2004 REPORT
SAN FERNANDO VALLEY SUPERFUND SITES
GROUNDWATER MONITORING PROGRAM

SAN FERNANDO VALLEY
LOS ANGELES COUNTY, CALIFORNIA

Text excluding Figures 3-5 through 3-11 and Appendices

United States Environmental Protection Agency

July 2005

REPORT
2004 RI MONITORING WELL SAMPLING

SAN FERNANDO VALLEY
LOS ANGELES COUNTY, CALIFORNIA

USEPA CONTRACT NO. 68-W-98-225
USEPA WORK ASSIGNMENT NO. 146-RICO-0959

Prepared for

United States Environmental Protection Agency
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Acronyms and Abbreviations

1,2,3-TCP	1,2,3-trichloropropane
CLP	USEPA's Contract Laboratory Program
CRQL	contract required quantification limit
DHS	California Department of Health Services
DTSC	California Department of Toxic Substances Control
gal	gallons
GIS	Geographic Information System
LADWP	Los Angeles Department of Water and Power
LASC	Lockheed Aeronautical Systems Corporation
MCL	maximum contaminant level
MDL	method detection limit
µg/L	micrograms per liter
mg/L	milligrams per liter
MTBE	methyl tertiary butyl ether
NPL	National Priority List
NTU	Nephelometric Turbidity Units
OU	operable unit
PCE	perchloroethylene
QAPP	Quality Assurance Project Plan
QC	quality control
RAC	Response Action Contract
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
SFV	San Fernando Valley
SVOC	semivolatile organic compounds
TCE	trichloroethylene
TDS	total dissolved solids

TOC	total organic carbon
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound
VPB	vertical profile boring

SECTION 1.0

Introduction

This report describes work performed by CH2M HILL for the United States Environmental Protection Agency (USEPA), Region 9 under Work Assignment (WA) 146-RICO-0959. This work assignment authorizes CH2M HILL to assist USEPA in conducting a quarterly groundwater monitoring program as part of the remedial investigation/feasibility study in the San Fernando Valley (SFV). In addition, as an important component of this monitoring program, CH2M HILL collects and integrates all available water quality and water level data into the SFV Geographic Information System (GIS). Monitoring well data from local facilities in the SFV, transmitted through the California Regional Water Quality Control Board (RWQCB), California Department of Toxic Substances Control (DTSC), and Lockheed Aeronautical Systems Corporation (LASC) are included in the database. Data from production wells operated in the SFV are obtained from local groundwater purveyors (Los Angeles Department of Water and Power [LADWP], the Cities of Glendale and Burbank, and Crescenta Valley County Water District) and were also incorporated in the GIS database. The SFV GIS is the primary data source for generation of concentration contour maps accompanying this report.

Previous reports for USEPA's groundwater monitoring program were completed under the ARCSWEST contract, which was superseded by the Response Action Contract (RAC) program in January 1999. Work on this WA under the RAC program began in the fall of 1999 and has continued through 2000, 2001, 2002, 2003, and 2004. The results of the first, second, third, and fourth quarterly sampling events for 2004—conducted from March 10 through March 19, 2004, June 2 through June 10, 2004, August 31 through September 28, 2004, and November 30 through January 28, 2005—are described in this report.

1.1 Setting

The SFV Superfund Site is a large area of groundwater contamination located in Los Angeles County, California (Figure 1-1). In 1984, USEPA proposed four areas within the SFV for inclusion on the National Priority List (NPL) because trichloroethylene (TCE) and perchloroethylene (PCE) were found in groundwater production wells at levels exceeding the maximum contaminant levels (MCLs) for these compounds. During 2003, USEPA began procedures for having the Verdugo Area (Area 3) removed from the NPL, with the site deleted on October 12, 2004. Currently, USEPA is managing the remaining three of the four former NPL areas as one large site, referred to as the SFV Superfund Site. Within this Site are: the North Hollywood Area (Area 1), containing the North Hollywood Operable Unit (OU) and the Burbank OU; the Crystal Springs Area (Area 2), containing the Glendale North and South OUs; and, the Pollock Area (Area 4), which was not established as an OU due to LADWP wellhead treatment plant in the Pollock Wellfield.

Currently, USEPA's remedial investigation monitoring well network is composed of 87 remedial investigation monitoring wells located in the four Areas of the Superfund Site (Figure 1-2). Three of the shallow water table wells (vertical profile borings [VPBs]

PO-VPB-04, PO-VPB-09, and PO-VPB-11) are screened in bedrock and were never completed as monitoring wells. Thus, these wells have not been included in the sampling events described herein. Well completion details are presented in Appendix A.

1.2 Background

TCE and PCE data obtained from CH2M HILL's SFV GIS were used to separate the 84 remedial investigation wells into two categories prior to beginning the monitoring program in 1992: those recommended for quarterly sampling and those recommended for annual sampling. All 84 of the remedial investigation wells were originally included in the annual monitoring program. Of these 84, 41 wells historically having concentrations of TCE and/or PCE in excess of federal and state MCLs were placed into the quarterly monitoring program (CH2M HILL 1991). During the history of the monitoring program, the sampling frequency for the remedial investigation monitoring wells has been modified by USEPA based on observed concentrations of volatile organic compounds (VOCs) and/or other constituents of concern exceeding their respective MCL. Currently, the monitoring program has divided the remedial investigation monitoring wells into two categories: an annual sampling program, including all 84 monitoring wells, and a quarterly sampling program, including all of the remedial investigation monitoring wells exceeding the VOC MCLs or any of the other evaluation criteria (approximately 45 of the 84 monitoring wells). Although not a constituent of concern as defined in the Record of Decision, USEPA is aware of the increasing concern regarding hexavalent chromium present in the groundwater. This awareness has resulted in the inclusion of hexavalent chromium concentrations in re-evaluations of the sampling frequency for the remedial investigation monitoring wells. For the purposes of determining sampling frequency, when a monitoring well has an observed hexavalent chromium concentration of 5 micrograms per liter (µg/L) or greater (one-tenth of the MCL for total dissolved chromium), the well will be sampled quarterly. A summary of remedial investigation wells sampled during the first, second, third, and fourth quarter sampling events of 2004 is presented in Table 1-1.

