events, samples were collected from the following wells for the biopilot study DA-04, DA-05, MW-03-70, and MW-19-70

TABLE 7
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'A' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	DA-09	DA-10	DA-11		DA-12	MW-03-70		MW-04-75	MW-07-75			MW-08-70	MW-09-70	MW-10-75			MW-12-70		MW-19-70		MW-20-70	MW-21-80			MW-22-75	MW-26-75
		Sample Date:	02/19/07	02/23/07	02/22/07	09/18/07	02/21/07	02/22/07	04/10/07	02/21/07	02/13/07	05/30/07	09/10/07	02/13/07	02/13/07	02/13/07	05/31/07	09/12/07	02/13/07	06/01/07	02/22/07	04/18/07	02/16/07	02/16/07	06/01/07	09/14/07	02/21/07	02/23/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																										
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
1,1,1-Trichloroethane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0 5 U	0 5 U	50 U	1 U	0.5 U	10 U	5 U	5 U	5 U	100 U
1,1,2,2-Tetrachloroethane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	50 U	1 U	0.5 U	10 U	5 U	5 U	5 U	100 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	10 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	10 U	0.5 U	10 U	5 U	5 U	5 U	100 U
1,1,2-Trichloroethane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,1-Dichloroethane	--	µg/L	**0.78 J**	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	50 U	**1.5**	**1 3 J**	10 U	**2.3 J**	5 U	5 U	100 U
1,1-Dichloroethene	6	µg/L	0 5 U	100 U	**10 J**	5 U	5 U	50 U	**3.8**	**5.4 J**	0.5 U	0 5 U	0 5 U	0 5 U	0.5 U	**0.093 J**	0 5 UJ	0 5 UJ	**0.081 J**	0 5 U	50 U	**3.4**	0 5 U	**17 J**	5 U	5 U	**20**	100 U
1,1-Dichloropropene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
1,2,3-Trichlorobenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0.5 U	0 5 U	0 5 UJ	0.5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,2,3-Trichloropropane	--	µg/L	--	--	--	--	--	--	5 U	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,2,4-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	5 U	5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0.5 U	0 5 U	50 U	5 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,2-Dibromoethane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,2-Dichlorobenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,2-Dichloroethane	0.5	µg/L	**0 069 J**	100 U	25 U	5 U	5 U	50 U	0 5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	50 U	0.5 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,2-Dichloropropane	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,3,5-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
1,3-Dichlorobenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
1,3-Dichloropropane	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
1,4-Dichlorobenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
2,2-Dichloropropane	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
2-Butanone	--	µg/L	5 U	200 U	250 U	10 U	10 U	100 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	12 UJ	5 U	5 U	5 U	100 U	10 U	5 U	20 U	10 U	10 U	10 U	200 U
2-Chlorotoluene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
2-Hexanone	--	µg/L	5 U	200 U	250 U	10 U	10 U	100 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	10 U	5 UJ	20 U	10 U	10 U	10 U	200 U
4-Chlorotoluene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
4-Methyl-2-pentanone	--	µg/L	5 U	200 U	250 U	10 U	10 U	100 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	10 U	5 U	20 U	10 U	10 U	10 U	200 U
Acetone	5,500	µg/L	5 U	200 U	**27 J**	10 U	**70 J**	100 UJ	50 U	**44 J**	5 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 UJ	5 U	5 U	5 U	100 UJ	50 U	5 UJ	**48 J**	10 U	10 U	10 U	200 UJ
Benzene	1	µg/L	**0 32 J**	100 U	25 U	5 U	5 U	50 U	0 5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	**1.3**	**0.25 J**	10 U	**2.6 J**	5 U	5 U	100 U
Bromobenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
Bromochloromethane	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0 5 U	50 U	1 U	0.5 U	10 U	5 U	5 U	5 U	100 U
Bromodichloromethane	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Bromoform	--	µg/L	0 5 U	100 U	25 UJ	5 U	5 U	50 U	1 U	5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 UJ	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0.5 U	50 U	1 U	0 5 UJ	10 U	5 U	5 U	5 U	100 U
Bromomethane	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	10 U	5 U	0.5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 UJ	50 U	10 U	0.5 U	10 U	5 U	5 U	5 U	100 U
Carbon disulfide	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	10 U	5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	10 U	0 086 UJ	10 U	5 U	5 U	5 U	100 U
Carbon tetrachloride	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	0 5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	0 5 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Chlorobenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0.5 U	10 U	5 U	5 U	5 U	100 U
Chloroethane	--	µg/L	**0.15 J**	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Chloroform	80	µg/L	0 5 U	100 U	25 U	5 U	5 UJ	50 U	1 U	5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Chloromethane	--	µg/L	0 23 UJ	100 U	25 U	5 U	5 U	50 U	10 U	5 U	0.5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	10 U	0 5 UJ	10 U	5 U	5 U	5 U	100 U
cis-1,2-Dichloroethene	6	µg/L	**80 J**	**210**	**50 J**	**18 J**	**30 J**	**100 J**	**59**	**16 J**	0 5 U	0.5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	**320 J**	**190**	**6.4 J**	**1200 J**	**1000 J**	**720 J**	**590 J**	**49 J**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	0.5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	0 5 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Cyclohexane	--	µg/L	**17 J**	**160**	**61 J**	5 U	**14 J**	**55 J**	--	**29 J**	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	**0 071 J**	0 5 U	0 5 U	0 5 U	0.5 U	**190 J**	--	**23 J**	**140 J**	**120 J**	5 U	**50**	**120 J**
Dibromochloromethane	80	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 UJ	10 U	5 U	5 U	5 U	100 U
Dibromomethane	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
Dichlorodifluoromethane	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 UJ	100 U
Ethylbenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0.5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Isopropanol	--	µg/L	25 U	5000 U	--	250 UJ	250 U	2500 U	--	--	25 U	--	25 UJ	25 U	25 U	25 U	--	--	25 U	25 UJ	2500 U	--	25 UJ	500 UJ	250 UJ	--	--	5000 U
Isopropylbenzene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
m,p-Xylene	--	µg/L	**0.17 J**	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Methyl Acetate	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	--	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0.5 U	0 5 U	50 U	--	0 5 U	10 U	5 U	5 U	5 U	100 U
Methylcyclohexane	--	µg/L	**0 11 J**	100 U	25 U	5 U	5 U	50 U	--	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	--	**0.2 J**	10 U	5 U	5 U	5 U	100 U
Methylene chloride	5	µg/L	0 5 U	100 U	25 UJ	5 U	5 U	50 U	10 U	5 U	0 5 U	2.8 UJ	0.5 U	0 5 U	0.5 U	0 5 U	2 6 UJ	0 5 U	0.5 U	1.5 UJ	50 U	10 U	0.5 U	10 U	5 UJ	5 U	5 U	100 U
Naphthalene	--	µg/L	--	--	--	--	--	--	10 U	--	--	--	--	--	--	--	--	--	--	--	--	10 U	--	--	--	--	--	--
N-Butylbenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
N-Hexane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	--	5 UJ	0.5 U	1 6 UJ	0.5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0.5 U	50 U	--	0 5 U	**20 J**	5 U	5 U	5 UJ	100 U
N-Propylbenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
o-Xylene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
p-Isopropyltoluene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
Sec-Butylbenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
Styrene	--	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0.5 U	0.5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0.5 UJ	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
T-Butylbenzene	--	µg/L	--	--	--	--	--	--	1 U	--	--	--	--	--	--	--	--	--	--	--	--	1 U	--	--	--	--	--	--
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	100 U	25 U	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0.5 U	10 U	5 U	5 U	5 U	100 U
Tetrachloroethene	5	µg/L	**0.77 J**	100 U	25 U	5 U	**2 1 J**	**7.2 J**	1 U	**1.8 J**	0 5 U	0.5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	**9.1 J**	**1.8**	0 5 U	**1.9 J**	**0.95 J**	5 U	**6.5**	100 U
Toluene	--	µg/L	0.5 U	100 U	**3.5 J**	5 U	5 U	50 U	1 U	5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	1 U	0 5 U	10 U	5 U	5 U	5 U	100 U
trans-1,2-Dichloroethene	10	µg/L	**1 8 J**	100 U	**4.1 J**	5 U	5 U	50 U	**8**	**2 J**	0 5 U	0.5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	50 U	**13**	**0.19 J**	**12 J**	5 U	**5.6 J**	**38**	100 U
trans-1,3-Dichloropropene	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	0 5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	0 5 U	0.5 UJ	10 U	5 U	5 U	5 U	100 U
Trichloroethene	5	µg/L	**13 J**	**8500**	**6300 J**	**750**	**490 J**	**1500 J**	**1000**	**550 J**	**0.33 J**	**0.27 J**	0 5 U	**0.33 J**	0 5 U	0.5 U	0 5 U	0 5 U	0.5 U	**0.43 J**	**8900 J**	**4500**	**2.9 J**	**190 J**	**170 J**	**120**	**51**	**8800**
Trichlorofluoromethane	--	µg/L	0 5 U	100 U	25 U	5 U	5 U	50 U	10 U	5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	10 U	0 5 U	10 U	5 U	5 U	5 U	100 U
Vinyl acetate	--	µg/L	--	--	--	--	--	--	10 U	--	--	--	--	--	--	--	--	--	--	--	--	10 U	--	--	--	--	--	--
Vinyl chloride	0 5	µg/L	**11 J**	100 U	25 U	5 U	5 U	50 U	**3**	5 U	0.5 UJ	0 5 UJ	0 5 U	0.5 UJ	0 5 UJ	0 5 UJ	0 5 U	0.5 U	0 5 UJ	0 5 U	**19 J**	**6**	0 47 UJ	**48 J**	**51 J**	**23**	**23**	100 U

Notes:

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied

- Results were detected below reporting limits;
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

Bolded and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

2 In addition to the quarterly sampling events, samples were collected from the following wells for the biopilot study DA-04, DA-05, MW-03-70, and MW-19-70

TABLE 8
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'B' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	DB-01			DB-02			DB-03			DB-04							
		Sample Date:	02/15/07	06/07/07	09/13/07	02/14/07	05/29/07	09/14/07	02/14/07	05/29/07	09/14/07	02/15/07	04/18/07	05/02/07	05/09/07	05/22/07	06/06/07	07/23/07	09/06/07
		Sample Type.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																	
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	--	--
1,1,1-Trichloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,1,2 2-Tetrachloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	10 U	100 U	100 U	100 U	5 U	100 U	5 U
1,1,2-Trichloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,1-Dichloroethane	--	µg/L	5 U	**12 J**	**11**	5 U	5 U	5 U	20 U	**0.6 J**	**3.5 J**	25 U	**1**	10 U	10 U	10 U	5 U	10 U	5 U
1,1-Dichloroethene	6	µg/L	5 U	5 U	**2.3 J**	5 U	5 U	5 U	**8 J**	5 U	5 U	25 U	**1 7**	10 U	10 U	10 U	5 U	10 U	**3.6 J**
1,1-Dichloropropene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
1,2,3-Trichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,2,3-Trichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	5 U	50 U	50 U	50 U	--	50 U	--
1,2,4-Trichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,2,4-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
1,2-Dibromo-3-Chloropropane	0 2	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	5 U	50 U	50 U	50 U	5 U	50 U	5 U
1,2-Dibromoethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,2-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,2-Dichloroethane	0 5	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
1,2-Dichloropropane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,3,5-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
1,3-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
1,3-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
1,4-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
2,2-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
2-Butanone	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	**34 J**	10 U	10 U	50 U	10 U	100 U	100 U	100 U	10 U	100 U	10 U
2-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
2-Hexanone	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	**24 J**	10 U	10 U	50 U	10 U	100 U	100 U	100 U	10 U	100 U	10 U
4-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
4-Methyl-2-pentanone	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	40 U	10 U	10 U	50 U	10 U	100 U	100 U	100 U	10 U	100 U	10 U
Acetone	5,500	µg/L	10 U	10 U	**180**	10 U	10 U	10 U	40 U	10 U	10 U	50 U	50 U	500 U	500 U	500 U	10 U	500 U	**220**
Benzene	1	µg/L	**8.5 J**	**3.8 J**	**3 J**	5 U	5 U	5 U	**13 J**	**5.1 J**	**8.3**	25 U	**1**	5 U	5 U	5 U	**2.5 J**	5 U	**9.5**
Bromobenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
Bromochloromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Bromodichloromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Bromoform	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Bromomethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	10 U	100 U	100 U	100 U	5 U	100 U	5 U
Carbon disulfide	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	10 U	100 U	100 U	100 U	5 U	100 U	5 U
Carbon tetrachloride	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Chloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Chloroform	80	µg/L	**4.4 J**	5 U	5 U	**93**	**110 J**	**120**	20 UJ	**12 J**	**7**	25 U	**5.1**	10 U	10 U	10 U	5 U	10 U	**3 4 J**
Chloromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	10 U	100 U	100 U	100 U	5 U	100 U	5 U
cis-1,2-Dichloroethene	6	µg/L	**100 J**	**95 J**	**63 J**	**10**	**8 J**	**13 J**	**380 J**	**62 J**	**90 J**	**98**	**110**	**240**	**270**	**210**	**180 J**	**63**	**150**
cis-1,3-Dichloropropene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Cyclohexane	--	µg/L	5 U	**72 J**	**21**	**7.7**	5 U	5 U	**310 J**	5 U	5 U	25 U	--	--	--	--	**44 J**	--	**130**
Dibromochloromethane	80	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Dibromomethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
Dichlorodifluoromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Ethylbenzene	--	µg/L	5 U	**14 J**	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Isopropanol	--	µg/L	250 UJ	250 UJ	--	250 UJ	250 UJ	250 UJ	10000 U	250 UJ	250 UJ	1300 UJ	--	--	--	--	250 UJ	--	250 UJ
Isopropylbenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
m,p-Xylene	--	µg/L	5 U	**45 J**	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Methyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	--	--	--	--	5 U	--	5 U
Methylcyclohexane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	--	--	--	--	5 U	--	5 U
Methylene chloride	5	µg/L	5 U	5 U	5 U	5 U	5 UJ	5 U	20 U	**12 J**	5 U	25 U	10 U	100 U	100 U	100 U	5 UJ	100 U	5 U
Naphthalene	--	µg/L	--	--	--	--	--	--	--	--	--	--	10 U	100 U	100 U	100 U	--	100 U	--
N-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
N-Hexane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	--	--	--	--	**29 J**	--	5 U
N-Propylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
o-Xylene	--	µg/L	5 U	**10 J**	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
p-Isopropyltoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
Sec-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
Styrene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
T-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U	--	10 U	--
Tert-Butyl Methyl Ether	13	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
Tetrachloroethene	5	µg/L	**1 6 J**	**1.3 J**	5 U	5 U	5 U	5 U	**8.2 J**	**2.1 J**	**2.3 J**	25 U	1 U	10 U	10 U	10 U	**3 2 J**	10 U	**4 J**
Toluene	--	µg/L	**0.76 J**	**1.1 J**	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	1 U	10 U	10 U	10 U	5 U	10 U	5 U
trans-1,2-Dichloroethene	10	µg/L	**3.5 J**	5 U	**3.6 J**	5 U	5 U	5 U	**12 J**	**2.7 J**	**5.8 J**	25 U	**2 3**	10 U	10 U	10 U	5 U	10 U	5 U
trans-1,3-Dichloropropene	--	µg/L	**0.75 J**	5 U	5 U	5 U	5 U	5 U	**2.9 J**	5 U	5 U	25 U	0 5 U	5 U	5 U	5 U	5 U	5 U	5 U
Trichloroethene	5	µg/L	**930 J**	**490 J**	**340**	**160 J**	**110 J**	**170**	**2700 J**	**1000 J**	**940**	**4700 J**	--	**1700**	**1900**	**1700**	**3300 J**	**3400**	**2500**
Trichlorofluoromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	20 U	5 U	5 U	25 U	10 U	100 U	100 U	100 U	5 U	100 U	5 U
Vinyl acetate	--	µg/L	--	--	--	--	--	--	--	--	--	--	10 U	100 U	100 U	100 U	--	100 U	--
Vinyl chloride	0 5	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	2.3 UJ	5 U	5 U	25 U	**1.5**	5 U	5 U	5 U	5 U	5 U	**3.7 J**

		Well ID:	DB-05						DB-06			DB-07		
		Sample Date:	02/20/07	04/18/07	05/02/07	05/10/07	05/22/07	06/06/07	09/06/07	02/20/07	06/05/07	09/13/07	02/14/07	05/29/07	09/13/07
		Sample Type.	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units													
1,1,1,2-Tetrachloroethane	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,1,2 2-Tetrachloroethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	5 U	10 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,1,2-Trichloroethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,1-Dichloroethane	--	µg/L	5 U	**1.1**	5 U	5 U	5 U	**1 1 J**	5 U	5 U	**1.4 J**	5 U	0 5 U	**14 J**	**2.7 J**
1,1-Dichloroethene	6	µg/L	**2.1 J**	1 U	5 U	5 U	5 U	5 U	**2.3 J**	5 U	5 U	5 U	0 5 U	5 U	**3 3 J**
1,1-Dichloropropene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
1,2,3-Trichlorobenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,2,3-Trichloropropane	--	µg/L	--	5 U	25 U	25 U	25 U	--	--	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,2,4-Trimethylbenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	0 2	µg/L	5 U	5 U	25 U	25 U	25 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,2-Dibromoethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,2-Dichlorobenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,2-Dichloroethane	0 5	µg/L	5 U	0 5 U	2 5 U	2 5 U	2 5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,2-Dichloropropane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,3,5-Trimethylbenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
1,3-Dichlorobenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
1,3-Dichloropropane	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
1,4-Dichlorobenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
2,2-Dichloropropane	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
2-Butanone	--	µg/L	10 U	10 U	50 U	50 U	50 U	10 U	10 U	**8 J**	10 U	10 U	5 U	10 U	**31**
2-Chlorotoluene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
2-Hexanone	--	µg/L	10 U	10 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	10 U	10 U
4-Chlorotoluene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	--	µg/L	10 U	10 U	50 U	50 U	50 U	10 U	10 U	10 U	10 U	10 U	5 U	10 U	10 U
Acetone	5,500	µg/L	10 U	50 U	250 U	250 U	250 U	10 U	**79**	10 U	**15 J**	10 U	5 U	10 U	**130**
Benzene	1	µg/L	5 U	0 5 U	2 5 U	2 5 U	2 5 U	5 U	**3.4 J**	5 U	5 U	5 U	**0.08 J**	**3.4 J**	5 U
Bromobenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
Bromochloromethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Bromodichloromethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Bromoform	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 UJ	5 U	5 U
Bromomethane	--	µg/L	5 U	10 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Carbon disulfide	--	µg/L	5 U	10 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Carbon tetrachloride	--	µg/L	5 U	0 5 U	2 5 U	2 5 U	2 5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Chlorobenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Chloroethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Chloroform	80	µg/L	**7 6**	**13**	**21**	**26**	**34**	**37 J**	**25**	**2.1 J**	**110 J**	**130 J**	0 5 U	5 U	5 U
Chloromethane	--	µg/L	5 U	10 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	0 5 UJ	5 U	5 U
cis-1,2-Dichloroethene	6	µg/L	**48**	**44**	**52**	**49**	**49**	**58 J**	**65 J**	**9.7**	**24 J**	**41 J**	**1.6 J**	**64 J**	**200 J**
cis-1,3-Dichloropropene	--	µg/L	5 U	0 5 U	2 5 U	2 5 U	2 5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Cyclohexane	--	µg/L	**34**	--	--	--	--	**3.4 J**	**13**	5 U	5 U	5 U	**0.16 J**	**43 J**	**23**
Dibromochloromethane	80	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Dibromomethane	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
Dichlorodifluoromethane	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Ethylbenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Isopropanol	--	µg/L	250 UJ	--	--	--	--	250 UJ	250 UJ	250 UJ	250 UJ	250 UJ	--	250 UJ	250 UJ
Isopropylbenzene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
m,p-Xylene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Methyl Acetate	--	µg/L	5 U	--	--	--	--	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Methylcyclohexane	--	µg/L	5 U	--	--	--	--	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Methylene chloride	5	µg/L	5 U	10 U	50 U	50 U	50 U	5 UJ	5 U	5 U	5 UJ	5 U	0 5 U	**18 J**	5 U
Naphthalene	--	µg/L	--	10 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--
N-Butylbenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
N-Hexane	--	µg/L	5 U	--	--	--	--	**6 4 J**	5 U	5 U	**75 J**	5 U	0 5 U	5 U	5 U
N-Propylbenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
o-Xylene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
p-Isopropyltoluene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
Sec-Butylbenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
Styrene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
T-Butylbenzene	--	µg/L	--	1 U	5 U	5 U	5 U	--	--	--	--	--	--	--	--
Tert-Butyl Methyl Ether	13	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Tetrachloroethene	5	µg/L	**3 7 J**	**1**	5 U	5 U	5 U	**3.3 J**	**3 1 J**	**0.83 J**	**1.7 J**	5 U	0 5 U	**1.1 J**	5 U
Toluene	--	µg/L	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
trans-1,2-Dichloroethene	10	µg/L	5 U	**1.2**	5 U	5 U	5 U	**1.8 J**	**3.6 J**	5 U	5 U	5 U	0 5 U	5 U	**2.5 J**
trans-1,3-Dichloropropene	--	µg/L	**0 55 J**	0 5 U	2 5 U	2 5 U	2 5 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Trichloroethene	5	µg/L	**730**	--	**850**	**840**	**940**	**940 J**	**1700**	**70**	**170 J**	**290**	**62 J**	**510 J**	**290 J**
Trichlorofluoromethane	--	µg/L	5 U	10 U	50 U	50 U	50 U	5 U	5 U	5 U	5 U	5 U	0 5 U	5 U	5 U
Vinyl acetate	--	µg/L	--	10 U	50 U	50 U	50 U	--	--	--	--	--	--	--	--
Vinyl chloride	0 5	µg/L	5 U	0 5 U	2 5 U	2 5 U	2 5 U	5 U	5 U	5 U	5 U	5 U	0 17 UJ	5 U	5 U

Notes.

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied

- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

Bolded and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

2 In addition to the quarterly sampling events, samples were collected from the following wells for the biopilot study DB-04, DB-05, MW-03-90 and MW-27-90

TABLE 8
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'B' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	DB-08			DB-09			DB-10			DB-11			DB-12			MW-02-95			MW-03-90							
		Sample Date:	02/20/07	06/07/07	09/18/07	02/19/07	06/07/07	09/11/07	02/22/07	06/07/07	09/06/07	02/22/07	06/06/07	09/06/07	02/21/07	06/06/07	09/06/07	02/21/07	06/04/07	09/11/07	02/22/07	04/10/07	05/02/07	05/10/07	05/23/07	06/06/07	07/23/07	09/06/07
		Sample Type.	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																										
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	--	--
1,1,1-Trichloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,1,2,2-Tetrachloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	50 U	100 U	100 U	100 U	5 U	100 U	80 U
1,1,2-Trichloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,1-Dichloroethane	--	µg/L	5 U	**1.8 J**	5 U	5 U	**4.5 J**	5 U	50 U	**4.7 J**	**3.6 J**	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,1-Dichloroethene	6	µg/L	5 U	5 U	**4.9 J**	5 U	5 U	5 U	50 U	5 U	**3.9 J**	**12 J**	5 U	**4.2 J**	**3 J**	5 U	**2.8 J**	**9.3 J**	5 U	**2.3 J**	20 U	5 U	**11**	10 U	10 U	5 U	10 U	80 U
1,1-Dichloropropene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
1,2,3-Trichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,2,3-Trichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	50 U	50 U	50 U	--	50 U	--
1,2,4-Trichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,2,4-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
1,2-Dibromo-3-Chloropropane	0.2	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	25 U	50 U	50 U	50 U	5 U	50 U	80 U
1,2-Dibromoethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,2-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,2-Dichloroethane	0.5	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	2.5 U	5 U	5 U	5 U	5 U	5 U	80 U
1,2-Dichloropropane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,3,5-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
1,3-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
1,3-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
1,4-Dichlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
2,2-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
2-Butanone	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	40 U	50 U	100 U	100 U	100 U	10 U	100 U	160 U
2-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
2-Hexanone	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	40 U	**570**	100 U	100 U	100 U	10 U	100 U	160 U
4-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
4-Methyl-2-pentanone	--	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	100 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	10 U	10 U	40 U	50 U	100 U	100 U	100 U	10 U	100 U	160 U
Acetone	5,500	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	100 UJ	10 U	10 U	10 U	10 U	**58**	10 U	10 U	10 U	50 U	10 U	**62**	**140 J**	250 U	500 U	500 U	**1100**	10 U	500 U	160 U
Benzene	1	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	**3.1 J**	**3.3 J**	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	2.5 U	5 U	5 U	5 U	**2 J**	5 U	80 U
Bromobenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
Bromochloromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Bromodichloromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Bromoform	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Bromomethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	50 U	100 U	100 U	100 U	5 U	100 U	80 U
Carbon disulfide	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	50 U	100 U	100 U	100 U	**2 J**	100 U	80 U
Carbon tetrachloride	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	2.5 U	5 U	5 U	5 U	5 U	5 U	80 U
Chlorobenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Chloroethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Chloroform	80	µg/L	**5.1**	5 U	5 U	5 U	5 U	5 U	50 UJ	**5.2 J**	**3.7 J**	5 UJ	5 U	5 U	5 UJ	5 U	5 U	25 UJ	5 U	5 U	20 UJ	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Chloromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	50 U	100 U	100 U	100 U	5 U	100 U	80 U
cis-1,2-Dichloroethene	6	µg/L	**30**	**60 J**	**910 J**	**37 J**	**17 J**	**17 J**	**49 J**	**160 J**	**100 J**	**1300 J**	**56 J**	**50 J**	**19 J**	**10 J**	**7.8 J**	**380 J**	**200 J**	**160 J**	**87 J**	**66**	**1800**	**1700**	**600**	**97 J**	**850**	**1400 J**
cis-1,3-Dichloropropene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	2.5 U	5 U	5 U	5 U	5 U	5 U	80 U
Cyclohexane	--	µg/L	**6.3**	**14 J**	**13 J**	5 U	**5.8 J**	5 U	50 U	**61 J**	**35**	**81 J**	**4.3 J**	**2.8 J**	**9 J**	**1.5 J**	5 U	**220 J**	**220 J**	**44**	**87 J**	--	--	--	--	**1.1 J**	--	80 U
Dibromochloromethane	80	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Dibromomethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
Dichlorodifluoromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Ethylbenzene	--	µg/L	5 U	**6.6 J**	5 U	5 U	**6.1 J**	5 U	50 U	**2.7 J**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Isopropanol	--	µg/L	250 UJ	250 UJ	250 UJ	--	250 UJ	250 UJ	2500 U	250 UJ	250 UJ	250 U	250 UJ	250 UJ	250 U	250 UJ	250 UJ	1300 U	250 UJ	250 UJ	1000 U	--	--	--	--	250 UJ	--	4000 UJ
Isopropylbenzene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
m,p-Xylene	--	µg/L	5 U	**22 J**	5 U	5 U	**20 J**	5 U	50 U	**8.3 J**	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Methyl Acetate	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	--	--	--	--	5 U	--	80 U
Methylcyclohexane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	--	--	--	--	5 U	--	80 U
Methylene chloride	5	µg/L	5 U	5 UJ	5 U	5 U	5 UJ	5 U	50 U	11 UJ	5 U	5 U	5 UJ	5 U	5 U	**37 J**	5 U	25 U	12 UJ	5 U	20 U	50 U	100 U	100 U	100 U	5 UJ	100 U	80 U
Naphthalene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	100 U	100 U	100 U	--	100 U	--
N-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
N-Hexane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	25 U	5 UJ	5 U	20 U	--	--	--	--	**45 J**	--	80 U
N-Propylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
o-Xylene	--	µg/L	5 U	**5.1 J**	5 U	5 U	**4.8 J**	5 U	50 U	**1.8 J**	5 U	**0.73 J**	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
p-Isopropyltoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
Sec-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
Styrene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
T-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	10 U	10 U	10 U	--	10 U	--
Tert-Butyl Methyl Ether	13	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Tetrachloroethene	5	µg/L	**2.6 J**	**2 J**	5 U	5 U	5 U	5 U	50 U	**3.3 J**	**2.7 J**	**3.4 J**	**3.4 J**	5 U	**1.9 J**	**1 J**	5 U	25 U	**2 J**	5 U	**6.5 J**	5 U	10 U	10 U	10 U	5 U	10 U	80 U
Toluene	--	µg/L	5 U	5 U	**21**	5 U	5 U	5 U	**43 J**	5 U	5 U	**170 J**	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	5 U	10 U	10 U	10 U	**1.4 J**	10 U	80 U
trans-1,2-Dichloroethene	10	µg/L	5 U	5 U	**7.2 J**	**1 J**	5 U	5 U	50 U	5 U	5 U	5 U	**3.5 J**	**2.2 J**	5 U	5 U	5 U	**12 J**	5 U	**3.4 J**	20 U	**9.2**	**14**	10 U	10 U	**8.3 J**	10 U	80 U
trans-1,3-Dichloropropene	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	2.5 U	5 U	5 U	5 U	5 U	5 U	80 U
Trichloroethene	5	µg/L	**180**	**440 J**	**100**	**130 J**	**96 J**	**77**	**4900 J**	**6900 J**	**2700**	**3000 J**	**2400 J**	**1400**	**320 J**	**190 J**	**150**	**3100 J**	**7500 J**	**4000**	**3000 J**	**640**	**1600**	**1300**	**920**	**200 J**	**600**	**570**
Trichlorofluoromethane	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	50 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	25 U	5 U	5 U	20 U	50 U	100 U	100 U	100 U	5 U	100 U	80 U
Vinyl acetate	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	100 U	100 U	100 U	--	100 U	--
Vinyl chloride	0.5	µg/L	5 U	5 U	**99**	**5.3 J**	5 U	5 U	50 U	**11 J**	**6.1**	**5.2 J**	5 U	5 U	5 U	5 U	5 U	**34 J**	**13 J**	**6.5**	20 U	**3.7**	**18**	**22**	**7.9**	5 U	**12**	**58 J**

Notes:
U - Analyte was not detected above the reporting limit
J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample
SSRLs - Site specific remediation levels
"--" - Not available
µg/L - microgram per liter
Bold - Bold values indicate detections
Bolded and highlighted values indicate results exceeding SSRLs
1 Rejected concentrations are not reported in this table
2 In addition to the quarterly sampling events, samples were collected from the following wells for the biopilot study DB-04, DB-05, MW-03-90, and MW-27-90

TABLE 8
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'B' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	MW-04-90			MW-06-85			MW-08-85			MW-09-85			MW-10-90			MW-12-90			MW-13-85			MW-14-90	MW-19-90				
		Sample Date:	02/21/07	06/05/07	09/06/07	02/13/07	05/31/07	09/12/07	02/13/07	05/31/07	09/12/07	02/13/07	06/04/07	09/12/07	02/13/07	05/31/07	09/12/07	02/13/07	06/01/07	09/12/07	02/13/07	06/01/07	09/10/07	02/19/07	02/22/07	04/18/07	05/02/07	05/09/07	05/23/07
		Sample Type[2]	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																											
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
1,1,1-Trichloroethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	10 U	100 U	100 U	100 U
1,1,2-Trichloroethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0.5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,1-Dichloroethane	--	µg/L	10 U	5 U	5 U	**1 J**	**0.47 J**	0 5 U	**0.064 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	**0.71**	25 U	20 U	**1.1**	10 U	10 U	10 U
1,1-Dichloroethene	6	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 UJ	**0.13 J**	0 5 U	0 5 U	0.5 U	0 5 U	0 5 UJ	**0.09 J**	0 5 UJ	0 5 UJ	0 5 U	0 5 U	0 5 UJ	5 U	5 U	**0.34 J**	25 U	20 U	**1.5**	10 U	10 U	10 U
1,1-Dichloropropene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
1,2,3-Trichlorobenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	5 U	5 U	0 5 UJ	25 U	20 U	1 U	10 U	10 U	10 U
1,2,3-Trichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	50 U	50 U	50 U
1,2,4-Trichlorobenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,2,4-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
1,2-Dibromo-3-Chloropropane	0 2	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	5 U	50 U	50 U	50 U
1,2-Dibromoethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1 2-Dichlorobenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,2-Dichloroethane	0 5	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	0 5 U	5 U	5 U	5 U
1,2-Dichloropropane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	**0 16 J**	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,3,5-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
1,3-Dichlorobenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
1,3-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
1,4-Dichlorobenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
2,2-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
2-Butanone	--	µg/L	20 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	11 UJ	5 U	5 U	5 U	5 U	10 U	10 U	5 U	50 U	40 U	10 U	100 U	100 U	100 U
2-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
2-Hexanone	--	µg/L	20 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	50 U	40 U	10 U	100 U	100 U	100 U
4-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
4-Methyl-2-pentanone	--	µg/L	20 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	50 U	40 U	10 U	100 U	100 U	100 U
Acetone	5,500	µg/L	20 UJ	10 U	10 U	5 U	5 U	5 U	5 UJ	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	**14**	10 U	5 U	50 U	40 UJ	50 U	500 U	500 U	500 U
Benzene	1	µg/L	10 U	5 U	5 U	**0.74 J**	0 5 U	**0 23 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**0.056 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	0 5 U	5 U	5 U	5 U
Bromobenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
Bromochloromethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0.5 U	25 U	20 U	1 U	10 U	10 U	10 U
Bromodichloromethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Bromoform	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Bromomethane	--	µg/L	10 U	5 U	5 U	--	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	5 U	5 U	0 5 U	25 U	20 U	10 U	100 U	100 U	100 U
Carbon disulfide	--	µg/L	10 U	5 U	5 U	--	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	10 U	100 U	100 U	100 U
Carbon tetrachloride	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	0 5 U	5 U	5 U	5 U
Chlorobenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Chloroethane	--	µg/L	10 U	5 U	5 U	--	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Chloroform	80	µg/L	10 UJ	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 UJ	**6.5**	10 U	10 U	10 U
Chloromethane	--	µg/L	10 U	5 U	5 U	--	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	5 U	5 U	0 5 U	25 U	20 U	10 U	100 U	100 U	100 U
cis-1,2-Dichloroethene	6	µg/L	**25 J**	**13 J**	**3 9 J**	**4 4 J**	**1.9 J**	**1.6**	**0.56 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**0.76 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**8.1**	**4 6 J**	**11**	**29 J**	**30 J**	**31**	**330**	**1800**	**1400**
cis-1,3-Dichloropropene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	5 U	5 U	0 5 U	25 U	20 U	0 5 U	5 U	5 U	5 U
Cyclohexane	--	µg/L	**21 J**	**21 J**	5 U	0 5 U	**1.1 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	**0.48 J**	**86 J**	20 U	--	--	--	--
Dibromochloromethane	80	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Dibromomethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
Dichlorodifluoromethane	--	µg/L	10 U	5 U	5 U	--	0 5 U	0 5 U	**0 07 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Ethylbenzene	--	µg/L	10 U	5 U	5 U	**0.15 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Isopropanol	--	µg/L	500 U	250 UJ	250 UJ	**3.8 J**	25 UJ	--	25 U	25 UJ	--	25 U	25 UJ	--	25 U	--	--	25 U	25 UJ	--	250 UJ	250 UJ	25 UJ	--	1000 U	--	--	--	--
Isopropylbenzene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
m,p-Xylene	--	µg/L	10 U	5 U	5 U	**0 12 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Methyl Acetate	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	--	--	--	--
Methylcyclohexane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	--	--	--	--
Methylene chloride	5	µg/L	10 U	**27 J**	5 U	0 5 U	0 5 U	0 5 U	0 5 U	1 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	3 1 UJ	0 5 U	0 5 U	1.1 UJ	0 5 U	5 U	5 UJ	0 5 U	25 U	20 U	10 U	100 U	100 U	100 U
Naphthalene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	100 U	100 U	100 U
N-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
N-Hexane	--	µg/L	10 U	5 UJ	5 U	**6.3 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**1.5 J**	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	5 U	**7.6 J**	0 5 U	25 U	20 U	--	--	--	--
N-Propylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
o-Xylene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
p-Isopropyltoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
Sec-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
Styrene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
T-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	10 U	10 U
Tert-Butyl Methyl Ether	13	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
Tetrachloroethene	5	µg/L	**2.3 J**	**1.2 J**	5 U	**0.11 J**	0 5 U	0 5 U	**0 071 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	**0.36 J**	25 U	**3 4 J**	1 U	10 U	10 U	10 U
Toluene	--	µg/L	10 U	5 U	5 U	0 11 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	1 U	10 U	10 U	10 U
trans-1,2-Dichloroethene	10	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	**0.27 J**	25 U	20 U	**1.1**	10 U	10 U	10 U
trans-1,3-Dichloropropene	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	**3 8 J**	20 U	0 5 U	5 U	5 U	5 U
Trichloroethene	5	µg/L	**1500 J**	**720 J**	**340**	**0.86 J**	**0.39 J**	**0.23 J**	**4.6 J**	**4.4**	**3.6**	**0.1 J**	0 5 U	0 5 U	**3.9 J**	**1.8**	**1**	0 5 U	0 5 U	0 5 U	**48**	**34 J**	**67**	**4600 J**	**1800 J**	--	**1100**	**190**	**81**
Trichlorofluoromethane	--	µg/L	10 U	5 U	5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	5 U	5 U	0 5 U	25 U	20 U	10 U	100 U	100 U	100 U
Vinyl acetate	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	100 U	100 U	100 U
Vinyl chloride	0 5	µg/L	1 5 UJ	5 U	5 U	**0.22 J**	0 5 U	0 5 U	0 5 UJ	0.5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	5 U	5 U	0 5 U	**3.3 J**	20 U	**4.1**	**11**	**40**	**260**

Notes:

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied

- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analyses, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

[ ] **Bolded** and highlighted values indicate results exceeding SSRLs

1. Rejected concentrations are not reported in this table

2. In addition to the quarterly sampling events, samples were collected from the following wells for the biopilot study DB-04, DB-05, MW-03-90, and MW-27-90

TABLE 8
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'B' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	MW-19-90 Continued			MW-20-85			MW-21-90			MW-22-90			MW-26-90			MW-27-90							RW-01-95		
		Sample Date:	06/14/07	07/23/07	09/07/07	02/16/07	06/05/07	09/10/07	02/16/07	06/01/07	09/14/07	02/16/07	06/01/07	09/11/07	02/22/07	06/01/07	09/06/07	02/26/07	04/19/07	05/02/07	05/09/07	05/24/07	07/23/07	09/13/07	02/23/07	06/05/07	09/06/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																									
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	--	--	--	--	--
1,1,1-Trichloroethane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,1,2 2-Tetrachloroethane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0.5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,1,2-Trichloro-1,2 2-Trifluoroethane	--	µg/L	5 U	20 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	10 U	100 U	200 U	200 U	10 U	5 U	100 U	5 U	5 U
1,1,2-Trichloroethane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,1-Dichloroethane	--	µg/L	5 U	2 U	50 U	**1 6 J**	0 5 U	**0.83**	0 5 U	**1.5**	**0.67**	0 5 U	0 5 U	**1.2**	50 U	**0.51 J**	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	**1.2 J**	5 U
1,1-Dichloroethene	6	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**0.48 J**	0 5 U	0 5 U	**8**	50 U	5 U	**7.2**	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	**14**
1,1-Dichloropropene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
1,2,3-Trichlorobenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,2,3-Trichloropropane	--	µg/L	--	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	50 U	100 U	100 U	5 U	--	--	--	--
1,2,4-Trichlorobenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,2,4-Trimethylbenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
1,2-Dibromo-3-Chloropropane	0 2	µg/L	5 U	10 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 U	50 U	5 U	5 U	100 U	5 U	50 U	100 U	100 U	5 U	5 U	100 U	5 U	5 U
1,2-Dibromoethane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,2-Dichlorobenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,2-Dichloroethane	0 5	µg/L	5 U	1 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	**0 13 J**	0 5 U	0 5 U	50 U	5 U	5 U	100 U	0 5 U	5 U	10 U	10 U	0 5 U	5 U	100 U	5 U	5 U
1,2-Dichloropropane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,3,5-Trimethylbenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
1,3-Dichlorobenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
1,3-Dichloropropane	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
1,4-Dichlorobenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
2,2-Dichloropropane	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
2-Butanone	--	µg/L	10 U	**69**	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	10 U	10 U	**200 J**	**120**	**240**	**260**	**450**	**140**	**29**	200 U	10 U	10 U
2-Chlorotoluene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
2-Hexanone	--	µg/L	10 U	20 U	100 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	10 U	10 U	200 U	10 U	100 U	200 U	200 U	10 U	10 U	200 U	10 U	10 U
4-Chlorotoluene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
4-Methyl-2-pentanone	--	µg/L	10 U	20 U	100 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	100 U	10 U	10 U	200 U	10 U	100 U	200 U	200 U	10 U	10 U	200 U	10 U	10 U
Acetone	5,500	µg/L	10 U	100 U	100 U	5 UJ	**4 J**	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	100 UJ	10 U	**180**	200 UJ	**110**	500 U	1000 U	1000 U	**81**	10 U	200 UJ	10 U	**200**
Benzene	1	µg/L	5 U	1 U	50 U	**0.14 J**	0 5 U	0 5 U	**0 065 J**	0 5 U	0 5 U	0 5 U	0 5 U	**0.24 J**	50 U	5 U	5 U	100 U	**1**	5 U	10 U	10 U	**0 53**	5 U	100 U	5 U	5 U
Bromobenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
Bromochloromethane	--	µg/L	**2 4 J**	**2.4**	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Bromodichloromethane	--	µg/L	**2.4 J**	2 U	50 U	0.5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Bromoform	--	µg/L	5 U	2 U	50 U	0 5 UJ	0.5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Bromomethane	--	µg/L	5 U	20 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 UJ	0 5 UJ	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	10 U	100 U	200 U	200 U	10 U	5 U	100 U	5 U	5 U
Carbon disulfide	--	µg/L	5 U	20 U	50 U	0 5 U	**0 5 J**	0.5 U	0 06 UJ	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	10 U	100 U	200 U	200 U	10 U	5 U	100 U	**1 6 J**	5 U
Carbon tetrachloride	--	µg/L	5 U	1 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	0 5 U	5 U	10 U	10 U	0 5 U	5 U	100 U	5 U	5 U
Chlorobenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Chloroethane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	**0.071 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Chloroform	80	µg/L	**7.6 J**	**4.1**	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 UJ	5 U	5 U	100 UJ	**2.5**	10 U	20 U	20 U	1 U	5 U	100 UJ	5 U	5 U
Chloromethane	--	µg/L	5 U	20 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	10 U	100 U	200 U	200 U	10 U	5 U	100 U	5 U	5 U
cis-1,2-Dichloroethene	6	µg/L	**350 J**	**210**	**1300 J**	**3.3 J**	0 5 U	**1 2**	**2 6 J**	**3.7**	**8.6**	**1.1 J**	**0 78 J**	**61 J**	**120 J**	**38 J**	**35**	**130 J**	**63.**	**280**	**500**	**2000**	**170**	**120 J**	**1500 J**	**1500**	**2200 J**
cis-1,3-Dichloropropene	--	µg/L	5 U	1 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	0 5 U	5 U	10 U	10 U	0 5 U	5 U	100 U	5 U	5 U
Cyclohexane	--	µg/L	**23 J**	--	**66**	**5.8 J**	0 5 U	**0.66**	**0 96 J**	0 5 U	**0.22 J**	**0.15 J**	0 5 U	**3 2**	50 U	**22 J**	**27**	**300 J**	--	--	--	--	--	5 U	**290 J**	**120 J**	**220 J**
Dibromochloromethane	80	µg/L	**3 J**	2 U	50 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Dibromomethane	--	µg/L	--	**2.4**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
Dichlorodifluoromethane	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Ethylbenzene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0.5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Isopropanol	--	µg/L	250 UJ	--	2500 UJ	25 UJ	25 UJ	25 UJ	25 UJ	25 UJ	--	25 UJ	25 UJ	--	2500 U	250 UJ	250 UJ	5000 U	--	--	--	--	--	250 UJ	5000 U	--	250 UJ
Isopropylbenzene	--	µg/L	5 U	2 U	50 U	**0 075 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
m,p-Xylene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Methyl Acetate	--	µg/L	5 U	--	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	--	--	--	--	--	5 U	100 U	5 U	5 U
Methylcyclohexane	--	µg/L	5 U	--	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	--	--	--	--	--	5 U	100 U	5 U	5 U
Methylene chloride	5	µg/L	5 UJ	20 U	50 U	0 5 U	0 5 UJ	0 5 U	0 5 U	1 6 UJ	0 5 U	0 5 U	1 1 UJ	0 5 U	50 U	10 UJ	5 U	100 U	10 U	**100**	200 U	200 U	10 U	5 U	100 U	5 UJ	5 U
Naphthalene	--	µg/L	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	100 U	200 U	200 U	10 U	--	--	--	--
N-Butylbenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
N-Hexane	--	µg/L	5 U	--	50 U	0 5 U	**0 64 J**	0 5 U	**3 J**	0 5 U	0 5 U	**0.46 J**	0 5 U	0 5 U	50 U	5 U	5 U	100 U	--	--	--	--	--	5 U	100 U	5 U	**17**
N-Propylbenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
o-Xylene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
p-Isopropyltoluene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
Sec-Butylbenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
Styrene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
T-Butylbenzene	--	µg/L	--	2 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	10 U	20 U	20 U	1 U	--	--	--	--
Tert-Butyl Methyl Ether	13	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	5 U	5 U
Tetrachloroethene	5	µg/L	5 U	2 U	50 U	**0.26 J**	0 5 U	0 5 U	**0.11 J**	0 5 U	0 5 U	**0.75 J**	0 5 U	**1.7**	**7.6 J**	**3.1 J**	**2.2 J**	100 U	1 U	10 U	20 U	20 U	1 U	5 U	**10 J**	**3.9 J**	**6.6**
Toluene	--	µg/L	5 U	2 U	50 U	0 5 U	0 5 U	0 5 U	**0.052 J**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	1 U	10 U	20 U	20 U	1 U	5 U	100 U	**1 J**	5 U
trans-1,2-Dichloroethene	10	µg/L	5 U	**3.1**	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**0 71 J**	50 U	5 U	5 U	100 U	**1.2**	10 U	20 U	20 U	**7.7**	**2 5 J**	100 U	5 U	5 U
trans-1,3-Dichloropropene	--	µg/L	5 U	1 U	50 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	0 5 UJ	0 5 U	0 5 U	50 U	5 U	5 U	100 U	0 5 U	5 U	10 U	10 U	0 5 U	5 U	100 U	5 U	5 U
Trichloroethene	5	µg/L	**77 J**	**110**	**470**	**9.9 J**	0 5 U	**1.1**	**3 5 J**	**1.6**	**2.2**	**1 2 J**	**0.33 J**	**14**	**13000 J**	**5900 J**	**2700**	**7700 J**	--	**310**	**1000**	**97**	**2.9**	5 U	**12000 J**	**7500**	**13000**
Trichlorofluoromethane	--	µg/L	5 U	20 U	50 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	50 U	5 U	5 U	100 U	10 U	100 U	200 U	200 U	10 U	5 U	100 U	5 U	5 U
Vinyl acetate	--	µg/L	--	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	100 U	200 U	200 U	10 U	--	--	--	--
Vinyl chloride	0 5	µg/L	**280 J**	**140**	**820**	0 5 U	0 5 U	0 5 U	0 5 U	0 5 U	**0.78**	0 5 U	0 5 U	**3.5**	50 U	5 U	5 U	100 U	**0.68**	**6.4**	10 U	**15**	**90**	**49**	**86 J**	**60 J**	**160**

Notes:

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

[ ] **Bolded** and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

2 In addition to the quarterly sampling events, samples were collected from the following wells for the bioplot study DB-04, DB-05, MW-03-90, and MW-27-90

TABLE 9
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'AB' Zone (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	DAB-01			DAB-02			DAB-03			DAB-04			DAB-05			DAB-06			DAB-07			DAB-08			MW-01-80	MW-05-85		
		Sample Date:	02/16/07	06/07/07	09/13/07	02/16/07	06/06/07	09/13/07	02/15/07	06/05/07	09/13/07	02/15/07	06/07/07	09/13/07	02/14/07	06/05/07	09/18/07	02/14/07	06/05/07	09/10/07	02/15/07	06/05/07	09/07/07	02/21/07	06/05/07	09/13/07	02/16/07	02/14/07	05/31/07	09/07/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																												
1,1,1-Trichloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,1,2-Trichloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,1-Dichloroethane	--	µg/L	0.5 U	**0.11 J**	**0.2 J**	0.5 U	0.5 U	**0.23 J**	0.5 U	**0.28 J**	**0.31 J**	0.5 U	**0.23 J**	**0.51 J**	**0.15 J**	**0.79 J**	**0.92 J**	**0.35 J**	**1.3 J**	**0.94**	**0.56 J**	**0.35 J**	**0.32 J**	**14 J**	**3.2 J**	**2.8 J**	**0.32 J**	5 U	5 U	0.5 U
1,1-Dichloroethene	6	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.39 J**	0.5 U	0.5 U	**0.42 J**	0.5 U	0.5 U	0.5 U	**4 J**	5 U	5 U	**0.71 J**	5 U	5 U	0.5 U
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 UJ	0.5 UJ	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 UJ
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 UJ	0.5 U	5 U	5 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,2-Dibromoethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.66 J**	0.5 U	0.5 U	**0.085 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
2-Butanone	--	µg/L	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	10 U	10 U	5 U
2-Hexanone	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	10 U	10 U	5 U
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	10 U	5 U	10 U	10 U	5 U
Acetone	5,500	µg/L	5 UJ	5 U	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	5 U	5 UJ	5 U	5 U	5 UJ	5 U	5 U	10 U	10 U	10 U	5 UJ	10 U	10 U	5 U
Benzene	1	µg/L	0.5 U	**0.3 J**	**0.36 J**	0.5 U	0.5 U	**0.26 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.11 J**	0.5 U	0.5 U	**0.17 J**	0.5 U	0.5 U	0.5 U	0.5 U	**4.4 J**	**3.6 J**	5 U	0.5 U	5 U	5 U	0.5 U
Bromochloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Bromoform	--	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	2.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	5 U	5 U	5 U	0.5 UJ	5 U	5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Carbon disulfide	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.06 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Chloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Chloroform	80	µg/L	0.5 U	**1.4 J**	0.89 UJ	0.5 U	**3.2**	**3.2**	0.5 U	**.86**	**59**	0.5 UJ	**3.8 J**	**120**	**42 J**	**18 J**	**6.9 J**	**0.63 J**	**1.7 J**	0.5 U	**0.87 J**	0.5 U	0.5 U	5 UJ	5 U	5 U	0.5 U	**94 J**	**64 J**	**100**
Chloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.57 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 UJ	5 U	5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	0.5 U	**3.7 J**	**3.7**	0.5 U	**3.8**	**4.5**	0.5 U	**4.4 J**	**6.6**	0.5 U	**4.4 J**	**7.8**	0.5 U	**17 J**	**19**	**2.6 J**	**27 J**	**17**	**9.1 J**	**6.7 J**	**6**	**72 J**	**13 J**	**5.7 J**	**0.8 J**	**9.8 J**	**3.2 J**	**5.1**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Cyclohexane	--	µg/L	**0.48 J**	**0.62 J**	**0.56**	0.5 U	0.5 U	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.37 J**	**0.36 J**	0.5 U	0.5 U	**0.17 J**	0.5 U	**0.22 J**	**0.084 J**	0.5 U	0.5 U	**140 J**	**13 J**	**3.7 J**	**0.085 J**	**2.8 J**	5 U	0.5 U
Dibromochloromethane	80	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	5 U	5 U	5 U	0.5 UJ	5 U	5 U	0.5 U
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Ethylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.84 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**13 J**	**1.2 J**	5 U	0.5 U	5 U	5 U	0.5 U
Isopropanol	--	µg/L	25 UJ	--	--	25 UJ	25 UJ	--	25 UJ	25 UJ	--	--	--	--	--	--	25 UJ	25 UJ	--	25 UJ	25 UJ	25 UJ	25 UJ	250 U	250 UJ	250 UJ	25 UJ	--	250 UJ	25 UJ
Isopropylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 UJ	0.5 U	5 U	5 U	0.5 U
m,p-Xylene	--	µg/L	0.5 U	**0.18 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.8 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Methyl Acetate	--	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	**3.2 J**	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Methylcyclohexane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Methylene chloride	5	µg/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	**0.89 J**	6.5 UJ	0.5 U	0.5 U	2.7 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	5 U	5 UJ	5 U	0.5 U	**1.7 J**	12 UJ	**0.75**
N-Hexane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	**1.6 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2 J**	0.5 U	0.5 U	**1.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	5 U	**85 J**	5 U	0.5 U	5 U	**7.8 J**	0.5 U
o-Xylene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.57 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Styrene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 UJ	0.5 U	5 U	5 U	0.5 U
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Tetrachloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.18 J**	**0.2 J**	0.5 U	0.5 U	**0.25 J**	**0.53 J**	**0.74 J**	**0.67**	**0.37 J**	**1.1 J**	**0.76**	**0.48 J**	**0.37 J**	**0.33 J**	**1.1 J**	5 U	5 U	**1.2 J**	5 U	5 U	**0.21 J**
Toluene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.052 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**21 J**	5 U	5 U	0.5 U	5 U	5 U	0.5 U
trans-1,2-Dichloroethene	10	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.21 J**	0.5 U	**0.31 J**	**0.42 J**	0.5 U	**0.49 J**	**0.36 J**	**0.16 J**	0.5 U	0.5 U	5 U	5 U	5 U	**0.055 J**	5 U	5 U	0.5 U
trans-1,3-Dichloropropene	--	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	5 U	5 U	5 U	0.5 UJ	5 U	5 U	0.5 U
Trichloroethene	5	µg/L	0.5 U	**47 J**	**34**	0.5 U	**44**	**40**	**0.09 J**	**52**	**59**	**1.4 J**	**36 J**	**53**	**4.9 J**	**53 J**	**91**	**15 J**	**71**	**63**	**26 J**	**26 J**	**20**	**180 J**	**21 J**	**8.6**	**3.2 J**	**69 J**	**57 J**	**77**
Trichlorofluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	5 U	5 U	5 U	0.5 U	5 U	5 U	0.5 U
Vinyl chloride	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.15 UJ	0.5 U	0.5 U	**5.5 J**	5 U	5 U	0.15 UJ	5 U	5 U	0.5 U