1.3 Report Organization

This report is organized into sections that describe the activities and analytical results of the sampling events stated above. Section 2.0 describes the observations, procedures, activities, field measurements and analytical results of the first, second, third, and fourth quarter sampling events. Section 3.0 presents a historic comparison of the analytical data from the first, second, third, and fourth quarter sampling events. Included are relationships between water levels, TCE, PCE, other VOCs, and nitrate data. Historical concentrations of TCE, PCE, and nitrate are also presented graphically in this section. References are presented in Section 4.0.

Completion data for remedial investigation monitoring wells are presented in Appendix A. Criteria for the rationale used in selection of data representative of current conditions are presented in Appendix B. Appendix C contains information on submersible pump installation. Copies of the Field Quality Control Summary forms from the first, second, third, and fourth quarter sampling events are provided in Appendix D. Summaries of all detected compounds for these sampling events and quality assurance samples are presented

in Appendixes E and F, respectively. TCE and PCE contamination data are presented in appendices G and H, respectively.

Table 1-1
Wells Sampled, 1st, 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well Name	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
CS-C01-105	Dry	Dry	Dry	Dry
CS-C01-285	03/18/2004	06/08/2004	09/23/2004	12/14/2004
CS-C01-558	(A)	(A)	(A)	12/02/2004
CS-C02-062	03/15/2004	06/07/2004	09/27/2004	12/15/2004
CS-C02-180	03/15/2004	06/07/2004	09/27/2004	12/15/2004
CS-C02-250	03/15/2004	06/07/2004	09/27/2004	12/15/2004
CS-C02-335	03/15/2004	06/07/2004	09/27/2004	12/15/2004
CS-C03-100	03/15/2004	06/07/2004	09/28/2004	12/17/2004
CS-C03-325	(A)	(A)	(A)	12/02/2004
CS-C03-465	03/15/2004	06/07/2004	09/28/2004	12/17/2004
CS-C03-550	(A)	(A)	(A)	12/02/2004
CS-C04-290	03/18/2004	06/10/2004	09/27/2004	12/16/2004
CS-C04-325	(A)	(A)	(A)	12/16/2004
CS-C04-382	03/18/2004	06/10/2004	09/27/2004	12/16/2004
CS-C04-520	(A)	(A)	(A)	12/02/2004
CS-C05-160	03/18/2004	06/10/2004	09/23/2004	12/17/2004
CS-C05-290	03/18/2004	06/10/2004	09/23/2004	12/17/2004
CS-C06-185	03/17/2004	06/09/2004	09/27/2004	12/17/2004
CS-C06-278	(A)	(A)	(A)	12/06/2004
CS-VPB-01	03/12/2004	06/02/2004	09/23/2004	12/15/2004
CS-VPB-02	03/11/2004	06/02/2004	NS	12/15/2004
CS-VPB-03	03/11/2004	06/03/2004	09/23/2004	12/16/2004
CS-VPB-04	03/18/2004	06/10/2004	09/27/2004	12/16/2004
CS-VPB-05	03/18/2004	06/10/2004	09/23/2004	12/17/2004
CS-VPB-06	03/17/2004	06/09/2004	09/27/2004	12/17/2004
CS-VPB-07	03/18/2004	06/08/2004	NS	12/17/2004
CS-VPB-08	03/18/2004	06/10/2004	09/28/2004	12/16/2004
CS-VPB-09	03/11/2004	06/02/2004	09/23/2004	12/16/2004
CS-VPB-10	03/18/2004	06/10/2004	09/27/2004	12/17/2004
CS-VPB-11	Dry	Dry	Dry	Dry
NH-C01-325	03/19/2003	Dry	Dry	Dry

Well Name	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
NH-C01-660	(A)	(A)	(A)	11/30/2004
NH-C01-780	(A)	(A)	(A)	11/30/2004
NH-C02-325	03/16/2004	06/10/2004	09/22/2004	12/13/2004
NH-C02-520	03/16/2004	06/10/2004	09/22/2004	12/13/2004
NH-C02-681	(A)	(A)	(A)	12/01/2004
NH-C03-380	03/16/2004	06/08/2004	09/22/2004	12/13/2004
NH-C03-580	03/16/2004	06/08/2004	09/22/2004	12/13/2004
NH-C03-680	NS	06/08/2004	08/31/2004	12/13/2004
NH-C03-800	(A)	(A)	(A)	12/03/2004
NH-C04-240	03/10/2004	Dry	Dry	12/03/2004
NH-C04-375	(A)	(A)	(A)	12/03/2004
NH-C04-560	(A)	(A)	(A)	12/03/2004
NH-C05-320	Dry	Dry	Dry	Dry
NH-C05-460	(A)	06/04/2004	09/22/2004	12/13/2004
NH-C06-160	03/11/2004	06/03/2004	08/31/2004	12/01/2004
NH-C06-285	(A)	06/03/2004	08/31/2004	12/14/2004
NH-C06-425	(A)	(A)	(A)	12/01/2004
NH-VPB-01	(A)	06/08/2004	09/23/2004	12/14/2004
NH-VPB-02	Dry	Dry	Dry	Dry
NH-VPB-03	Dry	Dry	Dry	Dry
NH-VPB-04	Dry	Dry	Dry	Dry
NH-VPB-05	03/12/2004	06/04/2004	08/31/2004	12/01/2004
NH-VPB-06	Dry	Dry	Dry	Dry
NH-VPB-07	Dry	Dry	Dry	Dry
NH-VPB-08	03/16/2004	06/08/2004	09/22/2004	12/13/2004
NH-VPB-09	Dry	Dry	Dry	Dry
NH-VPB-10	Inop	Inop	Dry	12/14/2004
NH-VPB-11	Dry	Dry	Dry	Dry
NH-VPB-12	Dry	Dry	Dry	Dry
NH-VPB-13	Dry	Dry	Dry	Dry
NH-VPB-14	Dry	Dry	Dry	Dry

Well Name	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
PO-C01-195	(A)	06/09/2004	09/28/2004	12/20/2004
PO-C01-354	(A)	(A)	(A)	12/06/2004
PO-C02-053	03/12/2004	06/04/2004	09/01/2004	12/06/2004
PO-C02-205	(A)	(A)	(A)	12/06/2004
PO-C03-182	03/17/2004	06/09/2004	NS	12/08/2004
PO-C03-235	03/17/2004	NS	NS	12/08/2004
PO-VPB-01	03/17/2004	06/09/2004	09/01/2004	12/07/2004
PO-VPB-02	03/17/2004	06/09/2004	09/28/2004	12/20/2004
PO-VPB-03	03/17/2004	06/09/2004	09/28/2004	12/20/2004
PO-VPB-04	Inactive	Inactive	Inactive	Inactive
PO-VPB-05	03/12/2004	NS	NS	12/07/2004
PO-VPB-06	NS	NS	NS	12/07/2004
PO-VPB-07	03/17/2004	06/09/2004	NS	12/20/2004
PO-VPB-08	03/17/2004	06/09/2004	09/28/2004	12/20/2004
PO-VPB-09	Inactive	Inactive	Inactive	Inactive
PO-VPB-10	(A)	(A)	(A)	12/17/2003
PO-VPB-11	Inactive	Inactive	Inactive	Inactive
VD-VPB-01	Dry	Dry	Dry	Dry
VD-VPB-02	03/19/2004	06/02/2004	09/02/2004	Dry
VD-VPB-03	03/10/2004	06/02/2004	09/02/2004	12/09/2004
VD-VPB-04	Dry	Dry	Dry	Dry
VD-VPB-05	Dry	Dry	Dry	Dry
VD-VPB-06	03/10/2004	06/02/2004	09/01/2004	12/08/2004
VD-VPB-07	03/10/2004	06/02/2004	09/01/2004	12/08/2004

(A) = wells included in annual sampling event only
Inop. = pump inoperable
Dry = Water level below pump intake
Inactive = no pump, screened in bedrock
NS = surface location obstructed or pump removed for construction activities