Notes:

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied

- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

[ ] **Bolded** and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

TABLE 10
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'C' Zone
(February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID:	MW-05-105			MW-10-110			MW-11-100			MW-23-110			MW-24-110							MW-25-110		
		Sample Date:	02/14/07	05/31/07	09/07/07	02/13/07	05/31/07	09/12/07	02/13/07	05/30/07	09/10/07	02/14/07	05/30/07	09/10/07	02/23/07	05/24/07	06/04/07	08/03/07	08/31/07	09/06/07	09/13/07	02/22/07	06/04/07	09/07/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	**SSRLs**	**Units**																						
1,1,1,2-Tetrachloroethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--	--	--	--
1,1,1-Trichloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	50 U	5 U	50 U	250 U	0.5 U	250 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	**0.053 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	**0.89**	25 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	6	µg/L	0.5 U	0.5 UJ	0.5 U	**0.17 J**	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	**6 J**	5 U	5 U	**5.4**	25 U	**5.3**	25 U	0.5 U	0.5 U	**0.22 J**
1,1-Dichloropropene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
1,2,3-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,2,3-Trichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	--	25 U	120 U	--	120 U	--	--	--
1,2,4-Trichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
1,2-Dibromo-3-Chloropropane	0.2	µg/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	25 U	25 U	5 U	25 U	120 U	0.5 U	120 U	0.5 U	0.5 U	0.5 U
1,2-Dibromoethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.12 J**	0.5 U	0.5 U	25 U	2.5 U	5 U	2.5 U	12 U	0.5 U	12 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
1,3-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
1,4-Dichlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
2-Butanone	--	µg/L	5 U	10 UJ	5 U	5 U	15 UJ	5 U	5 U	8.5 UJ	5 U	5 U	5 U	5 U	50 U	50 U	10 U	50 U	250 U	5 U	250 U	5 U	5 U	5 U
2-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--	--	--	--
2-Hexanone	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	10 U	50 U	250 U	5 U	250 U	5 U	5 U	5 U
4-Chlorotoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--	--	--	--
4-Methyl-2-pentanone	--	µg/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	50 U	50 U	10 U	50 U	250 U	5 U	250 U	5 U	5 U	5 U
Acetone	5,500	µg/L	5 UJ	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	50 U	250 U	10 U	250 U	1200 U	5 U	1200 U	5 U	**1.5 J**	5 U
Benzene	1	µg/L	0.5 U	0.5 U	0.5 U	**0.33 J**	0.5 U	**0.37 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	2.5 U	5 U	2.5 U	12 U	**0.35 J**	12 U	0.5 U	0.5 U	0.5 U
Bromobenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
Bromochloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Bromoform	--	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Bromomethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	25 U	50 U	5 U	50 U	250 U	0.5 U	250 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	50 U	5 U	50 U	250 U	**0.81**	250 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	2.5 U	5 U	2.5 U	12 U	0.5 U	12 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Chloroethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Chloroform	80	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	**0.9**	25 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	50 U	5 U	50 U	250 U	0.5 U	250 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	µg/L	**0.22 J**	0.5 U	**0.69**	**3 J**	**2.7**	**2.9 J**	0.5 U	0.5 U	0.5 U	**0.48 J**	**0.39 J**	**0.71**	**180 J**	**170**	**860 J**	**450**	**890**	**1100**	**840**	**2.6 J**	**5.8 J**	**6**
cis-1,3-Dichloropropene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	2.5 U	5 U	2.5 U	12 U	0.5 U	12 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	µg/L	0.5 U	0.5 U	0.5 U	**0.49 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**15 J**	--	**59 J**	--	--	**130**	--	**0.14 J**	0.5 U	0.5 U
Dibromochloromethane	80	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Dibromomethane	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
Dichlorodifluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Isopropanol	--	µg/L	25 UJ	--	25 UJ	25 U	--	--	25 U	--	25 UJ	25 UJ	--	25 UJ	1300 U	--	250 UJ	--	--	25 UJ	--	--	25 UJ	25 UJ
Isopropylbenzene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
m,p-Xylene	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	**0.094 J**	0.5 U	0.5 U
Methyl Acetate	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	--	5 U	--	--	0.5 U	--	0.5 U	0.5 U	0.5 U
Methylcyclohexane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	--	5 U	--	--	0.5 U	--	0.5 U	0.5 U	0.5 U
Methylene chloride	5	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	1.6 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.2**	0.5 U	25 U	50 U	17 UJ	50 U	250 U	**0.38 J**	250 U	0.5 U	4.9 UJ	0.5 U
Naphthalene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	--	50 U	250 U	--	250 U	--	--	--
N-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
N-Hexane	--	µg/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	1.2 UJ	0.5 U	25 U	--	**3.9 J**	--	25 U	0.5 U	25 U	**0.68 J**	0.5 U	0.5 U
N-Propylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
o-Xylene	--	µg/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
p-Isopropyltoluene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
Sec-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
Styrene	--	µg/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
T-Butylbenzene	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	5 U	25 U	--	25 U	--	--	--
Tert-Butyl Methyl Ether	13	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.076 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	0.5 U	25 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.05 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	**2.4 J**	5 U	25 U	**1.4**	25 U	**0.098 J**	0.5 U	0.5 U
Toluene	--	µg/L	**0.082 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	5 U	5 U	25 U	**0.27 J**	25 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	10	µg/L	0.5 U	0.5 U	0.5 U	**0.061 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	5 U	**9.8 J**	**7**	25 U	**8 J**	25 U	**0.15 J**	**0.32 J**	**0.2 J**
trans-1,3-Dichloropropene	--	µg/L	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	25 U	2.5 U	5 U	2.5 U	12 U	0.5 U	12 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	µg/L	**0.86 J**	**1.8**	**3.8**	**15 J**	**14**	**13**	**0.44 J**	**0.53**	**0.41 J**	**0.72 J**	**0.47 J**	**1.5**	**2400**	**560**	**7900 J**	**3500**	**2500**	**3800**	**2400**	**45**	**78 J**	**92**
Trichlorofluoromethane	--	µg/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	25 U	50 U	5 U	50 U	250 U	0.5 U	250 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	--	µg/L	--	--	--	--	--	--	--	--	--	--	--	--	--	50 U	--	50 U	250 U	--	250 U	--	--	--
Vinyl chloride	0.5	µg/L	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	**9.4 J**	**3.9**	**35 J**	**20**	**47**	**51 J**	**36**	0.5 U	0.5 U	0.5 U

Notes:

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied

- Results were detected below reporting limits;
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

[ ] Bolded and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

TABLE 11
Volatile Organic Compounds (VOCs) in Groundwater
Exposition 'D' and 'E' Zones (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Well ID	MW-05-135 ('D' Zone)			MW-07-130 ('D' Zone)			MW-12-150 ('D' Zone)			MW-23-145 ('D' Zone)			MW-24-140 ('D' Zone)						MW-25-130 ('D' Zone)			MW-10-170 ('E' Zone)		
		Sample Date	02/13/07	05/31/07	09/07/07	02/13/07	05/30/07	09/10/07	02/13/07	06/01/07	09/12/07	02/14/07	05/30/07	09/10/07	02/23/07	06/04/07	08/15/07	08/31/07	09/06/07	09/13/07	02/21/07	06/04/07	09/07/07	02/13/07	05/31/07	09/12/07
		Sample Type:	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Analyte	SSRLs	Units																								
1,1,1-Trichloroethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2,2-Tetrachloroethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1,2-Trichloroethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,1-Dichloroethene	6	ug/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	**0.061 J**	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	**0.19 J**	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 UJ
1,1-Dichloropropene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
1,2,3-Trichlorobenzene	--	ug/L	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ
1,2,3-Trichloropropane	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	5 U	--	5 U	--	--	--	--	--	--
1,2,4-Trichlorobenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2,4-Trimethylbenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
1,2-Dibromo-3-Chloropropane	0.2	ug/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	5 U	5 U	0.5 U	5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
1,2-Dibromoethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichlorobenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethane	0.5	ug/L	0.5 U	0.5 U	0.5 U	**0.29 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloropropane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3,5-Trimethylbenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
1,3-Dichlorobenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,3-Dichloropropane	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
1,4-Dichlorobenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,2-Dichloropropane	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
2-Butanone	--	ug/L	5 U	9.7 UJ	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	13 UJ	5 U
2-Hexanone	--	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	--	ug/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	10 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	5,500	ug/L	5 U	5 UJ	5 U	5 UJ	5 UJ	5 U	5 U	5 U	5 U	5 U	5 UJ	5 U	5 U	5 U	50 U	50 U	5 U	50 U	5 UJ	5 U	5 U	5 UJ	5 UJ	5 U
Benzene	1	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.13 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.57 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromobenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
Bromochloromethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromodichloromethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.78 J**	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Bromoform	--	ug/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U
Bromomethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon disulfide	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.16 J**	0.5 U	10 U	10 U	0.5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Carbon tetrachloride	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chlorobenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	80	ug/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.1 J**	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloromethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.13 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
cis-1,2-Dichloroethene	6	ug/L	0.5 U	0.5 U	0.5 U	**0.4 J**	**0.42 J**	**0.38 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.5 J**	0.5 U	1 U	1 U	0.5 U	1 U	**0.24 J**	**0.49 J**	**0.37 J**	0.5 U	0.5 U	0.5 U
cis-1,3-Dichloropropene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Cyclohexane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.6 J**	0.5 U	--	--	0.5 U	--	**0.69 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromochloromethane	80	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1 J**	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Dibromomethane	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
Dichlorodifluoromethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Ethylbenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	**0.29 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Isopropanol	--	ug/L	25 U	--	25 UJ	25 U	--	25 UJ	25 U	25 UJ	--	--	--	25 UJ	--	25 UJ	--	--	25 UJ	--	--	25 UJ	25 UJ	25 U	--	--
Isopropylbenzene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
m p-Xylene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	**0.49 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methyl Acetate	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U	--	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylcyclohexane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	--	--	0.5 U	--	**0.11 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Methylene chloride	5	ug/L	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	1.5 UJ	0.5 U	0.5 U	2.2 UJ	0.5 U	0.5 UJ	0.5 UJ	10 U	10 U	0.5 U	10 U	0.5 U	1.8 UJ	0.5 U	0.5 U	1.3 UJ	0.5 U
Naphthalene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	10 U	--	10 U	--	--	--	--	--	--
N-Butylbenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
N-Hexane	--	ug/L	0.5 U	0.5 UJ	0.5 U	0.5 U	1.1 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.74 UJ	0.5 U	**0.71 J**	**3.7 J**	1 U	1 U	0.5 U	1 U	**1.3 J**	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
N-Propylbenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
o-Xylene	--	ug/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	**0.17 J**	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
p-Isopropyltoluene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
Sec-Butylbenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
Styrene	--	ug/L	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U
T-Butylbenzene	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1 U	1 U	--	1 U	--	--	--	--	--	--
Tert-Butyl Methyl Ether	13	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Tetrachloroethene	5	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.22 J**	0.5 U	1 U	1 U	0.5 U	1 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Toluene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.21 J**	0.5 U	1 U	1 U	0.5 U	1 U	**0.93 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,2-Dichloroethene	10	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.39 J**	0.5 U	1 U	1 U	0.5 U	1 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
trans-1,3-Dichloropropene	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Trichloroethene	5	ug/L	**1.5 J**	**2.3**	**3.8**	**6.8 J**	**6.5**	**4.7**	0.5 U	0.5 U	0.5 U	**0.15 J**	**0.18 J**	0.5 U	**80 J**	**0.94 J**	1 U	1 U	**1.3**	**1.6**	**7 J**	**32**	**12**	0.5 U	0.5 U	0.5 U
Trichlorofluoromethane	--	ug/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	10 U	10 U	0.5 U	10 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Vinyl acetate	--	ug/L	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	10 U	--	10 U	--	--	--	--	--	--
Vinyl chloride	0.5	ug/L	0.5 UJ	0.5 U	0.5 U	0.5 UJ	0.5 UJ	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 UJ	0.5 U	0.5 U

Notes.

U - Analyte was not detected above the reporting limit

J - Results are estimated only if at least one of the following criteria applied

- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample,
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

SSRLs - Site specific remediation levels

"--" - Not available

µg/L - microgram per liter

Bold - Bold values indicate detections

Bolded and highlighted values indicate results exceeding SSRLs

1 Rejected concentrations are not reported in this table

TABLE 12
1,4-Dioxane in Groundwater (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

	1,4-Dioxane Concentration (µg/L)				
Sampling Event:	**1Q07**	**2Q07**		**3Q07**	
Analysis Method:	**CLP**	**CLP**	**SW8270C**	**CLP**	**SW8270C**
Well ID					
Perched Zone Groundwater Wells (SSRL: 3.0 µg/L for 1,4-Dioxane)					
B-01	--	**30 J**	**39**	--	2 U
B-07	--	--	2 U	--	2 U
B-13	**27 J**	Not sampled (dry)		Not sampled (dry)	
B-17	--	--	2 U	--	--
B-18	--	--	8 U	--	2 U
B-19	--	--	2 U	--	--
B-20	--	--	**4.6**	--	**3.8**
B-21	--	--	**23**	--	**51**
B-22	--	100 U	16 U	Not sampled (dry)	
B-30	--	--	2 U	--	--
B-31	--	100 U	2 U	--	--
B-32	--	--	2 U	--	--
B-36	--	100 U	8 U	Not sampled (dry)	
B-37	--	--	2 U	--	2 U
B-38	--	--	2 U	--	2 U
B-39	--	--	2 U	--	2 U
PA-05	--	--	2 U	--	--
PB-01	--	--	**12**	--	**5.6**
PB-02	--	--	2 U	--	--
PB-03	--	--	2 U	--	--
PB-04	--	--	2 U	--	--
PB-05	--	--	2 U	--	--
PB-07	--	--	2 U	--	--
PC-05	--	--	**24**	--	**9.5**
PC-06	--	**50 J**	**71**	--	**5.1**
PD-05	--	**49 J**	**63**	--	**67**
PD-06	**33 J**	**30 J**	**39**	--	**310**
PD-07	--	--	2 U	--	--
PD-08	**720 J**	**1,900 J**	**2,800**	--	**26**
PD-09	--	--	2 U	--	--
SV-01	--	--	2 U	--	2 U
SV-03	--	--	2 U	--	--
SV-05	--	--	2 U	--	2 U
Exposition 'A' Zone Groundwater Wells					
DA-01	--	100 U	**5.8**	100 U	**13**
DA-03	--	1,000 U	--	--	--
DA-05	--	100 U	--	100 U	--
DA-06	**6.1 J**	--	--	100 U	--
DA-07	--	100 U	**12**	Not sampled (dry)	
DA-08	--	100 U	**1.5 J**	100 U	--
DA-11	--	--	--	100 U	--
MW-21-80	--	100 U	--	100 U	--
Exposition 'B' Zone Groundwater Wells					
DB-01	--	100 U	--	100 U	**24**
DB-02	--	100 U	--	100 U	--
DB-03	--	100 U	--	100 U	--
DB-04	--	100 U	--	100 U	--
DB-05	--	100 U	--	100 U	--
DB-06	--	100 U	**7.1**	--	**5**
DB-07	--	100 U	--	--	--
DB-08	--	100 U	--	100 U	--
DB-09	--	100 U	--	100 U	--
DB-10	--	100 U	--	100 UJ	--
DB-11	--	100 U	--	100 U	--
DB-12	--	100 U	--	100 U	--

TABLE 12
1,4-Dioxane in Groundwater (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

	1,4-Dioxane Concentration (µg/L)				
Sampling Event:	**1Q07**	**2Q07**		**3Q07**	
Analysis Method:	**CLP**	**CLP**	**SW8270C**	**CLP**	**SW8270C**
Well ID					
Exposition 'B' Zone Groundwater Wells					
MW-02-95	--	100 U	--	100 U	--
MW-03-90	--	100 U	--	1,600 U	--
MW-04-90	--	100 U	--	100 U	--
MW-13-85	--	100 U	--	--	--
MW-19-90	--	100 U	--	1,000 U	--
MW-20-85	--	--	2 U	--	**3**
MW-26-90	--	100 U	--	100 U	--
RW-01-95	--	100 U	--	100 U	--
Exposition 'AB' Zone Groundwater Wells					
DAB-08	--	100 U	**7.3**	--	**14**
MW-05-85	--	100 U	--	--	--
Exposition 'C' Zone Groundwater Wells					
MW-23-110	--	--	**13**	--	**4.7**
MW-24-110	--	100 U	--	--	--
MW-25-110	**2.9 J**	--	--	--	--

Notes:

"--" - Not available; Please note that CLP results for 1,4-dioxane that were rejected during data validation are not reported in this table,

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied.

- Results were detected below reporting limits;
- Analyte Results differed significantly between onginal sample and duplicate sample;
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

1Q07 - First quarter of 2007

CLP - USEPA Contract Laboratory Program methods: SOM01.1/SOM01.2

SSRL - Site specific remediation level

µg/L - microgram per liter

Bold - Bold values indicate detections

[ ] **Bolded** and highlighted values indicate results exceeding SSRLs

TABLE 13
Field Duplicate Results in Groundwater (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Sample Type:	N	FD	RPD	Data Qualified?
		Units:	µg/L	µg/L	%	--
Station ID	Sample Date	Analyte				
Volatile Organic Compounds by SOM01.1 or SOM01.2						
Perched Zone Groundwater Wells						
B-17	06/13/07	1,1-Dichloroethane	3	2.9 J	3.39	--
B-17	06/13/07	cis-1,2-Dichloroethene	1.1	1.1 J	0.00	--
B-17	06/13/07	Ethylbenzene	0 5 U	0.099 J	NC	--
B-17	06/13/07	Tetrachloroethene	3.8	3.5 J	8.22	--
B-17	06/13/07	Trichloroethene	0.89	0 89 J	0.00	--
B-19	02/20/07	1,1,2,2-Tetrachloroethane	0 12 J	0.5 U	NC	--
B-19	02/20/07	Benzene	0.5 U	0.074 J	NC	--
B-19	02/20/07	Chlorobenzene	0.5 U	0 073 J	NC	--
B-19	02/20/07	Chloroethane	0 062 J	0 5 U	NC	--
B-19	02/20/07	Cyclohexane	1.6	2.2	31 6	--
B-19	02/20/07	Ethylbenzene	0.68	0.67	1.48	--
B-19	02/20/07	m,p-Xylene	0.93	0 93	0.00	--
B-19	02/20/07	Methylcyclohexane	0.71	0.72	1.40	--
B-19	02/20/07	N-Hexane	25	23	8.33	--
B-19	02/20/07	o-Xylene	0.13 J	0.14 J	7.41	--
B-19	02/20/07	Tetrachloroethene	11	11	0.00	--
B-19	02/20/07	Toluene	2.8 J	5 J	56.4	YES
B-19	02/20/07	Trichloroethene	1 4	1.4	0.00	--
B-37	06/14/07	1,1-Dichloroethane	0.99 J	0.97 J	2.04	--
B-37	06/14/07	m,p-Xylene	0.26 J	0.23 J	12.2	--
B-37	06/14/07	Tetrachloroethene	2 J	1 9 J	5.13	--
B-37	06/14/07	Trichloroethene	0.26 J	0 26 J	0.00	--
PA-05	06/12/07	1,1-Dichloroethane	0.93 J	0.86 J	7.82	--
PA-05	06/12/07	cis-1,2-Dichloroethene	5.1 J	3.2 J	45.8	YES
PA-05	06/12/07	Ethylbenzene	0 11 J	0.5 U	NC	--
PA-05	06/12/07	m,p-Xylene	0.31 J	0.5 U	NC	--
PA-05	06/12/07	Methylene chloride	3 J	0.5 UJ	NC	--
PA-05	06/12/07	N-Hexane	0 83 J	0.5 U	NC	--
PA-05	06/12/07	o-Xylene	0.13 J	0.5 U	NC	--
PA-05	06/12/07	Tetrachloroethene	0.21 J	0.15 J	33.3	--
PA-05	06/12/07	trans-1,2-Dichloroethene	0.38 J	0.21 J	57.6	YES
PA-05	06/12/07	Trichloroethene	11 J	7.9 J	32.8	--
PB-01	06/11/07	1,1-Dichloroethane	0.48 J	0.54 J	11.8	--
PB-01	06/11/07	2-Butanone	1.6 J	5 U	NC	--
PB-01	06/11/07	Benzene	5.1 J	6.5 J	24.1	--
PB-01	06/11/07	Chloroethane	7.7 J	9.7 J	23.0	--
PB-01	06/11/07	cis-1,2-Dichloroethene	0.92 J	1 1 J	17.8	--
PB-01	06/11/07	Cyclohexane	1.6 J	1.9 J	17 1	--
PB-01	06/11/07	Isopropylbenzene	1.7 J	2 J	16 2	--
PB-01	06/11/07	m,p-Xylene	4.8 J	6.6 J	31.6	--
PB-01	06/11/07	Methylcyclohexane	1.7 J	2.4 J	34.1	--
PB-01	06/11/07	N-Hexane	0.5 U	5.6 J	NC	YES
PB-01	06/11/07	Toluene	0.15 J	0.5 U	NC	--
PB-01	06/11/07	Trichloroethene	1.5 J	1.2 J	22.2	--
PB-05	02/16/07	1,1,2-Trichloroethane	0.5 U	0.11 J	NC	--
PB-05	02/16/07	1,1-Dichloroethane	0.058 J	0.5 U	NC	--
PB-05	02/16/07	1,1-Dichloroethene	0.5 U	0.1 J	NC	--
PB-05	02/16/07	2-Butanone	5 U	1.2 J	NC	--
PB-05	02/16/07	4-Methyl-2-pentanone	5 U	0.13 J	NC	--
PB-05	02/16/07	Chloroethane	0.5 U	0.2 J	NC	--
PB-05	02/16/07	cis-1,2-Dichloroethene	0.23 J	0.25 J	8.33	--
PB-05	02/16/07	cis-1,3-Dichloropropene	0.5 U	0.12 J	NC	--
PB-05	02/16/07	Cyclohexane	0.43 J	0.41 J	NC	--
PB-05	02/16/07	Methyl Acetate	0 5 U	6.2 J	NC	--
PB-05	02/16/07	N-Hexane	0.18 J	16 J	196	YES
PB-05	02/16/07	Tetrachloroethene	11 J	11 J	0.00	--
PB-05	02/16/07	trans-1,3-Dichloropropene	0.5 UJ	0.067 J	NC	--
PB-05	02/16/07	Trichloroethene	2.5 J	2.4 J	4.08	--
PC-05	02/19/07	1,1-Dichloroethane	0.31 J	0.5 U	NC	--
PC-05	02/19/07	Benzene	0.32 J	0.33 J	3.08	--
PC-05	02/19/07	Chloroethane	0 085 J	0.09 J	5.71	--
PC-05	02/19/07	Chloromethane	0.5 U	0.24 UJ	NC	--

TABLE 13
Field Duplicate Results in Groundwater (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Sample Type:	N	FD	RPD	Data Qualified?
		Units:	µg/L	µg/L	%	--
Station ID	Sample Date	Analyte				
Volatile Organic Compounds by SOM01.1 or SOM01.2						
Perched Zone Groundwater Wells						
PC-05	02/19/07	cis-1,2-Dichloroethene	14 J	14 J	0.00	--
PC-05	02/19/07	Cyclohexane	1.1 J	1.1 J	0.00	--
PC-05	02/19/07	Methylcyclohexane	4.6 J	4.5 J	2 20	--
PC-05	02/19/07	Tetrachloroethene	0.15 J	0 15 J	0.00	--
PC-05	02/19/07	Toluene	0.065 J	0.061 J	6.35	--
PC-05	02/19/07	trans-1,2-Dichloroethene	1.2 J	1.3 J	8.00	--
PC-05	02/19/07	Trichloroethene	3.1 J	3 1 J	0.00	--
PC-05	02/19/07	Vinyl chloride	6.2 J	6 1 J	1.63	--
PC-05	09/14/07	1,1-Dichloroethane	0.31 J	0.31 J	0.00	--
PC-05	09/14/07	cis-1,2-Dichloroethene	3.3	3.5	5.88	--
PC-05	09/14/07	Trichloroethene	2.3	2.3	0.00	--
SV-05	02/20/07	1,1-Dichloroethane	5.1 J	4 2 J	19.4	--
SV-05	02/20/07	Benzene	2.1 J	1.8 J	15.4	--
SV-05	02/20/07	Carbon disulfide	0.063 J	0.057 UJ	NC	--
SV-05	02/20/07	Chloroethane	0.32 J	0.23 J	32.7	--
SV-05	02/20/07	cis-1,2-Dichloroethene	6 J	4.8 J	22 2	--
SV-05	02/20/07	Cyclohexane	0.86 J	0.66 UJ	NC	--
SV-05	02/20/07	Ethylbenzene	0.38 J	0.33 J	14.1	--
SV-05	02/20/07	Isopropylbenzene	0.91 J	0.81 J	11.6	--
SV-05	02/20/07	m,p-Xylene	0.089 J	0.081 J	9 41	--
SV-05	02/20/07	Methylcyclohexane	0.85 J	0 5 U	NC	--
SV-05	02/20/07	o-Xylene	0.29 J	0.23 J	23.1	--
SV-05	02/20/07	Tetrachloroethene	0.14 J	0.14 J	0.00	--
SV-05	02/20/07	Toluene	0.42 J	0.35 UJ	NC	--
SV-05	02/20/07	trans-1,2-Dichloroethene	1.4 J	1 3 J	7.41	--
SV-05	02/20/07	Trichloroethene	3.1 J	2.7 J	13 8	--
SV-05	02/20/07	Vinyl chloride	4.7 J	4 1 J	13.6	--
Exposition 'A' Zone Groundwater Wells						
MW-21-80	09/14/07	1,1-Dichloroethene	5 U	2.2 J	NC	--
MW-21-80	09/14/07	cis-1,2-Dichloroethene	720 J	590 J	19.8	--
MW-21-80	09/14/07	trans-1,2-Dichloroethene	5.6 J	6.5 J	14.9	--
MW-21-80	09/14/07	Trichloroethene	120	130	8.00	--
MW-21-80	09/14/07	Vinyl chloride	23	34	38.6	--
Exposition 'B' Zone Groundwater Wells						
DB-01	02/15/07	Benzene	8.5 J	9.9 J	15 2	--
DB-01	02/15/07	Chloroform	4.4 J	4.4 J	0.00	--
DB-01	02/15/07	cis-1,2-Dichloroethene	100 J	120 J	18.2	--
DB-01	02/15/07	Cyclohexane	5 U	14 J	NC	--
DB-01	02/15/07	Tetrachloroethene	1.6 J	1 3 J	20.7	--
DB-01	02/15/07	Toluene	0.76 J	0.79 J	3 87	--
DB-01	02/15/07	trans-1,2-Dichloroethene	3.5 J	5 U	NC	--
DB-01	02/15/07	trans-1,3-Dichloropropene	0.75 J	5 U	NC	--
DB-01	02/15/07	Trichloroethene	930 J	840 J	10.2	--
DB-06	09/13/07	Chloroform	130 J	120	8 00	--
DB-06	09/13/07	cis-1,2-Dichloroethene	41 J	40 J	2.47	--
DB-06	09/13/07	Trichloroethene	290	330	12.9	--
DB-07	09/13/07	1,1-Dichloroethane	2.7 J	2.6 J	3 77	--
DB-07	09/13/07	1,1-Dichloroethene	3.3 J	3.5 J	5.88	--
DB-07	09/13/07	2-Butanone	31	24	25.5	--
DB-07	09/13/07	Acetone	130	130	0.00	--
DB-07	09/13/07	cis-1,2-Dichloroethene	200 J	290	36 7	--
DB-07	09/13/07	Cyclohexane	23	24	4.26	--
DB-07	09/13/07	trans-1,2-Dichloroethene	2.5 J	2.6 J	3.92	--
DB-07	09/13/07	Trichloroethene	290 J	180 J	46.8	YES
DB-11	06/06/07	cis-1,2-Dichloroethene	56 J	46 J	19.6	--
DB-11	06/06/07	Cyclohexane	4.3 J	5 3 J	20.8	--
DB-11	06/06/07	Methylene chloride	5 UJ	12 J	NC	--
DB-11	06/06/07	Tetrachloroethene	3.4 J	2.6 J	26.7	--
DB-11	06/06/07	trans-1,2-Dichloroethene	3.5 J	2.7 J	25.8	--
DB-11	06/06/07	Trichloroethene	2,400 J	2,600 J	8.00	--
MW-13-85	06/01/07	cis-1,2-Dichloroethene	4.6 J	5 J	8.33	--
MW-13-85	06/01/07	N-Hexane	7.6 J	13 J	52.4	YES
MW-13-85	06/01/07	Trichloroethene	34 J	36 J	5.71	--

TABLE 13
Field Duplicate Results in Groundwater (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Sample Type:	N	FD	RPD	Data Qualified?
		Units:	µg/L	µg/L	%	--
Station ID	**Sample Date**	**Analyte**				
Volatile Organic Compounds by SOM01.1 or SOM01.2						
Exposition 'B' Zone Groundwater Wells						
MW-22-90	02/16/07	1,1-Dichloroethane	0.5 U	0 4 J	NC	--
MW-22-90	02/16/07	1,2-Dichloroethane	0.13 J	0 5 U	NC	--
MW-22-90	02/16/07	cis-1,2-Dichloroethene	1.1 J	1 J	9.52	--
MW-22-90	02/16/07	Cyclohexane	0.15 J	0.13 J	14.3	--
MW-22-90	02/16/07	N-Hexane	0.46 J	0.25 J	59.2	YES
MW-22-90	02/16/07	Tetrachloroethene	0.75 J	0.79 J	5 19	--
MW-22-90	02/16/07	Trichloroethene	1 2 J	1 3 J	8.00	--
MW-22-90	09/11/07	1,1-Dichloroethane	1.2	1 2	0 00	--
MW-22-90	09/11/07	1,1-Dichloroethene	8	8.8	9 52	--
MW-22-90	09/11/07	Benzene	0.24 J	0.24 J	0.00	--
MW-22-90	09/11/07	cis-1,2-Dichloroethene	61 J	65 J	6.35	--
MW-22-90	09/11/07	Cyclohexane	3.2	3.5	8.96	--
MW-22-90	09/11/07	Tetrachloroethene	1.7	1.7	0.00	--
MW-22-90	09/11/07	trans-1,2-Dichloroethene	0.71 J	0.86 J	19.1	--
MW-22-90	09/11/07	Trichloroethene	14	15	6 90	--
MW-22-90	09/11/07	Vinyl chloride	3.5	3.8	8.22	--
MW-26-90	02/22/07	cis-1,2-Dichloroethene	120 J	120 J	0 00	--
MW-26-90	02/22/07	Tetrachloroethene	7.6 J	6.4 J	17.1	--
MW-26-90	02/22/07	Trichloroethene	13,000 J	13,000 J	0.00	--
RW-01-95	06/05/07	1,1-Dichloroethane	1.2 J	1 J	18.2	--
RW-01-95	06/05/07	Carbon disulfide	1.6 J	1.2 J	28.6	--
RW-01-95	06/05/07	cis-1,2-Dichloroethene	1,500	1,400	6.90	--
RW-01-95	06/05/07	Cyclohexane	120 J	98 J	20.2	--
RW-01-95	06/05/07	Tetrachloroethene	3.9 J	3.3 J	16.7	--
RW-01-95	06/05/07	Toluene	1 J	5 U	NC	--
RW-01-95	06/05/07	Trichloroethene	7,500	6,700	11.3	--
RW-01-95	06/05/07	Vinyl chloride	60 J	51 J	16.2	--
Exposition 'AB' Zone Groundwater Wells						
DAB-01	06/07/07	1,1-Dichloroethane	0.11 J	0.5 U	NC	--
DAB-01	06/07/07	Benzene	0.3 J	0 3 J	0 00	--
DAB-01	06/07/07	Chloroform	1.4 J	1 3 J	7 41	--
DAB-01	06/07/07	cis-1,2-Dichloroethene	3.7 J	3.4 J	8.45	--
DAB-01	06/07/07	Cyclohexane	0.62 J	0.58 J	6.67	--
DAB-01	06/07/07	m,p-Xylene	0.18 J	0.5 U	NC	--
DAB-01	06/07/07	Trichloroethene	47 J	32 J	38 0	--
DAB-02	06/06/07	Chloroform	3.2	3 J	6.45	--
DAB-02	06/06/07	cis-1,2-Dichloroethene	3.8	3.3 J	14.1	--
DAB-02	06/06/07	Cyclohexane	0.5 U	0.39 J	NC	--
DAB-02	06/06/07	m,p-Xylene	0.5 U	0.24 J	NC	--
DAB-02	06/06/07	Methylene chloride	0.5 U	1.1 J	NC	--
DAB-02	06/06/07	N-Hexane	1.6 J	0.5 U	NC	YES
DAB-02	06/06/07	Trichloroethene	44	36	20.0	--
DAB-05	02/14/07	1,1-Dichloroethane	0.15 J	0.19 J	23.5	--
DAB-05	02/14/07	1,2-Dichloropropane	0.66 J	0.5 U	NC	--
DAB-05	02/14/07	Chloroform	42 J	39 J	7.41	--
DAB-05	02/14/07	Cyclohexane	0.36 J	0.39 J	8.00	--
DAB-05	02/14/07	Methylene chloride	0.89 J	0.91 J	2.22	--
DAB-05	02/14/07	Tetrachloroethene	0.53 J	0.5 J	5 83	--
DAB-05	02/14/07	Toluene	0.052 J	0.5 U	NC	--
DAB-05	02/14/07	Trichloroethene	4.9 J	5 J	2.02	--
DAB-08	02/21/07	1,1,2,2-Tetrachloroethane	5 U	0.63 J	NC	--
DAB-08	02/21/07	1,1-Dichloroethane	14 J	15 J	6.90	--
DAB-08	02/21/07	1,1-Dichloroethene	4 J	4.2 J	4.88	--
DAB-08	02/21/07	Benzene	4.4 J	4.5 J	2.25	--
DAB-08	02/21/07	cis-1,2-Dichloroethene	72 J	70 J	2.82	--
DAB-08	02/21/07	Cyclohexane	140 J	140 J	0.00	--
DAB-08	02/21/07	Ethylbenzene	13 J	13 J	0.00	--
DAB-08	02/21/07	Tetrachloroethene	1.1 J	1 J	9.52	--
DAB-08	02/21/07	Toluene	21 J	21 J	0.00	--
DAB-08	02/21/07	Trichloroethene	180 J	180 J	0.00	--
DAB-08	02/21/07	Vinyl chloride	5.5 J	5.8 J	5 31	--

TABLE 13
Field Duplicate Results in Groundwater (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

		Sample Type:	N	FD	RPD	Data Qualified?
		Units:	µg/L	µg/L	%	--
Station ID	Sample Date	Analyte				
Volatile Organic Compounds by SOM01.1 or SOM01.2						
Exposition 'AB' Zone Groundwater Wells						
MW-05-85	02/14/07	Chloroform	94 J	94 J	0.00	--
MW-05-85	02/14/07	cis-1,2-Dichloroethene	9 8 J	10 J	2.02	--
MW-05-85	02/14/07	Cyclohexane	2.8 J	2.8 J	0.00	--
MW-05-85	02/14/07	Methylene chloride	1 7 J	1.5 J	12.5	--
MW-05-85	02/14/07	Tetrachloroethene	5 U	0.52 J	NC	--
MW-05-85	02/14/07	Trichloroethene	69 J	70 J	1 44	--
Exposition 'C' Zone Groundwater Wells						
MW-05-105	05/31/07	1,2-Dichloropropane	0 5 U	0.57 J	NC	--
MW-05-105	05/31/07	Chloroform	0.5 U	0.75 J	NC	--
MW-05-105	05/31/07	Trichloroethene	1.8	2	10.5	--
MW-10-110	09/12/07	Benzene	0 37 J	0 36 J	2.74	--
MW-10-110	09/12/07	cis-1,2-Dichloroethene	2.9 J	2 8	3.51	--
MW-10-110	09/12/07	Cyclohexane	0 5 U	0 47 J	NC	--
MW-10-110	09/12/07	Trichloroethene	13	12	8 00	--
MW-11-100	02/13/07	1,1-Dichloroethene	0.5 U	0 07 J	NC	--
MW-11-100	02/13/07	Tert-Butyl Methyl Ether	0.076 J	0.081 J	6.37	--
MW-11-100	02/13/07	Tetrachloroethene	0.05 J	0.055 J	9.52	--
MW-11-100	02/13/07	Trichloroethene	0.44 J	0.44 J	0.00	--
MW-11-100	09/10/07	Trichloroethene	0.41 J	0.45 J	9.30	--
MW-24-110	02/23/07	1,1-Dichloroethene	6 J	25 U	NC	--
MW-24-110	02/23/07	Acetone	50 U	4.9 J	NC	--
MW-24-110	02/23/07	cis-1,2-Dichloroethene	180 J	180 J	0.00	--
MW-24-110	02/23/07	Cyclohexane	15 J	25 U	NC	--
MW-24-110	02/23/07	trans-1,2-Dichloroethene	25 U	4.1 J	NC	--
MW-24-110	02/23/07	Trichloroethene	2,400	2,300	4.26	--
MW-24-110	02/23/07	Vinyl chloride	9 4 J	25 U	NC	--
MW-25-110	06/04/07	Acetone	1.5 J	5 U	NC	--
MW-25-110	06/04/07	cis-1,2-Dichloroethene	5.8 J	6.1 J	5.04	--
MW-25-110	06/04/07	trans-1,2-Dichloroethene	0.32 J	0.32 J	0.00	--
MW-25-110	06/04/07	Trichloroethene	78 J	120 J	42 4	YES
Exposition 'D' Zone Groundwater Wells						
MW-07-130	05/30/07	cis-1,2-Dichloroethene	0.42 J	0.38 J	10 0	--
MW-07-130	05/30/07	Trichloroethene	6.5	6.1	6.35	--
MW-24-140	09/06/07	cis-1,2-Dichloroethene	0.5 U	0.48 J	NC	--
MW-24-140	09/06/07	Trichloroethene	1.3	1.2	8.00	--
MW-25-130	09/07/07	cis-1,2-Dichloroethene	0.37 J	0.5 U	NC	--
MW-25-130	09/07/07	Trichloroethene	12	12	0.00	--
1,4-Dioxane by SW8270C						
Exposition 'A' Zone Groundwater Wells						
DA-01	09/17/07	1,4-Dioxane	13	14	7.41	--
PD-06	06/12/07	1,4-Dioxane	39	40	2.53	--
Exposition 'B' Zone Groundwater Wells						
DB-06	09/13/07	1,4-Dioxane	5	5.6	11.3	--
Exposition 'C' Zone Groundwater Wells						
MW-23-110	05/30/07	1,4-Dioxane	13	12	8 00	--

Notes:

U - Analyte was not detected above the reporting limit

J - Results were qualified as estimated if at least one of the following criteria applied
- Results were detected below reporting limits,
- Analyte Results differed significantly between original sample and duplicate sample;
- Results could have been affected by sample matrix interferences, technical problems with instrument of analysis, and/or field or laboratory activities indicated during QC analysis

N - Normal field sample

FD - Field duplicate sample

NC - Not calculated

RPD - Relative percent difference

µg/L - microgram per liter

1. Rejected concentrations are not reported in this table and only analytes with positive detections are shown in this table
2. Samples were analyzed for volatile organic compounds by a United States Environmental Protection Agency Contract Laboratory Program (CLP) laboratory using method SOM01 1 prior to June 2007 or SOM01 2 after June 2007 Samples were analyzed for 1,4-dioxane by Calscience Environmental Laboratories using method SW8270C.
3. Data were qualified if the RPD was greater than 40% or if the analyte was positively detected in the normal sample, but not detected above the reporting limit in the field duplicate sample and vice versa

TABLE 14
Summary of Detections in Trip Blank and Method Blanks (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Analyte	Concentration (µg/L)	Sample Type	Sample Date	Batch ID	Sample ID	Analysis Date	Analysis Time	Analysis Method*
1,1,2-Trichloro-1,2,2-Trifluoroethane	2.8 J	Trip Blank	2/13/07	Y34Y0	Y34Z6	2/15/07	15 50	TVOL
1,2,3-Trichlorobenzene	0.56 J	Method Blank	--	Y34Y0	VHBLK09RE	2/15/07	16.05	CVOL
2-Butanone	1.5 J	Trip Blank	2/13/07	Y34Y0	Y34Z6	2/15/07	15 50	TVOL
Acetone	1 3 J	Method Blank	--	Y34Y0	VBLK15	2/15/07	8:35	TVOL
Chloroform	0.097 J	Method Blank	--	Y34Y0	VBLK15	2/15/07	8.35	TVOL
Chloromethane	0.34 J	Trip Blank	2/13/07	Y34Y0	Y34Z6	2/15/07	15 50	TVOL
Toluene	0.067 J	Trip Blank	2/13/07	Y34Y0	Y34Z6	2/15/07	15.50	TVOL
Trichlorofluoromethane	0 26 J	Trip Blank	2/13/07	Y34Y0	Y34Z6	2/15/07	15 50	TVOL
1,1-Dichloroethene	0.066 J	Method Blank	--	Y34Y0	VBLK19	2/19/07	10:28	TVOL
Acetone	0 83 J	Trip Blank	2/16/07	Y34Y0	Y3546	2/19/07	11:47	TVOL
Carbon disulfide	0 07 J	Trip Blank	2/16/07	Y34Y0	Y3546	2/19/07	11.47	TVOL
Chloroform	0 092 J	Method Blank	--	Y34Y0	VBLK19	2/19/07	10 28	TVOL
Vinyl chloride	0 26 J	Trip Blank	2/16/07	Y34Y0	Y3546	2/19/07	11.47	TVOL
Chloroform	0.18 J	Method Blank	--	Y34Z0	VBLK2C	2/20/07	18 50	TVOL
Acetone	0 097 J	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19 34	TVOL
Carbon disulfide	0 097 J	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19 34	TVOL
Chloroform	0 11 J	Method Blank	--	Y3580	VBLK21	2/21/07	17 42	TVOL
Chloroform	0 11 J	Method Blank	--	Y3560	VBLK21	2/21/07	17 42	TVOL
Chloromethane	0 43 J	Method Blank	--	Y3560	VBLK21	2/21/07	17:42	TVOL
Chloromethane	0 43 J	Method Blank	--	Y3580	VBLK21	2/21/07	17 42	TVOL
Cyclohexane	0 074 J	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19 34	TVOL
Cyclohexane	2 5 J	Method Blank	--	Y3529	VHBLK13	2/21/07	16 43	CVOL
Methylene chloride	0 3 J	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19 34	TVOL
N-Hexane	0 88	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19.34	TVOL
Toluene	0 31 J	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19 34	TVOL
Vinyl chloride	0 3 J	Trip Blank	2/20/07	Y3560	Y3567	2/21/07	19:34	TVOL
1,2,3-Trichlorobenzene	0 092 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10:31	TVOL
1,2,3-Trichlorobenzene	0 092 J	Method Blank	--	Y3506	VBLK22	2/22/07	10:31	TVOL
1,2,3-Trichlorobenzene	0.092 J	Method Blank	--	Y3529	VBLK22	2/22/07	10:31	TVOL
1,2,4-Trichlorobenzene	0.069 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10 31	TVOL
1,2,4-Trichlorobenzene	0 069 J	Method Blank	--	Y3506	VBLK22	2/22/07	10 31	TVOL
1,2,4-Trichlorobenzene	0.069 J	Method Blank	--	Y3529	VBLK22	2/22/07	10 31	TVOL
2-Hexanone	2 9 J	Method Blank	--	Y3529	VBLK22	2/22/07	10 31	TVOL
2-Hexanone	2 9 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10.31	TVOL
2-Hexanone	2 9 J	Method Blank	--	Y3506	VBLK22	2/22/07	10.31	TVOL
Acetone	1 1 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10:31	TVOL
Acetone	1 1 J	Method Blank	--	Y3506	VBLK22	2/22/07	10 31	TVOL
Acetone	1 1 J	Method Blank	--	Y3529	VBLK22	2/22/07	10:31	TVOL
Carbon disulfide	0.075 J	Trip Blank	2/14/07	Y3506	Y3510	2/22/07	16.43	TVOL
Carbon disulfide	0 11 J	Trip Blank	2/15/07	Y3529	Y3528	2/22/07	15 58	TVOL
Chloroform	0.12 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10:31	TVOL
Chloroform	0.12 J	Method Blank	--	Y3506	VBLK22	2/22/07	10:31	TVOL
Chloroform	0.12 J	Method Blank	--	Y3529	VBLK22	2/22/07	10:31	TVOL
Chloromethane	0.27 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10 31	TVOL
Chloromethane	0.27 J	Method Blank	--	Y3506	VBLK22	2/22/07	10:31	TVOL
Chloromethane	0.27 J	Method Blank	--	Y3529	VBLK22	2/22/07	10:31	TVOL
Methylene chloride	0 056 J	Method Blank	--	Y3529	VBLK22	2/22/07	10 31	TVOL
Methylene chloride	0 056 J	Method Blank	--	Y34Z0	VBLK22	2/22/07	10:31	TVOL
Methylene chloride	0 056 J	Method Blank	--	Y3506	VBLK22	2/22/07	10:31	TVOL
Vinyl chloride	0 37 J	Trip Blank	2/15/07	Y3529	Y3528	2/22/07	15:58	TVOL
Vinyl chloride	0.4 J	Trip Blank	2/14/07	Y3506	Y3510	2/22/07	16.43	TVOL
1,1-Dichloroethene	0 054 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12 24	TVOL
1,1-Dichloroethene	0 054 J	Method Blank	--	Y3560	VBLK23	2/23/07	12.24	TVOL
1,4-Dioxane (P-Dioxane)	5.8 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12 24	TVOL
2-Butanone	0.3 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12 24	TVOL
2-Hexanone	2 9 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12.24	TVOL
Acetone	0 42 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12:24	TVOL
Acetone	1 2 J	Method Blank	--	Y3560	VBLK3B	2/23/07	11:05	TVOL
Acetone	1.2 J	Method Blank	--	Y3529	VBLK3B	2/23/07	11 05	TVOL
Acetone	1.2 J	Method Blank	--	Y3506	VBLK3B	2/23/07	11:05	TVOL
Acetone	0 42 J	Method Blank	--	Y3560	VBLK23	2/23/07	12 24	TVOL
Acetone	1.2 J	Method Blank	--	Y34Z0	VBLK3B	2/23/07	11 05	TVOL

TABLE 14
Summary of Detections in Trip Blank and Method Blanks (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Analyte	Concentration (µg/L)	Sample Type	Sample Date	Batch ID	Sample ID	Analysis Date	Analysis Time	Analysis Method*
Chloroform	0 82 J	Method Blank	--	Y3580	VBLK23	2/23/07	14 23	CVOL
Chloroform	0.27 J	Method Blank	--	Y3560	VBLK3B	2/23/07	11 05	TVOL
Chloroform	0.27 J	Method Blank	--	Y3529	VBLK3B	2/23/07	11.05	TVOL
Chloroform	0 27 J	Method Blank	--	Y34Z0	VBLK3B	2/23/07	11 05	TVOL
Chloroform	0.21 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12 24	TVOL
Chloroform	0.27 J	Method Blank	--	Y3506	VBLK3B	2/23/07	11:05	TVOL
Chloroform	0.21 J	Method Blank	--	Y3560	VBLK23	2/23/07	12.24	TVOL
Chloromethane	0.45 J	Method Blank	--	Y3560	VBLK3B	2/23/07	11:05	TVOL
Chloromethane	0.45 J	Method Blank	--	Y34Z0	VBLK3B	2/23/07	11.05	TVOL
Chloromethane	0 45 J	Method Blank	--	Y3506	VBLK3B	2/23/07	11:05	TVOL
Chloromethane	0.45 J	Method Blank	--	Y3529	VBLK3B	2/23/07	11 05	TVOL
cis-1,3-Dichloropropene	0.093 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12.24	TVOL
Cyclohexane	0.093 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12:24	TVOL
Methylene chloride	0.065 J	Method Blank	--	Y34Y0	VHBLK08	2/23/07	19 31	TVOL
Methylene chloride	0 16 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12 24	TVOL
Methylene chloride	0 16 J	Method Blank	--	Y3560	VBLK23	2/23/07	12 24	TVOL
trans-1,3-Dichloropropene	0.065 J	Method Blank	--	Y34Y0	VBLK23	2/23/07	12 24	TVOL
1,1-Dichloroethene	0.057 J	Method Blank	--	Y3506	VBLK26	2/26/07	8:38	TVOL
1,1-Dichloroethene	0.057 J	Method Blank	--	Y35A0	VBLK26	2/26/07	8:38	TVOL
1,1-Dichloroethene	0.057 J	Method Blank	--	Y3560	VBLK26	2/26/07	8.38	TVOL
1,1-Dichloroethene	0 057 J	Method Blank	--	Y3580	VBLK26	2/26/07	8:38	TVOL
2-Hexanone	2.7 J	Method Blank	--	Y3529	VHBLK12	2/26/07	7.35	TVOL
Acetone	0.82 J	Method Blank	--	Y34Z0	VBLK26	2/26/07	22.50	CVOL
Acetone	0.82 J	Method Blank	--	Y3560	VBLK26	2/26/07	22 50	CVOL
Acetone	0.82 J	Method Blank	--	Y3580	VBLK26	2/26/07	22.50	CVOL
Acetone	0 82 J	Method Blank	--	Y35A0	VBLK26	2/26/07	22 50	CVOL
Acetone	0 89 J	Trip Blank	2/22/07	Y35A0	Y35B1	2/26/07	11 23	TVOL
Carbon disulfide	0 063 J	Trip Blank	2/21/07	Y3580	Y3597	2/26/07	11:00	TVOL
Carbon disulfide	0 053 J	Method Blank	--	Y34Z0	VBLK2A	2/26/07	6 58	TVOL
Carbon disulfide	0 053 J	Method Blank	--	Y3529	VBLK2A	2/26/07	6:58	TVOL
Carbon disulfide	0 053 J	Method Blank	--	Y3560	VBLK2A	2/26/07	6 58	TVOL
Carbon disulfide	0.053 J	Trip Blank	2/22/07	Y35A0	Y35B1	2/26/07	11 23	TVOL
Chloroform	0 62 J	Method Blank	--	Y35A0	VBLK26	2/26/07	22:50	CVOL
Chloroform	0 62 J	Method Blank	--	Y3580	VBLK26	2/26/07	22 50	CVOL
Chloroform	0.62 J	Method Blank	--	Y34Z0	VBLK26	2/26/07	22 50	CVOL
Chloroform	0 62 J	Method Blank	--	Y3560	VBLK26	2/26/07	22.50	CVOL
Chloromethane	0.23 J	Method Blank	--	Y3529	VHBLK12	2/26/07	7 35	TVOL
Chloromethane	0.25 J	Trip Blank	2/19/07	Y34Z0	Y3558	2/26/07	10:17	TVOL
Dichlorodifluoromethane	0 061 J	Method Blank	--	Y34Z0	VBLK2A	2/26/07	6 58	TVOL
Dichlorodifluoromethane	0.061 J	Method Blank	--	Y3529	VBLK2A	2/26/07	6 58	TVOL
Dichlorodifluoromethane	0.061 J	Method Blank	--	Y3560	VBLK2A	2/26/07	6 58	TVOL
Methylene chloride	0 18 J	Trip Blank	2/21/07	Y3580	Y3597	2/26/07	11:00	TVOL
Methylene chloride	0 32 J	Trip Blank	2/19/07	Y34Z0	Y3558	2/26/07	10:17	TVOL
Methylene chloride	0 33 J	Method Blank	--	Y3529	VHBLK12	2/26/07	7 35	TVOL
Vinyl chloride	0.31 J	Trip Blank	2/22/07	Y35A0	Y35B1	2/26/07	11:23	TVOL
Vinyl chloride	0.32 J	Trip Blank	2/21/07	Y3580	Y3597	2/26/07	11.00	TVOL
Vinyl chloride	0.36 J	Trip Blank	2/19/07	Y34Z0	Y3558	2/26/07	10.17	TVOL
1,1-Dichloroethene	0 053 J	Method Blank	--	Y34Z0	VBLK27	2/27/07	12.54	TVOL
1,1-Dichloroethene	0.053 J	Method Blank	--	Y35A0	VBLK27	2/27/07	12:54	TVOL
1,1-Dichloroethene	0.053 J	Method Blank	--	Y3560	VBLK27	2/27/07	12 54	TVOL
1,1-Dichloroethene	0.053 J	Method Blank	--	Y3580	VBLK27	2/27/07	12 54	TVOL
Acetone	0 5 J	Method Blank	--	Y34Z0	VBLK27	2/27/07	10 30	CVOL
Acetone	0 5 J	Method Blank	--	Y3506	VBLK27	2/27/07	10.30	CVOL
Acetone	0.5 J	Method Blank	--	Y3580	VBLK27	2/27/07	10:30	CVOL
Acetone	0.5 J	Method Blank	--	Y35A0	VBLK27	2/27/07	10:30	CVOL
Acetone	0.5 J	Method Blank	--	Y35C0	VBLK27	2/27/07	10:30	CVOL
Acetone	1.3 J	Method Blank	--	Y34Z0	VHBLK16	2/27/07	11:22	CVOL
Chloroform	0.61 J	Method Blank	--	Y35C0	VBLK27	2/27/07	10 30	CVOL
Chloroform	0 52 J	Method Blank	--	Y34Z0	VHBLK16	2/27/07	11 22	CVOL
Chloroform	0 61 J	Method Blank	--	Y34Z0	VBLK27	2/27/07	10.30	CVOL
Chloroform	0.61 J	Method Blank	--	Y3506	VBLK27	2/27/07	10:30	CVOL
Chloroform	0 61 J	Method Blank	--	Y3580	VBLK27	2/27/07	10:30	CVOL
Chloroform	0 61 J	Method Blank	--	Y35A0	VBLK27	2/27/07	10.30	CVOL