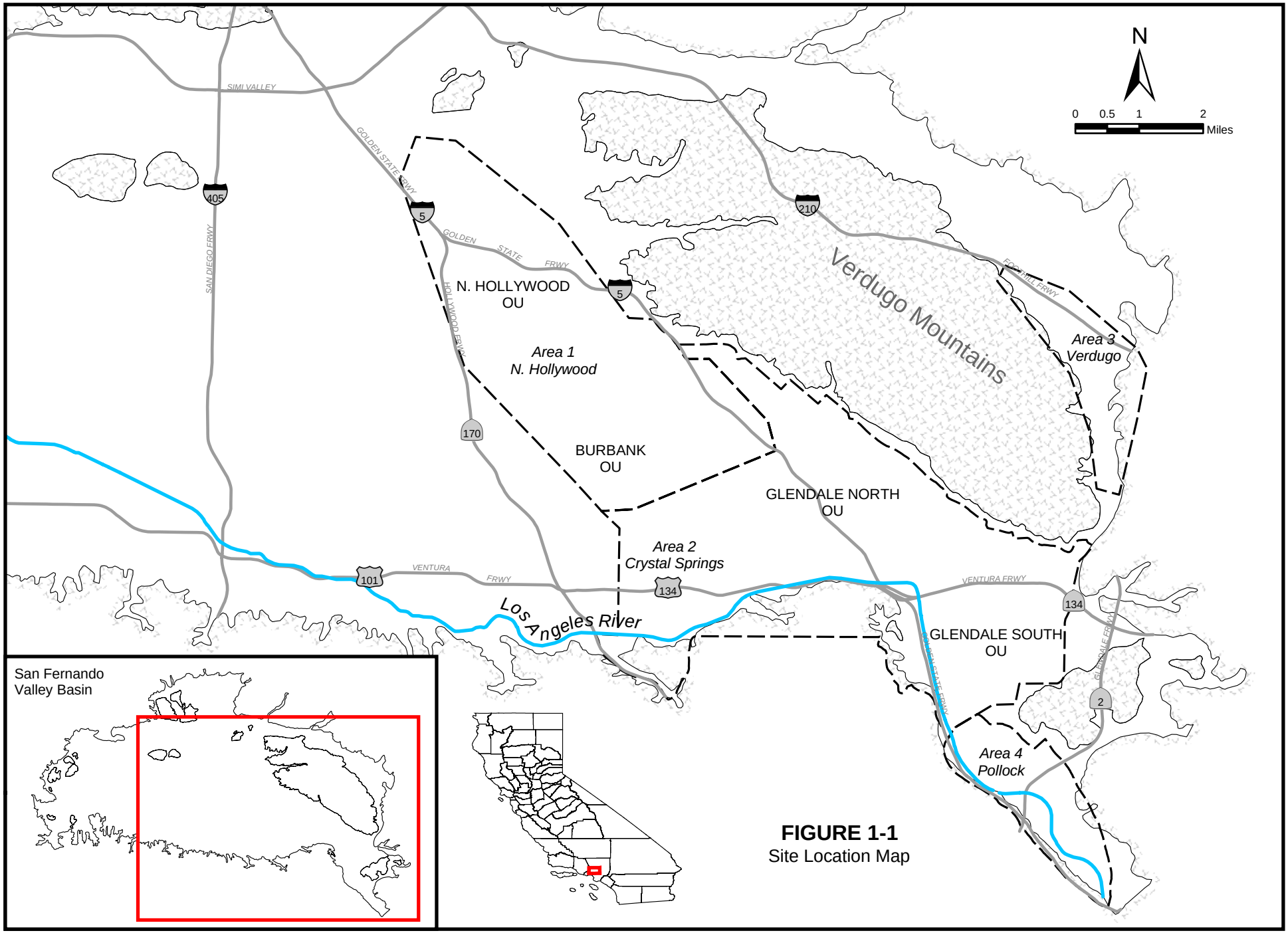


FIGURE 1-1
Site Location Map

BAO \\ZINFANDEL\GIS\PROJECTS\EPASFV\GIS\MXDS\2005\SITE_LOCATION_MAP.MXD SITE_LOCATION_MAP.PDF 8/10/2005 17:26:47

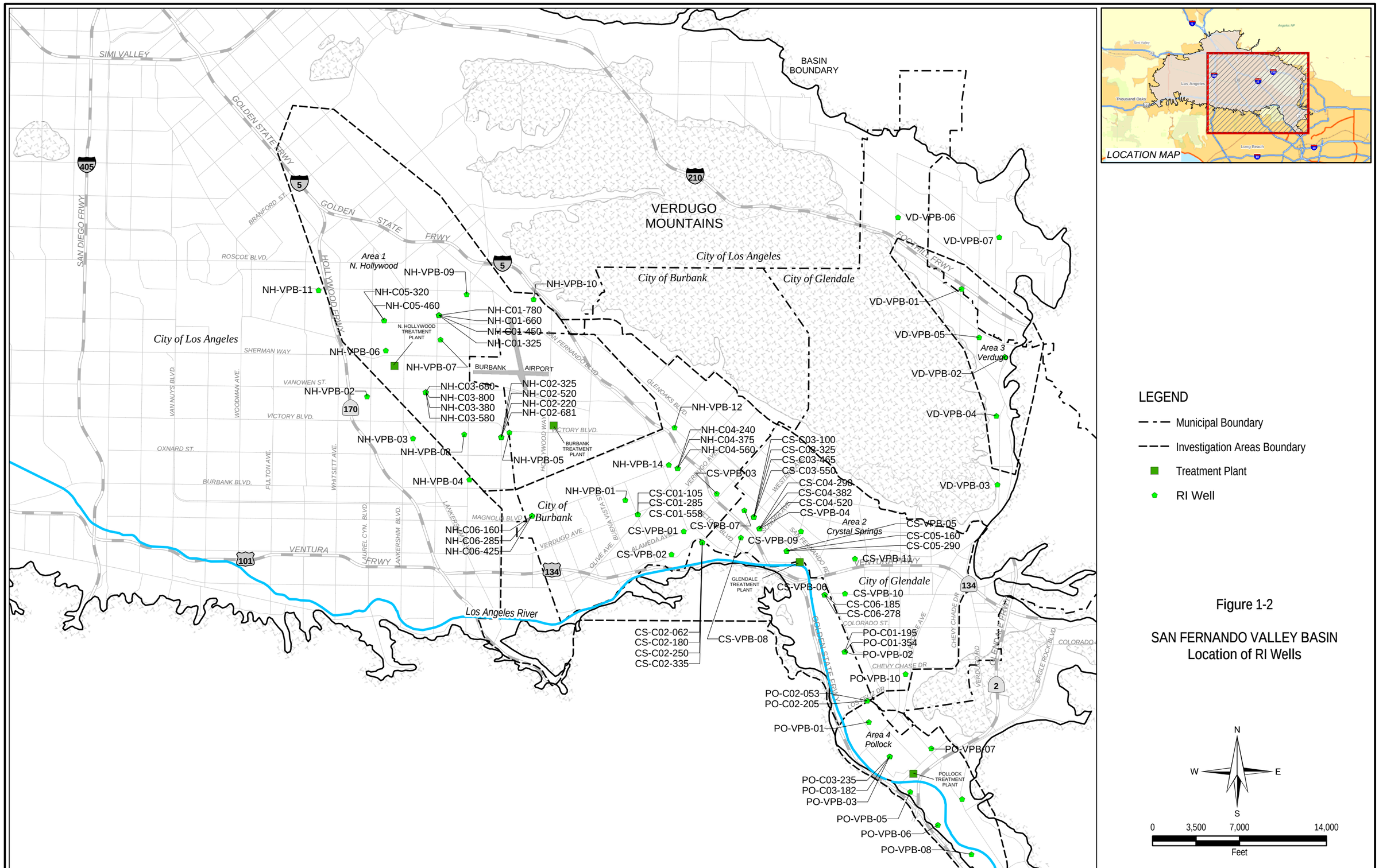


Figure 1-2

SAN FERNANDO VALLEY BASIN
Location of RI Wells

SECTION 2.0

2004 Quarterly Sampling Events

2.1 Sampling Activities

Field sampling procedures for each of the 2004 quarterly sampling events followed the revised project Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP) (E2 Consulting Engineers 1999a-b). During these sampling events, field sampling procedures for the additional parameters described below were included with Addendum No. 2 to the QAPP (E2 Consulting Engineers 1999c) and Addendum No. 3 to the SAP (E2 Consulting Engineers 1999d). Water levels were measured in each well immediately after accessing the well and prior to sampling. The value for the observed depth-to-water and groundwater elevation in feet above mean sea level are presented for each well sampled in Table 2-1. During all four quarters during 2004, 17 remedial investigation monitoring wells (CS-C01-105, CS-VPB-11, NH-C01-325, NH-C05-320, NH-VPB-02, NH-VPB-03, NH-VPB-04, NH-VPB-06, NH-VPB-07, NH-VPB-09, NH-VPB-11, NH-VPB-12, NH-VPB-13, NH-VPB-14, VD-VPB-01, VD-VPB-04, and VD-VPB-05) were not sampled due to inadequate water levels.

Well purging consisted of removing between three and five well volumes of water at a flow rate between 5 and 12 gallons per minute and using the dedicated electric pumps. During purging, pH, temperature, electrical conductivity, and turbidity of the groundwater were measured over time (Table 2-2) to ensure that these parameters stabilized prior to sampling. Following purging, flow rates were lowered to approximately 1 gallon per minute to minimize aeration prior to sampling. Purge water from monitoring wells known to have VOC concentrations above the MCLs was collected in a stainless-steel vacuum truck certified "clean" and site-dedicated by Asbury Environmental Services. Once collected, the purge water was transported for disposal at DK Environmental. Purge water from monitoring wells known to have VOC concentrations below the MCLs was diverted into the nearest storm drain.

During the first, second, and third quarter 2004 sampling events, analytical parameters consisted of VOCs including methyl tertiary butyl ether (MTBE), nitrate/nitrite, and hexavalent chromium. Samples were collected in appropriate containers from polyethylene tubing attached to an adjustable sampling valve. Samples for VOCs were stored in coolers packed with ice and were shipped the day of sampling by overnight carrier to laboratories designated by USEPA's Contract Laboratory Program (CLP). Samples collected for hexavalent chromium and nitrate/nitrite were stored in coolers packed with ice and were shipped the day of sampling by overnight carrier to USEPA's Region 9 Laboratory.