TABLE 14
Summary of Detections in Trip Blank and Method Blanks (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Analyte	Concentration (µg/L)	Sample Type	Sample Date	Batch ID	Sample ID	Analysis Date	Analysis Time	Analysis Method*
Chloromethane	3 9 J	Method Blank	--	Y34Z0	VHBLK16	2/27/07	11 22	CVOL
m,p-Xylene	0.29 J	Method Blank	--	Y34Z0	VBLK27	2/27/07	12 54	TVOL
m,p-Xylene	0.29 J	Method Blank	--	Y3560	VBLK27	2/27/07	12 54	TVOL
m,p-Xylene	0 29 J	Method Blank	--	Y3580	VBLK27	2/27/07	12 54	TVOL
m,p-Xylene	0.29 J	Method Blank	--	Y35A0	VBLK27	2/27/07	12 54	TVOL
o-Xylene	0 19 J	Method Blank	--	Y3560	VBLK27	2/27/07	12 54	TVOL
o-Xylene	0.19 J	Method Blank	--	Y3580	VBLK27	2/27/07	12 54	TVOL
o-Xylene	0 19 J	Method Blank	--	Y34Z0	VBLK27	2/27/07	12 54	TVOL
o-Xylene	0 19 J	Method Blank	--	Y35A0	VBLK27	2/27/07	12 54	TVOL
Trichloroethene	0 56 J	Method Blank	--	Y3506	VHBLK14	2/27/07	11:00	CVOL
1,1-Dichloroethene	0.076 J	Method Blank	--	Y35C0	VHBLK28	2/28/07	20.06	TVOL
1,1-Dichloroethene	0 081 J	Method Blank	--	Y3580	VHBLK20	2/28/07	18.59	TVOL
Acetone	0 45 J	Method Blank	--	Y3580	VHBLK20	2/28/07	18 59	TVOL
Acetone	0 91 J	Method Blank	--	Y35C0	VHBLK28	2/28/07	20 06	TVOL
Chloroform	0.2 J	Method Blank	--	Y3580	VHBLK20	2/28/07	18 59	TVOL
Chloroform	0.57 J	Method Blank	--	Y3580	VHBLK22	2/28/07	15 02	CVOL
Methylene chloride	0.099 J	Method Blank	--	Y35A0	VBLK28	2/28/07	12 36	TVOL
Methylene chloride	0.099 J	Method Blank	--	Y35C0	VBLK28	2/28/07	12 36	TVOL
Methylene chloride	0 099 J	Method Blank	--	Y3580	VBLK28	2/28/07	12.36	TVOL
Trichloroethene	0 97 J	Method Blank	--	Y3580	VHBLK22	2/28/07	15 02	CVOL
Vinyl chloride	0 32 J	Trip Blank	2/26/07	Y35C0	Y35C2	2/28/07	14 05	TVOL
Acetone	1 8 J	Method Blank	--	Y35A0	VBLK01	3/1/07	6 46	TVOL
Acetone	1.8 J	Method Blank	--	Y34Z0	VBLK01	3/1/07	6:46	TVOL
Chloroform	0 53 J	Method Blank	--	Y35A0	VHBLK24	3/1/07	15 41	CVOL
Chloroform	0.25 J	Method Blank	--	Y35A0	VHBLK23	3/1/07	11 02	TVOL
Chloroform	0 059 J	Method Blank	--	Y34Z0	VBLK01	3/1/07	6:46	TVOL
Chloroform	0 059 J	Method Blank	--	Y35A0	VBLK01	3/1/07	6.46	TVOL
Methylene chloride	0 095 J	Method Blank	--	Y35A0	VHBLK23RE	3/1/07	11 56	TVOL
Trichloroethene	0 15 J	Method Blank	--	Y35A0	VHBLK23RE	3/1/07	11 56	TVOL
Acetone	1 2 J	Method Blank	--	Y3560	VHBLK18RE	3/5/07	10 24	TVOL
Chloroform	0 18 J	Method Blank	--	Y3560	VHBLK18RE	3/5/07	10 24	TVOL
Chloroform	0 14 J	Method Blank	--	Y3560	VHBLK18	3/5/07	9 44	TVOL
Chloroform	0 13 J	Method Blank	--	Y3560	VBLK05	3/5/07	9 07	TVOL
Chloromethane	0 3 J	Method Blank	--	Y3560	VHBLK18RE	3/5/07	10.24	TVOL
Methylene chloride	0 29 J	Method Blank	--	Y3AT6	VBLKEH	6/1/07	13 12	TVOL
Methylene chloride	0.89 J	Method Blank	--	Y3AT7	VBLK49	6/1/07	14 50	CVOL
N-Hexane	0 63 J	Trip Blank	5/29/07	Y3AT6	Y3AW1	6/1/07	15 32	TVOL
2-Butanone	10	Trip Blank	5/31/07	Y3AT6	Y3AX6	6/2/07	12 27	TVOL
Methylene chloride	1.4 J	Method Blank	--	Y3AT7	VBLK51	6/2/07	7:22	CVOL
Methylene chloride	1 7	Trip Blank	5/31/07	Y3AT6	Y3AX6	6/2/07	12 27	TVOL
Methylene chloride	1 5	Trip Blank	6/1/07	Y3AX7	Y3AY7	6/4/07	13 52	TVOL
Methylene chloride	2 7 J	Method Blank	--	Y3AY2	VBLK53	6/4/07	9.25	CVOL
Methylene chloride	0 25 J	Method Blank	--	Y3AX7	VBLKEL	6/4/07	9 33	TVOL
1,2,3-Trichlorobenzene	1 4 J	Method Blank	--	Y3AY2	VBLK57	6/6/07	8:42	CVOL
Methylene chloride	0.46 J	Method Blank	--	Y3AX7	VBLKEN	6/6/07	12 13	TVOL
Methylene chloride	2.9 J	Method Blank	--	Y3AY2	VBLK57	6/6/07	8:42	CVOL
Methylene chloride	3.1	Trip Blank	6/4/07	Y3AX7	Y3AZ6	6/6/07	14 13	TVOL
1,2,3-Trichlorobenzene	1.7 J	Method Blank	--	Y3AT7	VBLK59	6/7/07	8 35	CVOL
1,2,3-Trichlorobenzene	1.7 J	Method Blank	--	Y3AY2	VBLK59	6/7/07	8:35	CVOL
1,2,4-Trichlorobenzene	1 1 J	Method Blank	--	Y3AT7	VBLK59	6/7/07	8.35	CVOL
1,2,4-Trichlorobenzene	1 1 J	Method Blank	--	Y3AY2	VBLK59	6/7/07	8 35	CVOL
Methylene chloride	0.14 J	Method Blank	--	Y3AZ7	VBLKEP	6/7/07	9 11	TVOL
Methylene chloride	0.31 J	Method Blank	--	Y3AX7	VHBLK01	6/7/07	13.40	TVOL
Methylene chloride	1.3 J	Method Blank	--	Y3AT7	VBLK59	6/7/07	8 35	CVOL
Methylene chloride	1 3 J	Method Blank	--	Y3AY2	VBLK59	6/7/07	8:35	CVOL
Methylene chloride	0 14 J	Method Blank	--	Y3AX7	VBLKEP	6/7/07	9 11	TVOL
Methylene chloride	0 29 J	Method Blank	--	Y3AZ7	VBLKER	6/8/07	8:48	TVOL
Methylene chloride	1 6 J	Trip Blank	6/5/07	Y3AZ7	Y3B04	6/8/07	10:02	TVOL
Methylene chloride	1.5 J	Trip Blank	6/7/07	Y3AZ7	Y3B25	6/8/07	12.55	TVOL
Methylene chloride	1 3 J	Method Blank	--	Y3B11	VBLKA1	6/8/07	15.27	CVOL
Trichloroethene	0.11 J	Trip Blank	6/7/07	Y3AZ7	Y3B25	6/8/07	12.55	TVOL
Trichloroethene	0 17 J	Trip Blank	6/6/07	Y3AZ7	Y3B16	6/8/07	11 41	TVOL
Trichloroethene	0 23 J	Trip Blank	6/5/07	Y3AZ7	Y3B04	6/8/07	10 02	TVOL

TABLE 14
Summary of Detections in Trip Blank and Method Blanks (February, May, September 2007)
Pemaco Superfund Site, Maywood, California

Analyte	Concentration (µg/L)	Sample Type	Sample Date	Batch ID	Sample ID	Analysis Date	Analysis Time	Analysis Method*
1,2,3-Trichlorobenzene	1 4 J	Method Blank	--	Y3AY2	VBLK64	6/11/07	9 20	CVOL
1,2,3-Trichlorobenzene	1.4 J	Method Blank	--	Y3B11	VBLK64	6/11/07	9 20	CVOL
Methylene chloride	0 32 J	Method Blank	--	Y3AZ7	VBLKET	6/11/07	10:08	TVOL
Methylene chloride	2 J	Method Blank	--	Y3AY2	VBLK64	6/11/07	9 20	CVOL
Methylene chloride	2 J	Method Blank	--	Y3B11	VBLK64	6/11/07	9 20	CVOL
N-Hexane	2 2 J	Method Blank	--	Y3AY2	VBLK64	6/11/07	9 20	CVOL
N-Hexane	2 2 J	Method Blank	--	Y3B11	VBLK64	6/11/07	9 20	CVOL
1,2,3-Trichlorobenzene	1 4 J	Method Blank	--	Y3AY2	VBLK66	6/12/07	9:19	CVOL
1,2,3-Trichlorobenzene	1.8 J	Method Blank	--	Y3B11	VBLK67	6/12/07	11.52	CVOL
1,2,4-Trichlorobenzene	1 J	Method Blank	--	Y3AY2	VBLK66	6/12/07	9 19	CVOL
1,2,4-Trichlorobenzene	1 3 J	Method Blank	--	Y3B11	VBLK67	6/12/07	11:52	CVOL
Methylene chloride	0 27 J	Method Blank	--	Y3AZ7	VBLKEV	6/12/07	16 34	TVOL
Methylene chloride	1.4 J	Method Blank	--	Y3AY2	VBLK66	6/12/07	9 19	CVOL
Methylene chloride	1 4 J	Method Blank	--	Y3B11	VBLK67	6/12/07	11 52	CVOL
Methylene chloride	1.9 J	Method Blank	--	Y3AY2	VHBLK01	6/12/07	10 14	CVOL
1,2,3-Trichlorobenzene	0.23 J	Method Blank	--	Y3AZ7	VBLK69	6/13/07	13 54	TVOL
1,2,4-Trichlorobenzene	0 14 J	Method Blank	--	Y3AZ7	VBLK69	6/13/07	13:54	TVOL
Methylene chloride	0.52	Method Blank	--	Y3AZ7	VBLK69	6/13/07	13 54	TVOL
Methylene chloride	2.4 J	Method Blank	--	Y3B11	VBLK72	6/14/07	13.21	CVOL
Methylene chloride	2 4 J	Method Blank	--	Y3B11	VHBLK01	6/14/07	14 42	CVOL
Methylene chloride	0.57	Method Blank	--	Y3AZ7	VBLKEY	6/15/07	22.17	TVOL
Methylene chloride	0 57	Method Blank	--	Y3B30	VBLKEY	6/15/07	22:17	TVOL
Methylene chloride	4.3 J	Method Blank	--	Y3B32	VBLK74	6/15/07	22:06	CVOL
Methylene chloride	4.8 J	Method Blank	--	Y3B32	VBLK76	6/16/07	7 41	CVOL
Methylene chloride	2 J	Trip Blank	6/8/07	Y3B30	Y3B34	6/16/07	0 31	TVOL
Methylene chloride	3 4 J	Method Blank	--	Y3B32	VHBLK01	6/16/07	10:24	CVOL
N-Hexane	1 1	Trip Blank	6/8/07	Y3B30	Y3B34	6/16/07	0:31	TVOL
cis-1,2-Dichloroethene	0 12 J	Trip Blank	6/11/07	Y3B35	Y3B43	6/17/07	16 39	TVOL
m,p-Xylene	0.11 J	Trip Blank	6/11/07	Y3B35	Y3B43	6/17/07	16 39	TVOL
Methylene chloride	0 23 J	Method Blank	--	Y3B35	VBLK80	6/17/07	13.07	TVOL
Methylene chloride	0.92	Method Blank	--	Y3B35	VBLKFC	6/17/07	10 33	TVOL
Methylene chloride	0 39 J	Method Blank	--	Y3B35	VBLK84	6/18/07	15:32	TVOL
1,2,3-Trichlorobenzene	0 24 J	Method Blank	--	Y3B30	VBLK88	6/19/07	9 09	TVOL
1,2,3-Trichlorobenzene	0 24 J	Method Blank	--	Y3B35	VBLK88	6/19/07	9 09	TVOL
1,2,3-Trichlorobenzene	0 24 J	Method Blank	--	Y3B63	VBLK88	6/19/07	9:09	TVOL
m,p-Xylene	0 24 J	Trip Blank	6/13/07	Y3B30	Y3B60	6/19/07	0:34	TVOL
Methylene chloride	0 54 J	Method Blank	--	Y3B63	VBLK88	6/19/07	9.09	TVOL
Methylene chloride	1 5	Trip Blank	6/14/07	Y3B63	Y3B65	6/19/07	13.30	TVOL
Methylene chloride	0 54	Method Blank	--	Y3B35	VBLK88	6/19/07	9 09	TVOL
Methylene chloride	0.33 J	Trip Blank	6/13/07	Y3B30	Y3B60	6/19/07	0:34	TVOL
Methylene chloride	0 2 J	Method Blank	--	Y3AZ7	VHBLK01	6/19/07	6:08	TVOL
Methylene chloride	0.54	Method Blank	--	Y3B30	VBLK88	6/19/07	9:09	TVOL
N-Hexane	0.86	Trip Blank	6/14/07	Y3B63	Y3B65	6/19/07	13 30	TVOL
N-Hexane	0 93	Trip Blank	6/15/07	Y3B63	Y3B73	6/19/07	15 40	TVOL
N-Hexane	0.99 J	Trip Blank	6/13/07	Y3B30	Y3B60	6/19/07	0 34	TVOL
1,2,3-Trichlorobenzene	2.7 J	Method Blank	--	Y3B62	VBLK96	6/21/07	17.10	CVOL
1,2,4-Trichlorobenzene	1 5 J	Method Blank	--	Y3B62	VBLK96	6/21/07	17.10	CVOL
Methylene chloride	0 99 J	Method Blank	--	Y3B62	VHBLK01	6/21/07	22 26	CVOL
Methylene chloride	1.7 J	Method Blank	--	Y3B62	VBLK96	6/21/07	17 10	CVOL
1,2,3-Trichlorobenzene	0.33 J	Method Blank	--	Y3JW3	VBLKT2	9/12/07	13 09	TVOL
Chloroform	0 31 J	Trip Blank	9/12/07	Y3JZ6	Y3K12	9/15/07	8:00	TVOL
Chloroform	0.57	Trip Blank	9/11/07	Y3JZ6	Y3K01	9/15/07	1 19	TVOL
Chloroform	0 25 J	Trip Blank	9/13/07	Y3K16	Y3K28	9/17/07	18:36	TVOL
Methylene chloride	0 58	Trip Blank	9/13/07	Y3K16	Y3K28	9/17/07	18 36	TVOL
Trichloroethene	0.3 J	Trip Blank	9/17/07	Y3K54	Y3K59	9/19/07	16.08	TVOL
Carbon disulfide	5	Trip Blank	9/19/07	Y3K74	Y3K75	9/22/07	8 59	TVOL
Chloroform	1 7	Trip Blank	9/19/07	Y3K74	Y3K75	9/22/07	8 59	TVOL

Notes:
J - Results were qualified as estimated.
N - Normal field sample
µg/L - microgram per liter
* Samples were analyzed for volatile organic compounds by a United States Environmental Protection Agency Contract Laboratory Program (CLP) laboratory using method SOM01.1 prior to June 2007 or SOM01 2 after June 2007 Samples with low expected concentrations were analyzed by TVOL, and samples with higher expected concentrations were analyzed by CVOL

GRAPHS

HYDROGRAPH

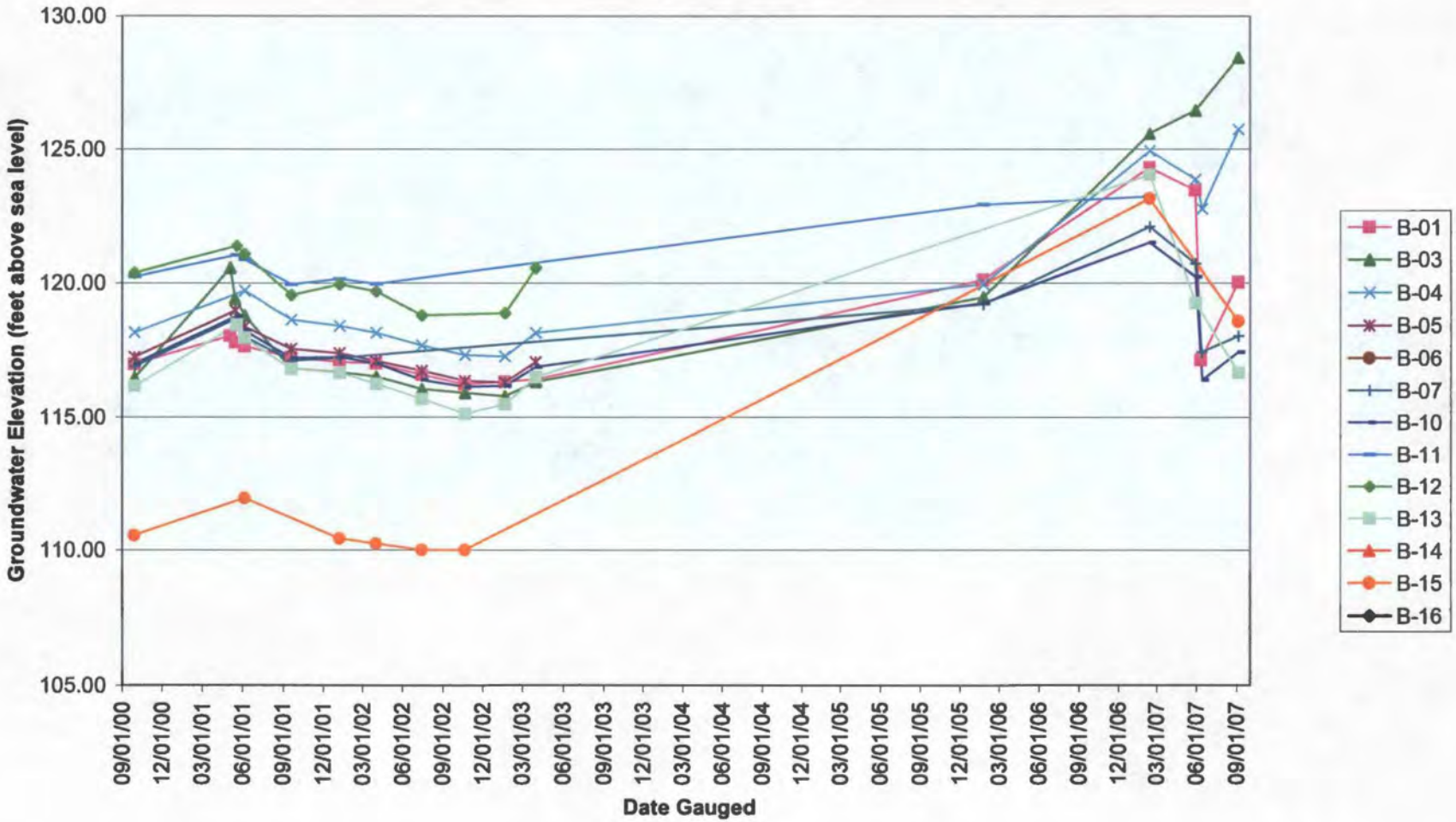
Graph 1 – PERCHED ZONE WELLS
Graph 1-A Perched Groundwater Zone Hydrograph for Wells B-1 to B-18
Graph 1-B Perched Groundwater Zone Hydrograph for Wells B-19 to B-31
Graph 1-C Perched Groundwater Zone Hydrograph for Wells B-32 to B-39

Graph 2 – EXPOSITION 'A' ZONE WELLS
Graph 2 Exposition 'A' Groundwater Zone Hydrograph

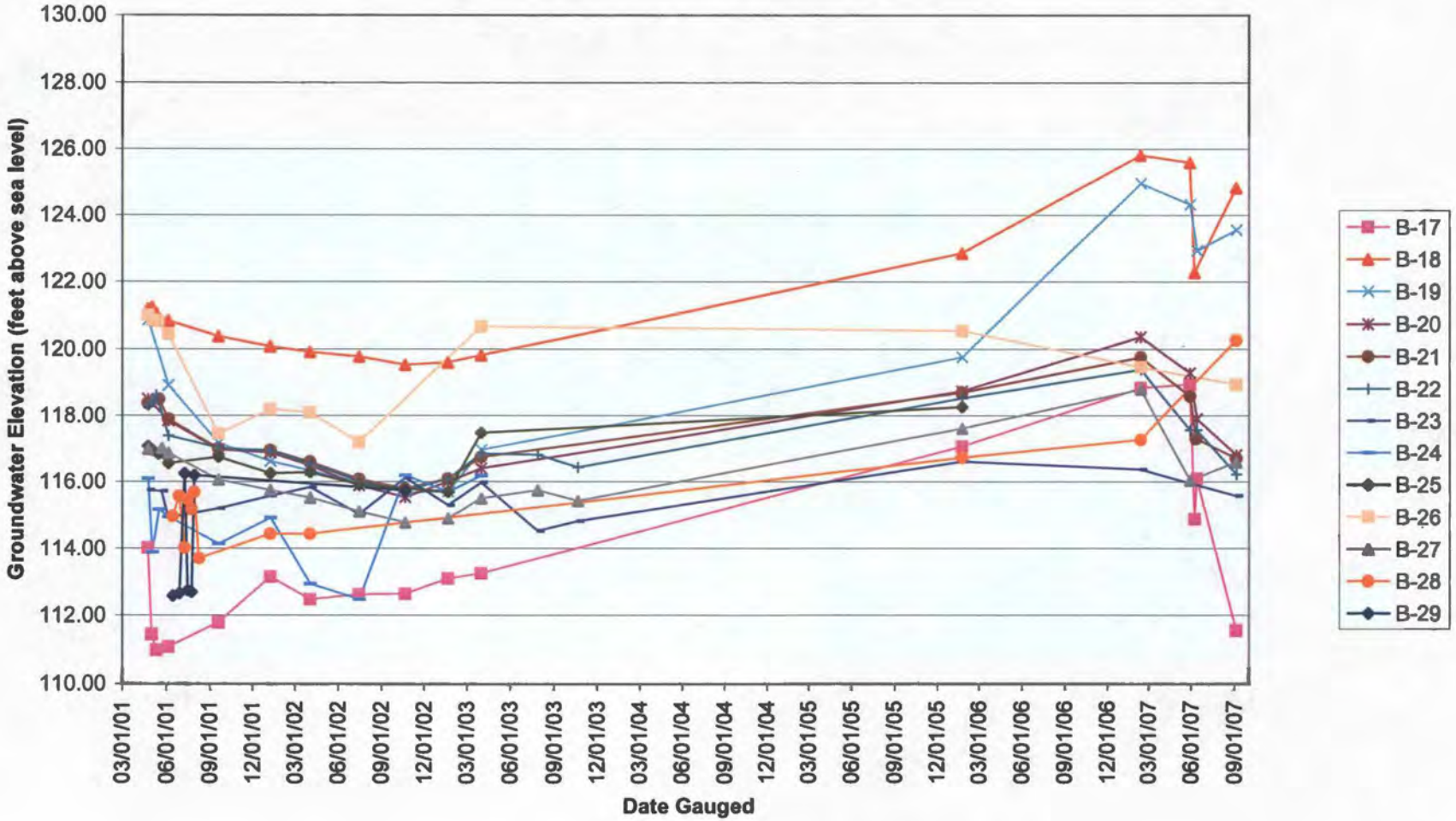
Graph 3 – EXPOSITION 'B' ZONE WELLS
Graph 3 Exposition 'B' Groundwater Zone Hydrograph

Graph 4 – EXPOSITION 'C', 'D' & 'E' ZONE WELLS
Graph 4-A Exposition 'C' Groundwater Zone Hydrograph
Graph 4-B Exposition 'D' & 'E' Groundwater Zones Hydrograph

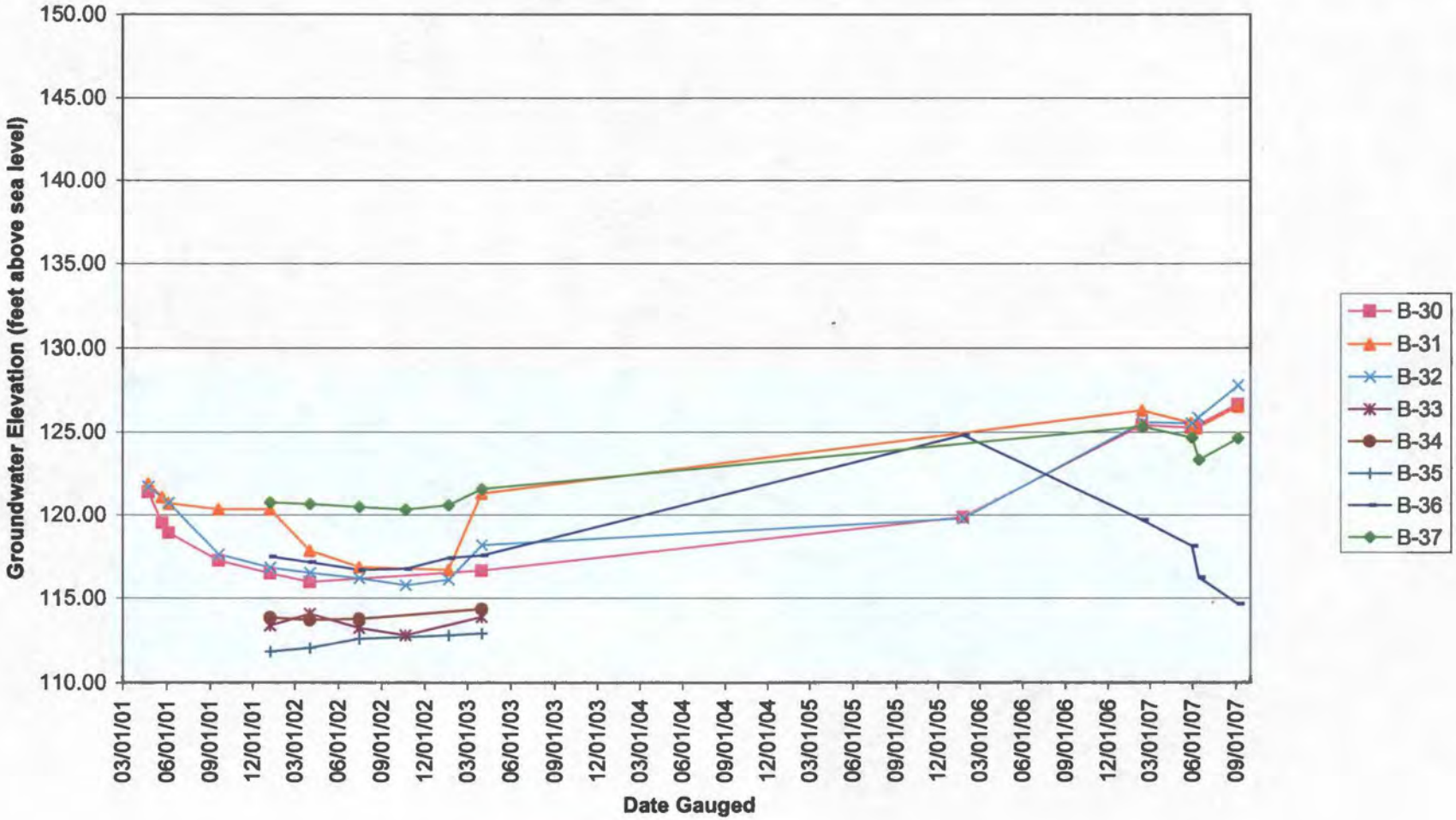
Graph 1-A
Perched Groundwater Zone Hydrograph for Wells B-1 to B-18
Pemaco Superfund Site, Maywood, California



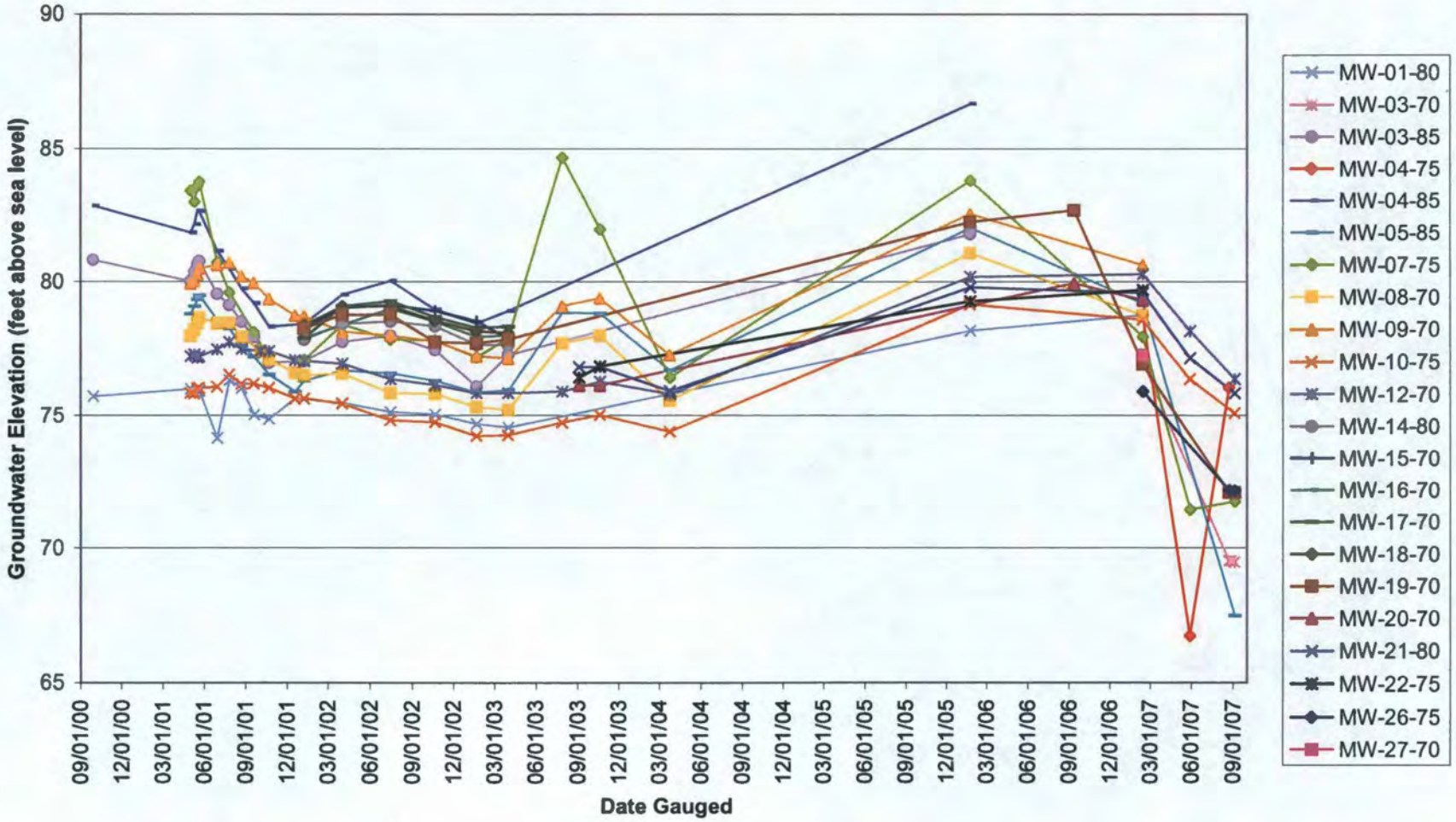
Graph 1-B
Perched Groundwater Zone Hydrograph for Wells B-19 to B-31
Pemaco Superfund Site, Maywood, California



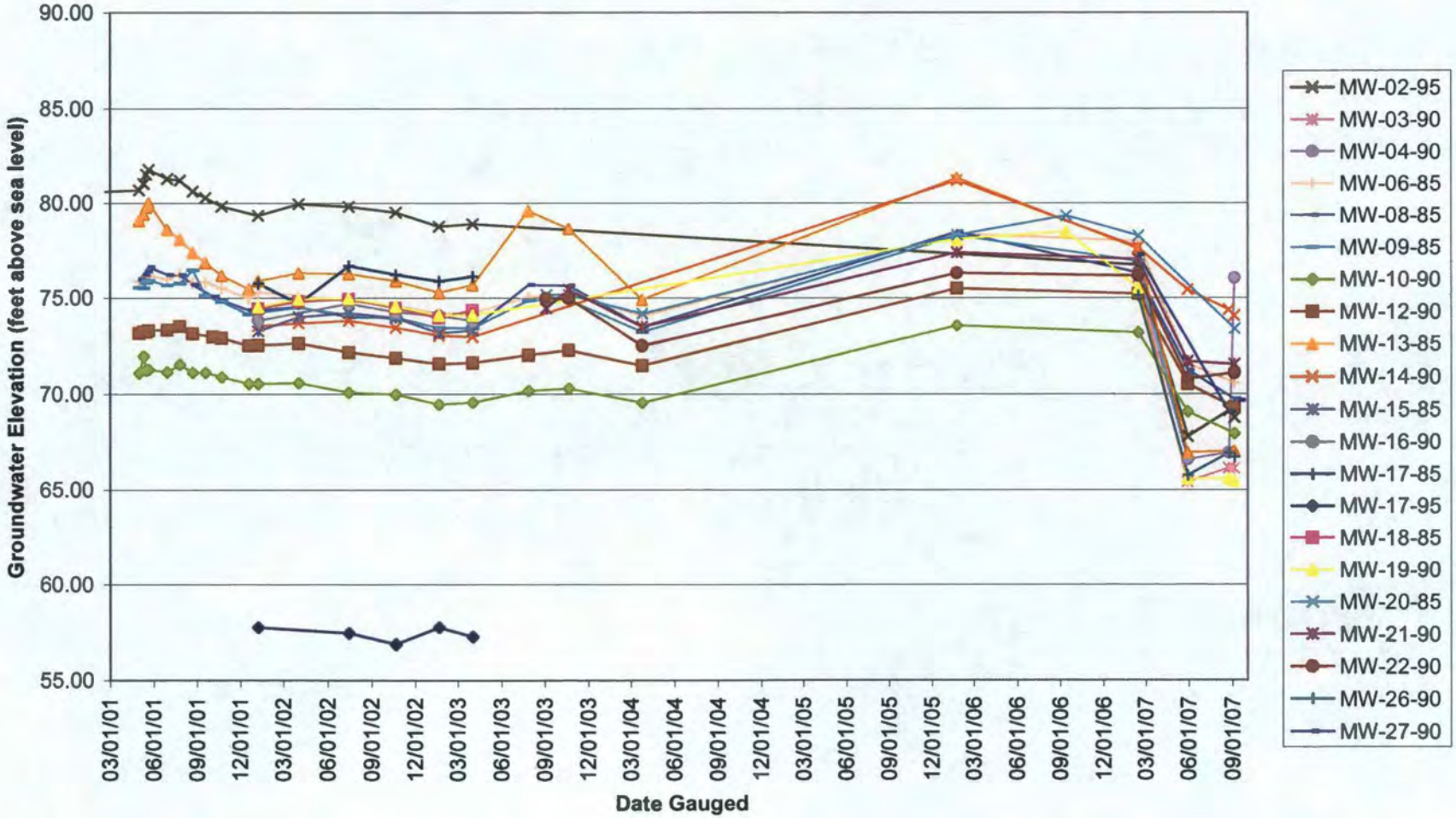
Graph 1-C
Perched Groundwater Zone Hydrograph for Wells B-32 to B-39
Pemaco Superfund Site, Maywood, California



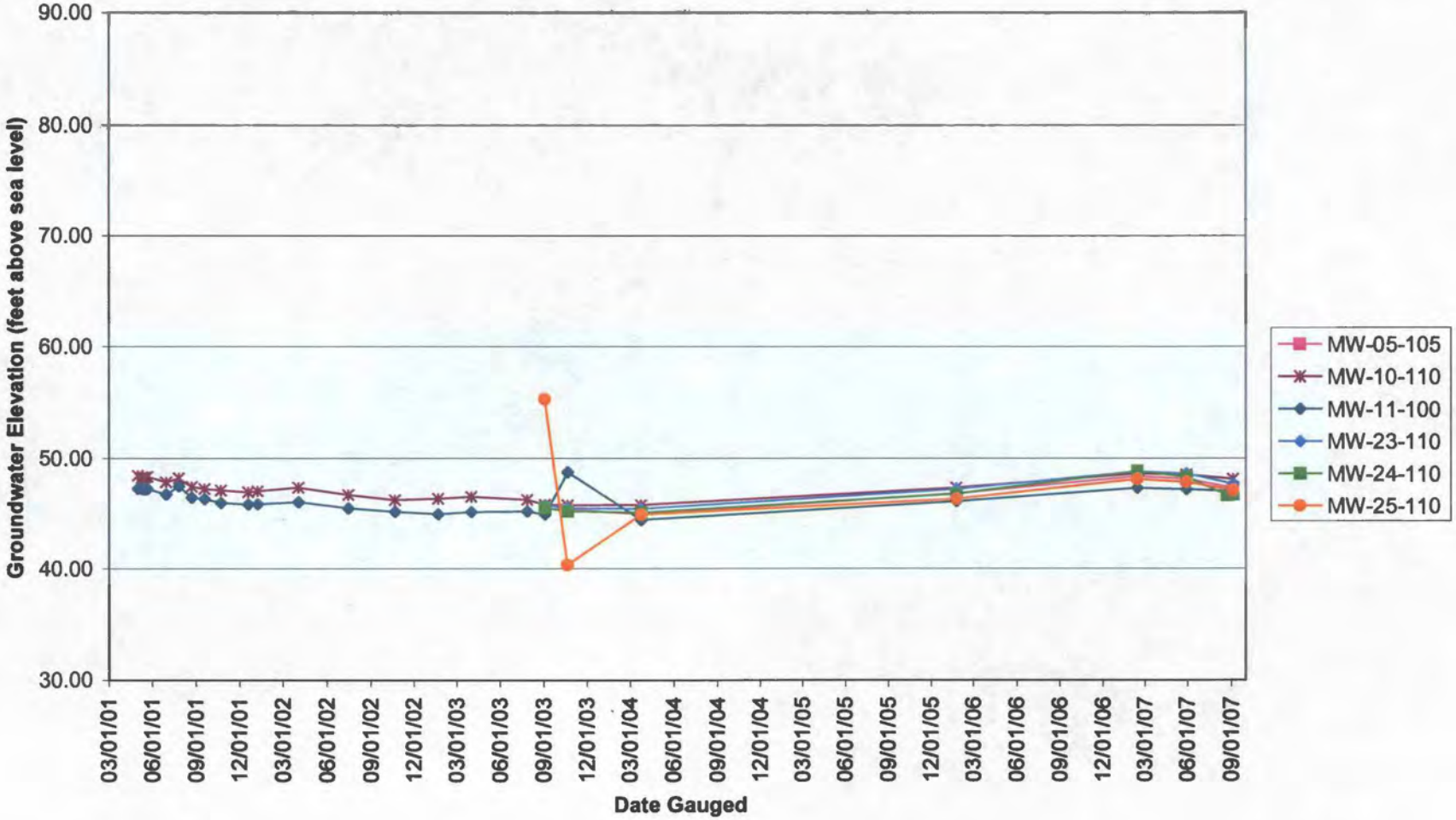
Graph 2
Exposition 'A' Groundwater Zone Hydrograph for MW Wells
Pemaco Superfund Site, Maywood, California



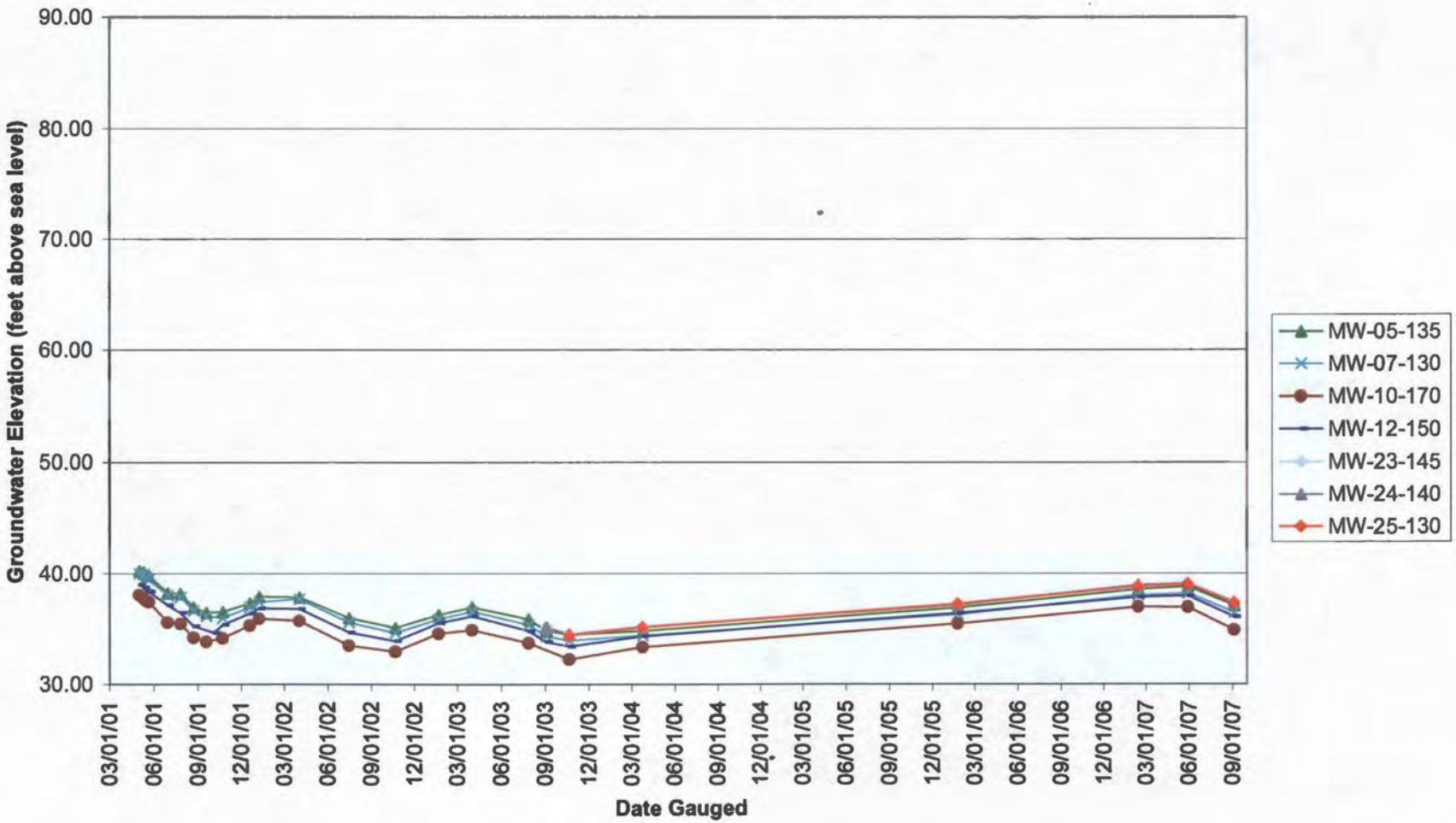
Graph 3
Exposition 'B' Groundwater Zone Hydrograph for MW Wells
Pemaco Superfund Site, Maywood, California



Graph 4-A
Exposition 'C' Groundwater Zones Hydrograph
Pemaco Superfund Site, Maywood, California



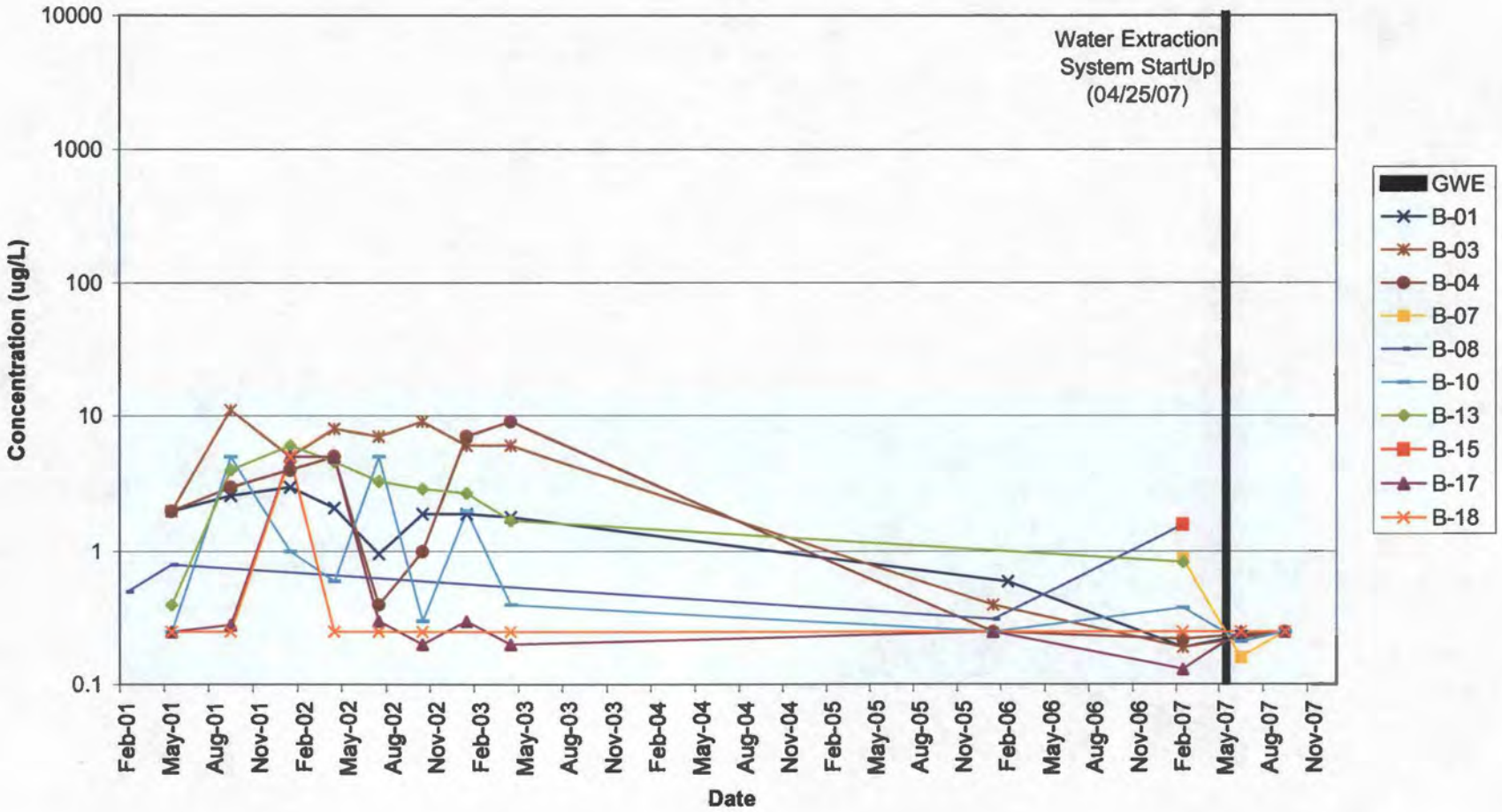
Graph 4-B
Exposition 'D', and 'E' Groundwater Zones Hydrograph
Pemaco Superfund Site, Maywood, California



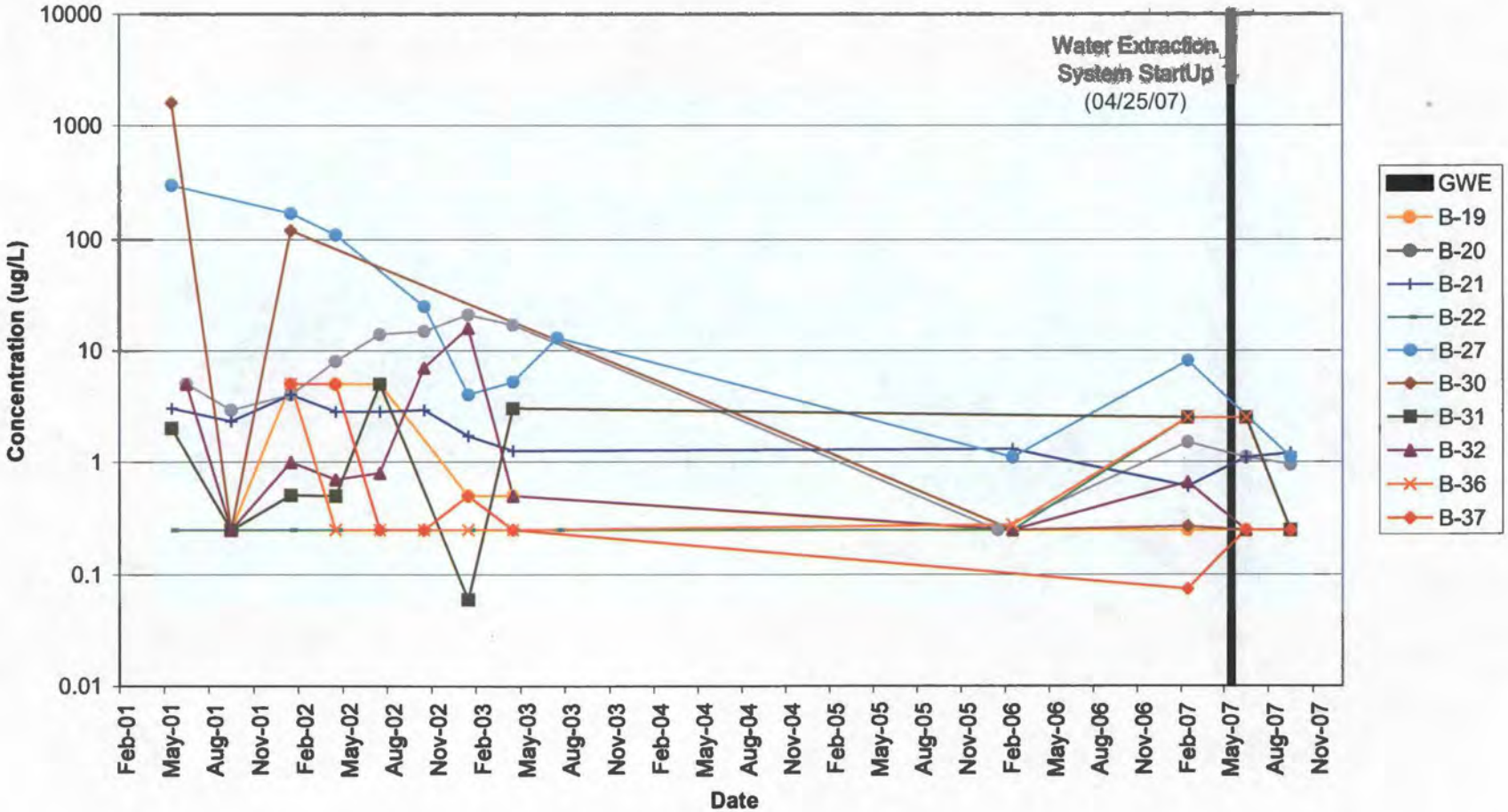
TREND GRAPHS FOR BENZENE

Graph 5-A	Benzene Concentrations in Groundwater vs. Time Perched Zone Wells B-01 to B-18
Graph 5-B	Benzene Concentrations in Groundwater vs. Time Perched Zone Wells B-19 to B-37
Graph 5-C	Benzene Concentrations in Groundwater vs. Time Perched Zone Wells B-38, B-39; SV-01, SV-03 & SV-05
Graph 5-D	Benzene Concentrations in Groundwater vs. Time Perched Zone Wells PA-03 to PA-05; PB-01 to PB-05
Graph 5-E	Benzene Concentrations in Groundwater vs. Time Perched Zone Wells PB-07; PC-02 to PC-06; PD-04 to PD-09
Graph 5-F	Benzene Concentrations in Groundwater vs. Time Exposition 'A' Zone: Wells: DA-01 to DA-12
Graph 5-G	Benzene Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Graph 5-H	Benzene Concentrations in Groundwater vs. Time Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Graph 5-I	Benzene Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: DB-01 to DB-12
Graph 5-J	Benzene Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Graph 5-K	Benzene Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Graph 5-L	Benzene Concentrations in Groundwater vs. Time Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Graph 5-M	Benzene Concentrations in Groundwater vs. Time Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170