During the fourth quarter (annual) 2004 sampling event, analytical parameters consisted of VOCs (including MTBE), semivolatile organic compounds (SVOCs), nitrate/nitrite, dissolved metals, hexavalent chromium, total alkalinity, total dissolved solids (TDS), total organic carbon (TOC), and additional general water chemistry parameters (chloride, sulfate, hardness). During this sampling event, additional samples were collected from selected facility monitoring wells for silica, ammonia, and sulfide to assist with evaluation of

chemical fate and transport. Samples from selected monitoring wells were also collected for analysis of the emerging constituent of concern, 1,4-dioxane. Samples collected during the fourth quarter 2003 were preserved (if required) according to the methodology presented in the QAPP and Addendum No. 2 to the QAPP, stored in coolers packed with ice, and were shipped the day of sampling by overnight carrier to USEPA's Region 9 laboratory and other laboratories designated by the CLP.

State of California and federal MCLs are listed in Table 2-3; Table 2-4 specifies the methods by which the parameters were analyzed and their respective target detection limits. Chain-of-custody procedures and sample documentation were conducted as outlined in the SAP and QAPP. Copies of field quality assurance/quality control documentation for the first, second, third, and fourth quarter sampling events are provided in Appendix D.

2.1.1 First Quarter

The first quarter 2004 sampling event was designated as a quarterly event. During this event, 43 monitoring wells (22 VPBs and 21 cluster wells) were sampled. An additional two monitoring wells (NH-C02-220 and NH-VPB-09) scheduled for sampling during this event had their pumps removed to accommodate construction activities or the pumps were inoperable. Fifty-six samples were collected and analyzed, including samples representing quality control samples (field blanks, laboratory blanks, and field duplicates). Samples collected by CH2M HILL were analyzed for VOCs, including MTBE, nitrate/nitrite, and hexavalent chromium, through CLP laboratories.

Purge water was collected in a vacuum truck at each monitoring well location where historic VOC concentration exceeded the MCL and was transported to a federally-approved disposal facility. Approximately 8,622 gallons of purge water were collected during the first quarter sampling event.

2.1.2 Second Quarter

The second quarter 2004 sampling event was designated as a quarterly event. During this event, 45 monitoring wells (22 VPBs and 23 cluster wells) were sampled. An additional three monitoring wells (NH-VPB-09, NH-C02-220 and NH-C01-325) scheduled for sampling during this event had their pumps removed to accommodate construction activities or the pumps were inoperable. Sixty samples were collected and analyzed, including samples representing quality control samples (field blanks, laboratory blanks, and field duplicates). Samples collected by CH2M HILL were analyzed for VOCs including MTBE, nitrate/nitrite, and hexavalent chromium, through CLP laboratories.

Purge water was collected in a vacuum truck at each monitoring well location where historic VOC concentration exceeded the MCL and was transported to a federally-approved disposal facility. Approximately 8,964 gallons of purge water were collected during the second quarter sampling event.

2.1.3 Third Quarter

The third quarter 2004 sampling event was a quarterly event during which 43 monitoring wells (20 VPBs and 23 cluster wells) were sampled. Consistent with the previous quarter, 17 monitoring wells scheduled for sampling during this event were dry. An additional five

monitoring wells had their pumps removed to accommodate construction activities or the pumps were inoperable. Sixty-four samples were collected and analyzed, including quality control samples (field blanks, laboratory blanks, and field duplicates). Samples collected by CH2M HILL were analyzed for VOCs including MTBE, nitrate/nitrite, and hexavalent chromium, through CLP laboratories.

Purge water was collected in a vacuum truck at each monitoring well location where the historic VOC concentration exceeded the MCL and was transported to a federally-approved disposal facility. During the third quarter sampling event, approximately 9,497 gallons of purge water were collected, transported, and delivered to the approved disposal facility.

2.1.4 Fourth Quarter

The fourth quarter 2004 sampling event was an annual event during which 64 remedial investigation monitoring wells (24 VPBs and 40 cluster wells) were sampled. In addition to the monitoring wells normally included in the quarterly events above, 18 monitoring wells normally included in the annual event were dry and unable to be sampled. Eighty-four samples were collected and analyzed, including quality control samples (field blanks, laboratory blanks, and field duplicates).

Purge water was collected in a vacuum truck at each monitoring well location where the historic VOC concentration exceeded the MCL and was transported to a federally-approved disposal facility. During the fourth quarter sampling event, approximately 20,471 gallons of purge water were collected, transported, and delivered to the approved disposal facility.

2.2 Analytical Results

2.2.1 First Quarter

Reported concentrations of TCE at remedial investigation monitoring wells ranged from not detected to a high of 1,400 µg/L during the first quarter. Twenty-nine of the 43 remedial investigation monitoring wells exhibited sample concentrations of TCE exceeding the MCL of 5 µg/L. Twelve of the wells had TCE concentrations greater than 100 µg/L, including three wells (CS-VPB-04, CS-VPB-07, and CS-C03-100) with a concentration over 1,000 µg/L (1,400 µg/L, 1,300 µg/L, and 1,200 µg/L, respectively). Non-detectable concentrations of TCE were observed in seven of the monitoring wells, with the remaining seven monitoring wells exhibiting concentrations between the contract required quantification limit (CRQL) and the MCL.

Concentrations of PCE during the first quarter sampling event ranged from not detected to a high of 410 µg/L (CS-C01-285). Of the 43 remedial investigation monitoring wells sampled, 20 had concentrations exceeding the MCL of 5 µg/L, including five wells (CS-C01-285, CS-C02-335, CS-VPB-01, CS-VPB-04 and PO-VPB-02) with concentrations over 100 µg/L (410 µg/L, 230 µg/L, 160 µg/L, 300 µg/L, and 100 µg/L, respectively). Non-detectable concentrations of PCE were observed in six of the monitoring wells, with the remaining 17 monitoring wells exhibited concentrations between the CRQL and the MCL.

During this sampling event, MTBE concentrations above the detection limit of 0.2 µg/L were observed at two monitoring wells: CS-VPB-01 with 1.1 µg/L and PO-C03-235 with 2.5 µg/L.

Nitrate (as NO_3) ranged from 4.2 milligrams per liter (mg/L) at CS-C03-465 to 66.7 mg/L at NH-C06-160. Eleven of the 43 remedial investigation monitoring wells sampled during the first quarter exceeded the nitrate MCL of 45 mg/L (as NO_3). Table 2-5 presents a summary table of TCE, PCE, and nitrate data from the first quarter sampling event. A complete listing of these data, as well as other VOCs for the first quarter sampling event, is located in Appendix E. Results of analyses of duplicates and field blanks for this sampling event are found in Appendix F.

Hexavalent chromium concentrations exceeding the method detection limit (MDL) of 0.2 µg/L were observed in 38 of the 43 remedial investigation monitoring wells during the first quarter of 2004 (Table 2-11). Concentrations above 5 µg/L were observed in 12 remedial investigation monitoring wells: CS-C02-250 with 7.5 µg/L, CS-C03-100 with 180 µg/L, CS-C05-160 with 6.6 µg/L, CS-VPB-03 with 27 µg/L, CS-VPB-04 with 290 µg/L, CS-VPB-05 with 340 µg/L, CS-VPB-06 with 8.7 µg/L, CS-VPB-07 with 45.0 µg/L, CS-VPB-08 with 5.1 µg/L, NH-C04-240 with 5.9 µg/L, NH-C06-160 with 7 µg/L, and PO-VPB-02 with 400 µg/L. The maximum concentration observed was at PO-VPB-02 with 400 µg/L.