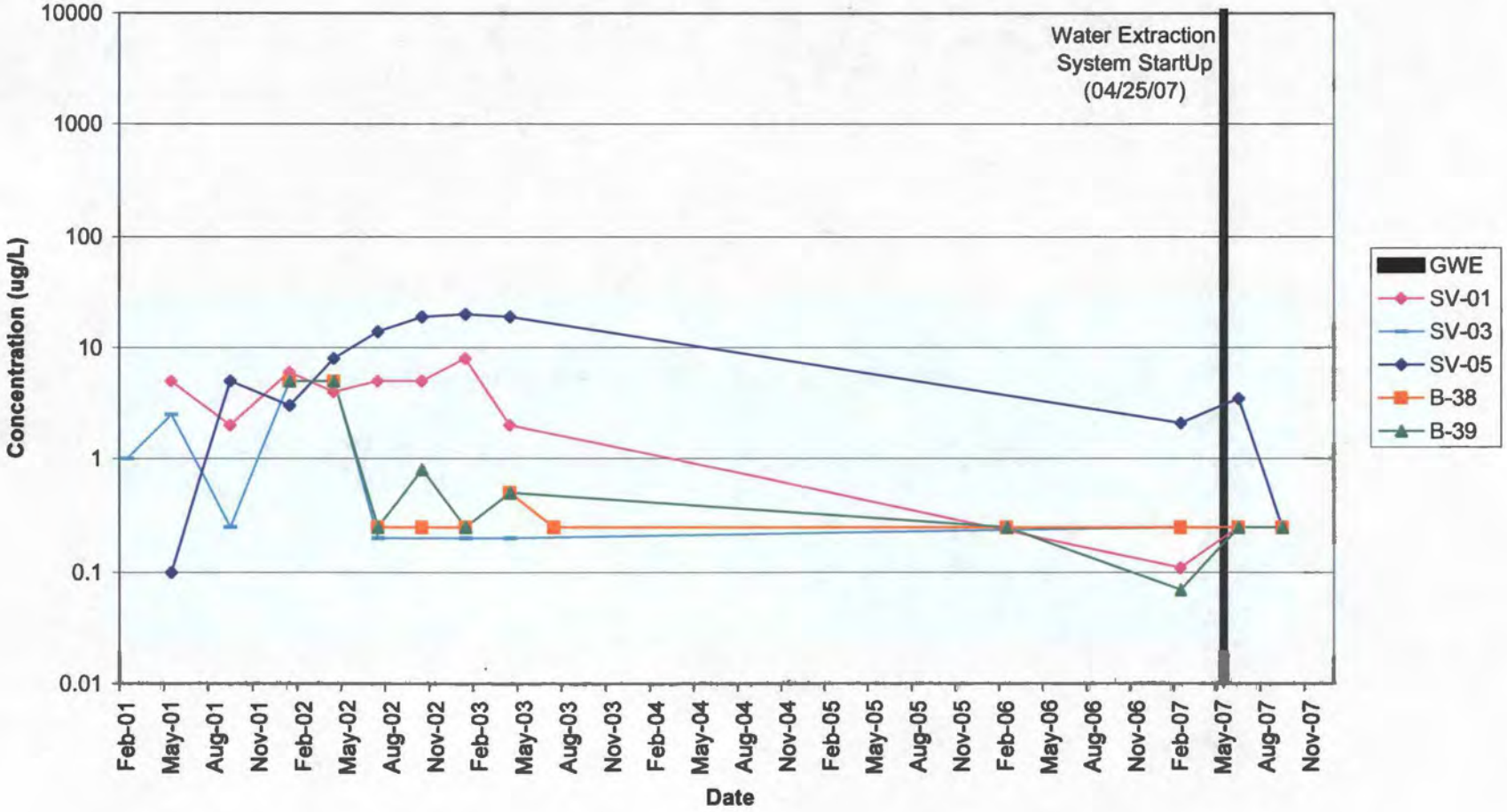
GRAPH 5-A
Benzene Concentrations in Groundwater vs. Time
Perched Zone Wells B-01 to B-18
Pemaco Superfund Site, Maywood, California



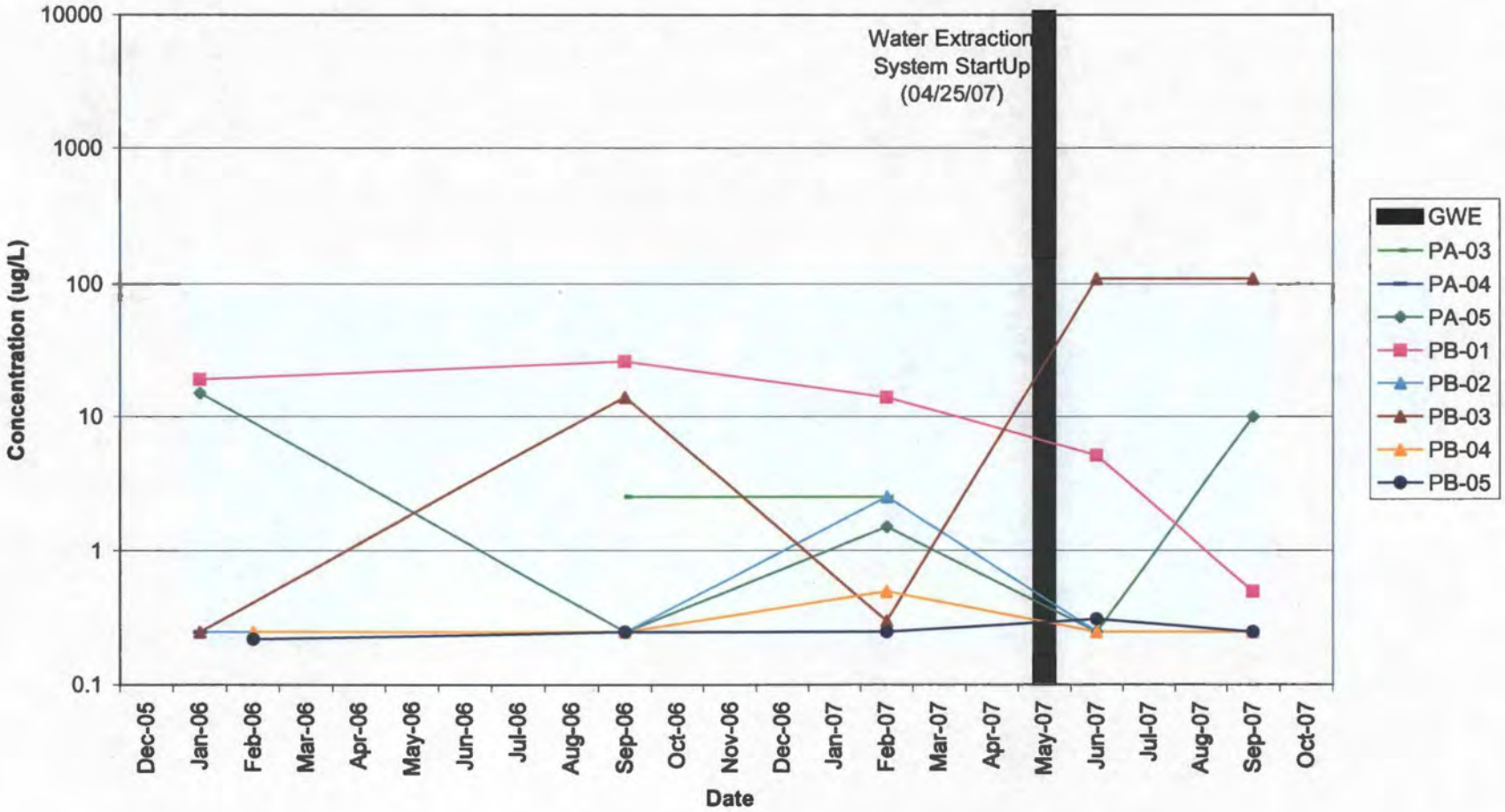
GRAPH 5-B
Benzene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37
Pemaco Superfund Site, Maywood, California



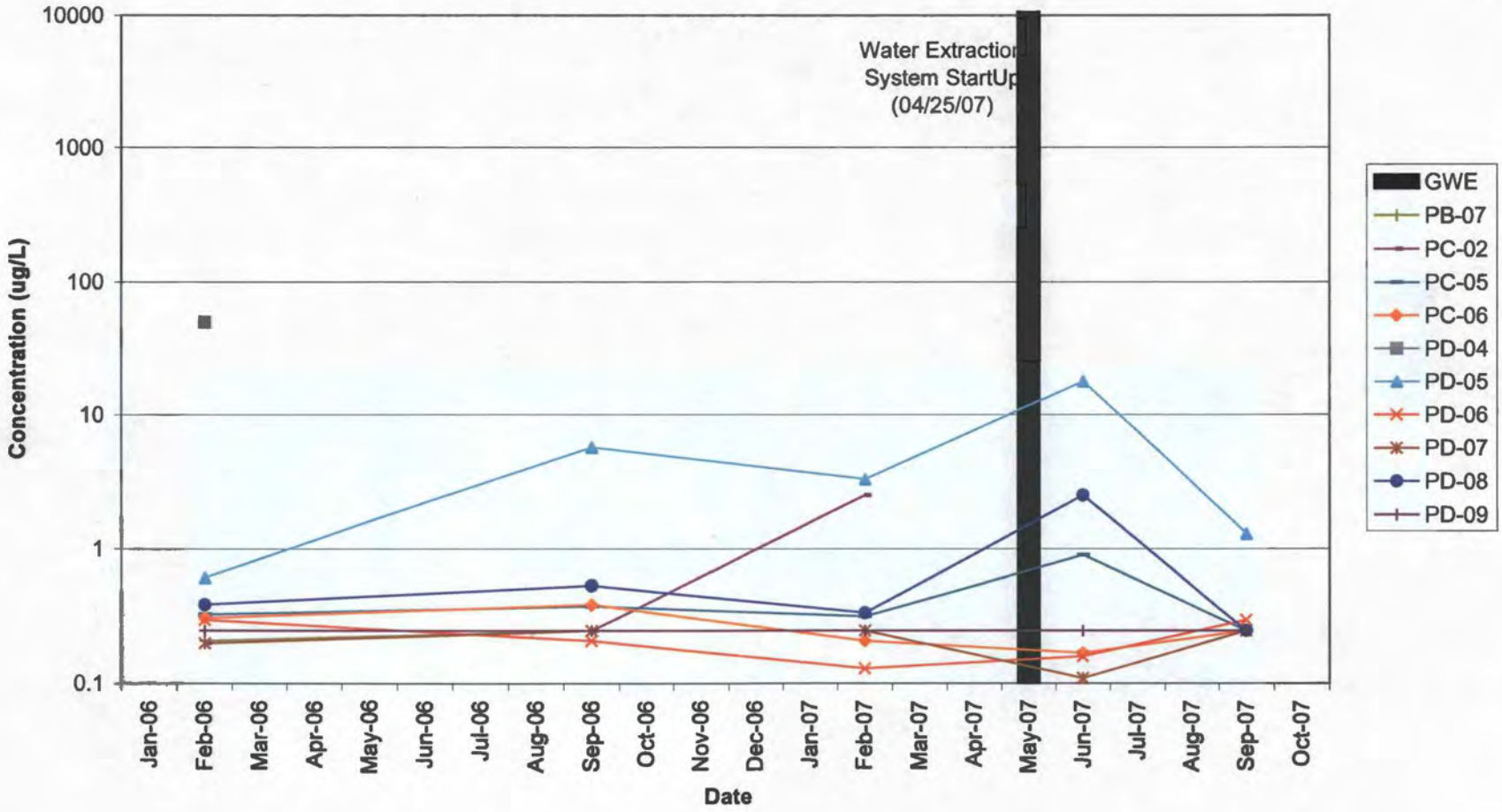
GRAPH 5-C
Benzene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Pemaco Superfund Site, Maywood, California



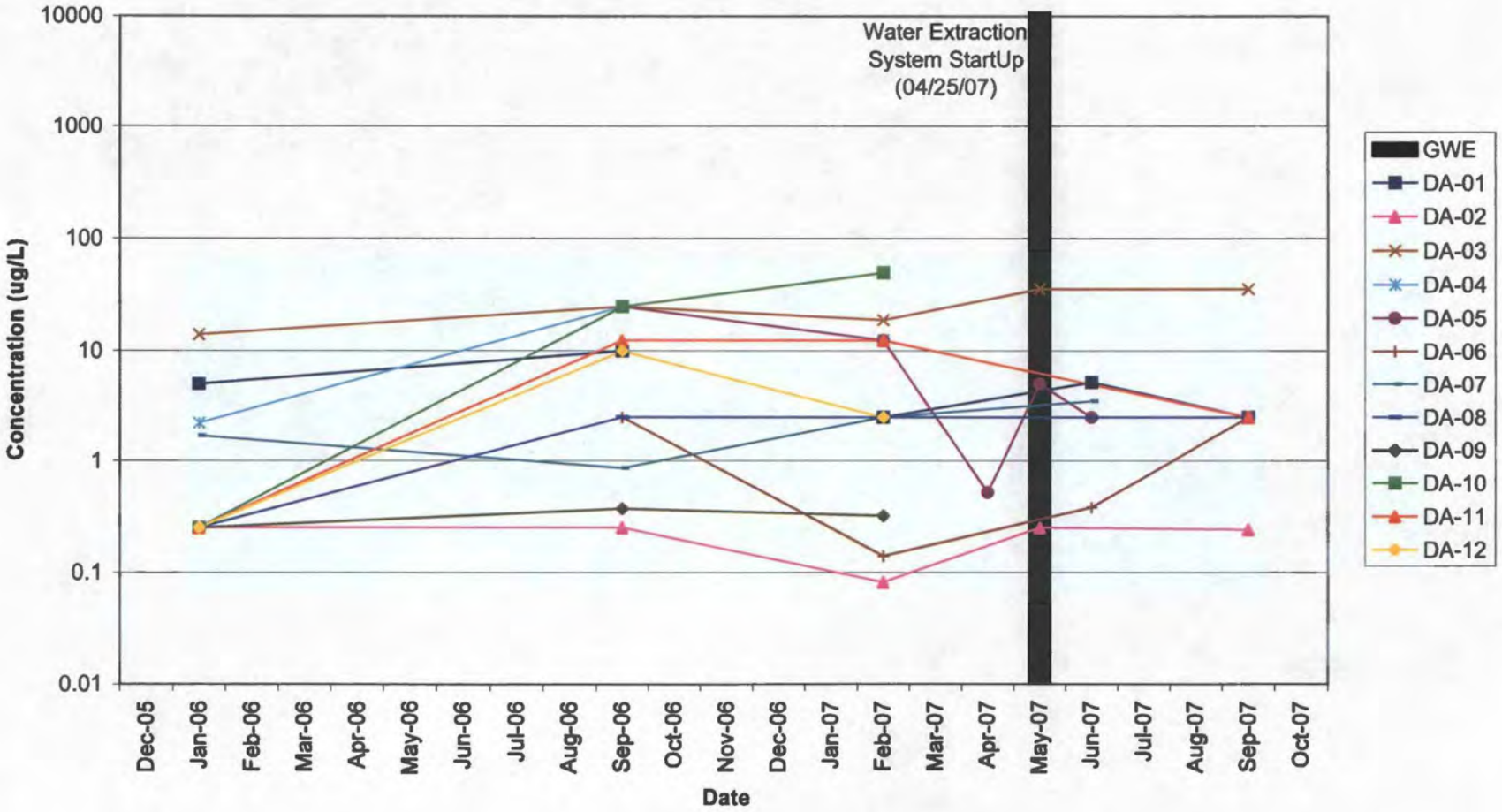
GRAPH 5-D
Benzene Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Pemaco Superfund Site, Maywood, California



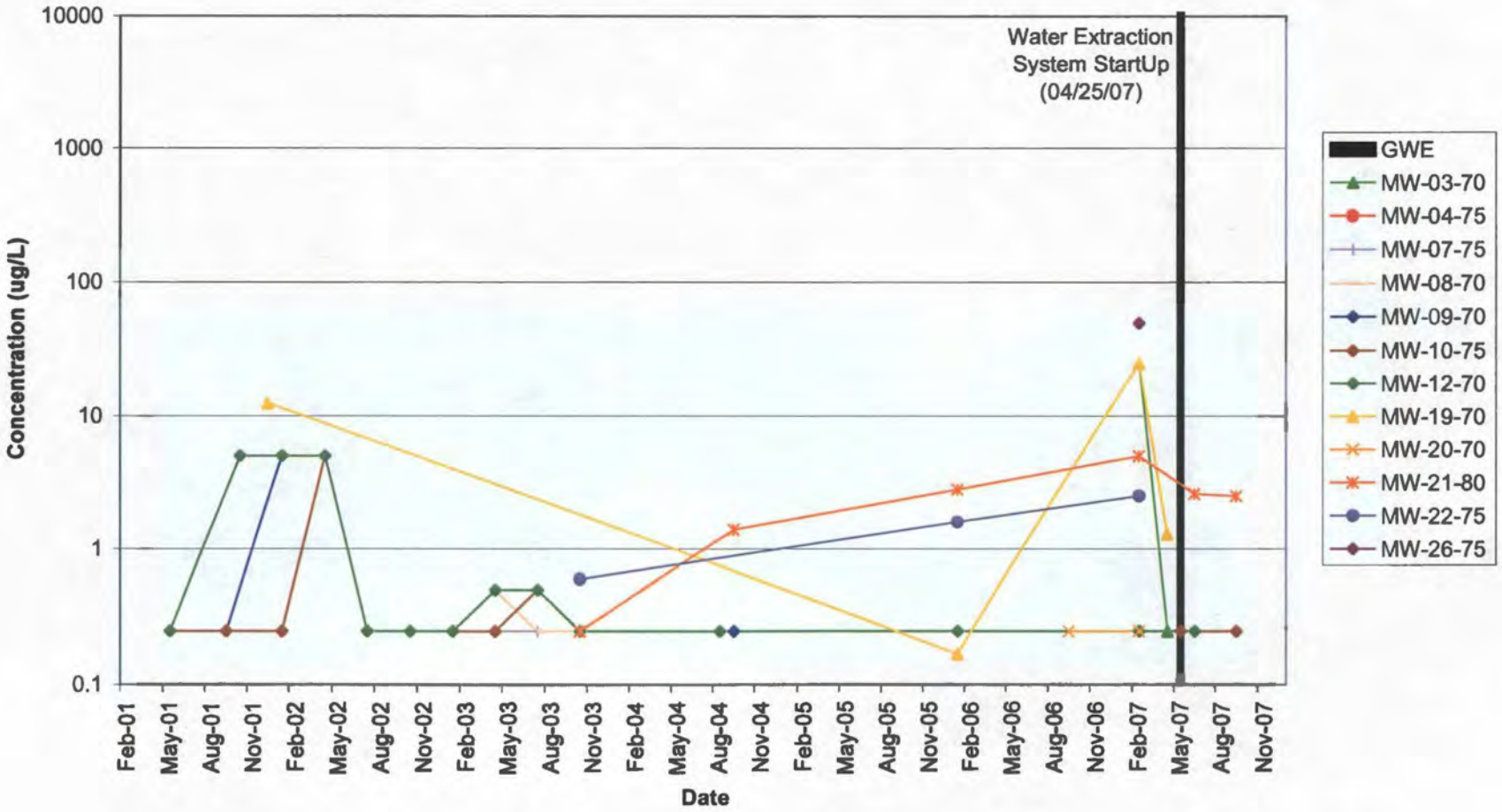
GRAPH 5-E
Benzene Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Pemaco Superfund Site, Maywood, California



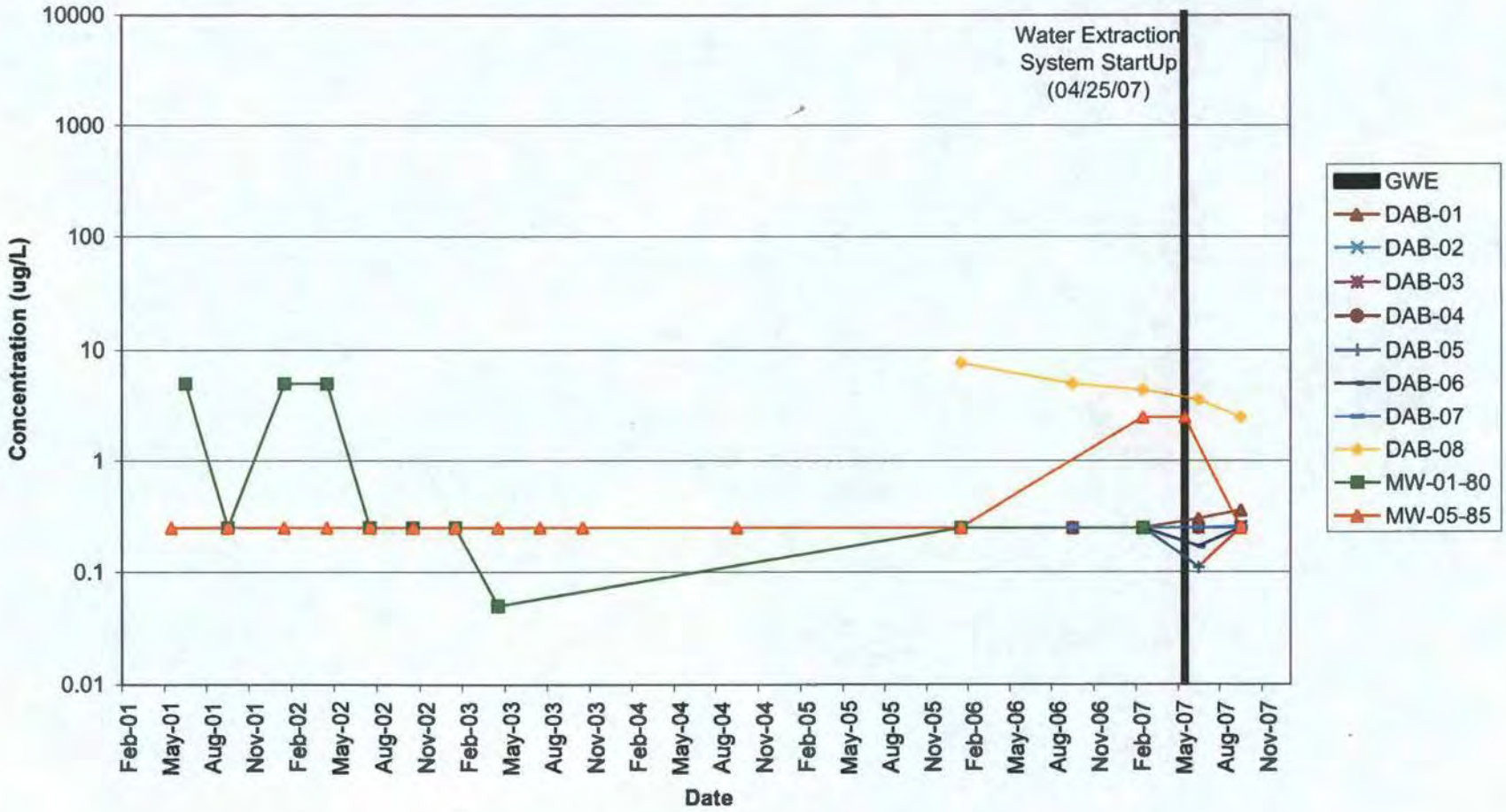
GRAPH 5-F
Benzene Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: DA-01 to DA-12
Pemaco Superfund Site, Maywood, California



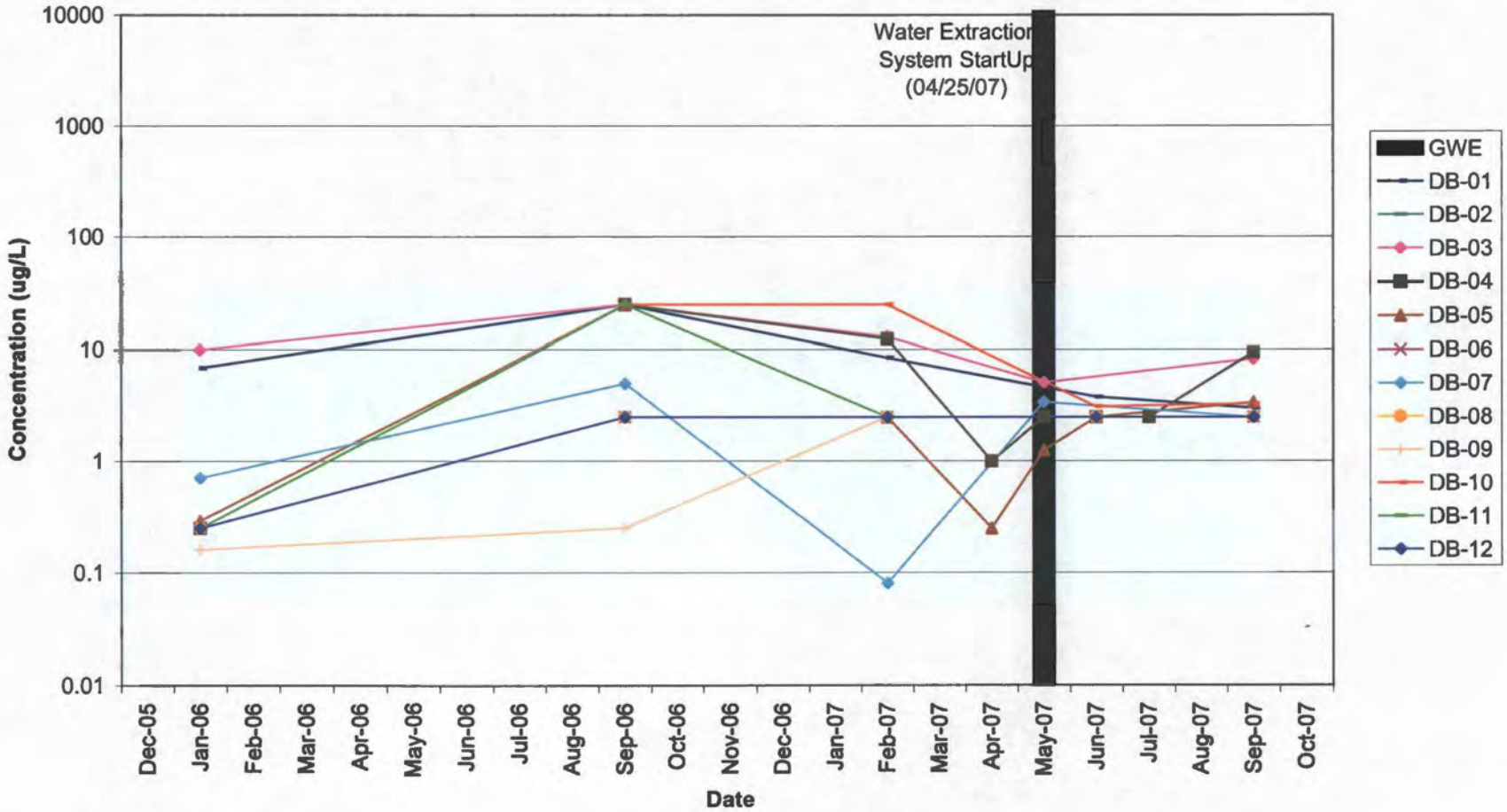
GRAPH 5-G
Benzene Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Pemaco Superfund Site, Maywood, California



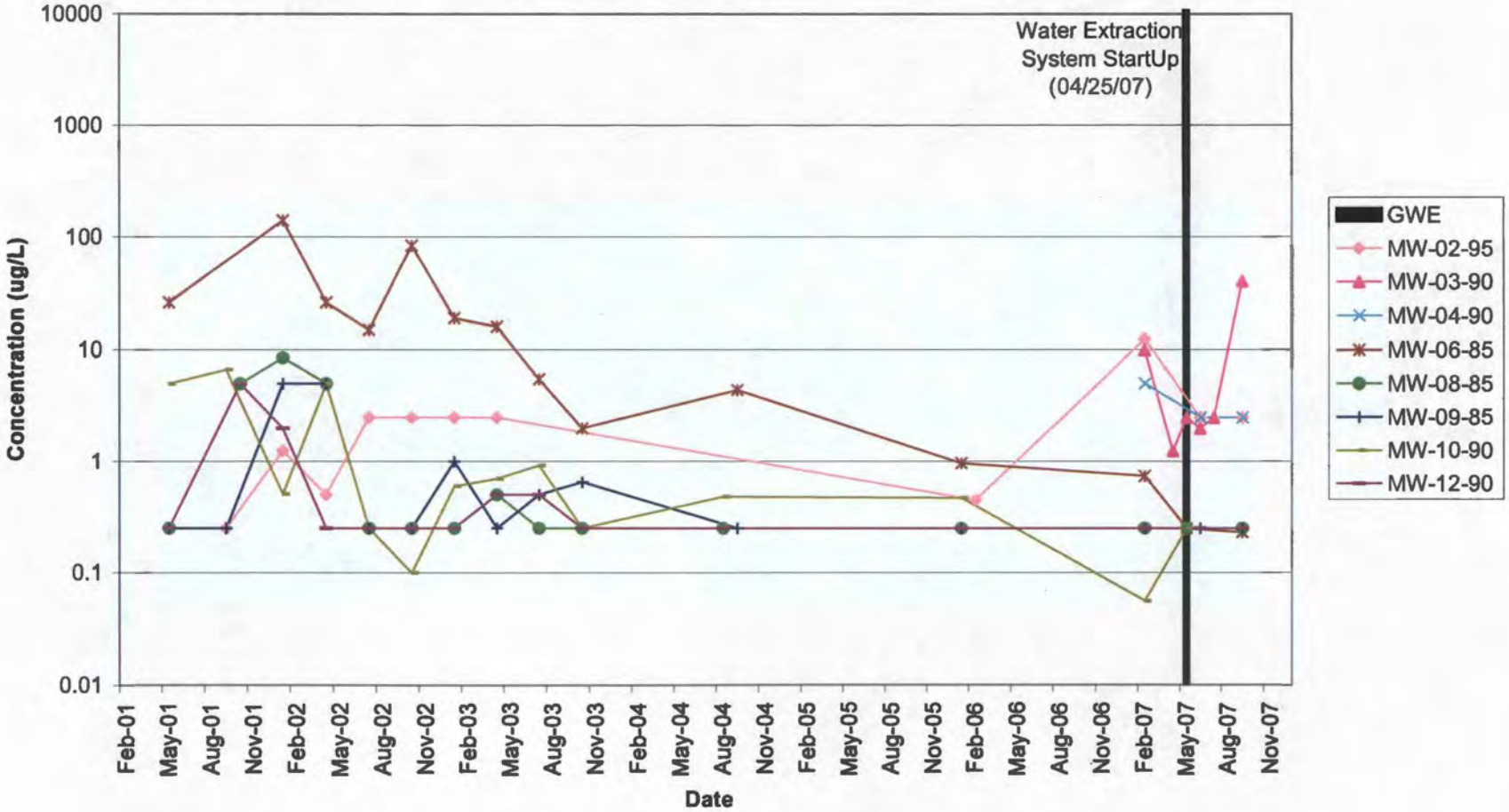
GRAPH 5-H
Benzene Concentrations in Groundwater vs. Time
Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Pemaco Superfund Site, Maywood, California



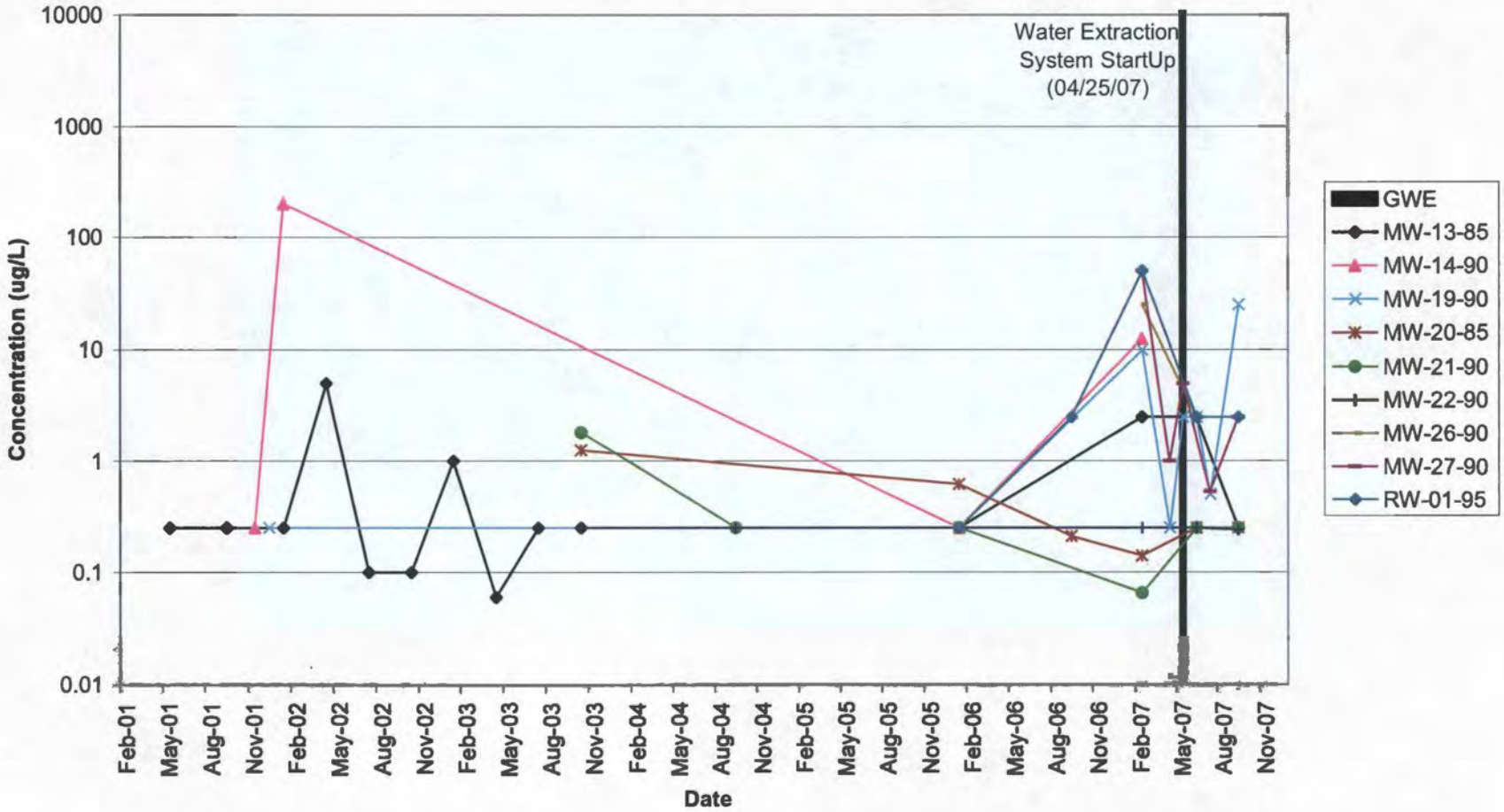
GRAPH 5-I
Benzene Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: DB-01 to DB-12
Pemaco Superfund Site, Maywood, California



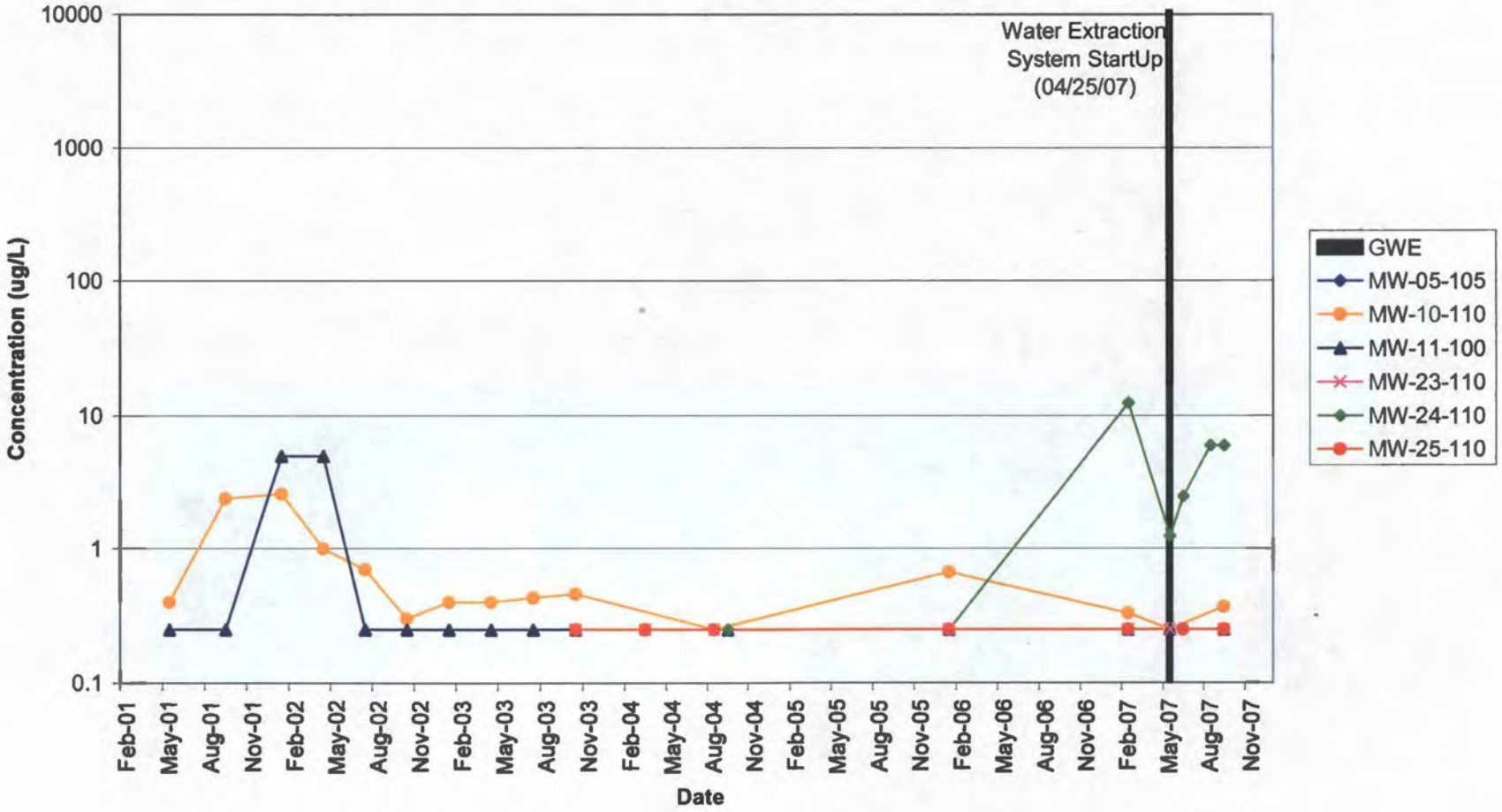
GRAPH 5-J
Benzene Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Pemaco Superfund Site, Maywood, California



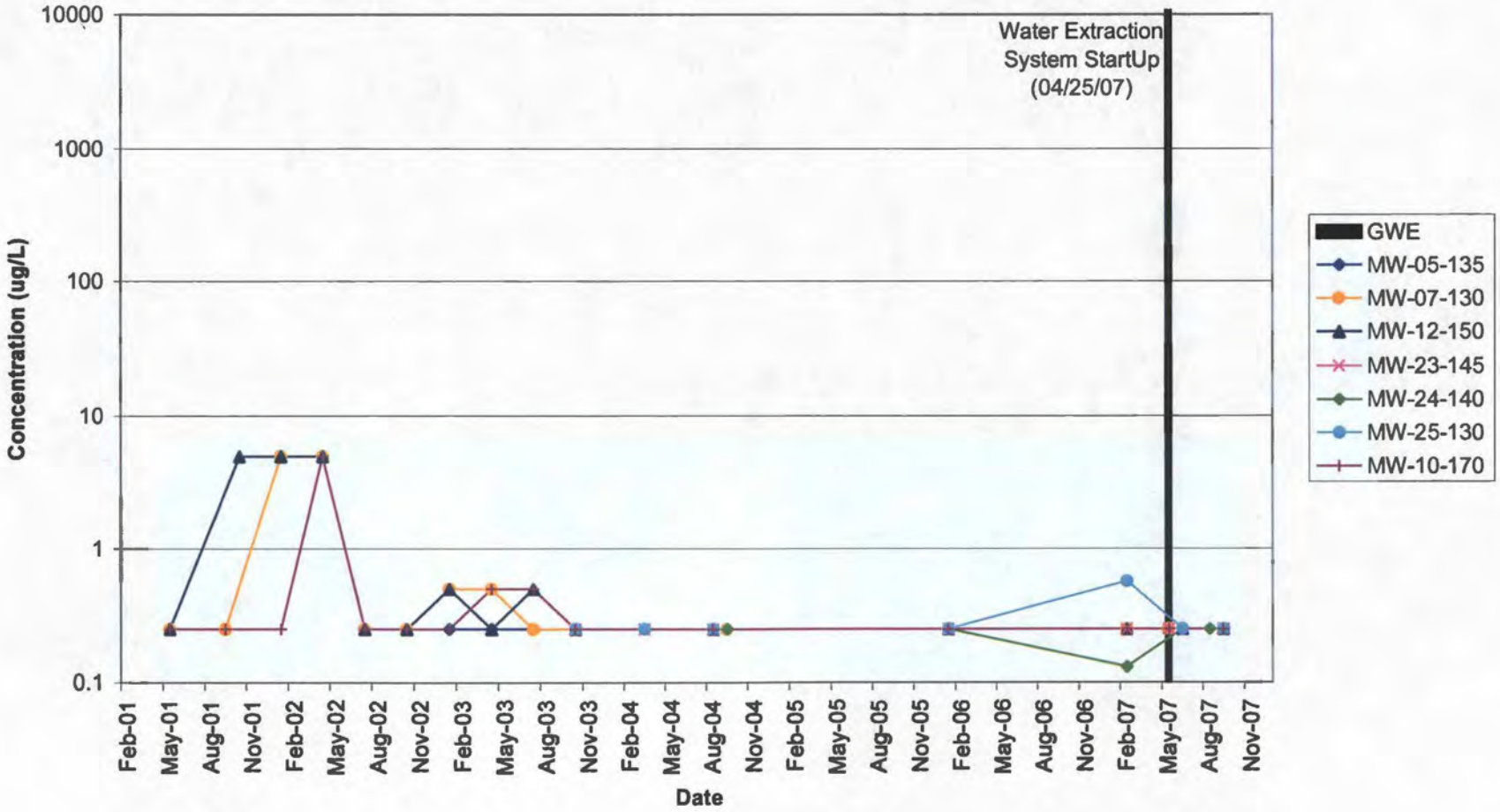
GRAPH 5-K
Benzene Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Pemaco Superfund Site, Maywood, California



GRAPH 5-L
Benzene Concentrations in Groundwater vs. Time
Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Pemaco Superfund Site, Maywood, California



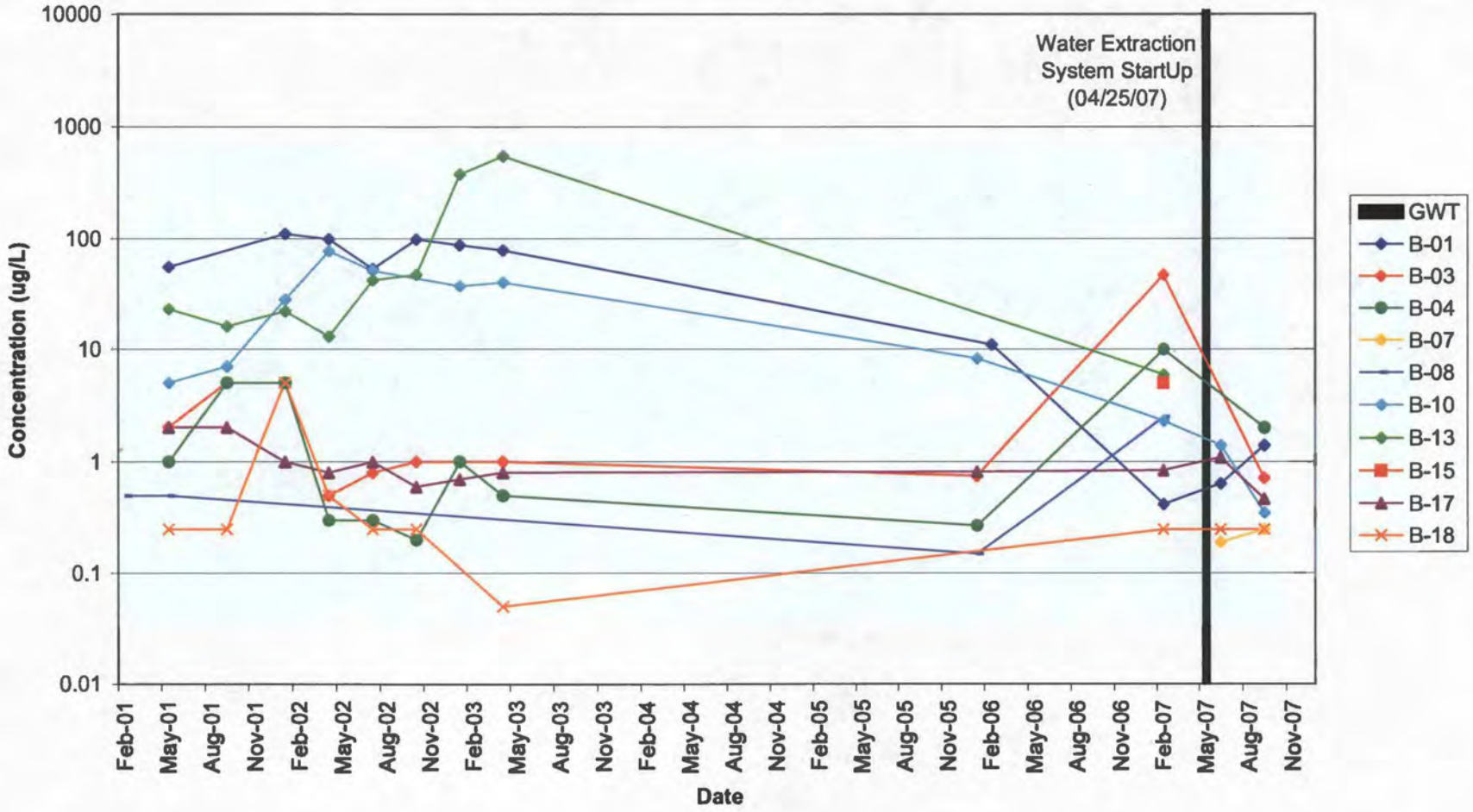
GRAPH 5-M
Benzene Concentrations in Groundwater vs. Time
Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170
Pemaco Superfund Site, Maywood, California



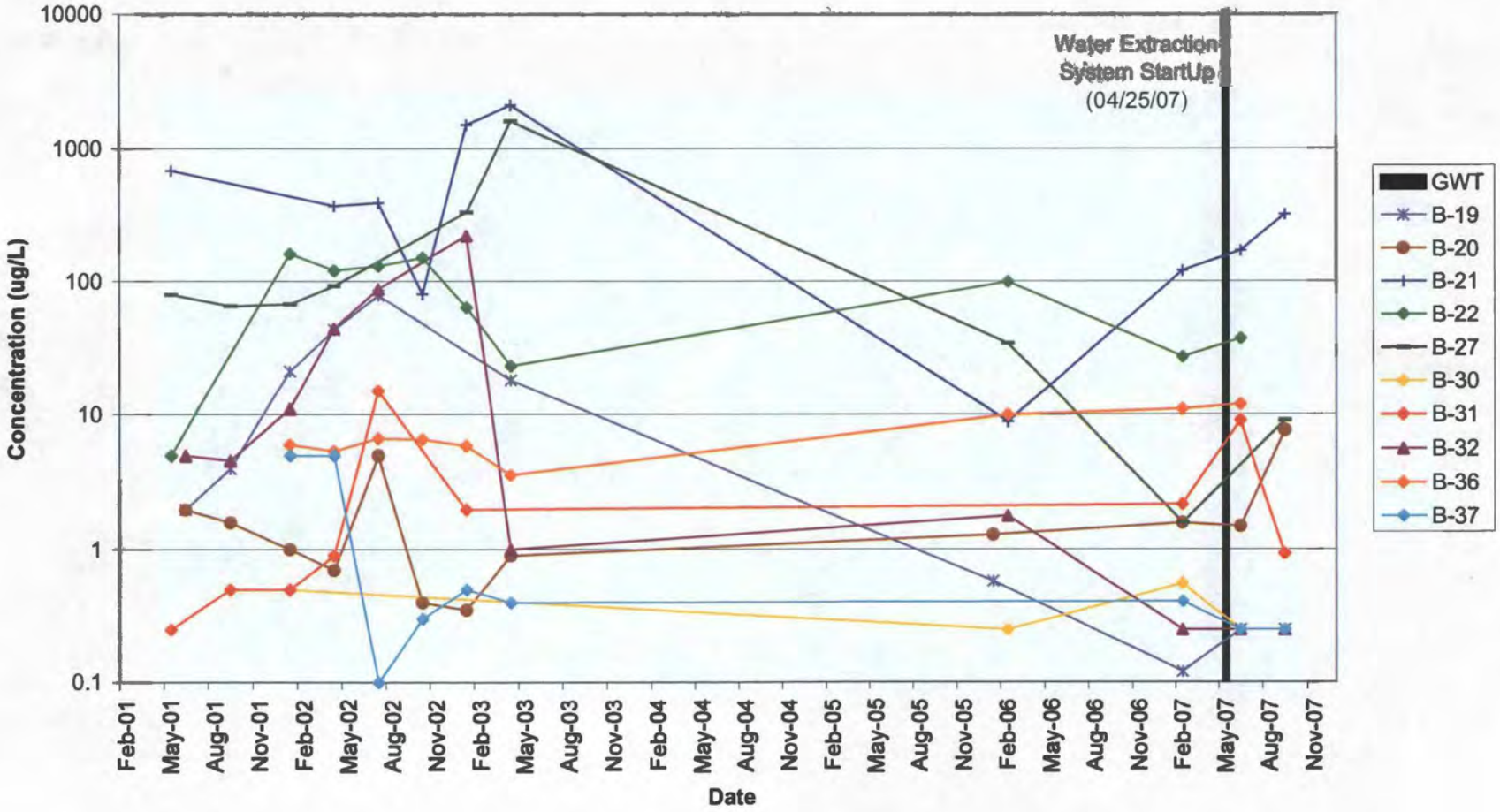
TREND GRAPHS FOR CIS-1,2-DICHLOROETHENE (Cis-1,2-DCE)

Graph 6-A	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Perched Zone Wells: B–01 to B-18
Graph 6-B	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Perched Zone Wells: B–19 to B-37
Graph 6-C	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Perched Zone Wells: B–38, B-39; SV-01, SV-03 & SV-05
Graph 6-D	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Graph 6-E	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Perched Zone Wells: PB-07; PC-02 to PC -06; PD-04 to PD-09
Graph 6-F	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: DA-01 to DA-12
Graph 6-G	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Graph 6-H	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Graph 6-I	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: DB-01 to DB-12
Graph 6-J	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Graph 6-K	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Graph 6-L	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Graph 6-M	Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170

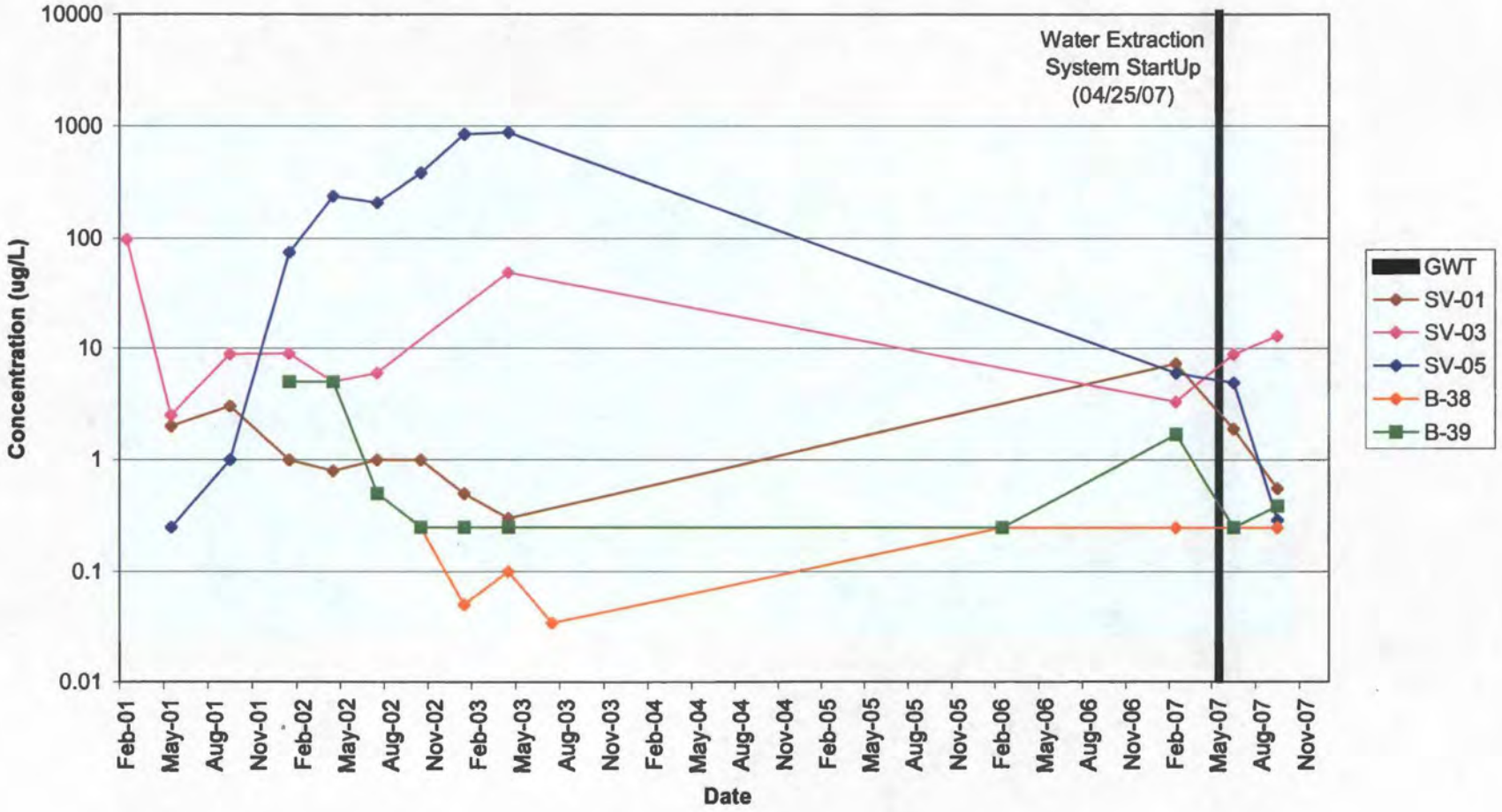
GRAPH 6-A
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-01 to B-18
Pemaco Superfund Site, Maywood, California



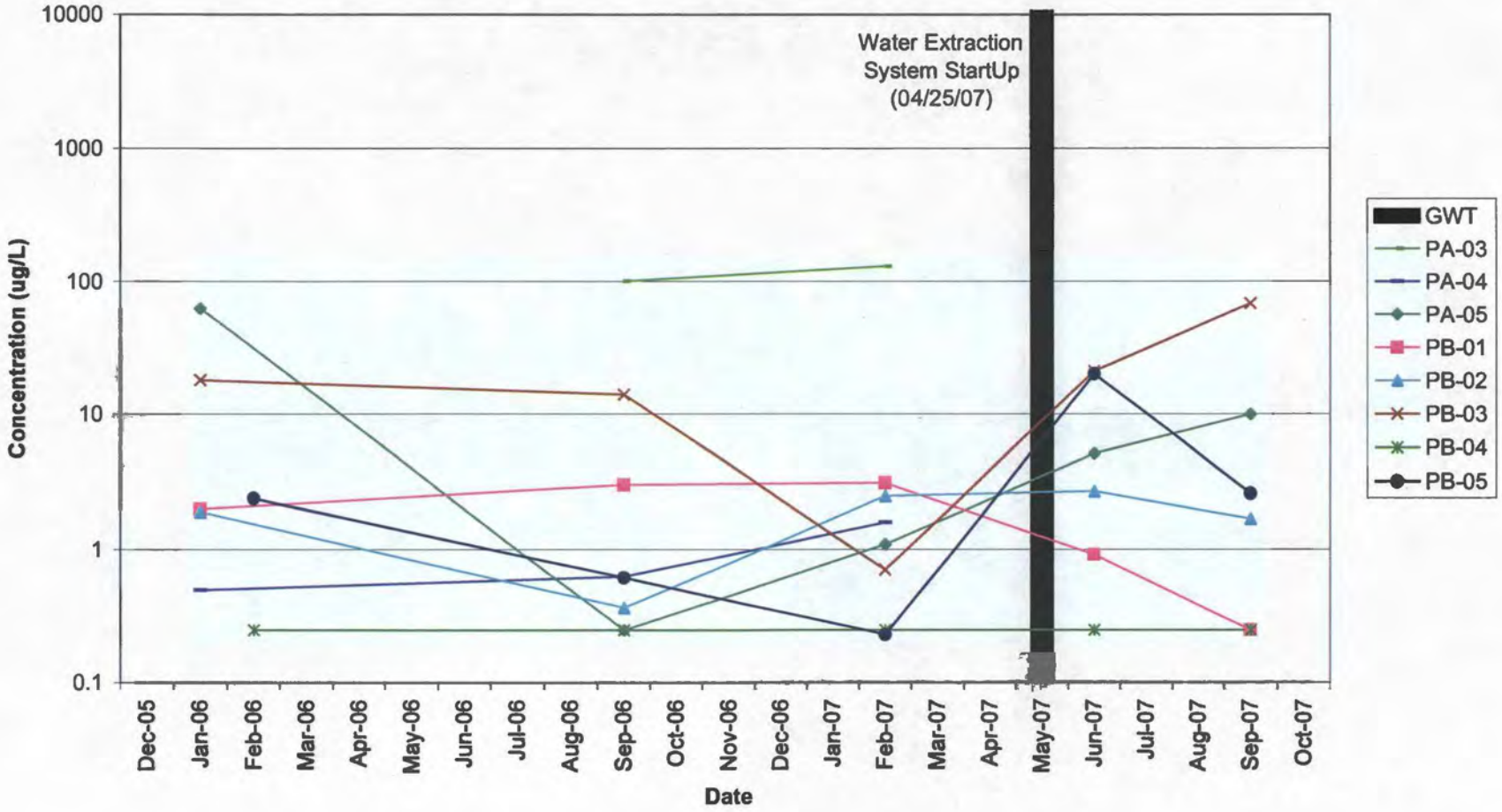
GRAPH 6-B
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37
Pemaco Superfund Site, Maywood, California



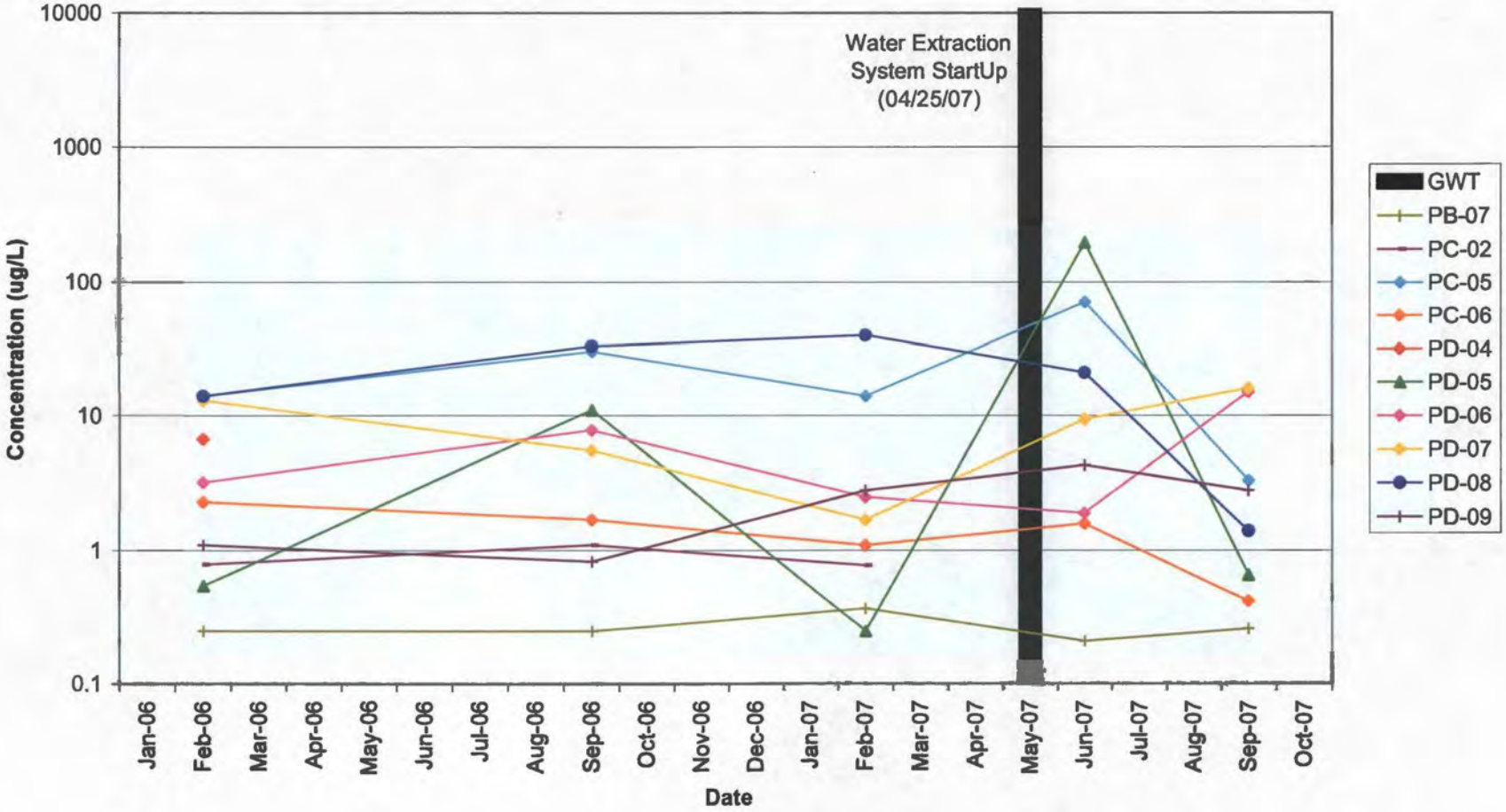
GRAPH 6-C
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Pemaco Superfund Site, Maywood, California



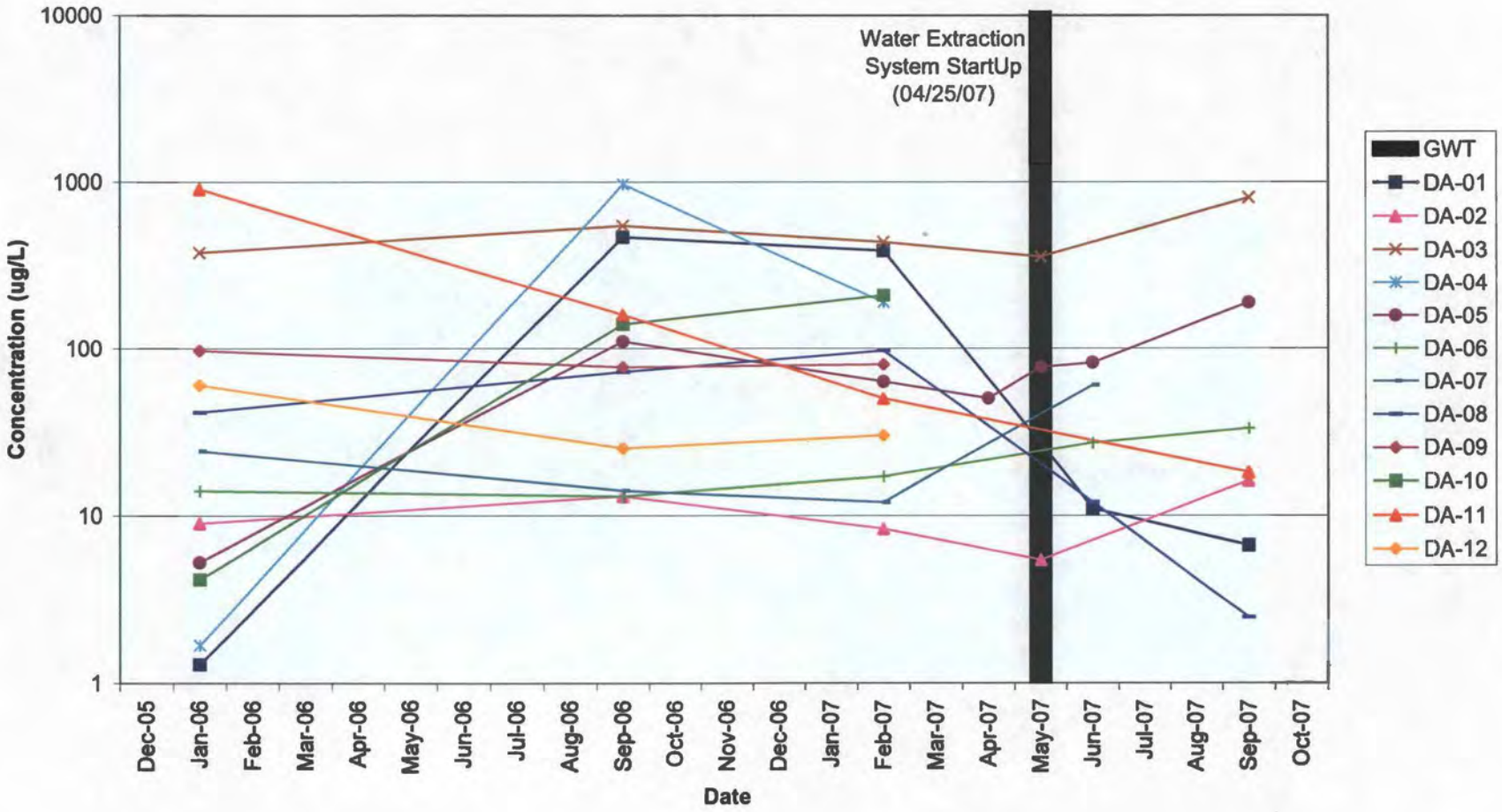
GRAPH 6-D
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Pemaco Superfund Site, Maywood, California



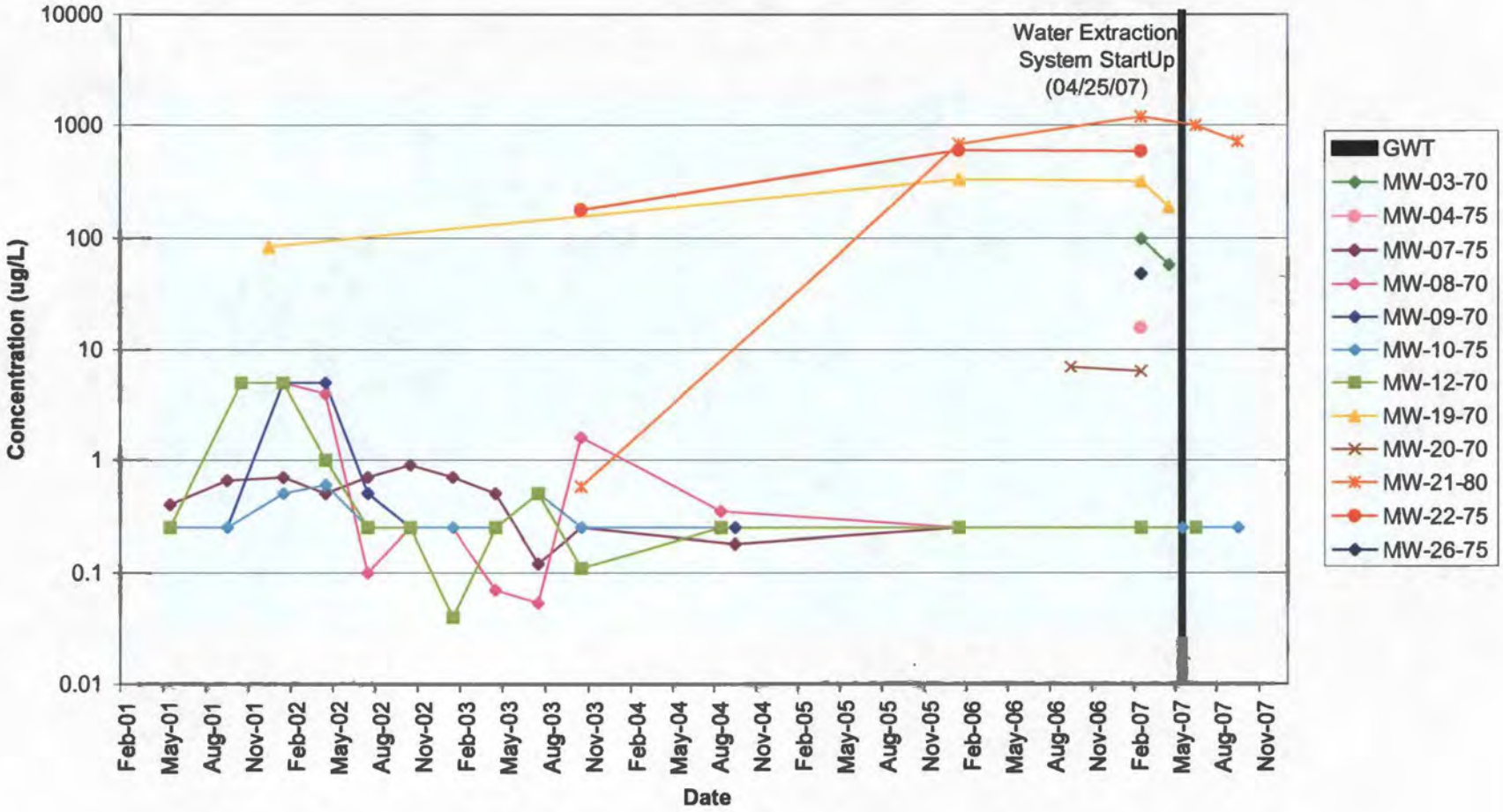
GRAPH 6-E
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Pemaco Superfund Site, Maywood, California



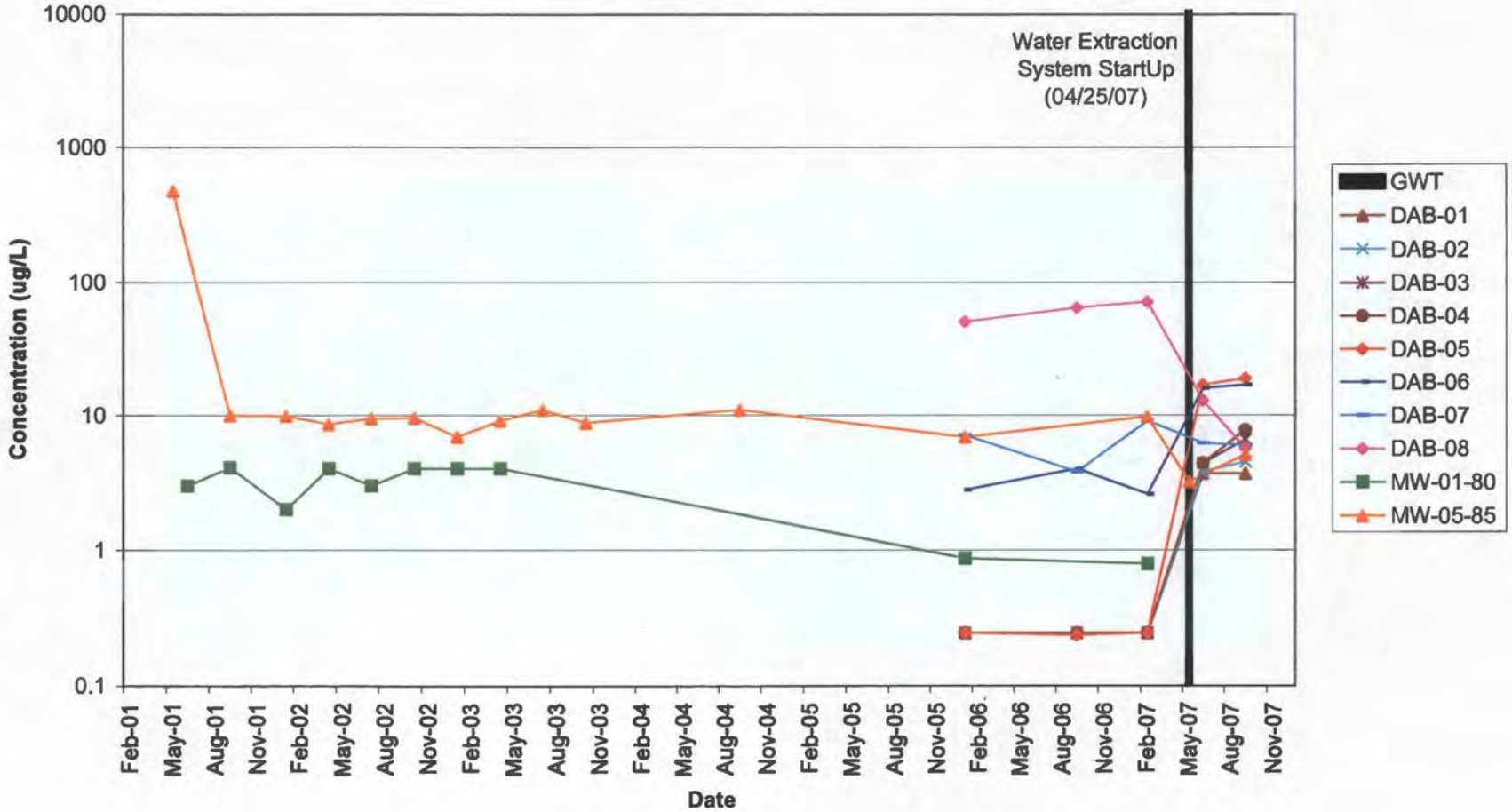
GRAPH 6-F
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: DA-01 to DA-12
Pemaco Superfund Site, Maywood, California



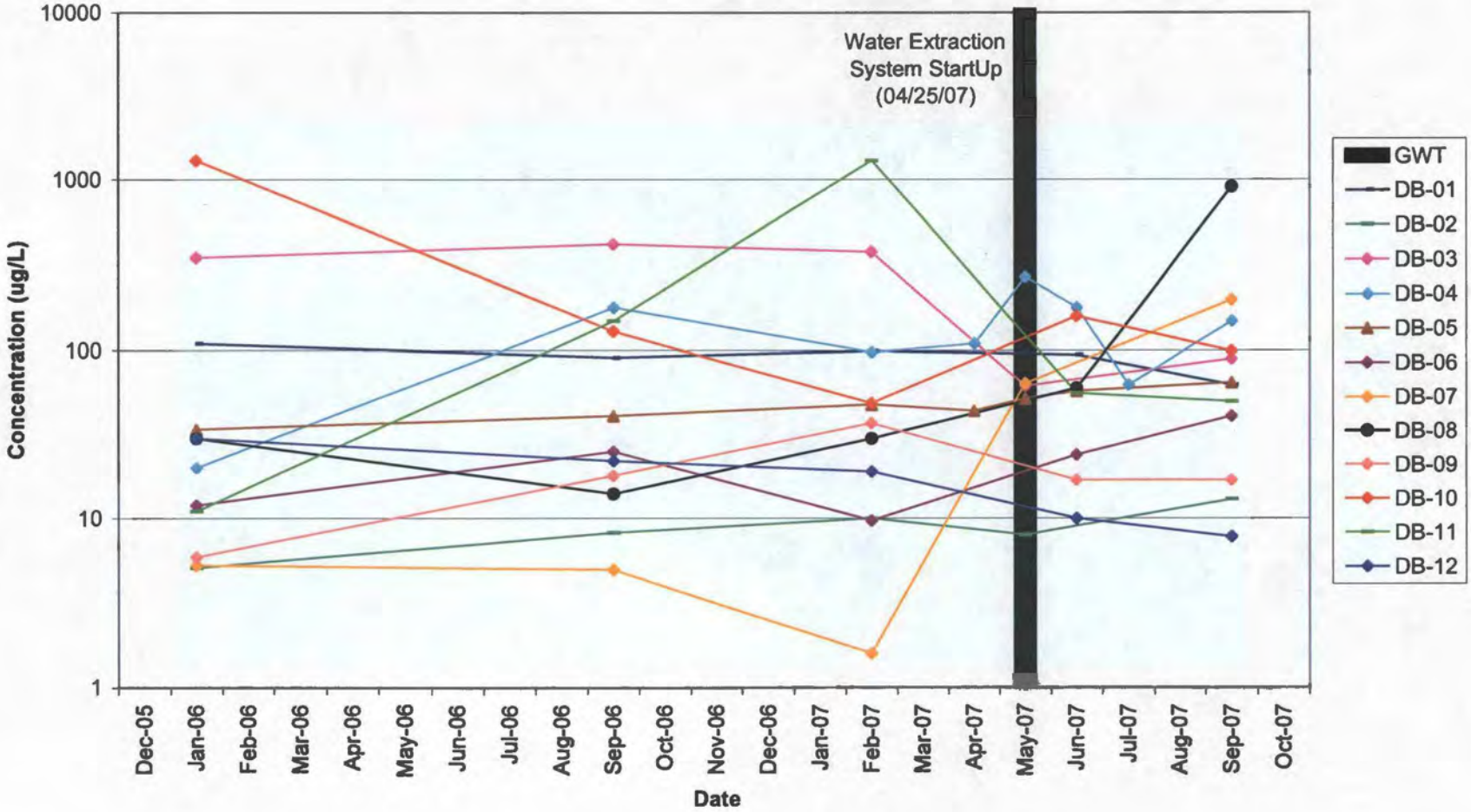
GRAPH 6-G
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Pemaco Superfund Site, Maywood, California



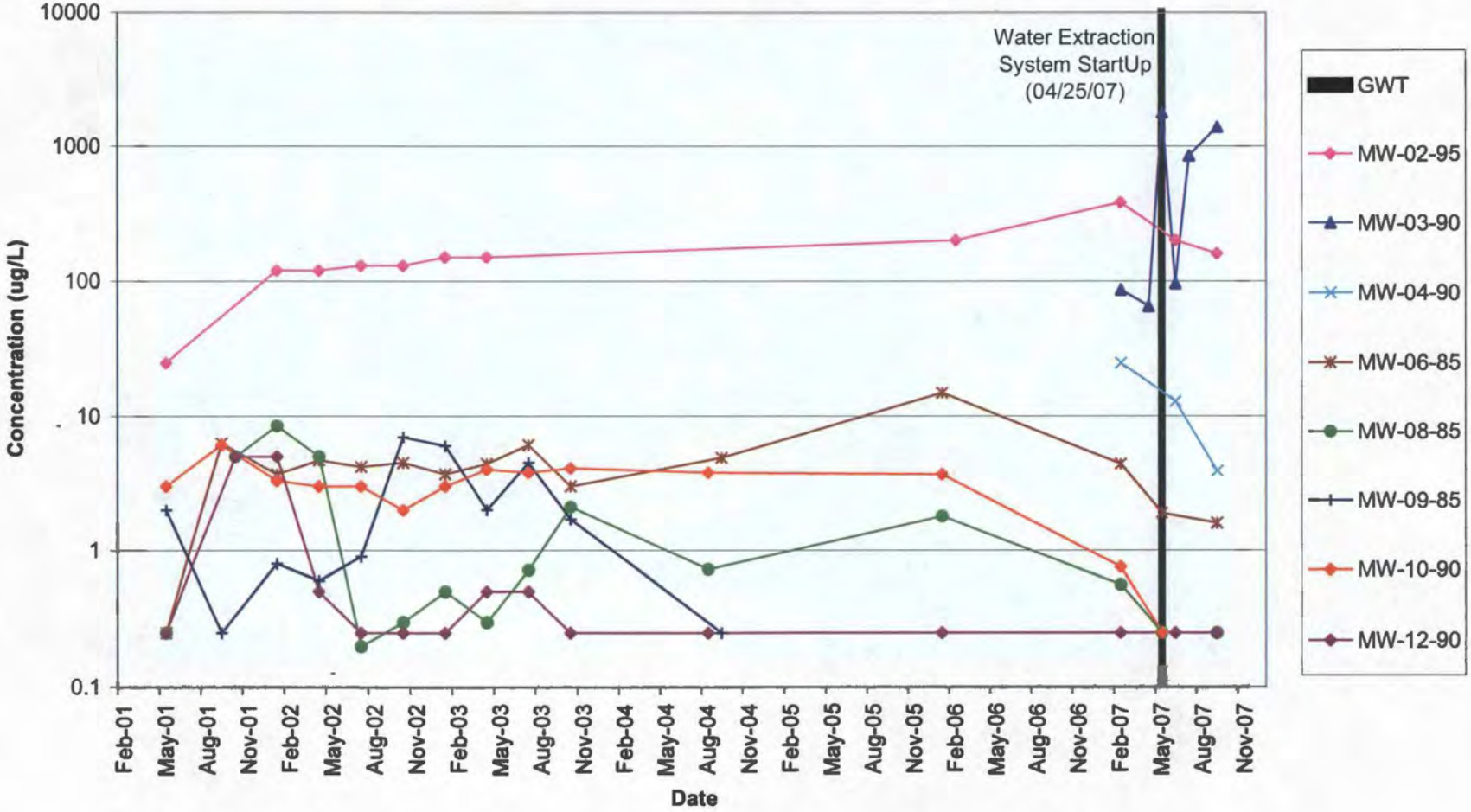
GRAPH 6-H
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Pemaco Superfund Site, Maywood, California



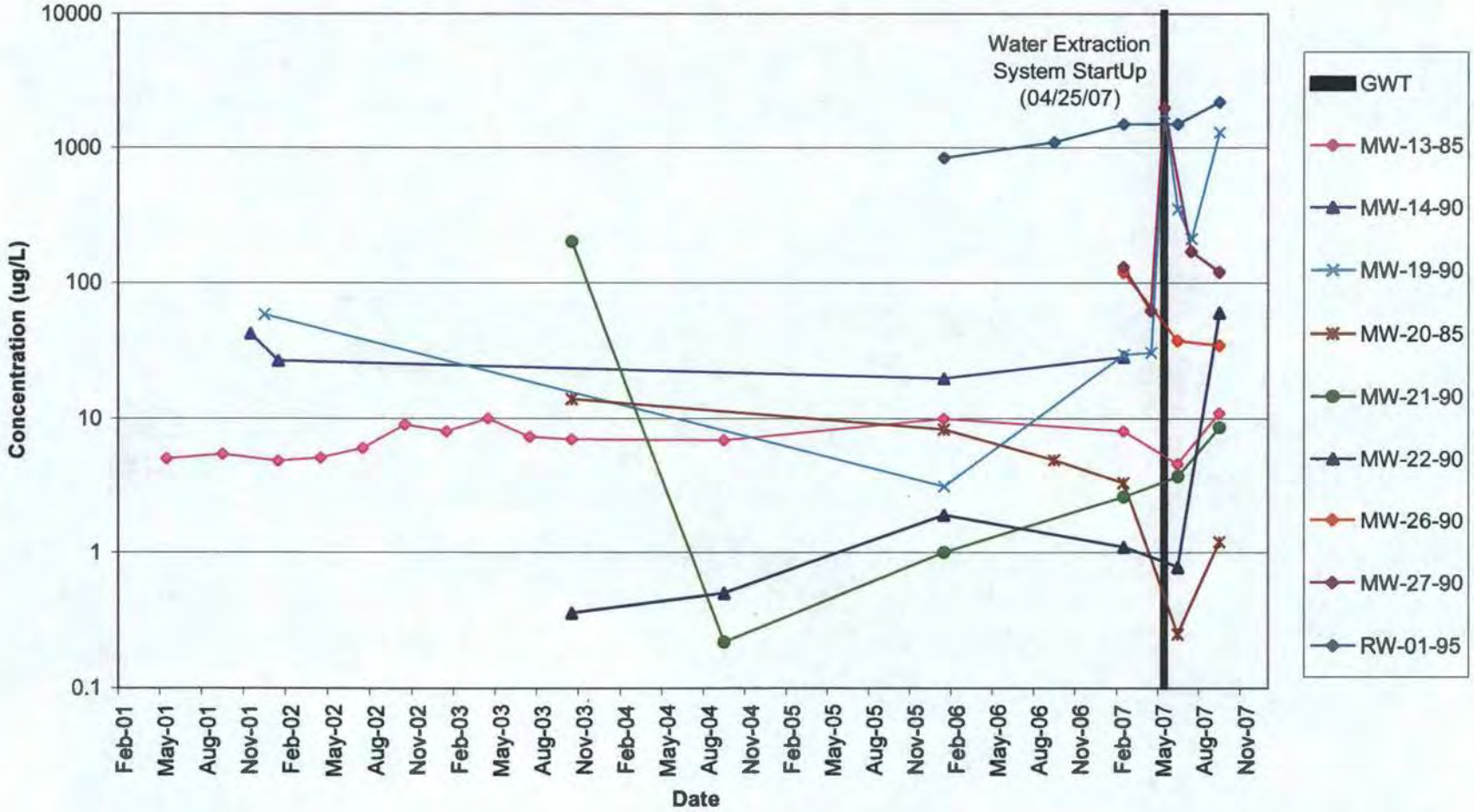
GRAPH 6-I
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: DB-01 to DB-12
Pemaco Superfund Site, Maywood, California



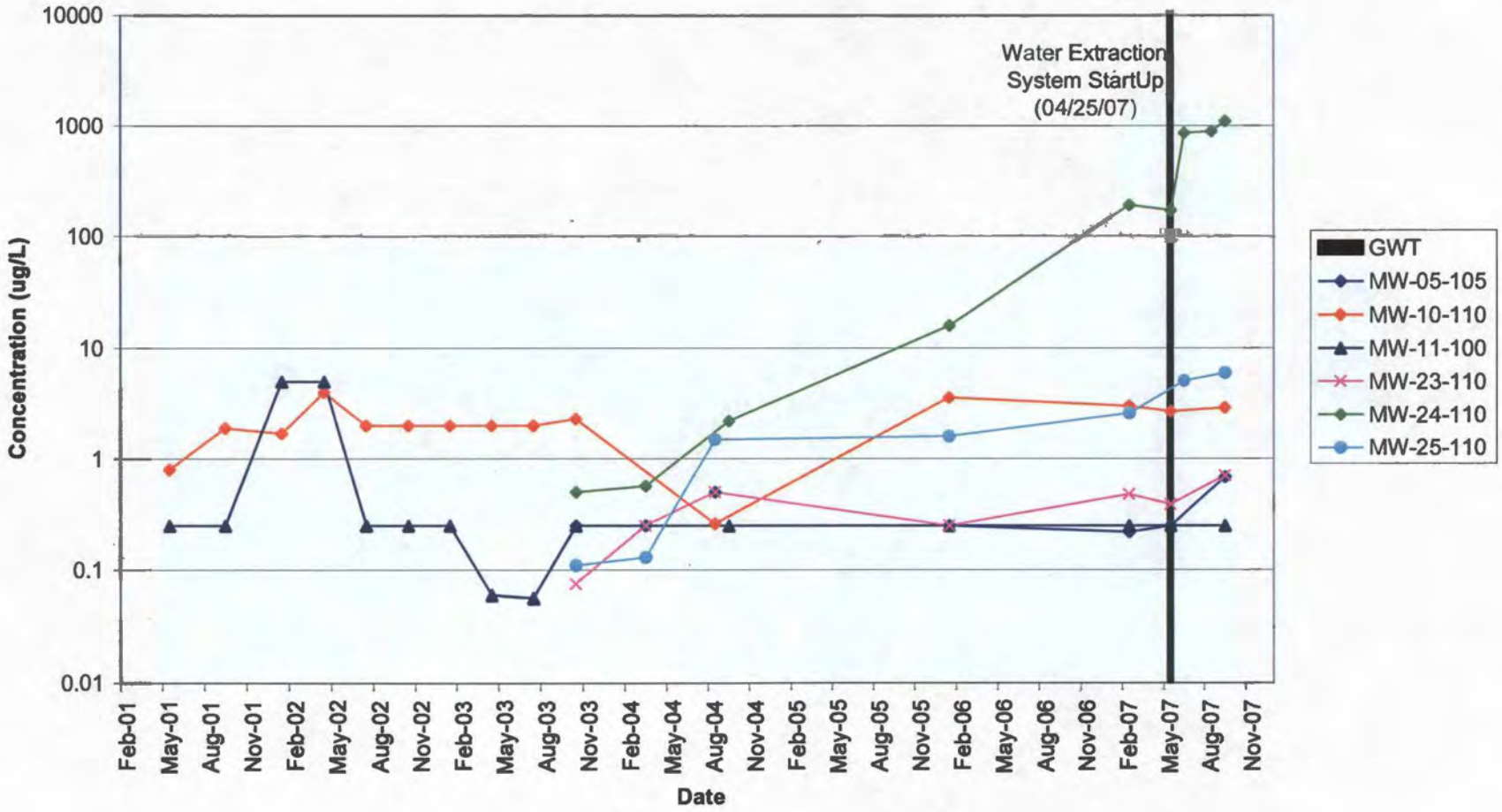
GRAPH 6-J
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW02-95 to MW-12-90
Pemaco Superfund Site, Maywood, California



GRAPH 6-K
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Pemaco Superfund Site, Maywood, California

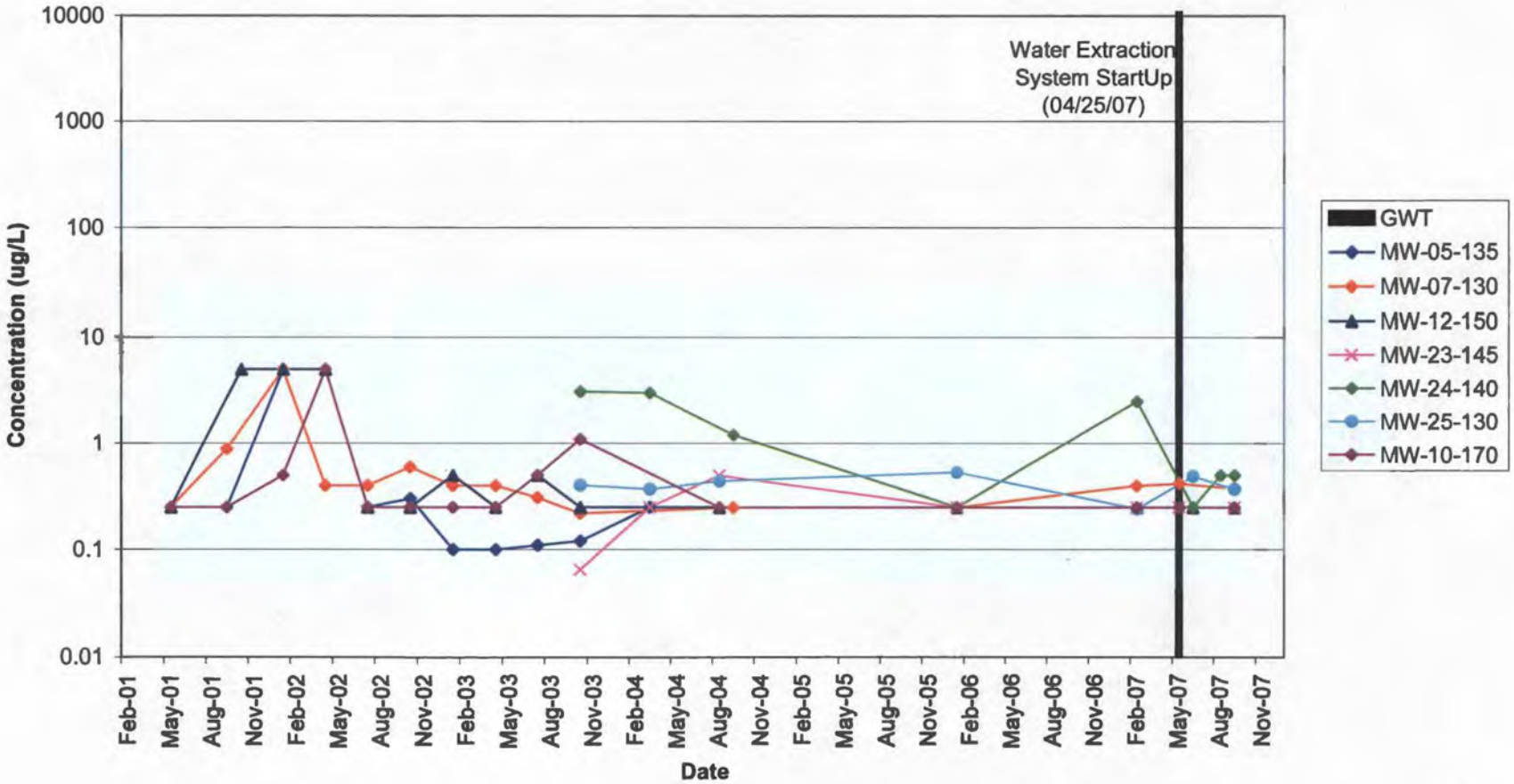


GRAPH 6-L
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Pemaco Superfund Site, Maywood, California



GRAPH 6-M

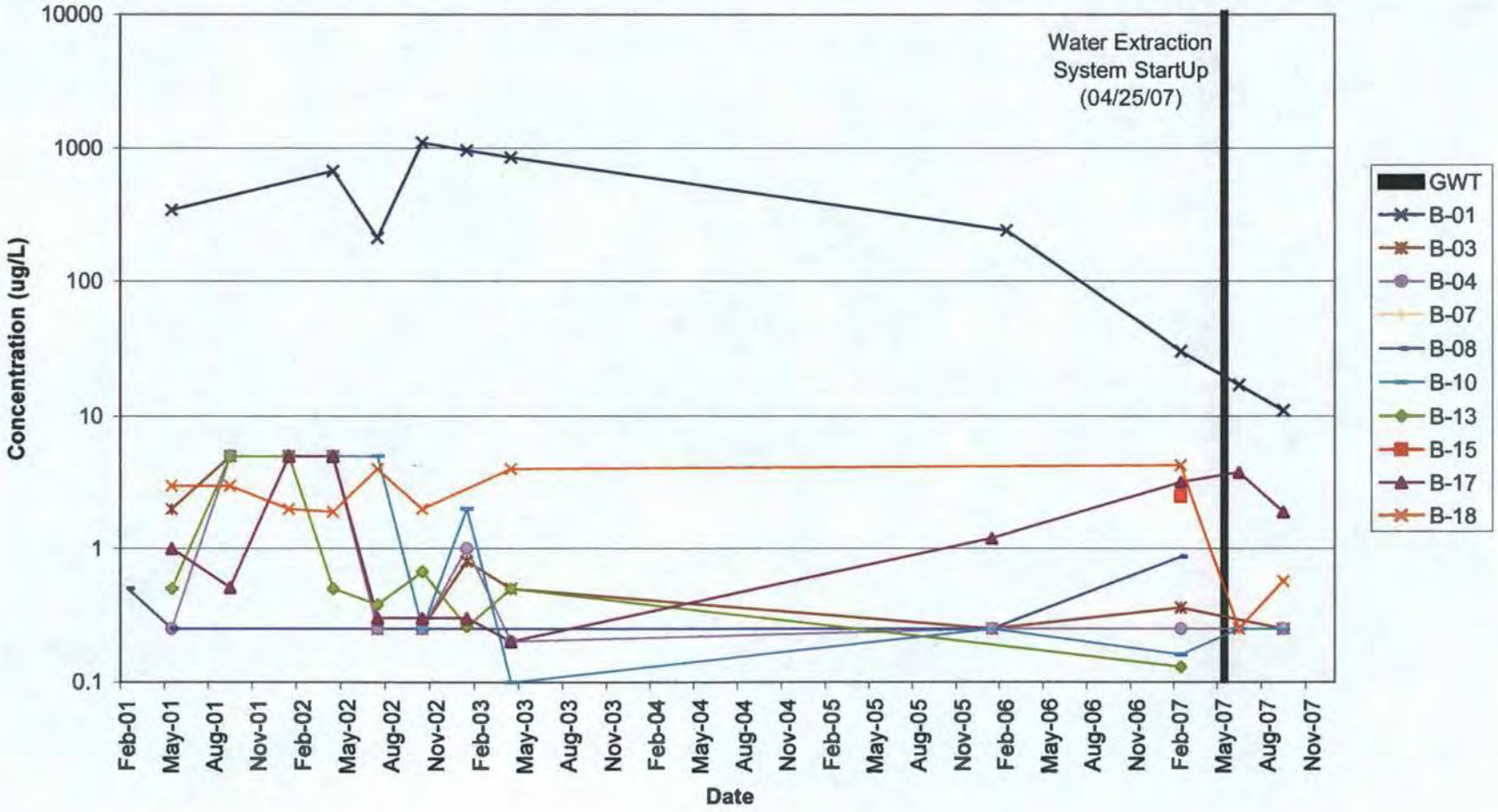
Cis-1,2-Dichloroethene Concentrations in Groundwater vs. Time
Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170
Pemaco Superfund Site, Maywood, California



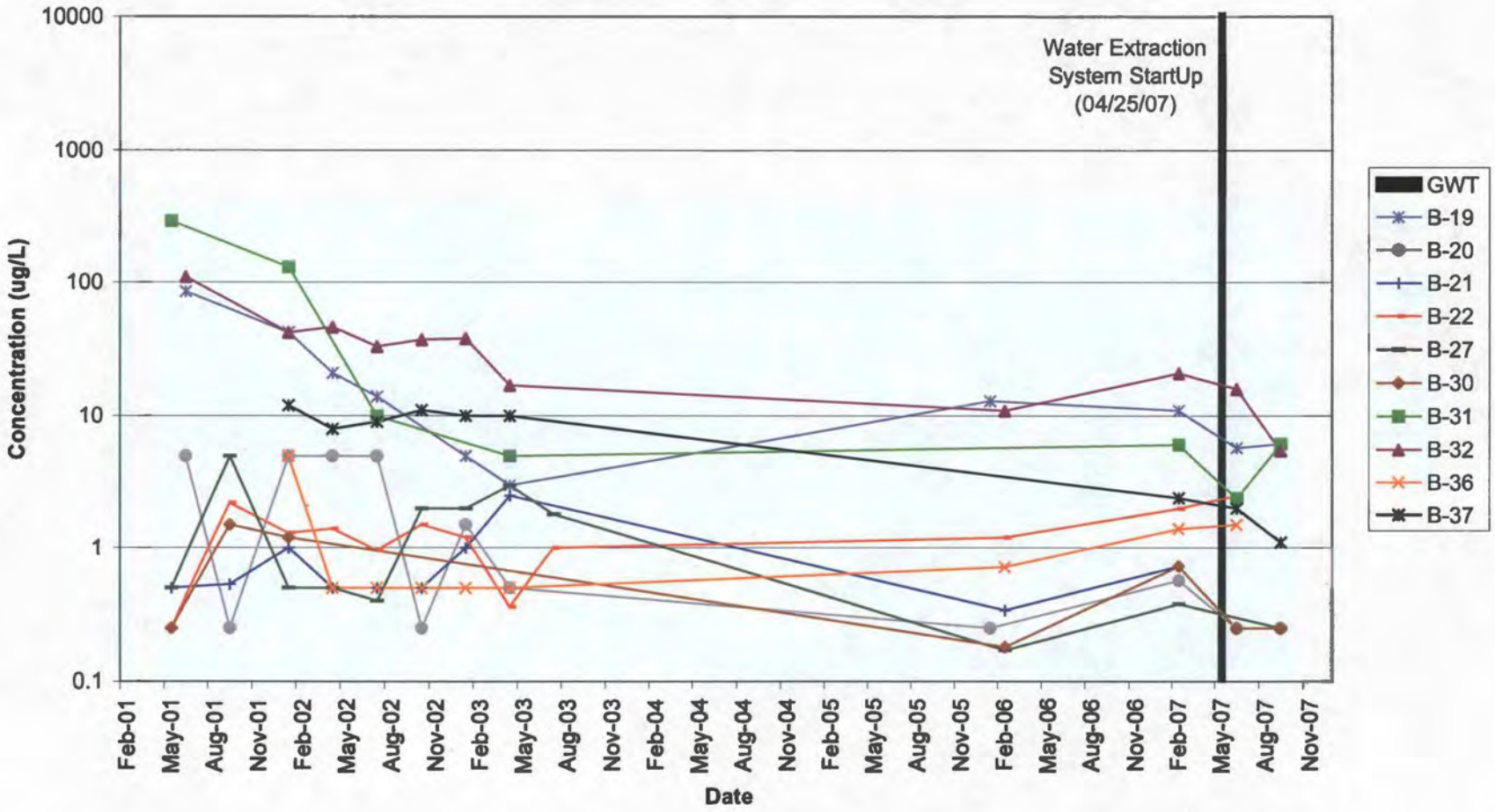
TREND GRAPHS FOR TETRACHLOROETHENE (PCE)

Graph 7-A	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Perched Zone Wells: B-01 to B-18
Graph 7-B	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Perched Zone Wells: B-19 to B-37
Graph 7-C	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Graph 7-D	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Graph 7-E	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Perched Zone Wells: PB-07; PC-02 to PC -06; PD-04 to PD-09
Graph 7-F	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: DA-01 to DA-12
Graph 7-G	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Graph 7-H	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Graph 7-I	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: DB-01 to DB-12
Graph 7-J	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Graph 7-K	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Graph 7-L	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Graph 7-M	Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170

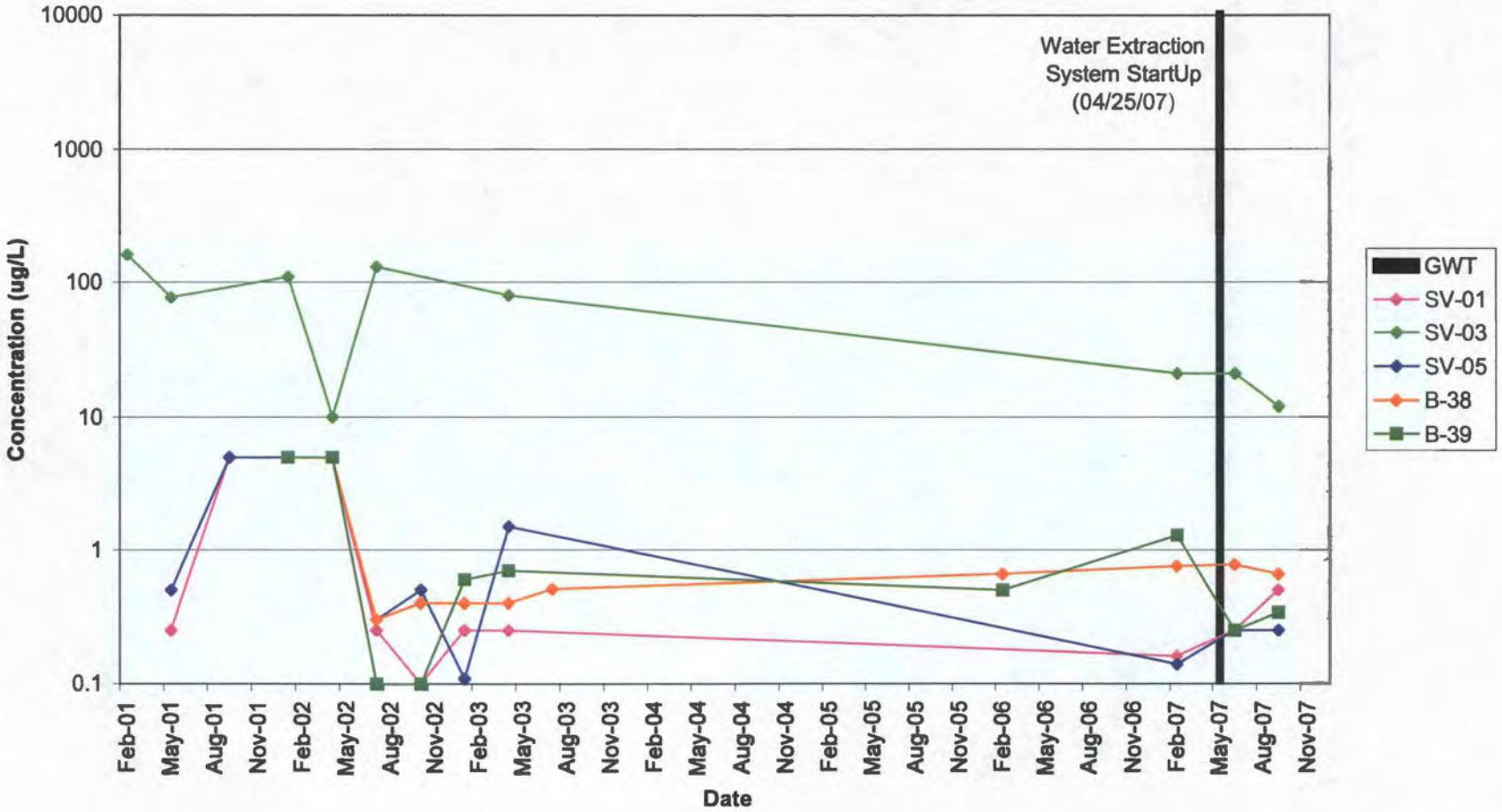
GRAPH 7-A
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: B-01 to B-18
Pemaco Superfund Site, Maywood, California