TCE, PCE, and nitrate data from the first quarter sampling event are presented in Table 2-5. Additional VOCs exceeding the MCL at remedial investigation monitoring wells are reported in Section 3.0. Appendix E summarizes the complete analytical results for the wells sampled during the third quarter. Results of duplicate samples and field blanks for the third quarter sampling event are presented in Appendix F.

2.2.2 Second Quarter

Reported concentrations of TCE at remedial investigation monitoring wells ranged from non-detectable to a high of 5,900 µg/L during the second quarter. Thirty-four of the 45 remedial investigation monitoring wells exhibited sample concentrations of TCE exceeding the MCL of 5 µg/L. Ten of the wells had TCE concentrations greater than 100 µg/L, including three wells (CS-VPB-04, CS-VPB-07 and CS-C03-100) with concentrations over 1,000 µg/L (5,900 µg/L, 5,300 µg/L and 1,200 µg/L, respectively). Five of the monitoring wells were flagged as non-detectable, with the remaining six monitoring wells exhibiting concentrations between the CRQL and the MCL.

Concentrations of PCE during the second quarter sampling event ranged from non-detectable to a high of 240 µg/L (CS-C02-335). Of the 45 remedial investigation monitoring wells sampled, 23 had concentrations exceeding the MCL of 5 µg/L, including four wells (CS-C01-285, CS-C02-335, CS-VPB-01, and CS-VPB-04) with concentrations over 100 (170 µg/L, 240 µg/L, 180 µg/L, 210 µg/L, and 110 µg/L, respectively). Three monitoring wells were flagged as non-detectable and the remaining 19 had concentrations between the CRQL and the MCL.

During this sampling event, MTBE concentrations between 0.28 and 1.1 µg/L were detected at six monitoring wells: CS-VPB-01 with 1 µg/L, CS-VPB-04 with 0.28 µg/L, CS-VPB-05

with 1.1 μg/L, CS-VPB-08 with 0.52 μg/L, PO-C03-182 with 0.33 μg/L, and PO-VPB-08 with 0.50 μg/L.

Nitrate (as NO_3) ranged from 4.5 mg/L at CS-C03-100 to 68.1 mg/L at NH-C06-160. Fifteen of the 45 remedial investigation monitoring wells sampled during the second quarter exceeded the nitrate MCL of 45 mg/L (as NO_3). Table 2-6 presents a summary table of TCE, PCE, and nitrate data from the second quarter sampling event. A complete listing of these data, as well as other VOCs for the second quarter sampling event, is located in Appendix E. Results of analyses of duplicates and field blanks for this sampling event are found in Appendix F.

Hexavalent chromium concentrations exceeding the MDL of 0.2 μg/L were observed in 35 of the 45 remedial investigation monitoring wells during the second quarter of 2004 (Table 2-11). Concentrations above 5 μg/L were observed in 10 remedial investigation monitoring wells: CS-C02-250 with 7.7 μg/L, CS-C02-335 with 5.2 μg/L, CS-C03-100 with 120 μg/L, CS-C05-160 with 7.3 μg/L, CS-VPB-03 with 26 μg/L, CS-VPB-04 with 340 μg/L, CS-VPB-05 with 310 μg/L, CS-VPB-07 with 42 μg/L, NH-C06-160 with 6.3 μg/L, and PO-VPB-02 with 290 μg/L. The maximum concentration observed was at CS-VPB-04 with 340 μg/L.

TCE, PCE, and nitrate data from the second quarter sampling event are presented in Table 2-6. Additional VOCs exceeding the MCL at remedial investigation monitoring wells are reported in Section 3.0. Appendix E summarizes the complete analytical results for the wells sampled during the third quarter. Results of duplicate samples and field blanks for the third quarter sampling event are presented in Appendix F.

2.2.3 Third Quarter

In the 429 remedial investigation monitoring wells sampled during the third quarter sampling event, TCE concentrations ranged from not detected to 7,200 μg/L at CS-VPB-04. Thirty of the wells had reported concentrations of TCE exceeding 5 μg/L, including 11 with concentrations over 100 μg/L. Of these monitoring wells, two were 1,000 μg/L or above (CS-VPB-04 with 7,200 μg/L and CS-C03-100 with 1,400 μg/L).

Reported concentrations of PCE ranged from concentrations between the detection limit and the MCL at 17 monitoring wells to a high of 260 μg/L at CS-C02-335. Concentrations of PCE above the MCL of 5 μg/L were reported in 24 of the 42 monitoring wells sampled during the third quarter event. Consistent with the previous quarter, four of these wells (CS-C01-285, CS-C02-335, CS-VPB-01, and CS-VPB-04) had PCE concentrations above 100 μg/L. All of the monitoring wells exceeding the MCL for PCE also exceeded the MCL for TCE, with the exception of CS-VPB-09.

MTBE concentrations between 0.3 and 2 μg/L were detected at 12 monitoring wells during the third quarter of 2004: CS-C02-062 with 2 μg/L, CS-VPB-01 with 1.2 μg/L, CS-VPB-04 with 0.2 μg/L, CS-VPB-05 with 1.1 μg/L, CS-VPB-08 with 1.6 μg/L, CS-VPB-10 with 1 μg/L, NH-VPB-01 with 0.2 μg/L, PO-C03-102 with 0.3 μg/L, PO-VPB-02 with 0.4 μg/L, PO-VPB-03 with 0.2 μg/L, PO-VPB-08 with 0.8 μg/L and VD-VPB-06 with 0.3 μg/L.