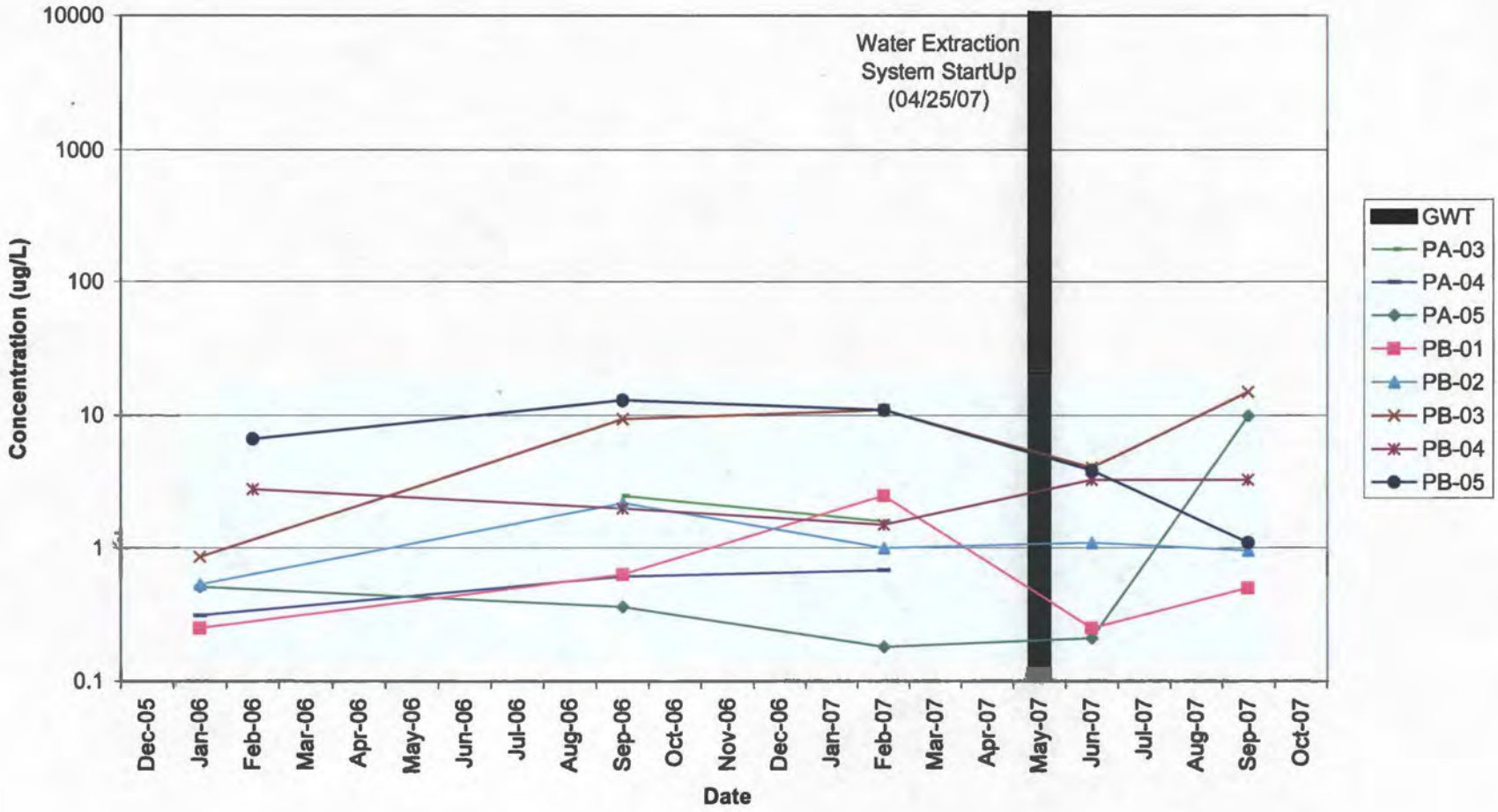
GRAPH 7-B
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37
Pemaco Superfund Site, Maywood, California



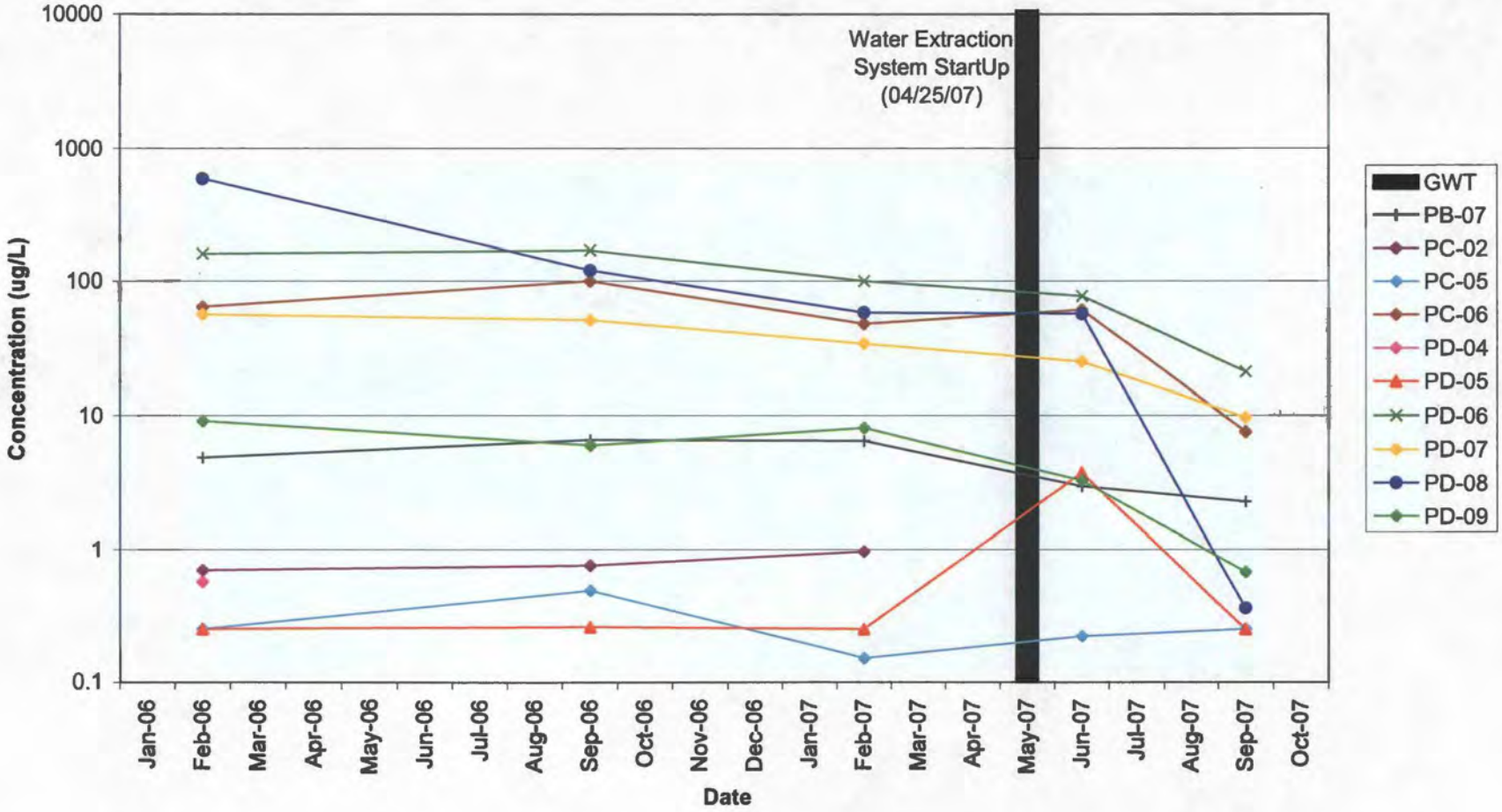
GRAPH 7-C
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B39; SV-01, SV-03 & SV-05
Pemaco Superfund Site, Maywood, California



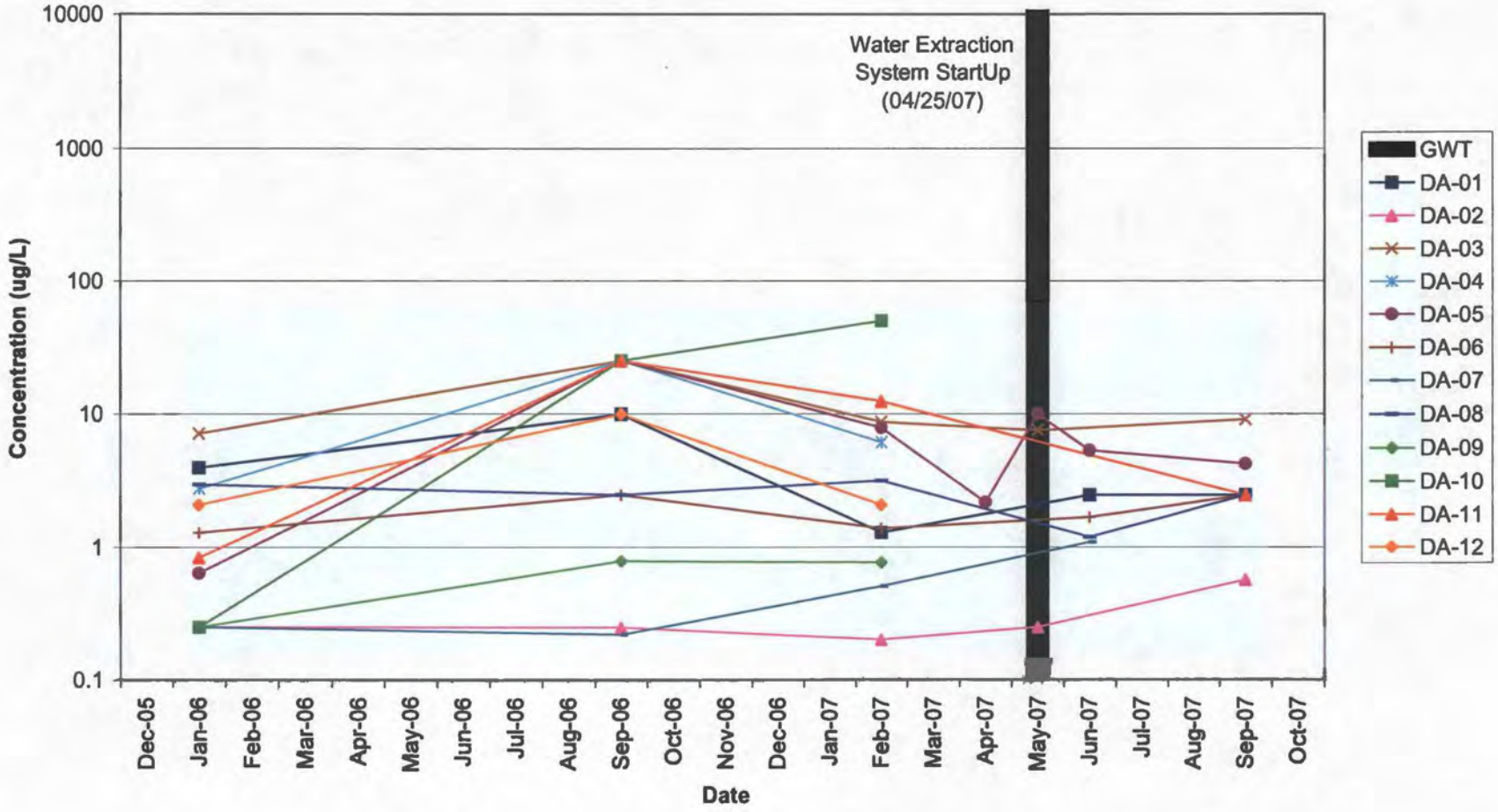
GRAPH 7-D
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05
Pemaco Superfund Site, Maywood, California



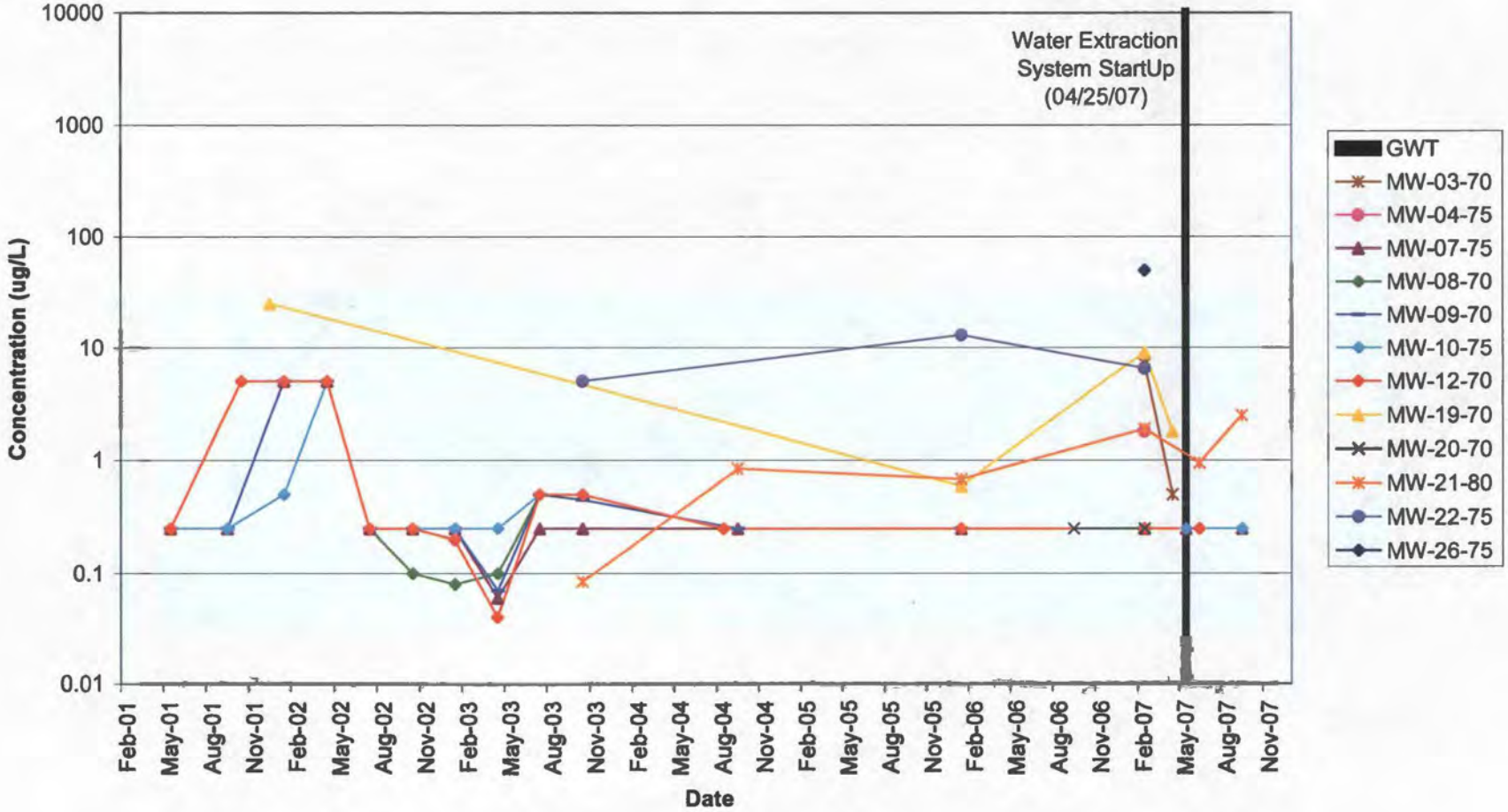
GRAPH 7-E
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Pemaco Superfund Site, Maywood, California



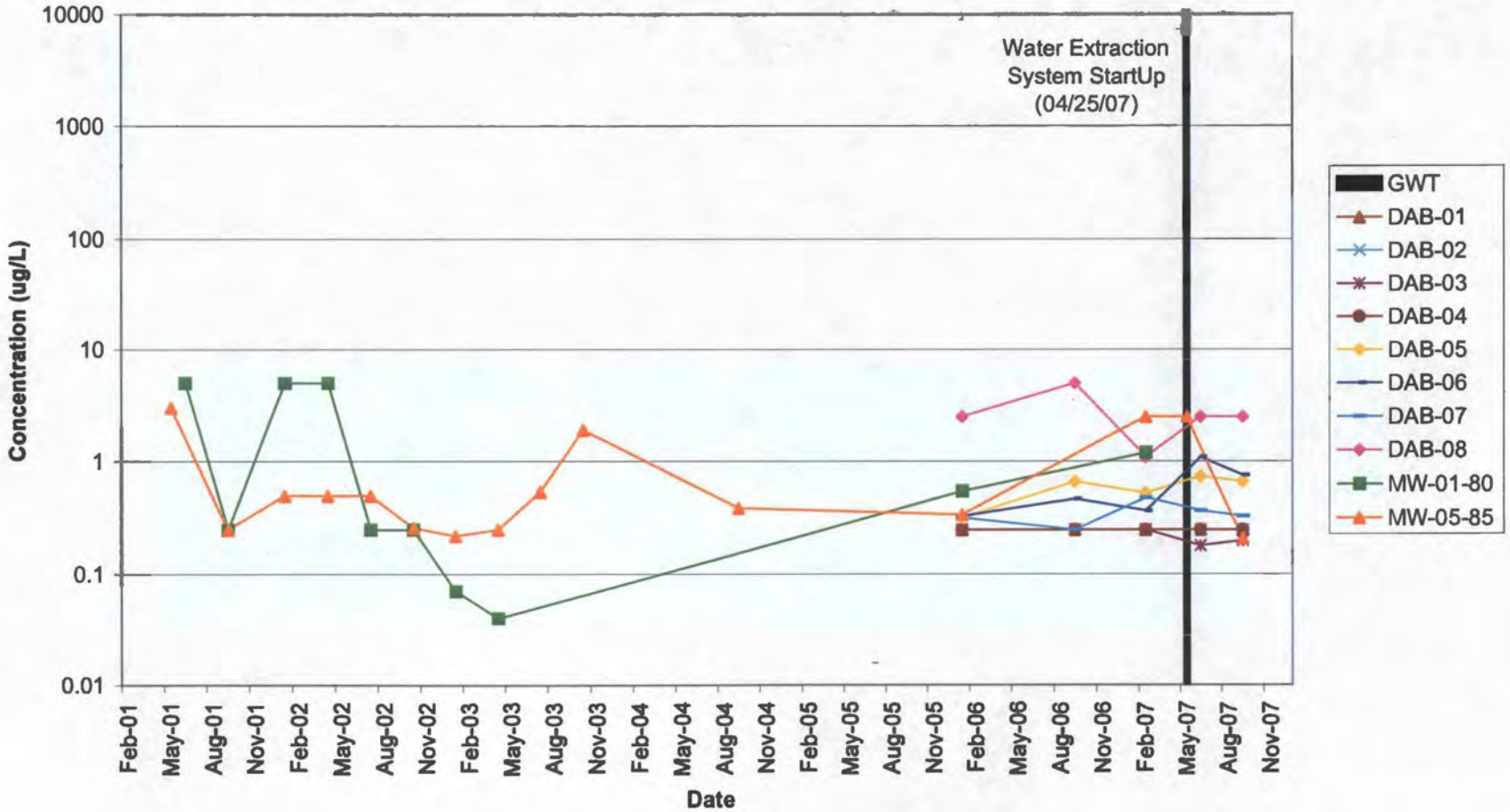
GRAPH 7-F
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: DA-01 to DA-12
Pemaco Superfund Site, Maywood, California



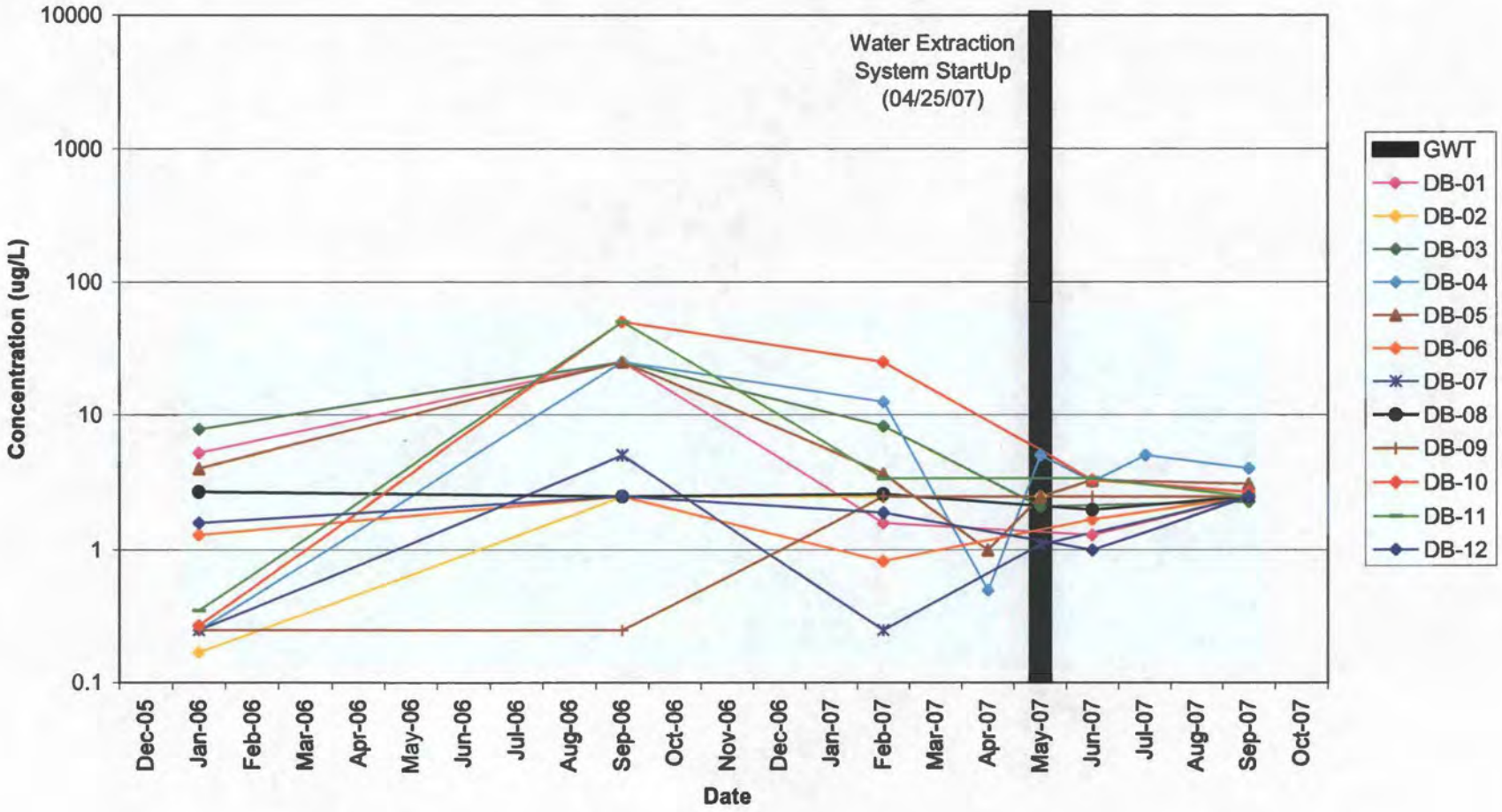
GRAPH 7-G
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Pemaco Superfund Site, Maywood, California



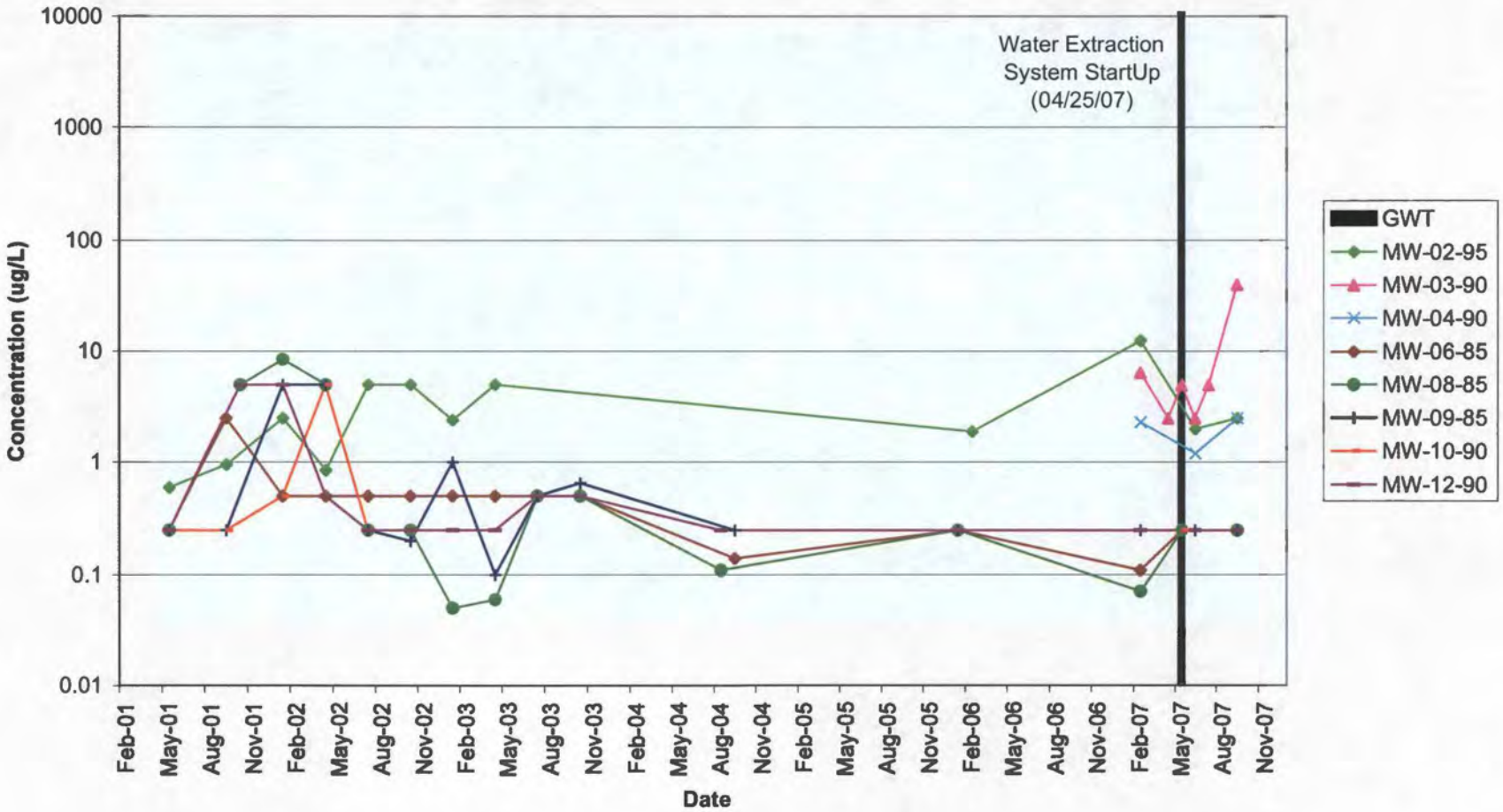
GRAPH 7-H
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Pemaco Superfund Site, Maywood, California



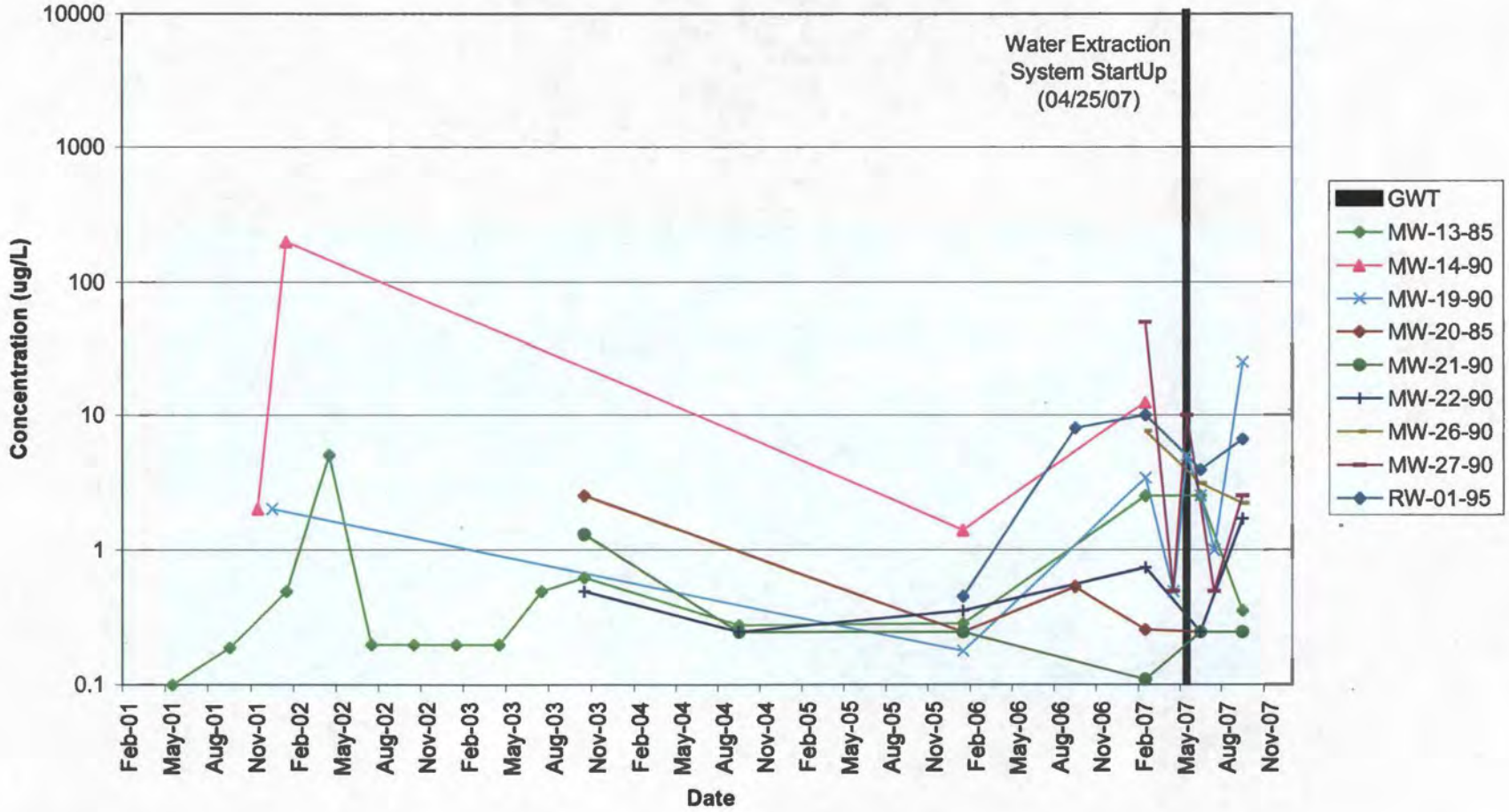
GRAPH 7-I
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition'B' Zone Wells: DB-01 to DB-12
Pemaco Superfund Site, Maywood, California



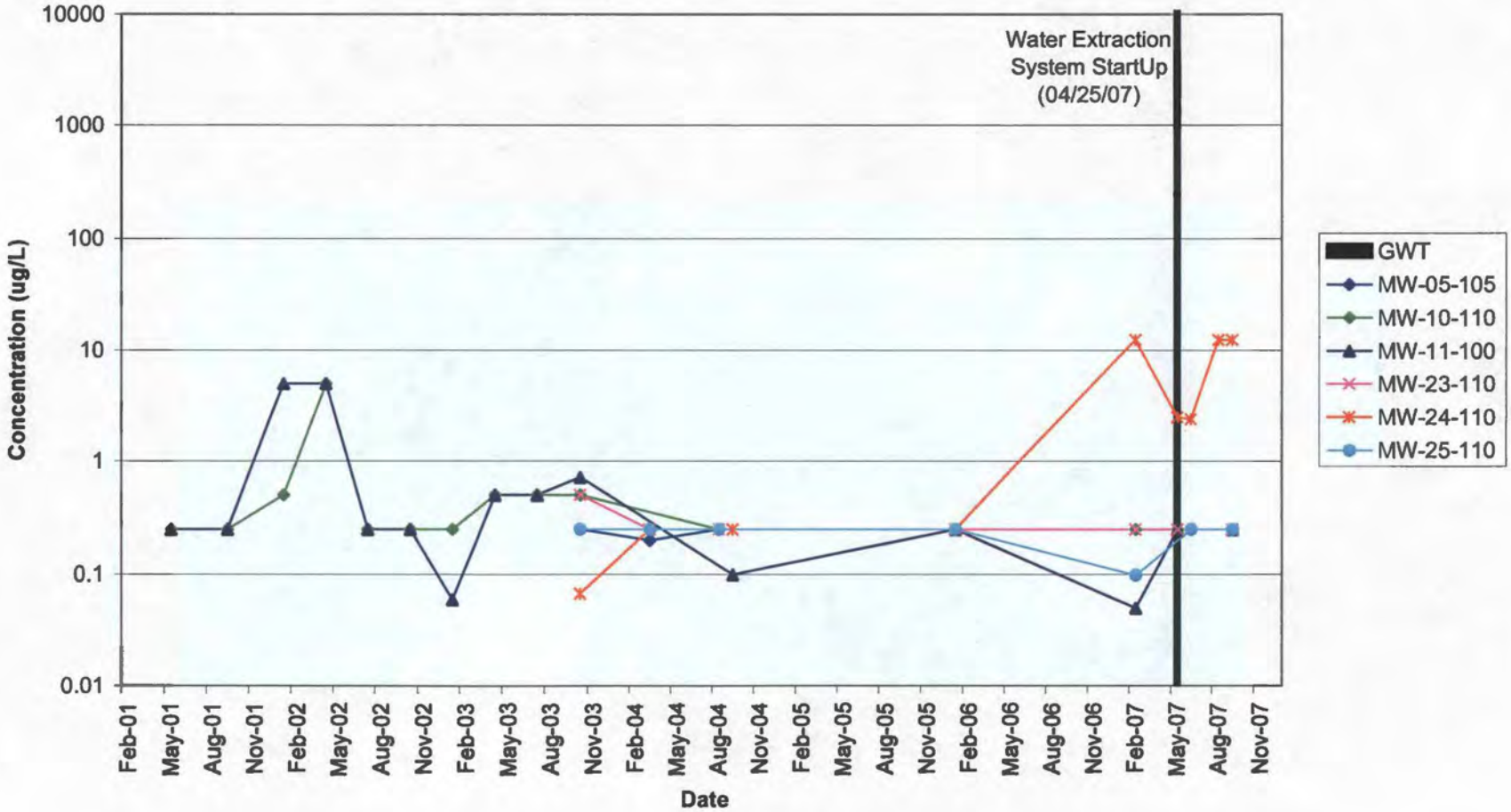
GRAPH 7-J
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Pemaco Superfund Site, Maywood, California



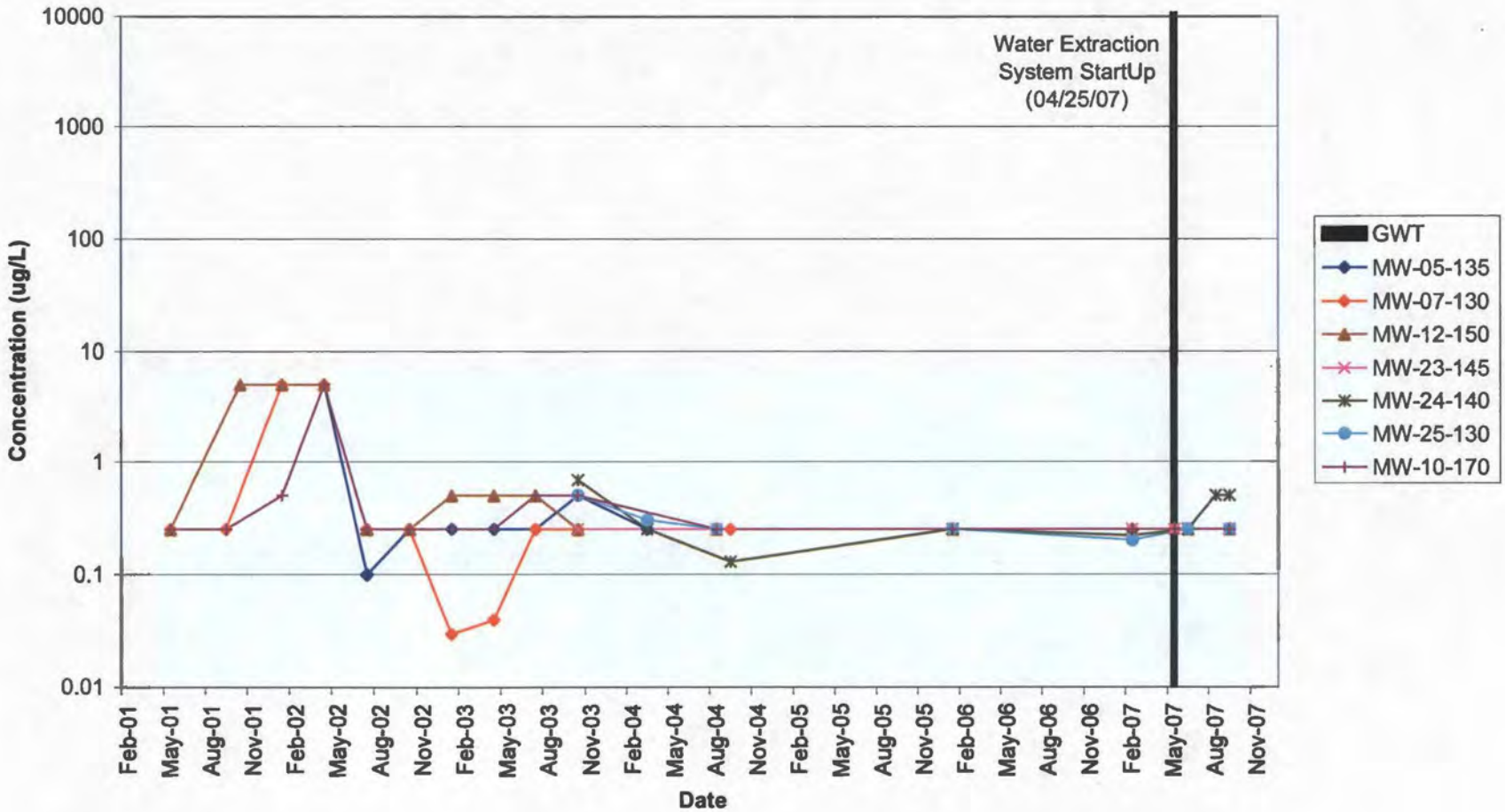
GRAPH 7-K
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Pemaco Superfund Site, Maywood, California



GRAPH 7-L
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Pemaco Superfund Site, Maywood, California



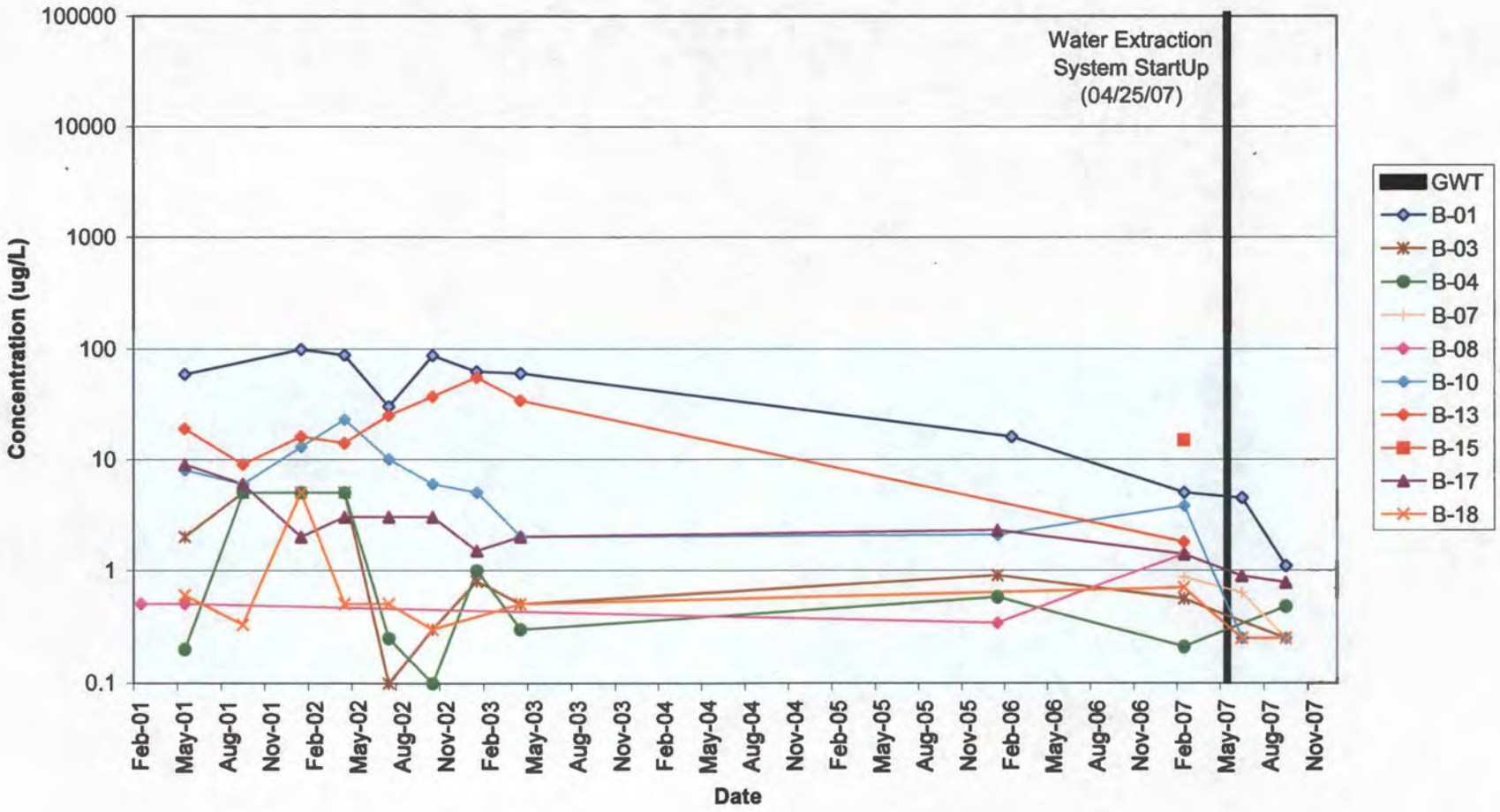
GRAPH 7-M
Tetrachloroethene (PCE) Concentrations in Groundwater vs. Time
Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170
Pemaco Superfund Site, Maywood, California



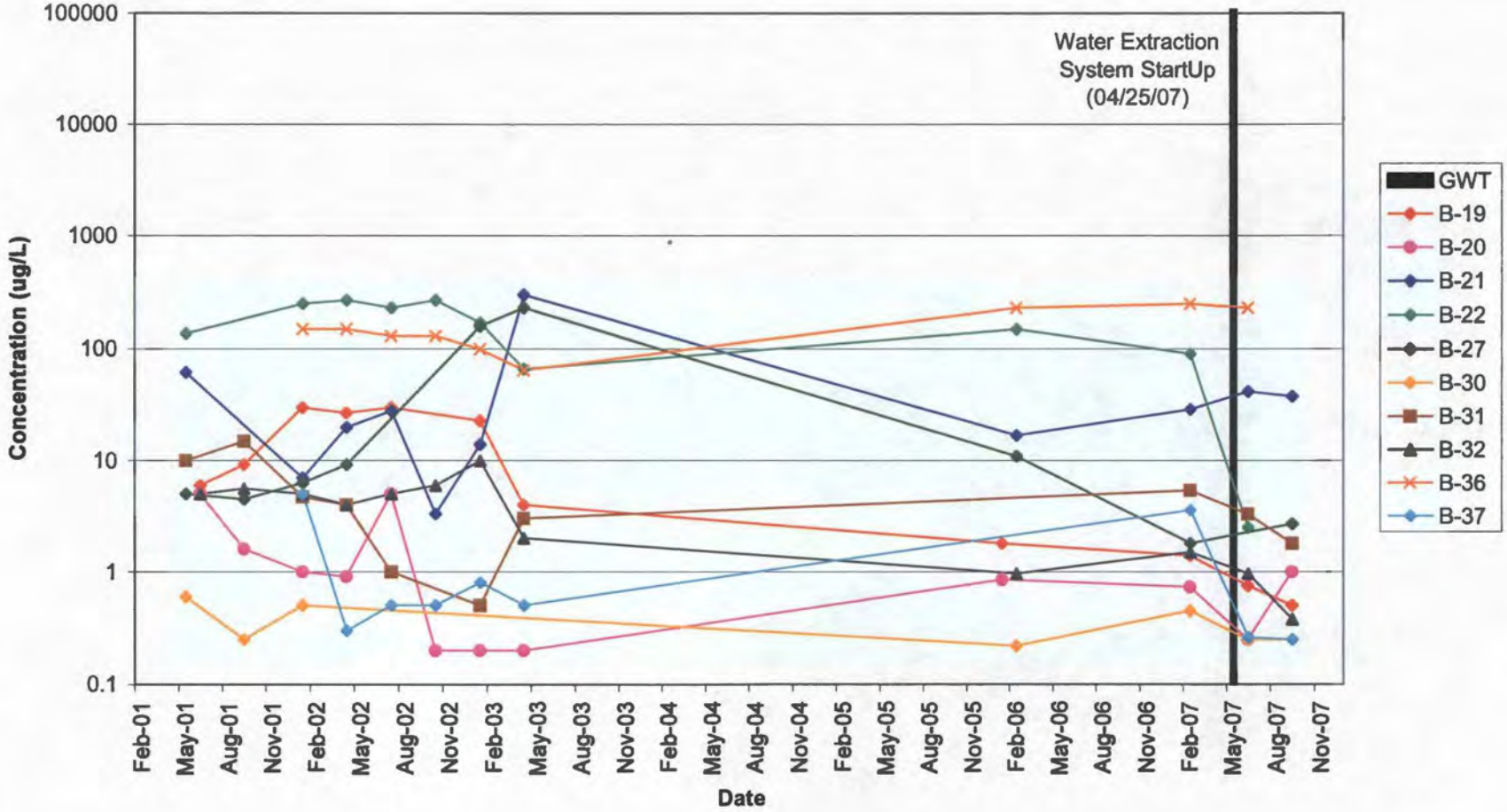
TREND GRAPHS FOR TRICHLOROETHENE (TCE)

Graph 8-A	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Perched Zone Wells: B-01 to B-18
Graph 8-B	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Perched Zone Wells: B-19 to B-37
Graph 8-C	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Graph 8-D	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Graph 8-E	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Graph 8-F	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: DA-01 to DA-12
Graph 8-G	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Graph 8-H	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Graph 8-I	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: DB-01 to DB-12
Graph 8-J	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Graph 8-K	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Graph 8-L	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Graph 8-M	Trichloroethene (TCE) Concentrations in Groundwater vs. Time Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170

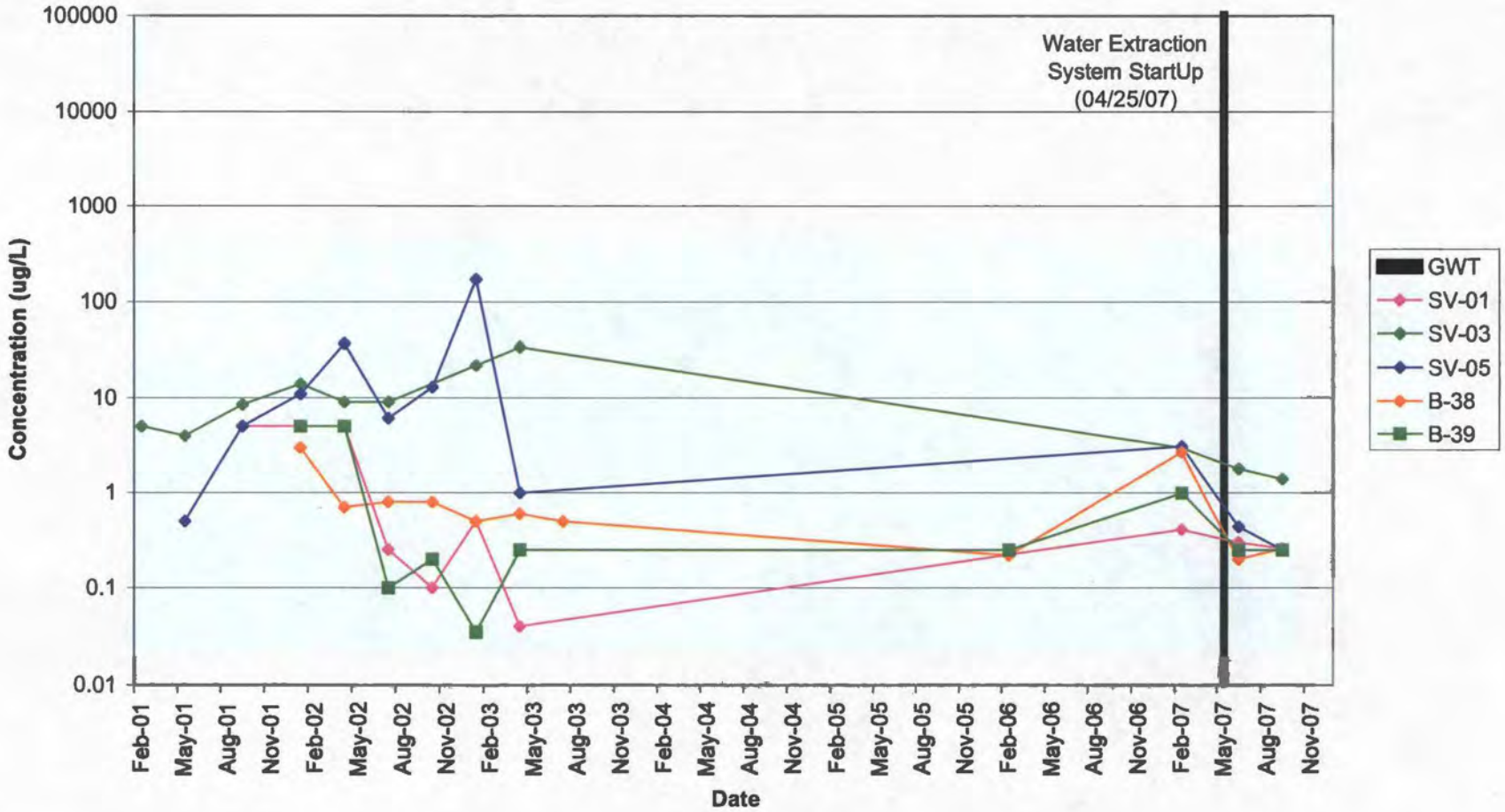
GRAPH 8-A
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: B-01 to B-18
Pemaco Superfund Site, Maywood, California



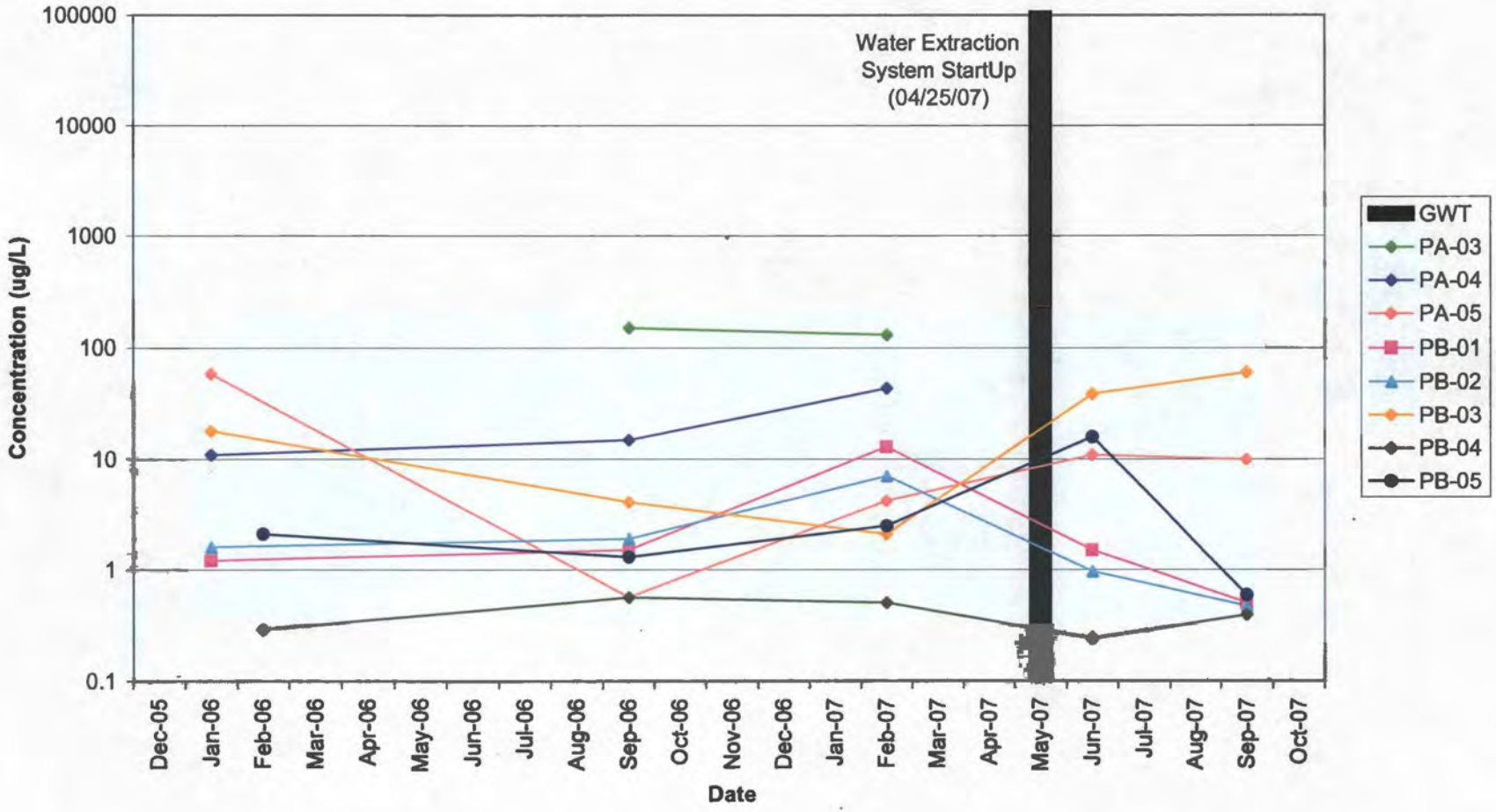
GRAPH 8-B
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37
Pemaco Superfund Site, Maywood, California



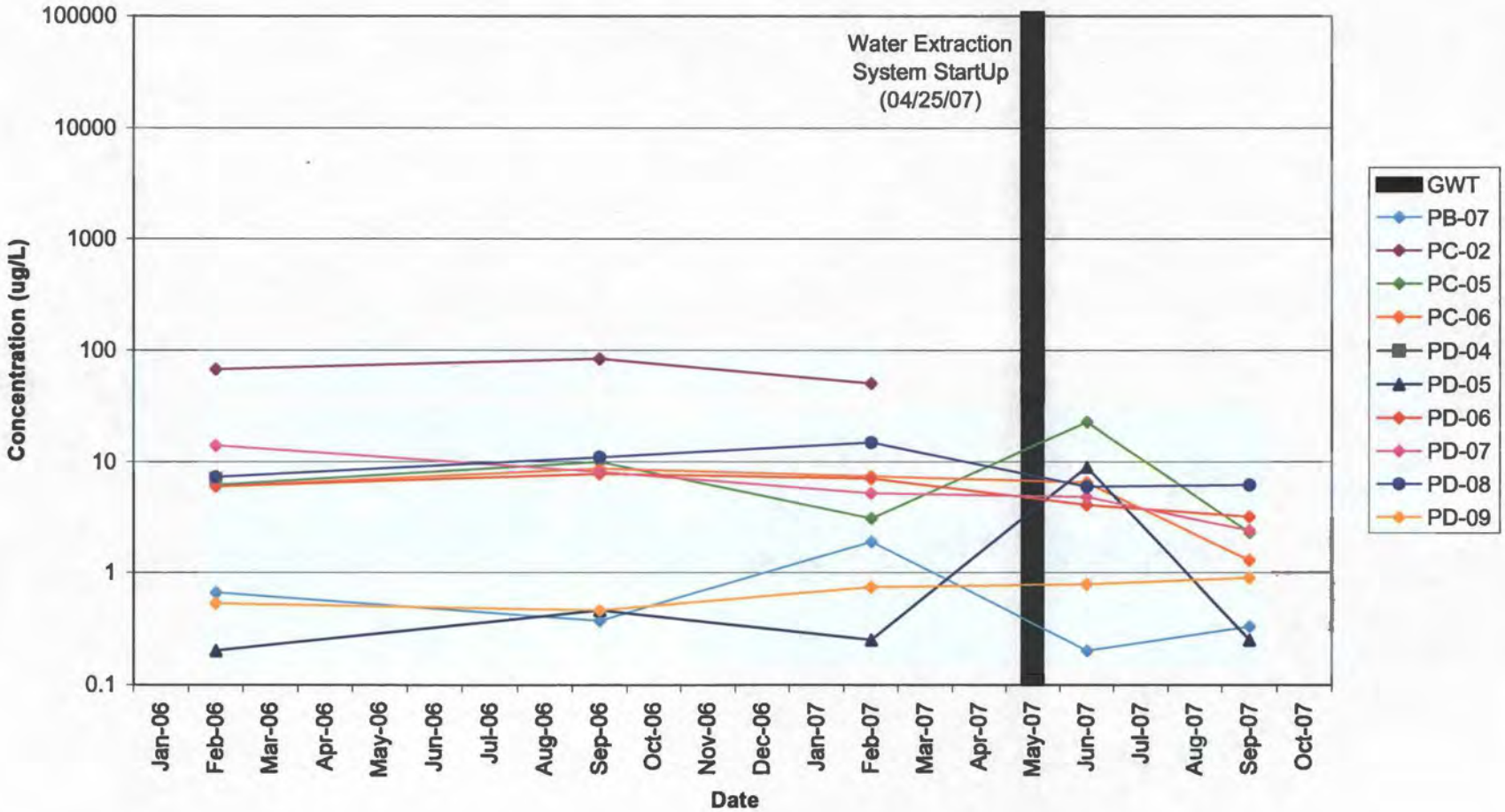
GRAPH 8-C
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Pemaco Superfund Site, Maywood, California



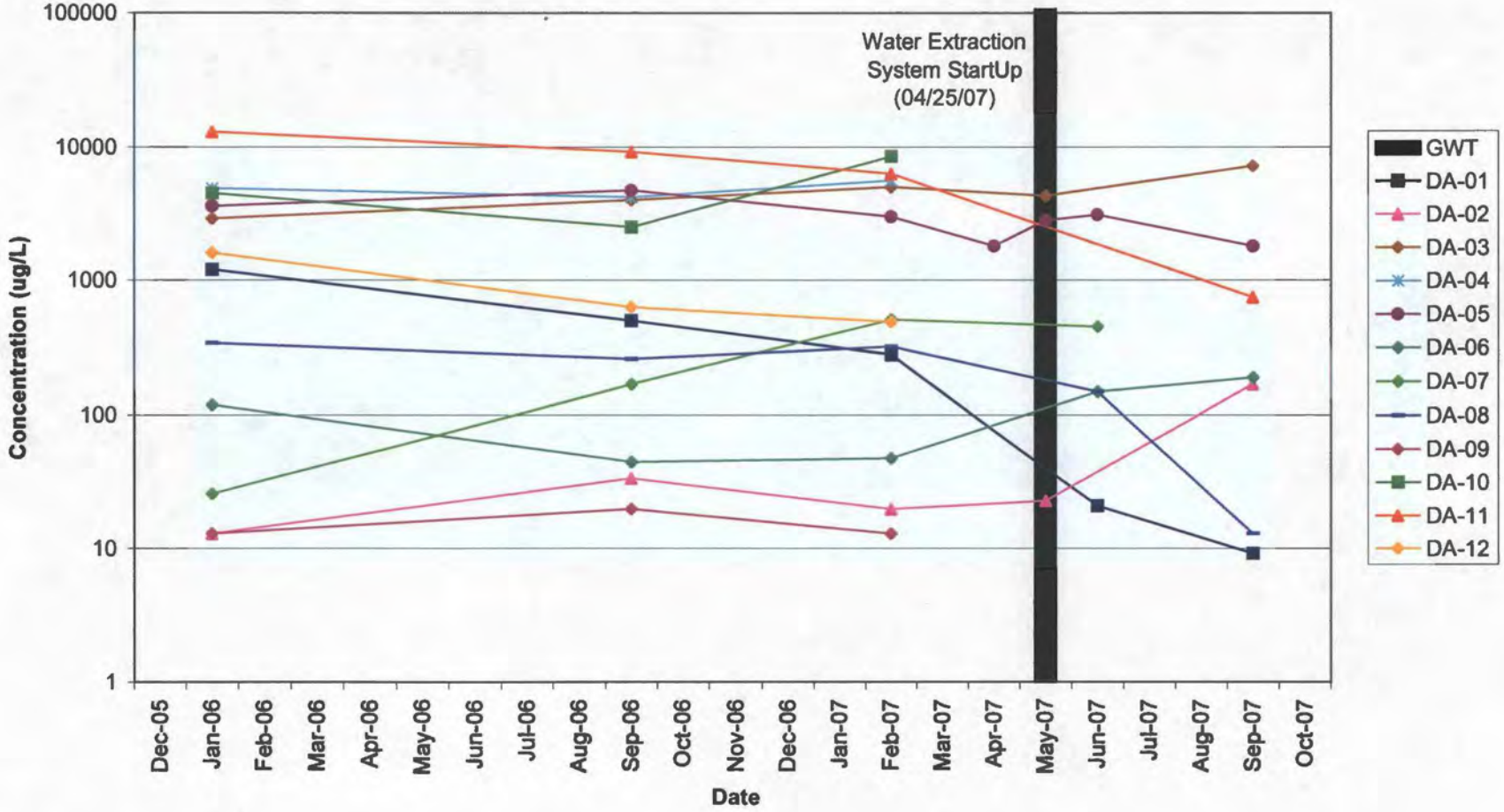
GRAPH 8-D
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Pemaco Superfund Site, Maywood, California



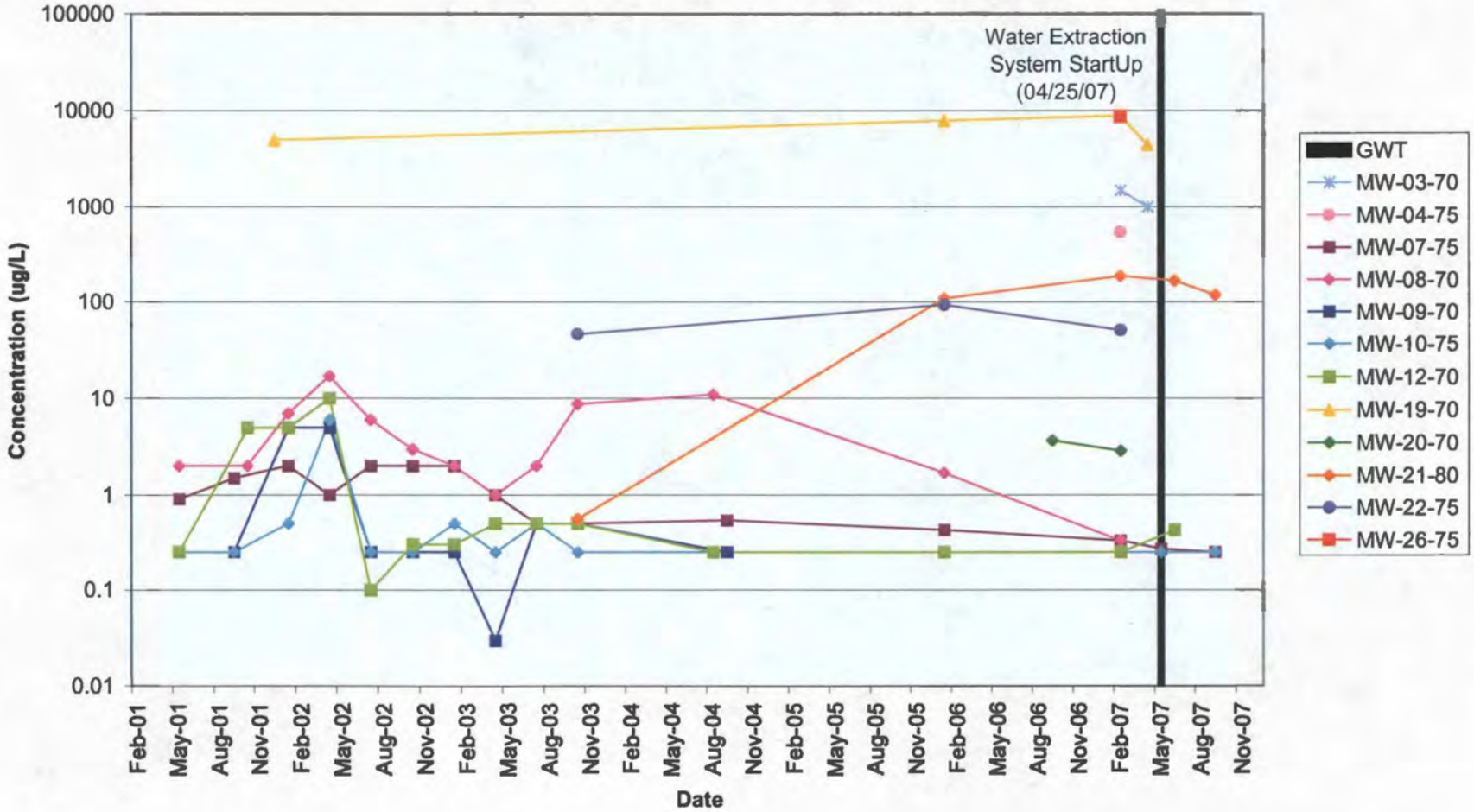
GRAPH 8-E
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Pemaco Superfund Site, Maywood, California



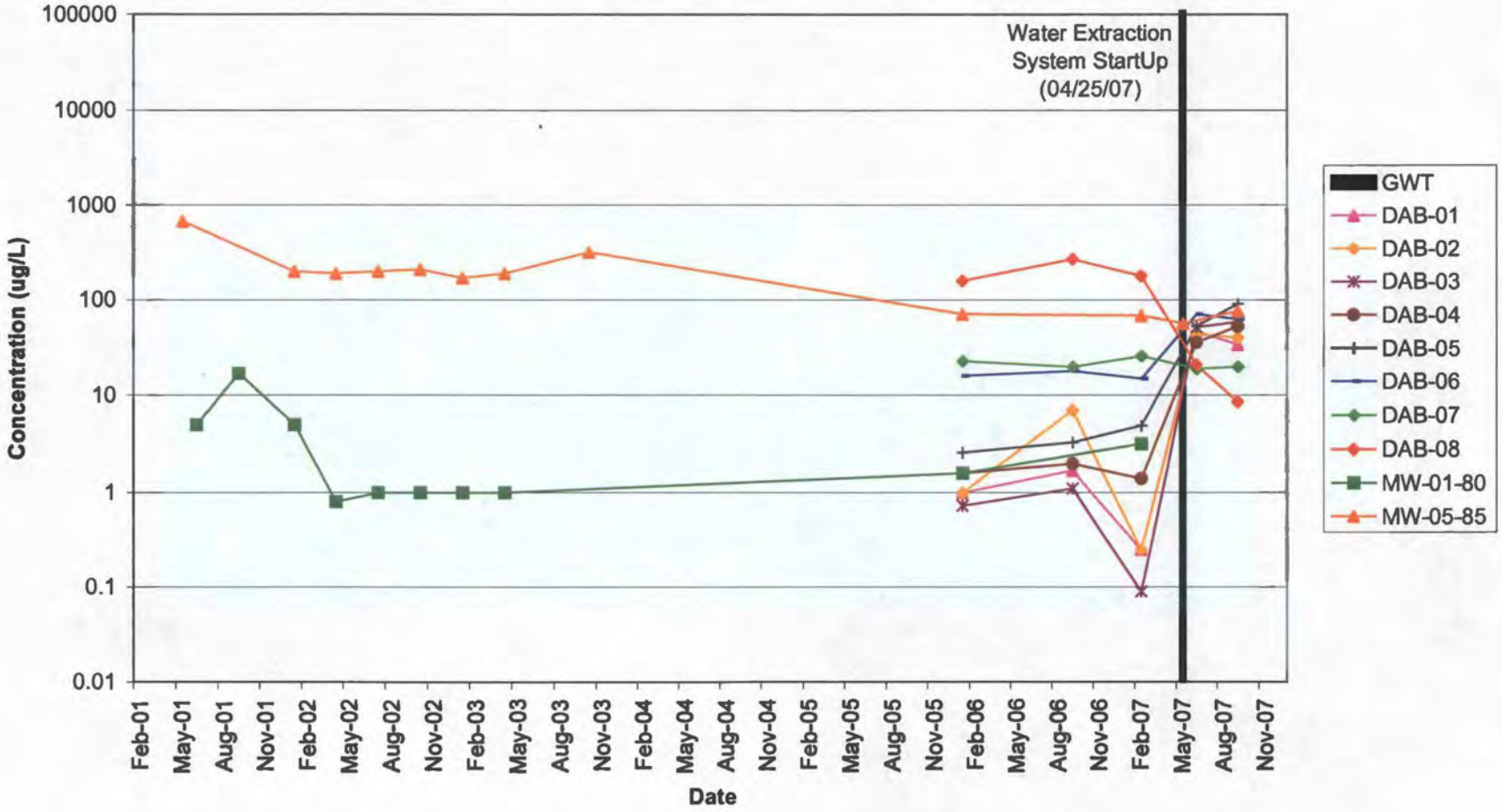
GRAPH 8-F
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: DA-01 to DA-12
Pemaco Superfund Site, Maywood, California



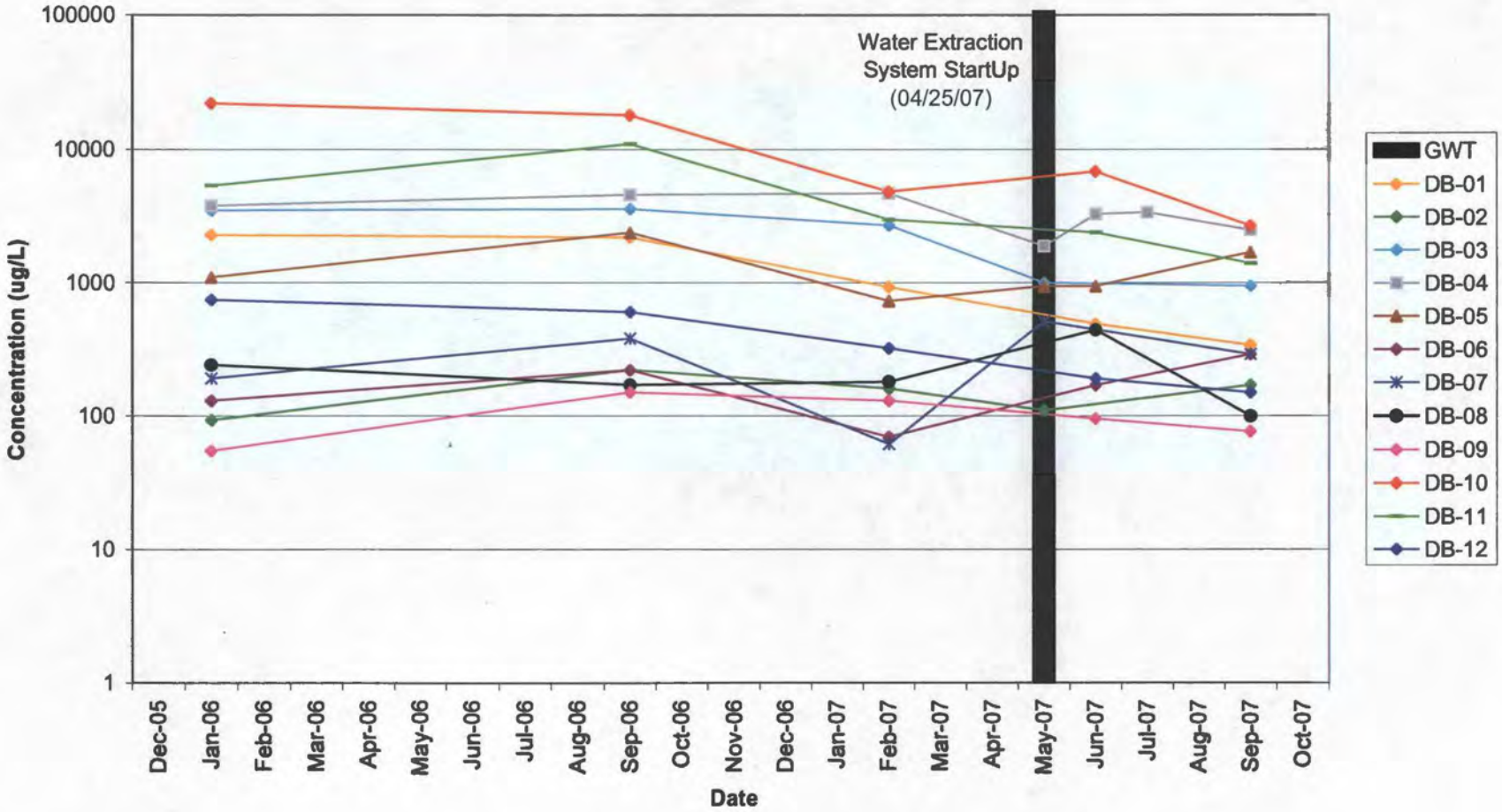
GRAPH 8-G
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Pemaco Superfund Site, Maywood, California



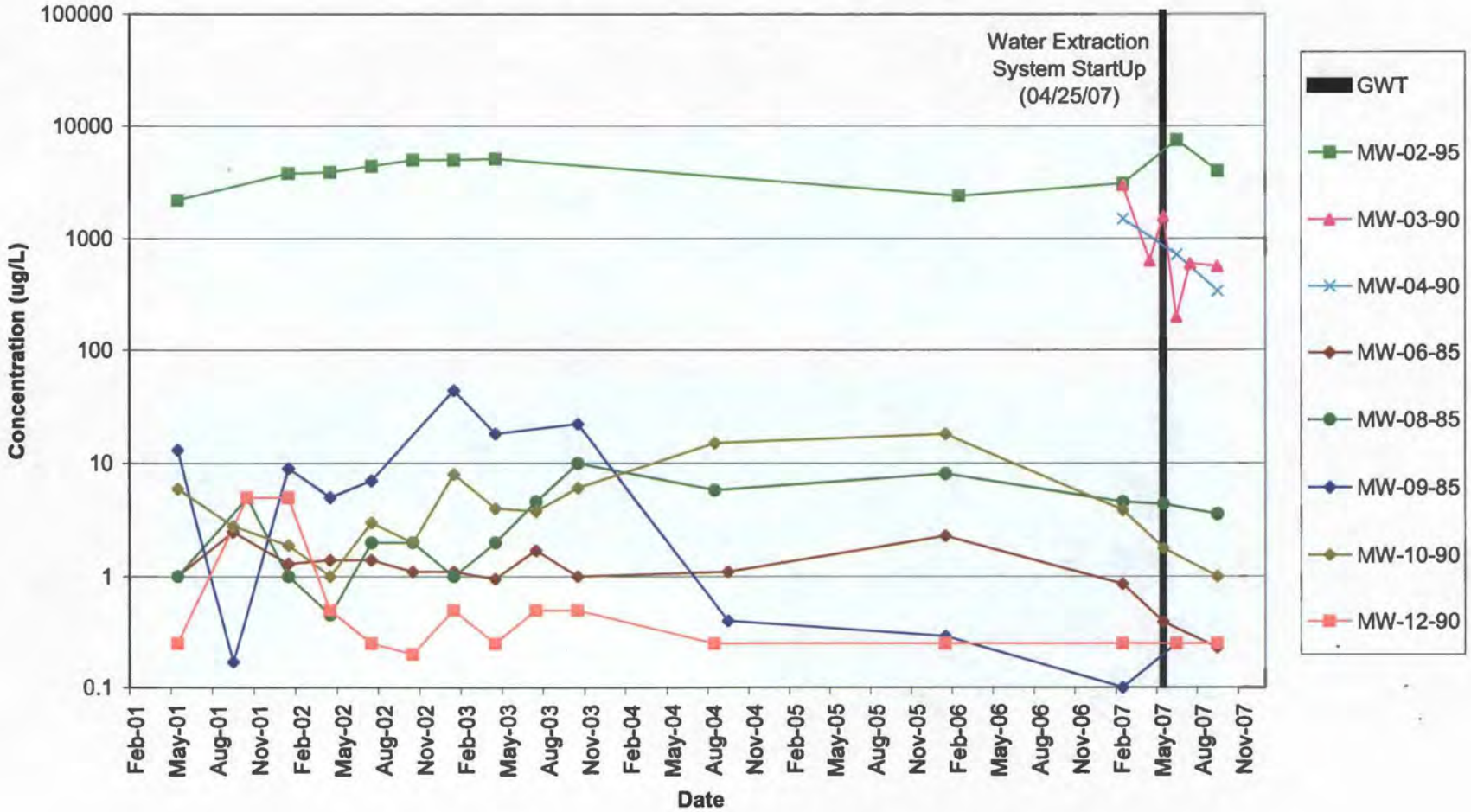
GRAPH 8-H
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Pemaco Superfund Site, Maywood, California



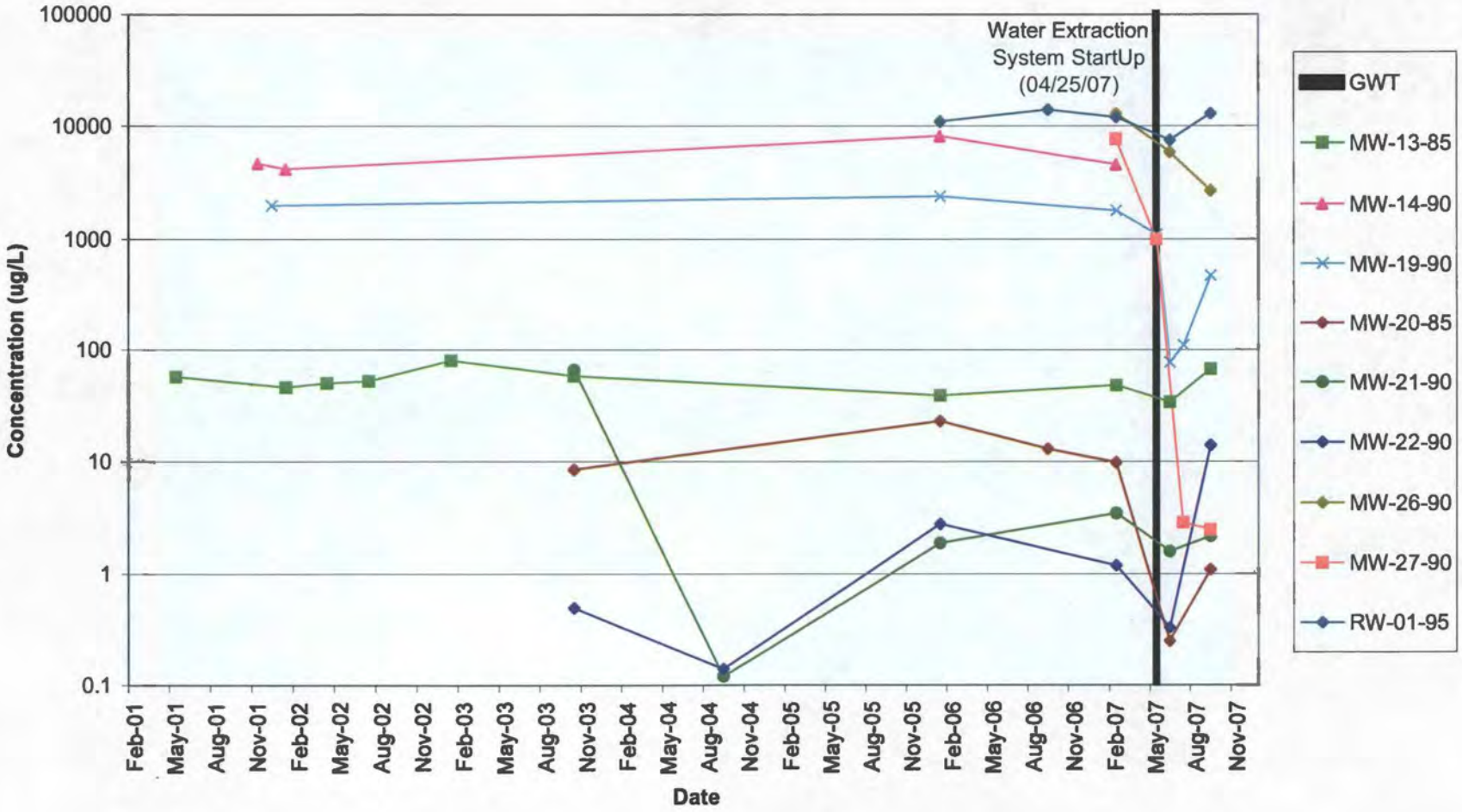
GRAPH 8-I
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: DB-01 to DB-12
Pemaco Superfund Site, Maywood, California



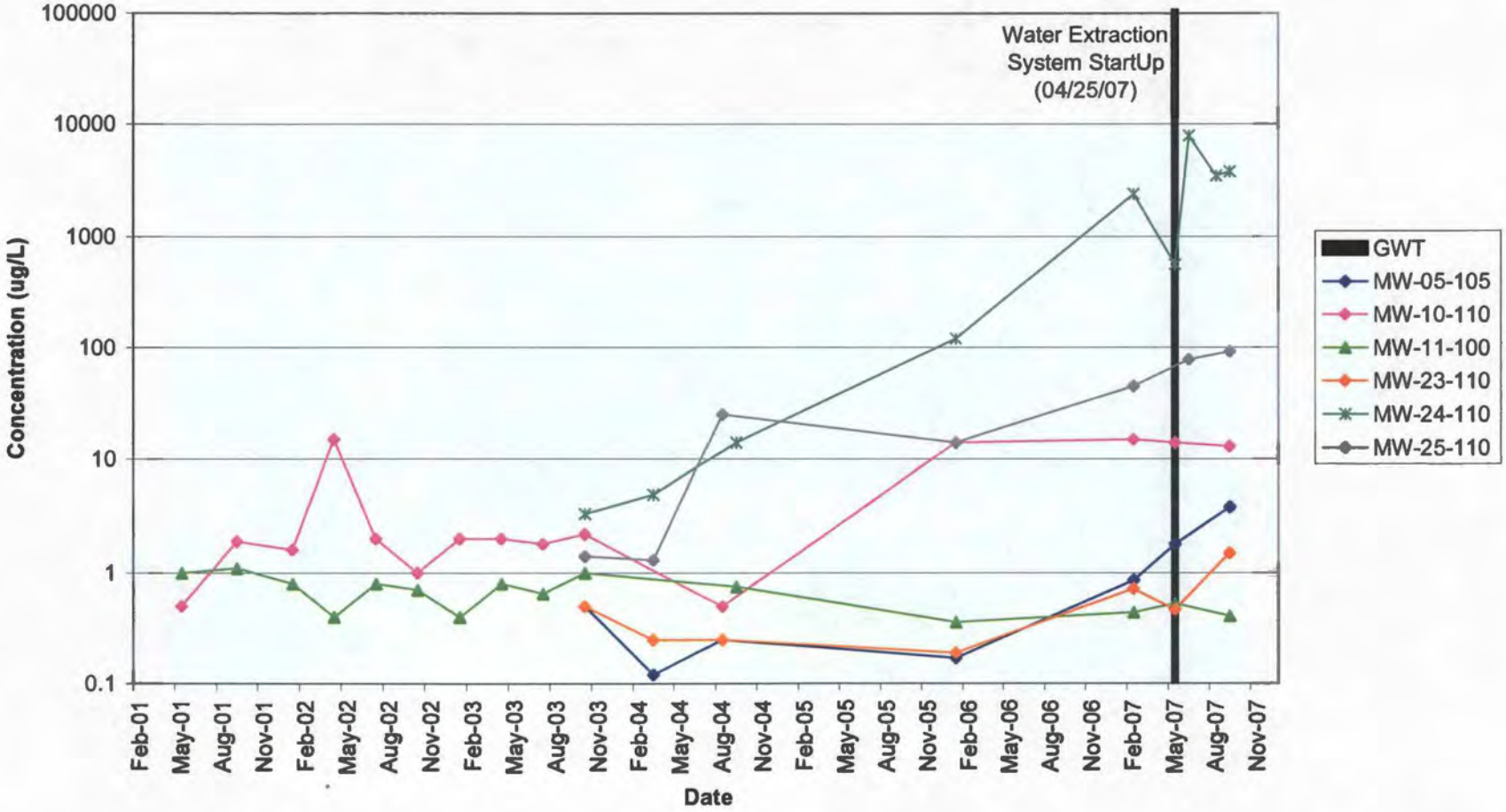
GRAPH 8-J
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Pemaco Superfund Site, Maywood, California



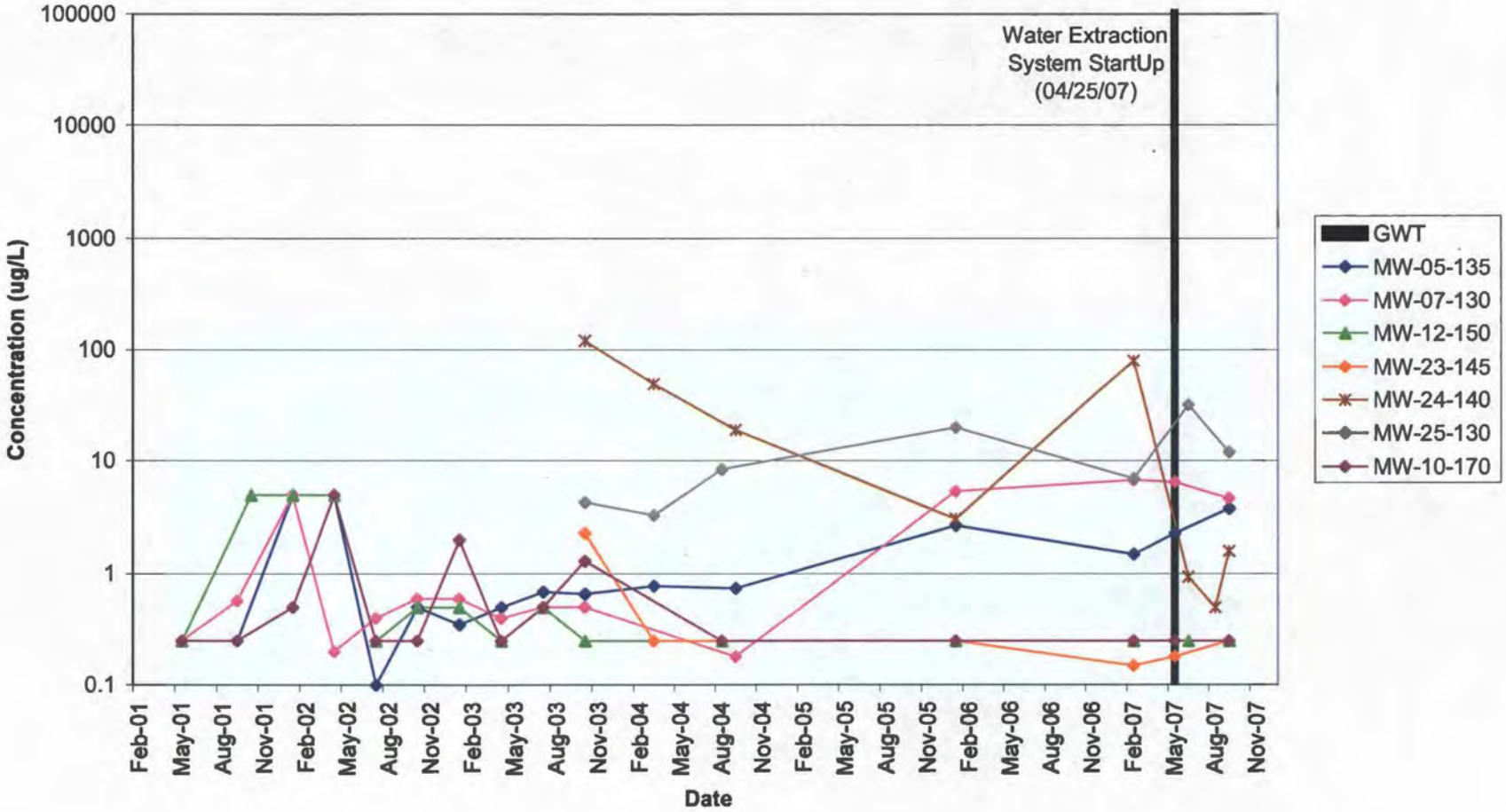
GRAPH 8-K
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Pemaco Superfund Site, Maywood, California



GRAPH 8-L
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Pemaco Superfund Site, Maywood, California



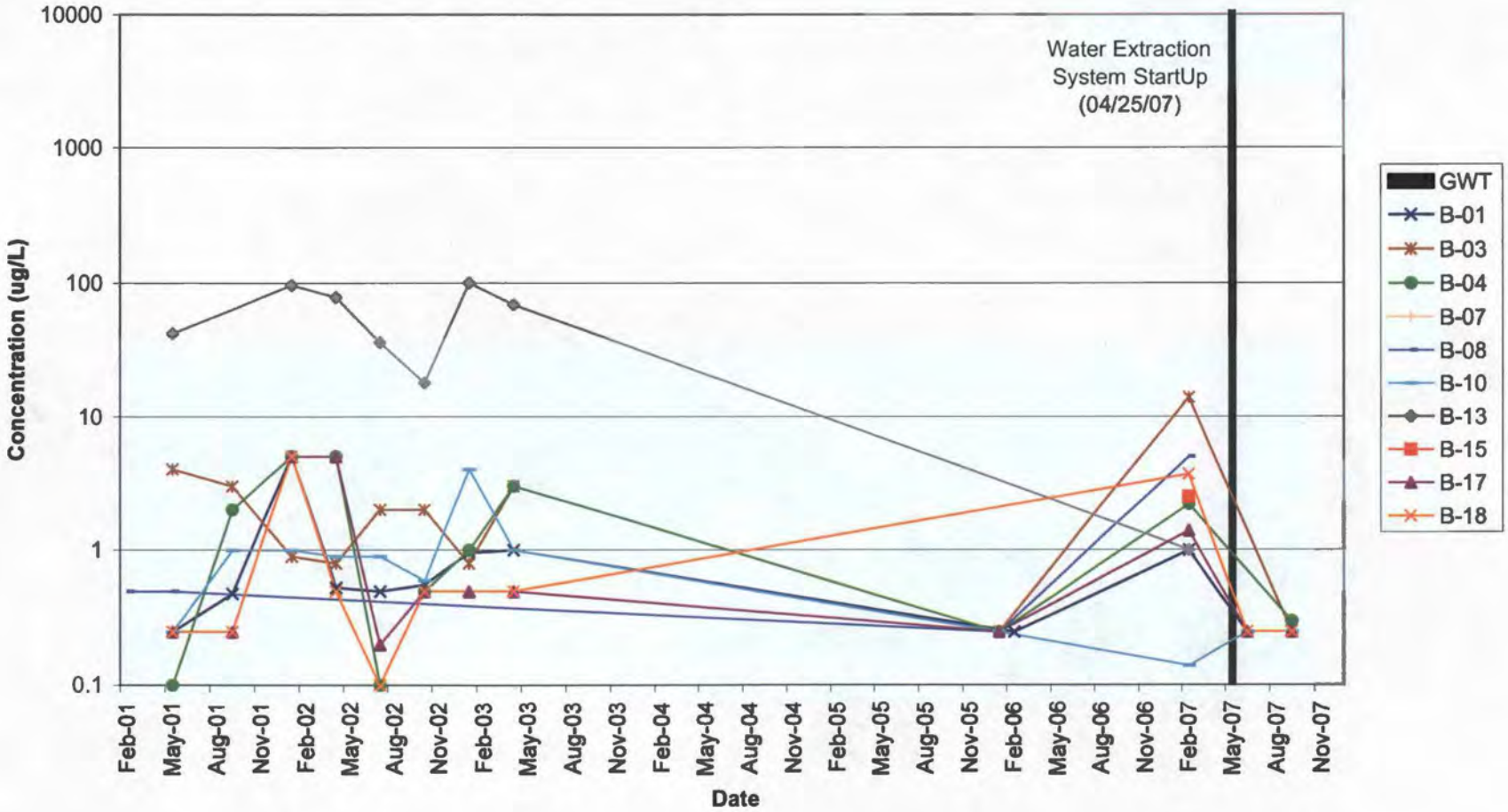
GRAPH 8-M
Trichloroethene (TCE) Concentrations in Groundwater vs. Time
Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170
Pemaco Superfund Site, Maywood, California



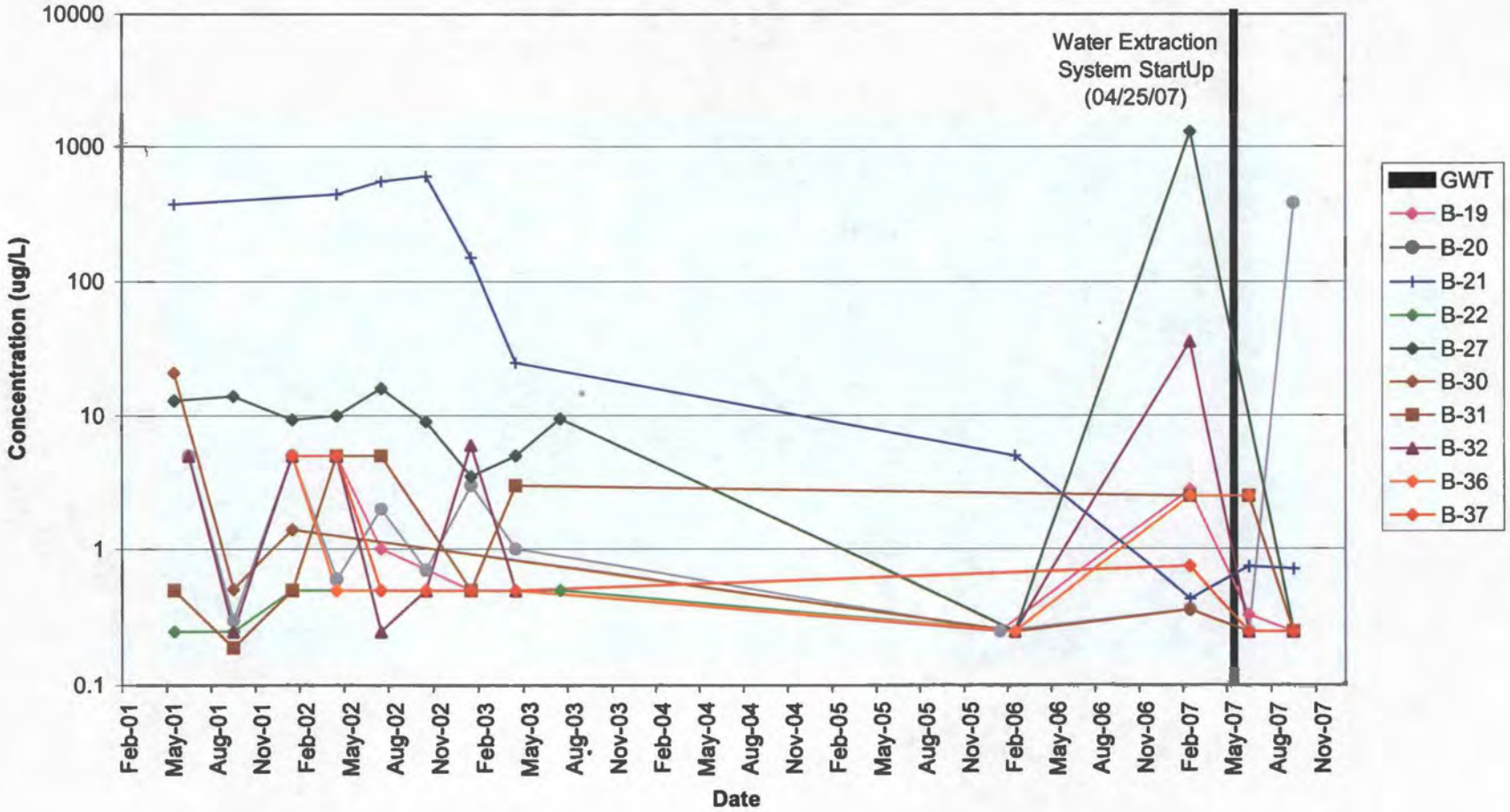
TREND GRAPHS FOR TOLUENE

Graph 9-A	Toluene Concentrations in Groundwater vs. Time Perched Zone Wells: B-01 to B-18
Graph 9-B	Toluene Concentrations in Groundwater vs. Time Perched Zone Wells: B-19 to B-37
Graph 9-C	Toluene Concentrations in Groundwater vs. Time Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Graph 9-D	Toluene Concentrations in Groundwater vs. Time Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Graph 9-E	Toluene Concentrations in Groundwater vs. Time Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09

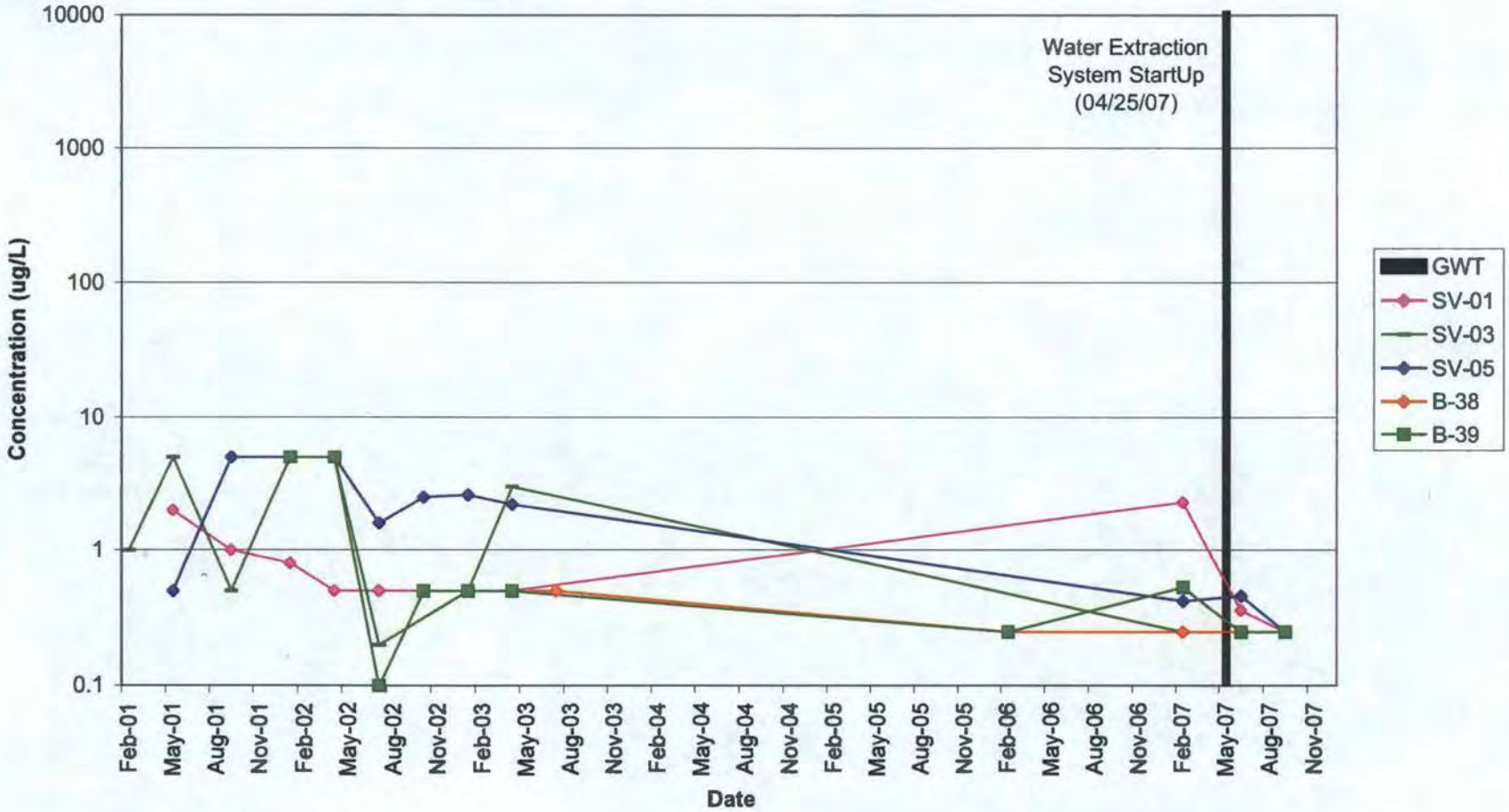
GRAPH 9-A
Toluene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-01 to B-18
Pemaco Superfund Site, Maywood, California



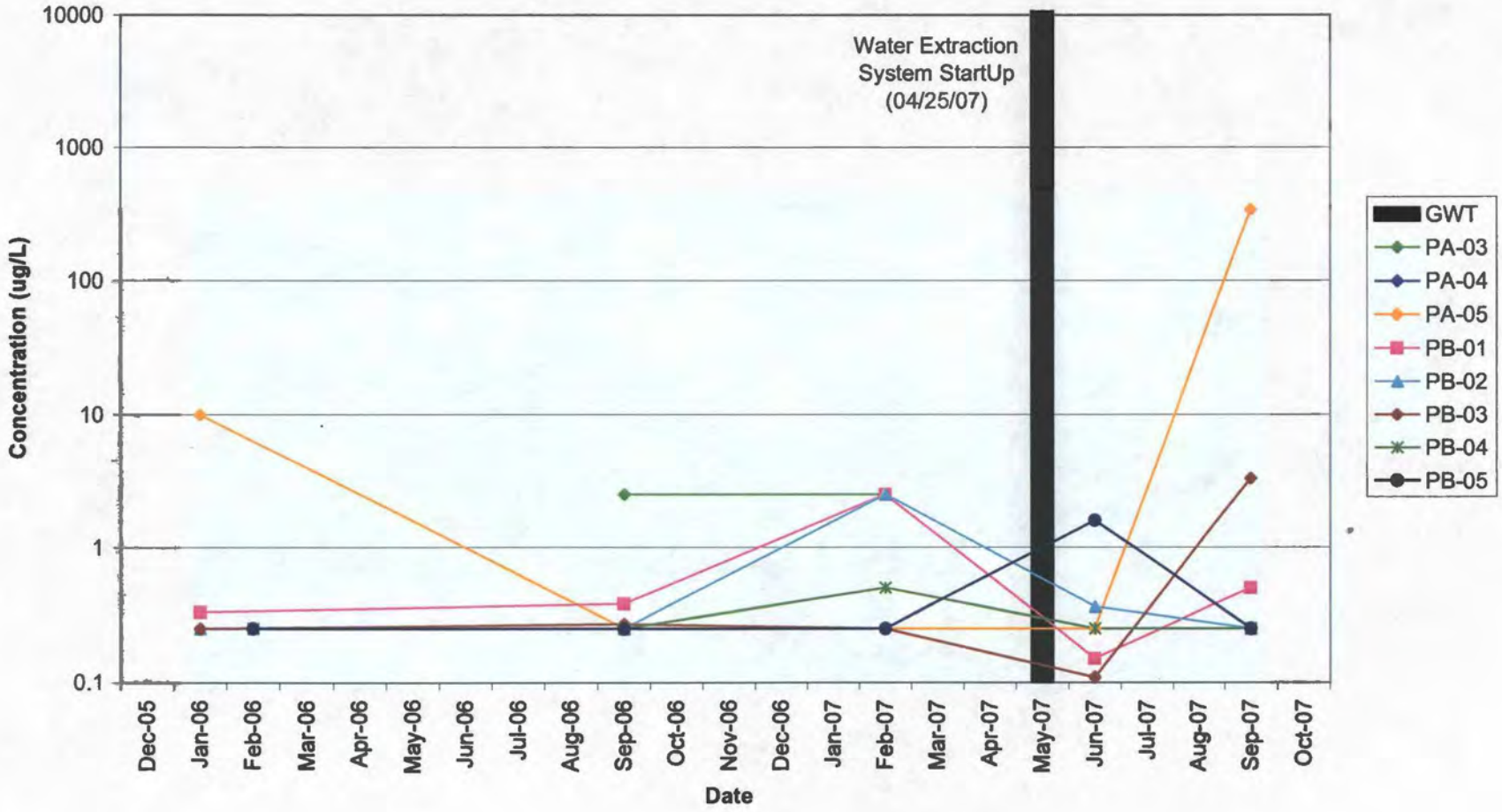
GRAPH 9-B
Toluene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37
Pemaco Superfund Site, Maywood, California



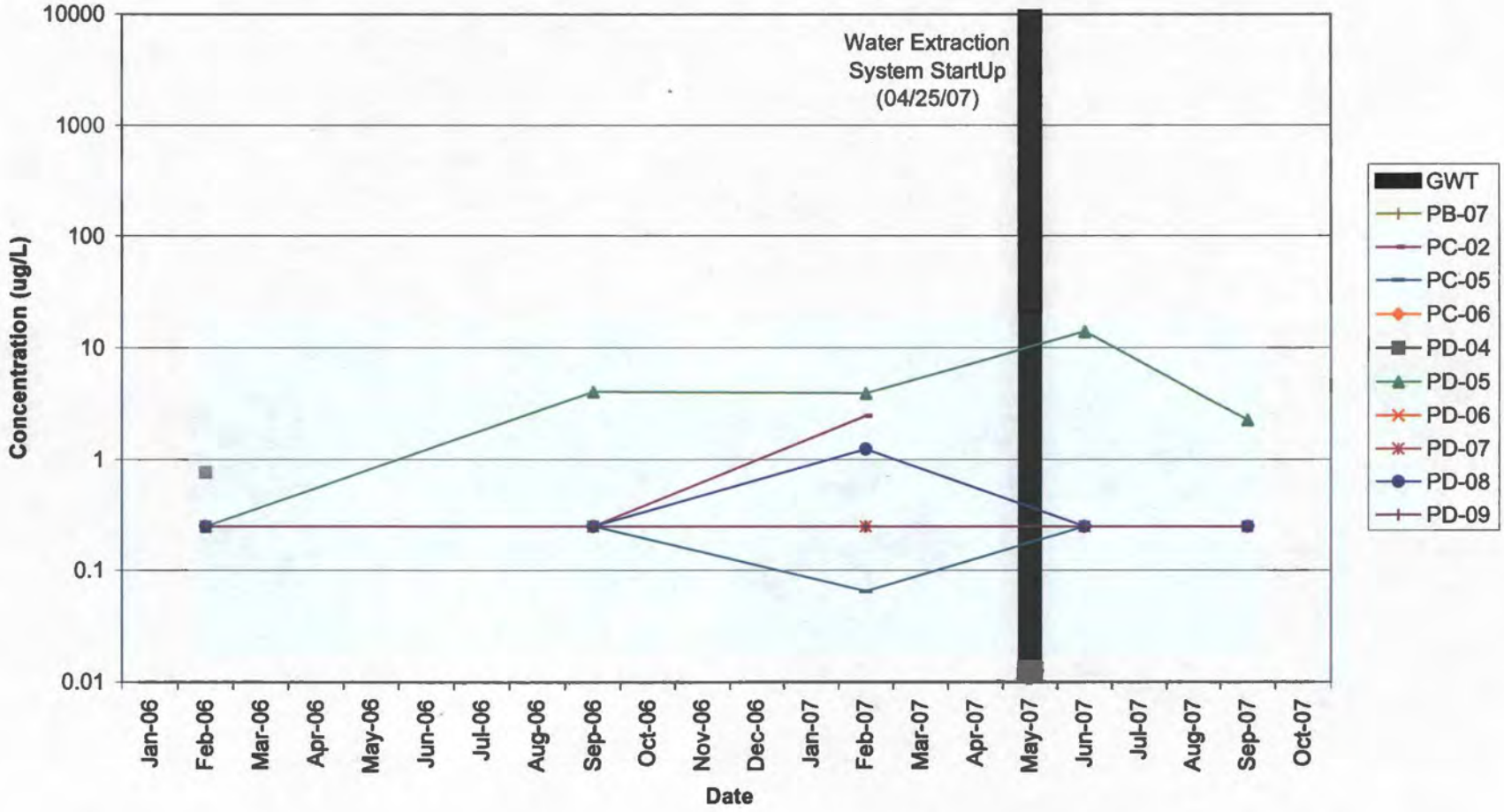
GRAPH 9-C
Toluene Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Pemaco Superfund Site, Maywood, California



GRAPH 9-D
Toluene Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Pemaco Superfund Site, Maywood, California



GRAPH 9-E
Toluene Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Pemaco Superfund Site, Maywood, California



TREND GRAPHS FOR VINYL CHLORIDE (VC)

Graph 10-A Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: B-01 to B-18

Graph 10-B Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37

Graph 10-C Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05

Graph 10-D Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05

Graph 10-E Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09

Graph 10-F Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: DA-01 to DA-12

Graph 10-G Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: MW-03-70 to MW-26-75

Graph 10-H Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85

Graph 10-I Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: DB-01 to DB-12

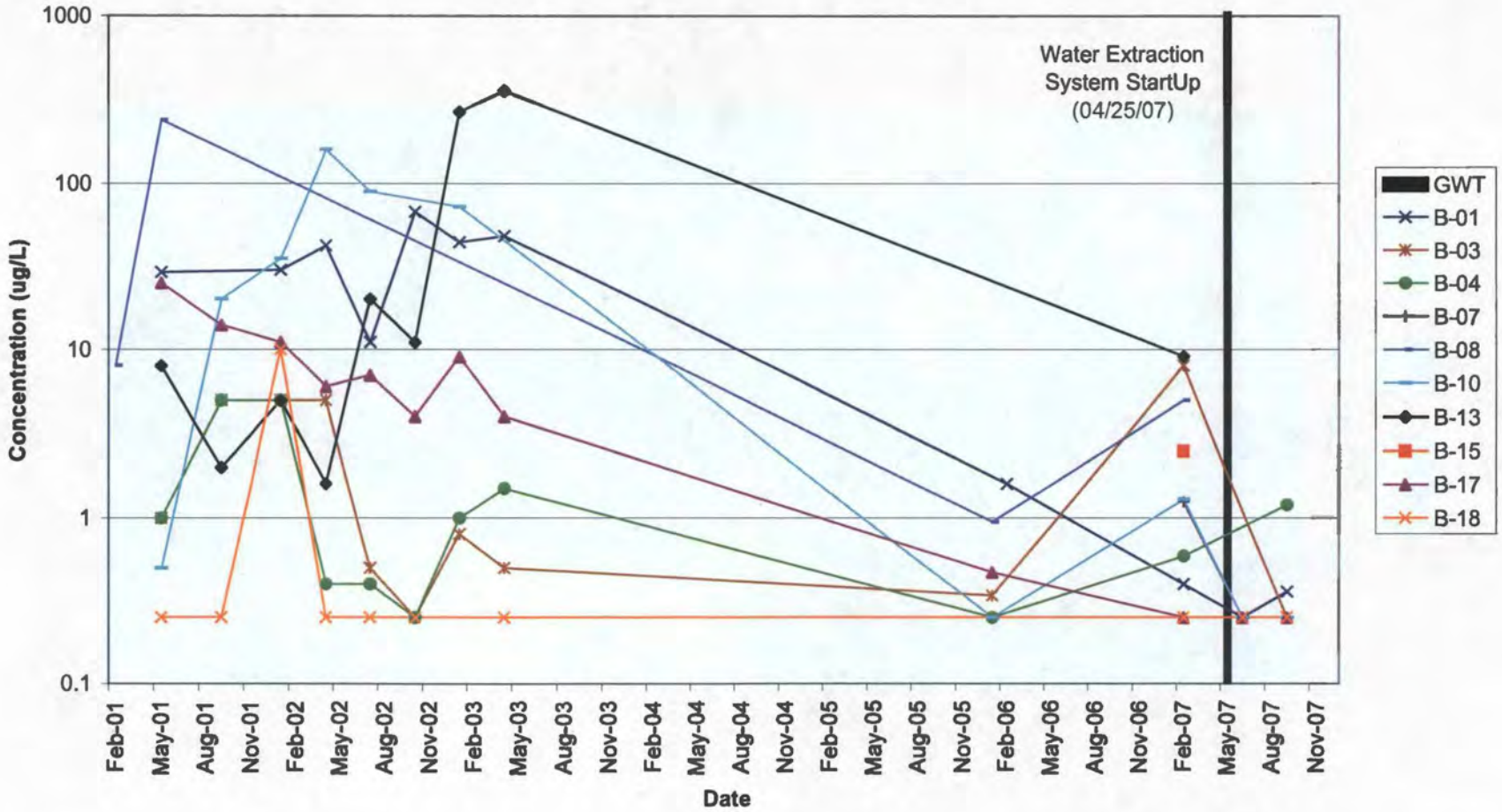
Graph 10-J Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-02-95 to MW-12-90

Graph 10-K Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95

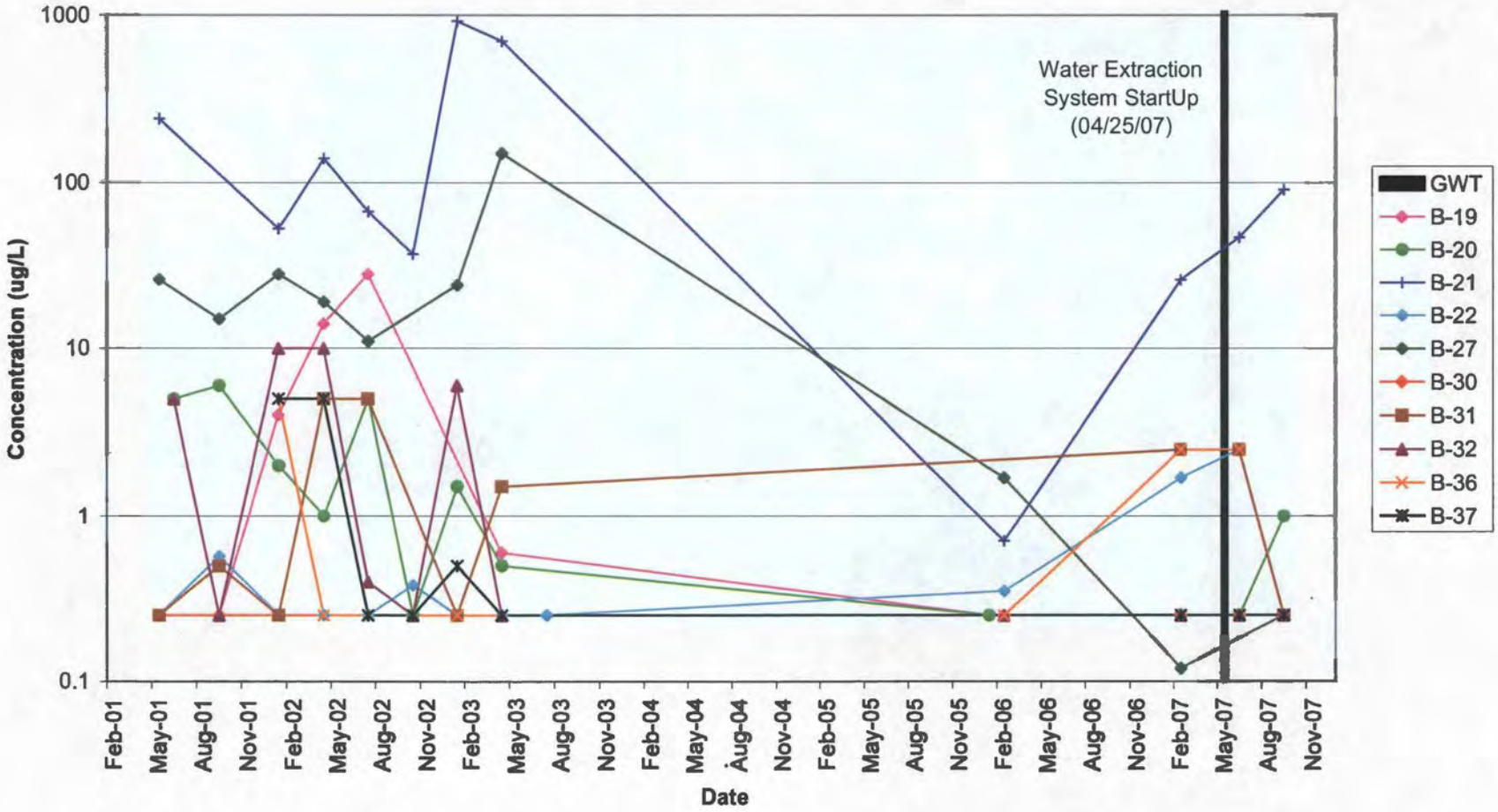
Graph 10-L Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'C' Zone Wells: MW-05-105 to MW-25-110

Graph 10-M Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170

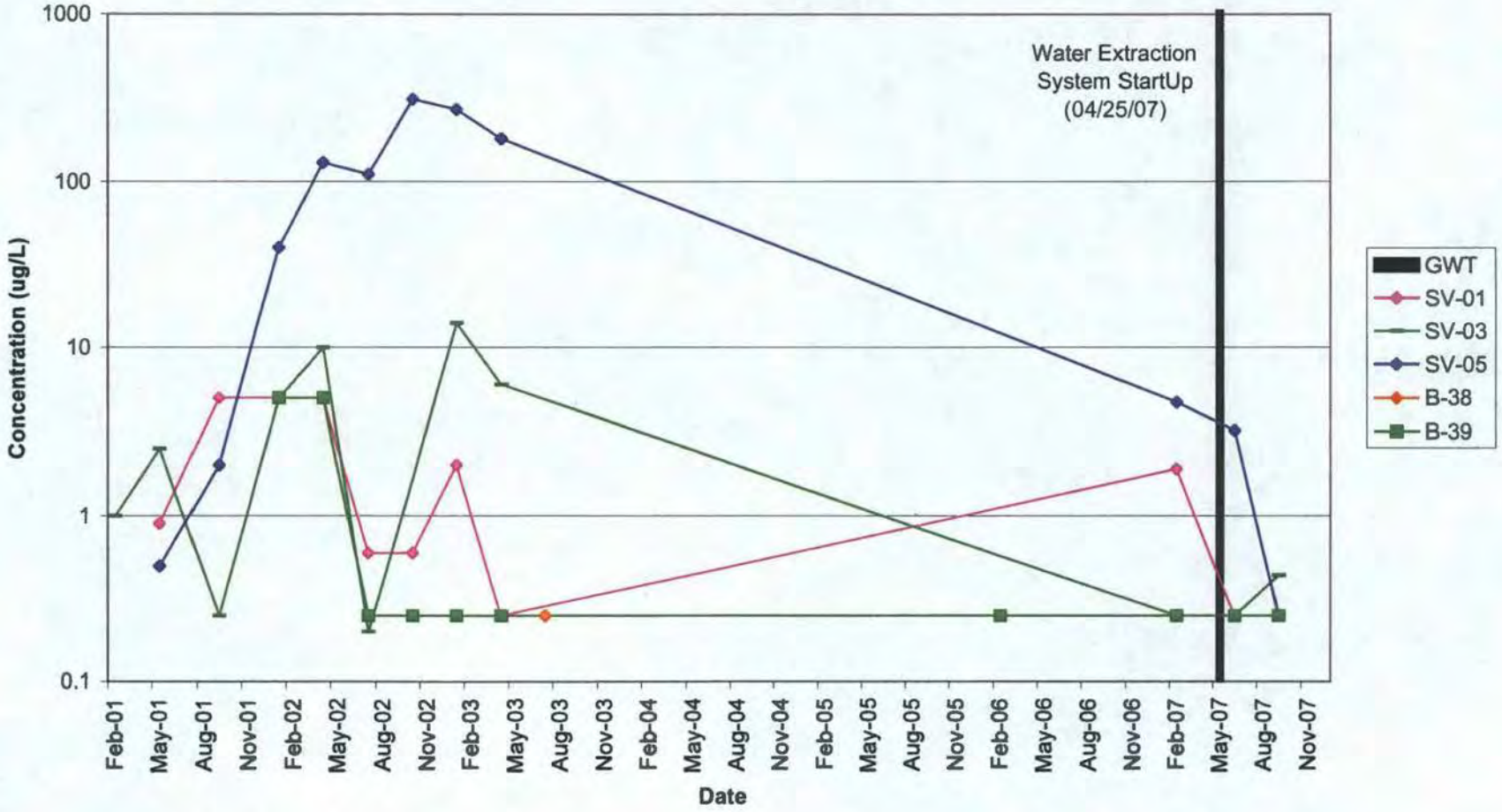
GRAPH 10-A
Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: B-01 to B-18
Pemaco Superfund Site, Maywood, California



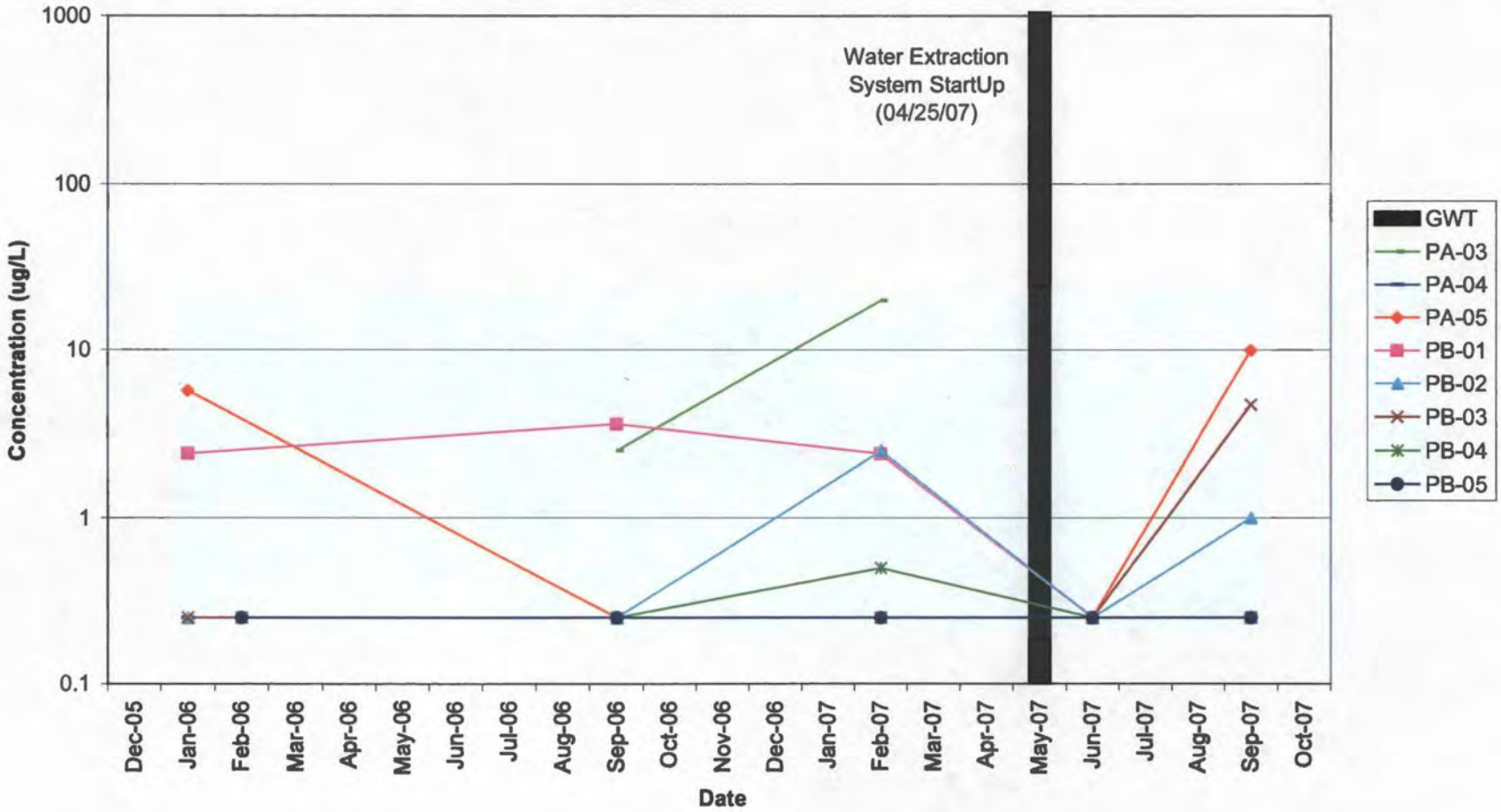
GRAPH10-B
Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: B-19 to B-37
Pemaco Superfund Site, Maywood, California



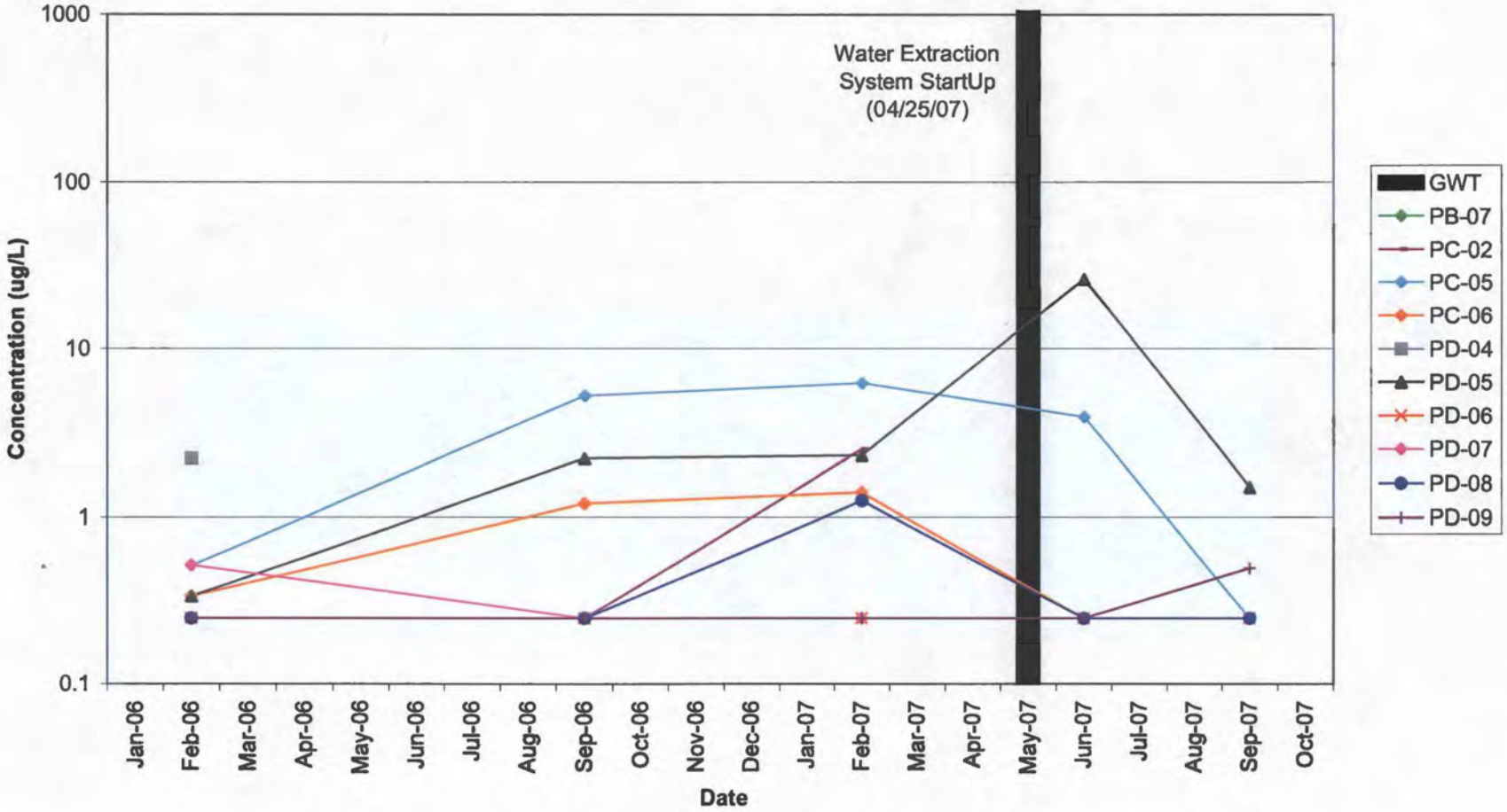
GRAPH 10-C
Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: B-38, B-39; SV-01, SV-03 & SV-05
Pemaco Superfund Site, Maywood, California



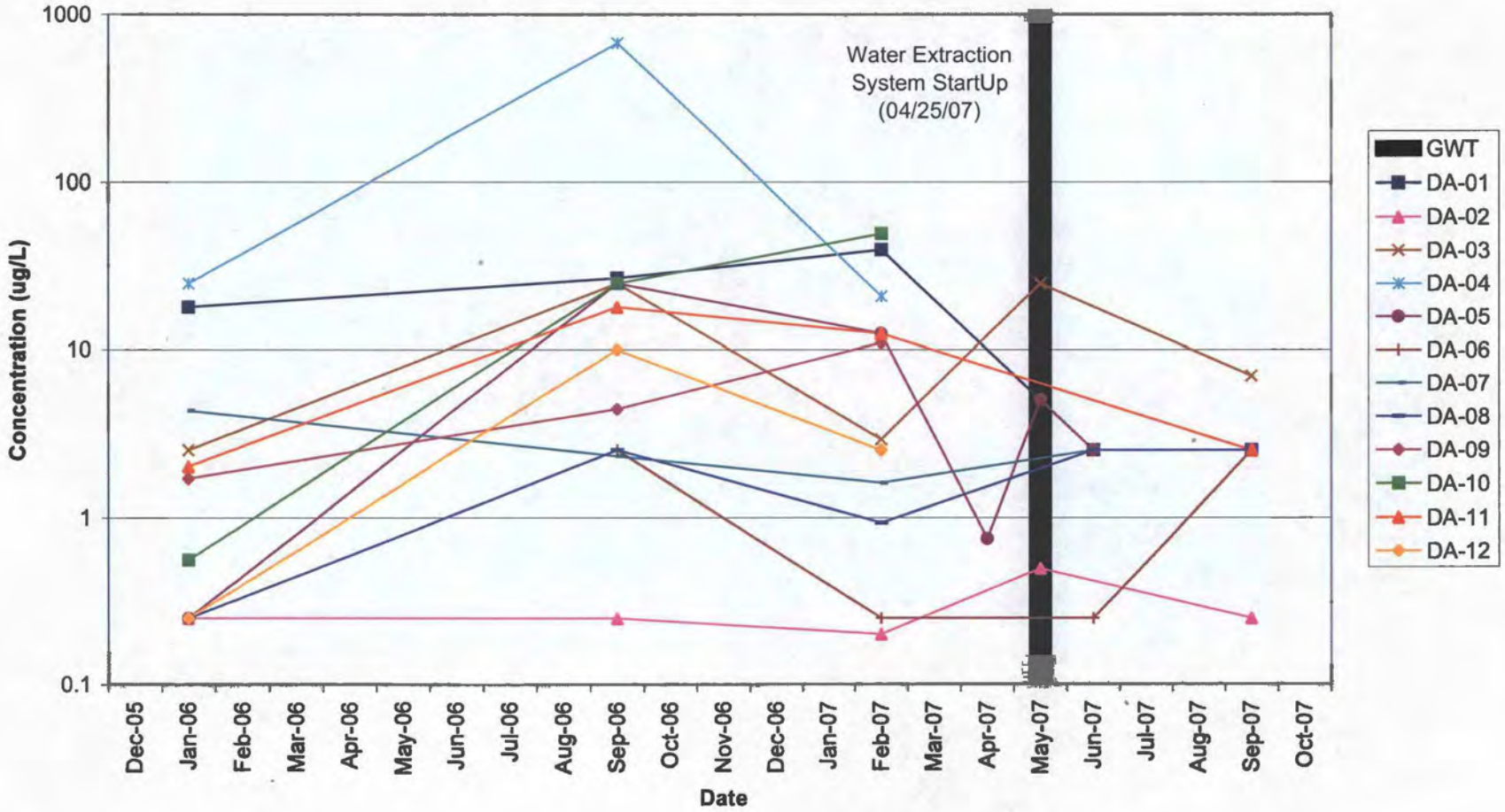
GRAPH10-D
Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: PA-03 to PA-05; PB-01 to PB-05
Pemaco Superfund Site, Maywood, California



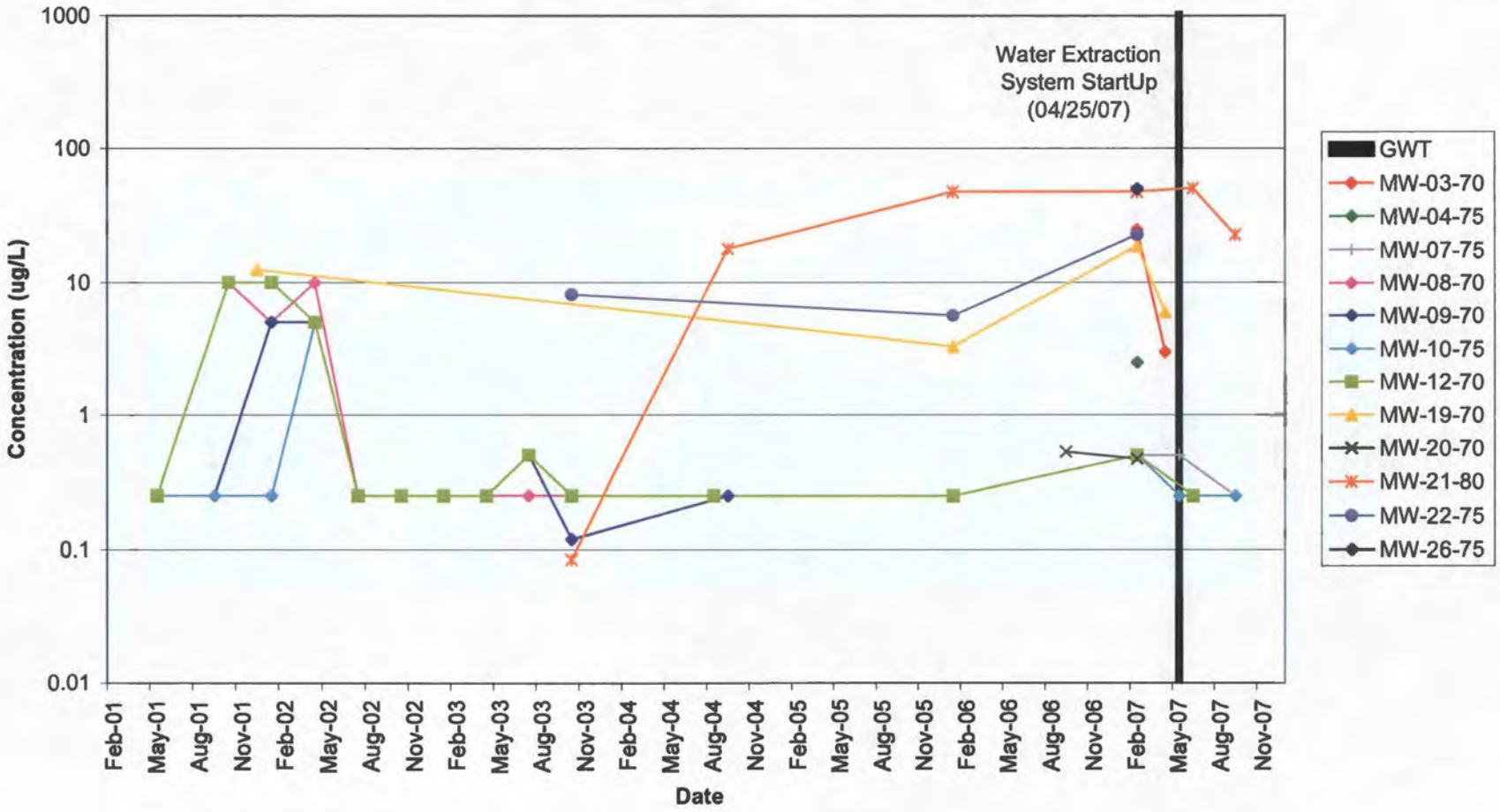
GRAPH 10-E
Vinyl Chloride Concentrations in Groundwater vs. Time
Perched Zone Wells: PB-07; PC-02 to PC-06; PD-04 to PD-09
Pemaco Superfund Site, Maywood, California



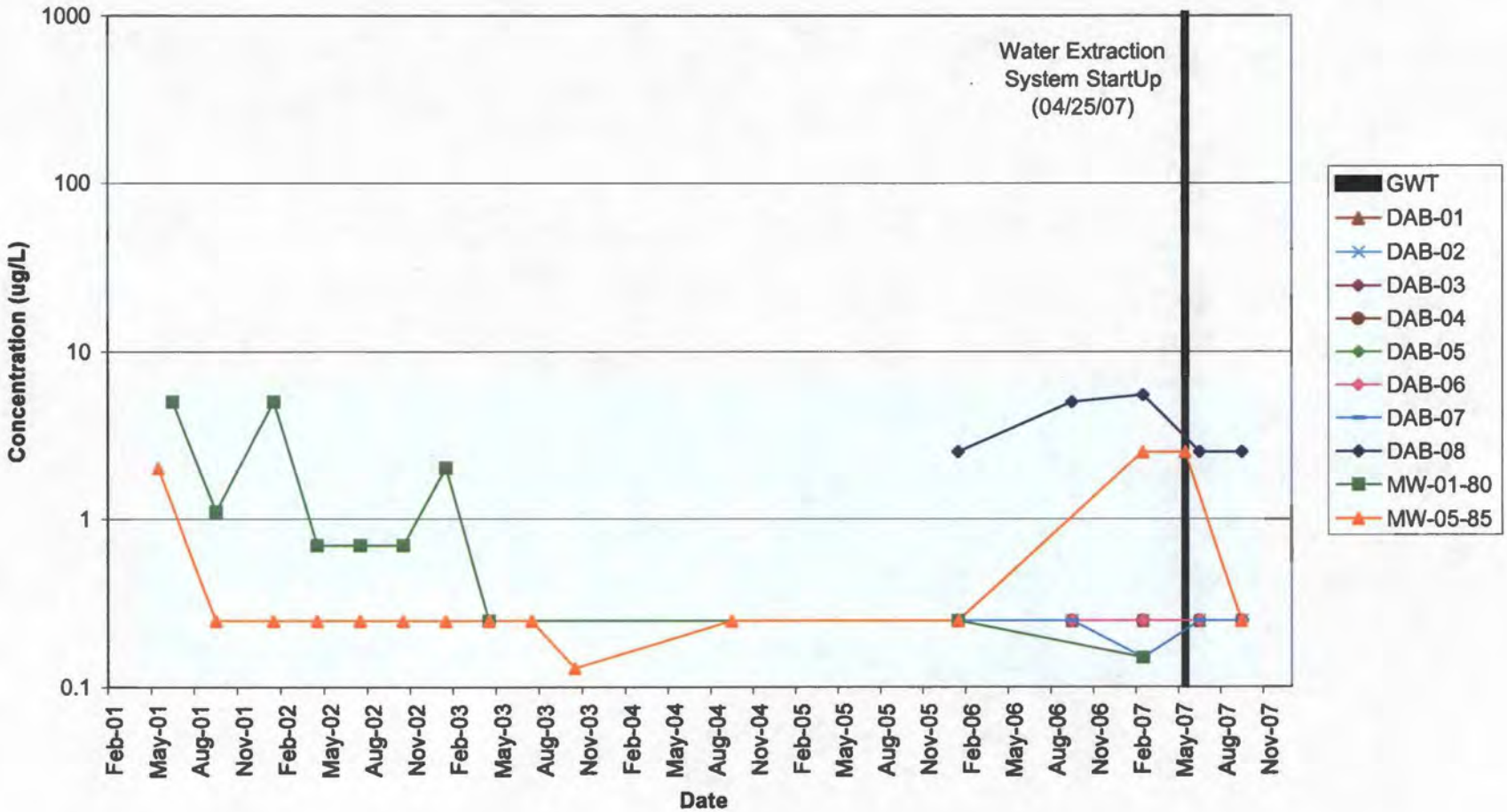
GRAPH 10-F
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: DA-01 to DA-12
Pemaco Superfund Site, Maywood, California



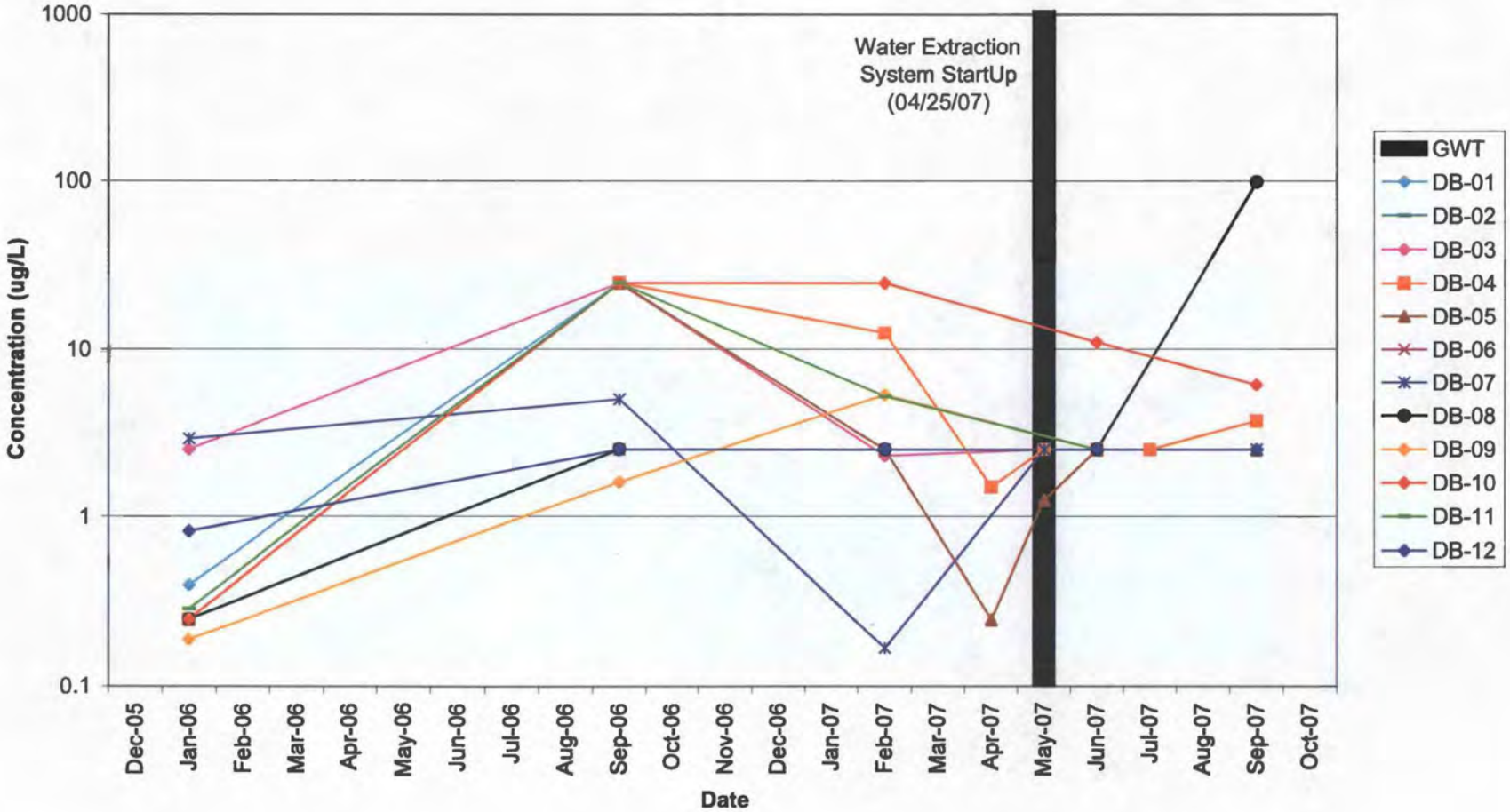
GRAPH 10-G
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'A' Zone Wells: MW-03-70 to MW-26-75
Pemaco Superfund Site, Maywood, California



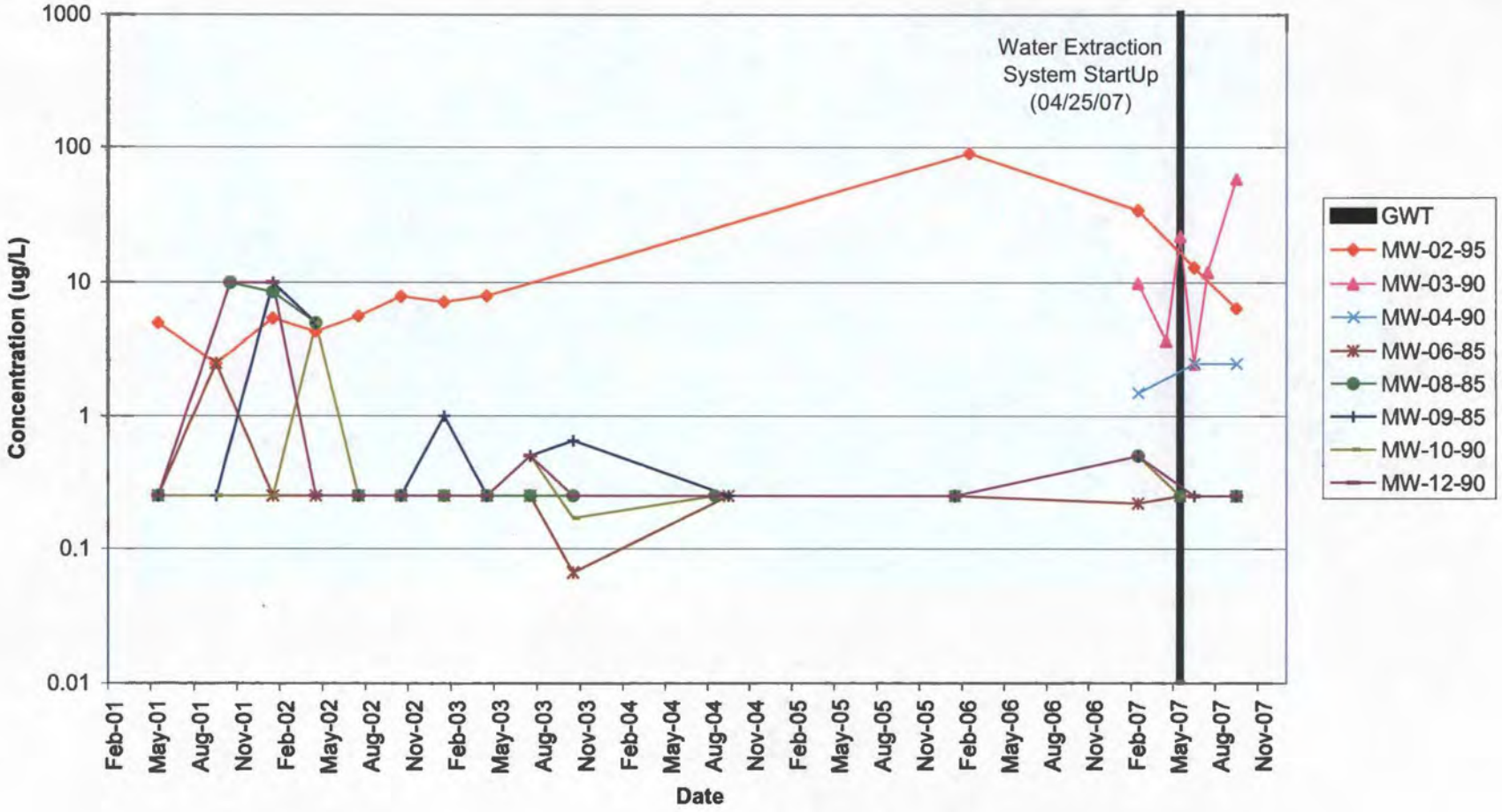
GRAPH 10-H
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'AB' Zone Wells: DAB-01 to DAB-08; MW-01-80 and MW-05-85
Pemaco Superfund Site, Maywood, California



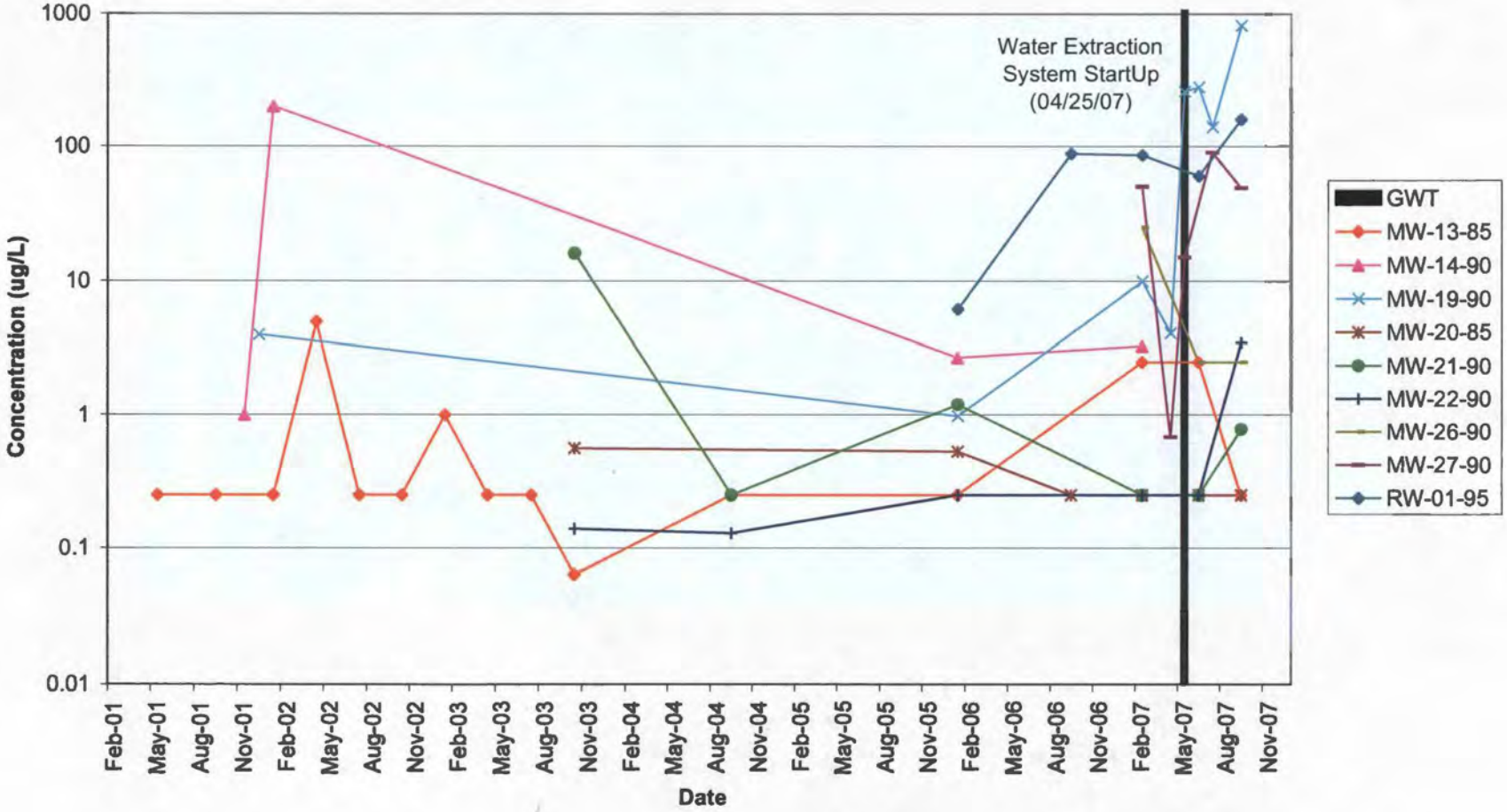
GRAPH 10-I
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: DB-01 to DB-12
Pemaco Superfund Site, Maywood, California



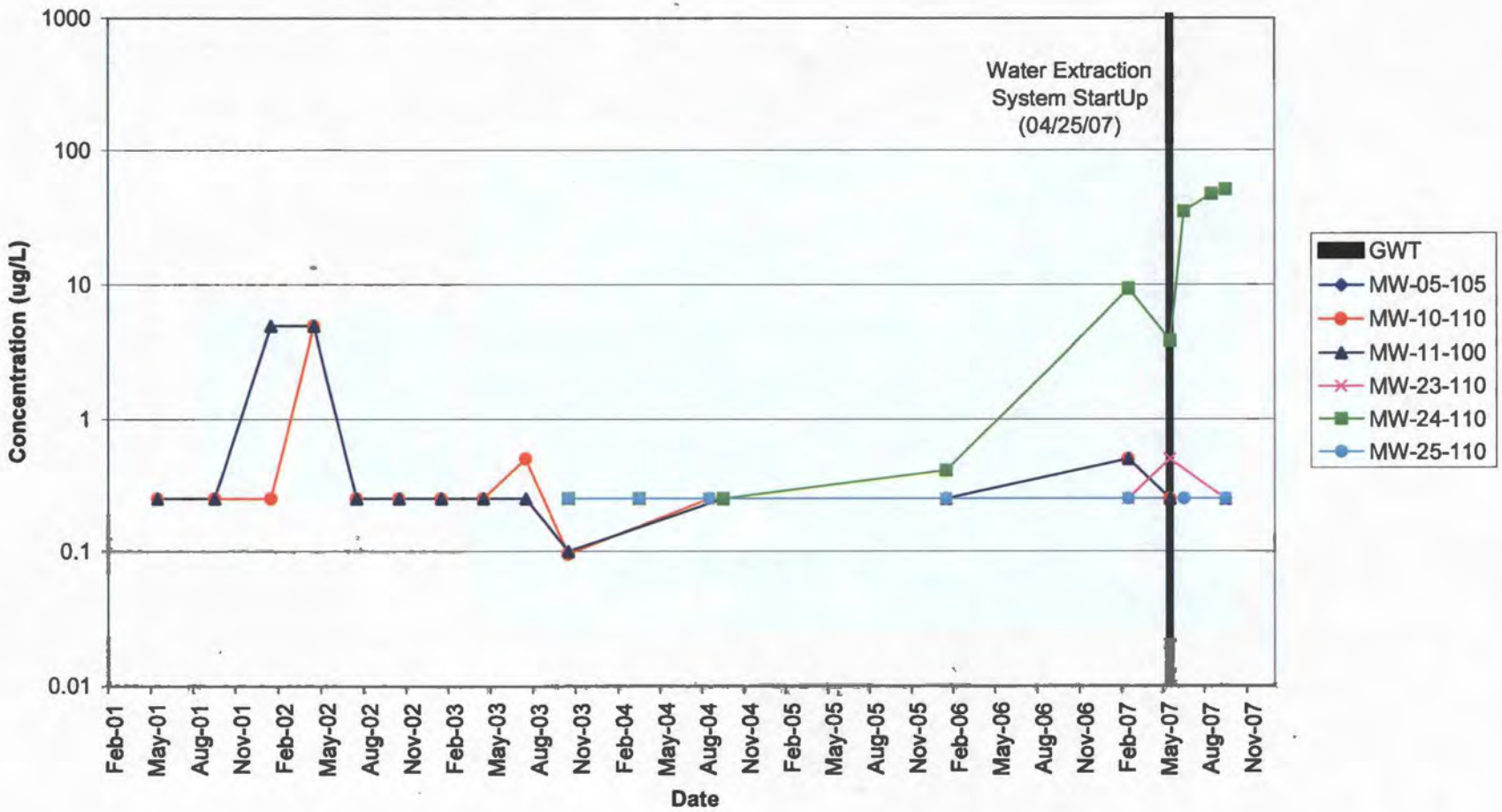
GRAPH 10-J
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-02-95 to MW-12-90
Pemaco Superfund Site, Maywood, California



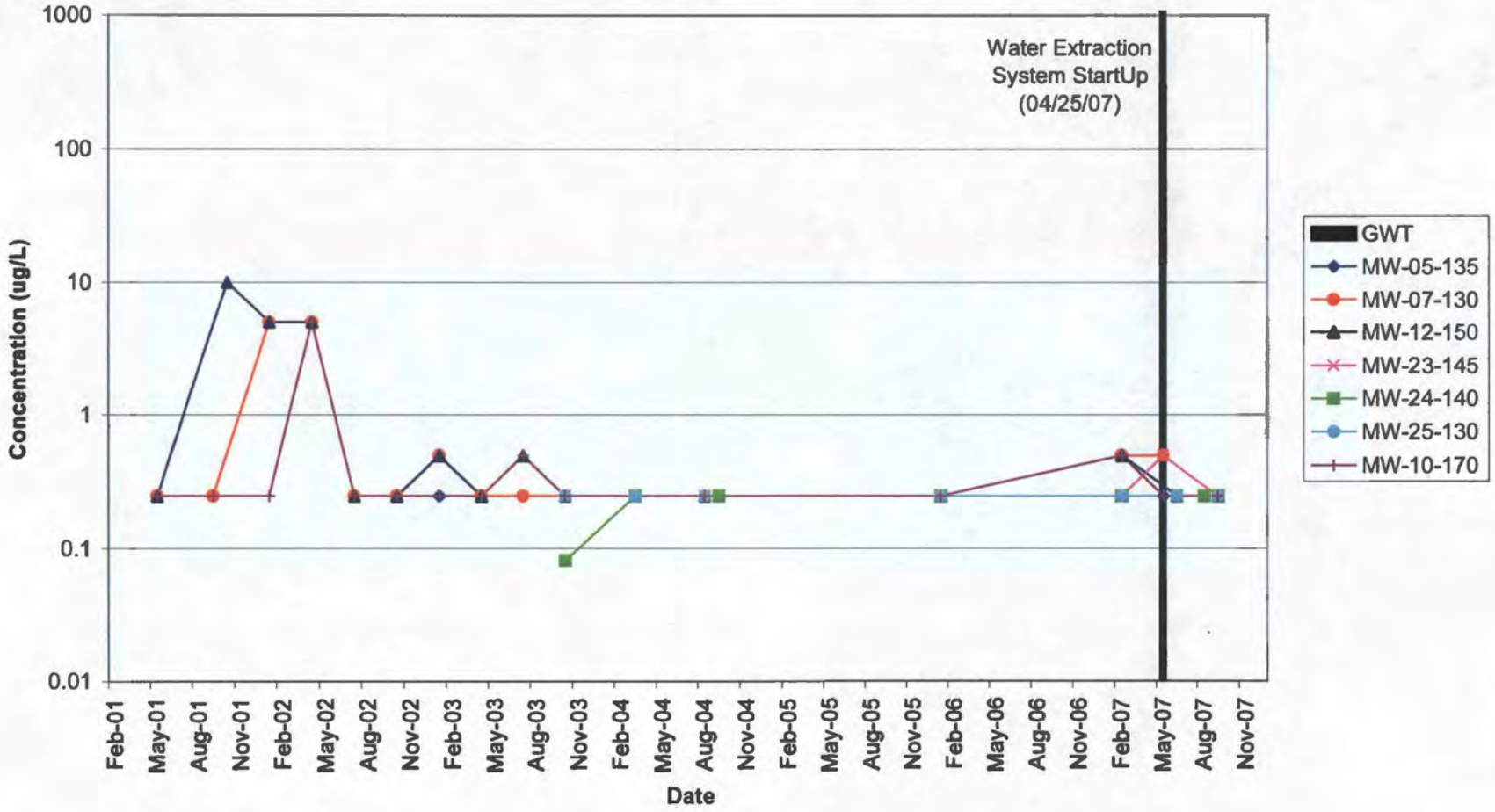
GRAPH 10-K
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'B' Zone Wells: MW-13-85 to MW-27-90; RW-01-95
Pemaco Superfund Site, Maywood, California



GRAPH 10-L
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'C' Zone Wells: MW-05-105 to MW-25-110
Pemaco Superfund Site, Maywood, California



GRAPH 10-M
Vinyl Chloride Concentrations in Groundwater vs. Time
Exposition 'D' & 'E' Zone Wells: MW-05-135 to MW-10-170
Pemaco Superfund Site, Maywood, California



APPENDICES A, B, & C
(On CD)

Appendix A - Field Forms
Appendix B - Laboratory Reports and Data Validation Reports
Appendix C - Summary of Analytical Data

UNSCANNABLE MEDIA

To use the unscannable media document # 2279327
contact the Region IX Superfund Records Center