During the third quarter, nitrate (as NO_3) concentrations ranged from 4.9 mg/L at CS-C03-465 to 71.21 mg/L at NH-C06-160. Eleven of the 49 wells sampled during this event exhibited concentrations greater than the MCL of 45 mg/L.

Hexavalent chromium concentrations exceeding the MDL of 0.2 µg/L were observed in 37 remedial investigation monitoring wells during the third quarter of 2004 (Table 2-11). Concentrations above 5 µg/L were observed in 11 remedial investigation monitoring wells: CS-C01-285 with 5.3 µg/L, CS-C02-250 with 6.1 µg/L, CS-C02-335 with 5.3 µg/L, CS-C03-100 with 120 µg/L, CS-C05-160 with 8.1 µg/L, CS-VPB-03 with 28.0 µg/L, CS-VPB-04 with 310 µg/L, CS-VPB-05 with 320 µg/L, CS-VPB-06 with 11 µg/L, NH-C06-160 with 6.8 µg/L, and PO-VPB-02 with 340 µg/L. The maximum concentration observed was at PO-VPB-02 with 340 µg/L.

TCE, PCE, and nitrate data from the third quarter sampling event are presented in Table 2-7. Additional VOCs exceeding the MCL at remedial investigation monitoring wells are reported in Section 3.0. Appendix E summarizes the complete analytical results for the wells sampled during the third quarter. Results of duplicate samples and field blanks for the third quarter sampling event are presented in Appendix F.

2.2.4 Fourth Quarter

In the 64 remedial investigation monitoring wells sampled during the fourth quarter sampling event, TCE concentrations ranged from not detected to 4,700 µg/L at CS-VPB-04. Thirty-one of the wells had reported concentrations of TCE exceeding 5 µg/L, including 10 with concentrations over 100 µg/L. Of these monitoring wells, three were 1,000 µg/L or above (CS-VPB-07 with 4,300 µg/L, CS-VPB-04 with 4,700 µg/L, and CS-C03-100 with 1,000 µg/L).

Reported concentrations of PCE ranged from concentrations between the detection limit and the MCL at 21 monitoring wells to a high of 350 µg/L at CS-C02-335. Concentrations of PCE above the MCL of 5 µg/L were reported in 22 of the 64 monitoring wells sampled during the fourth quarter event. Five of these wells (CS-C01-285, CS-C02-335, CS-VPB-01, CS VPB 04, and PO-VPB-02) had PCE concentrations above 100 µg/L. All of the monitoring wells exceeding the MCL for PCE also exceed the MCL for TCE.

MTBE concentrations between 0.2 and 1.6 µg/L were detected at seven monitoring wells during the fourth quarter of 2004: CS-VPB-01 with 1.3 µg/L, CS-VPB-05 with 1.2 µg/L, CS-VPB-06 with 0.2 µg/L, CS-VPB-08 with 0.7 µg/L, PO-C03-235 with 0.9 µg/L, PO-VPB-02 with 1.6 µg/L, and PO-VPB-08 with 0.4 µg/L.

Samples were collected for 1,4-dioxane analysis from 48 of the 64 monitoring wells during the fourth quarter sampling event. Remedial investigation monitoring wells where concentrations of 1,4-dioxane were previously observed during the 2002 annual event were selected for this sample group. 1,4-dioxane concentrations above the MDL were observed in 14 of the 48 remedial investigation monitor wells. Five of these wells exceeded the California detection limit for purposes of reporting (DLR): CS-C03-100 with 13 µg/L, CS-VPB-04 with 63 µg/L, CS-VPB-05 with 16 µg/L, CS-VPB-07 with 43, and PO-VPB-02 with 5.4 µg/L.

During the fourth quarter, nitrate (as NO_3) concentrations ranged from 1.2 mg/L at CS-C03-550 to 66.8 mg/L at NH-C06-160. Eleven of the 64 wells sampled during this event exhibited concentrations greater than the MCL of 45 mg/L.

Hexavalent chromium concentrations exceeding the MDL of 0.2 µg/L were observed in 45 remedial investigation monitoring wells during the fourth quarter of 2004 (Table 2-11). Concentrations above 5 µg/L were observed in 13 remedial investigation monitoring wells: CS-C01-285 with 5.1 µg/L, CS-C02-250 with 5.6 µg/L, CS-C03-100 with 120 µg/L, CS-C05-160 with 7.2 µg/L, CS-VPB-03 with 29 µg/L, CS-VPB-04 with 240 µg/L, CS-VPB-05 with 360 µg/L, CS-VPB-06 with 8.5 µg/L, CS-VPB-07 with 51 µg/L, CS-VPB-08 with 5.1 µg/L, NH-C04-375 with 5.2 µg/L, NH-C06-160 with 7.4 µg/L, and PO-VPB-02 with 270 µg/L. The maximum concentration observed was at CS-VPB-05 with 360 µg/L.

TCE, PCE, and nitrate data from the fourth quarter sampling event are presented in Table 2-8. Additional discussions presenting comparisons between VOC concentrations, SVOCs and 1,4-dioxane concentrations observed at remedial investigation monitoring wells are reported in Section 3.0. Results of the general water chemistry observed during the annual event of 2004 are presented in Table 2-9; the results of dissolved metals exceeding MCLs are in Table 2-10; a quarterly comparison of hexavalent chromium concentrations are presented in Table 2-11. Appendix E summarizes the complete analytical results for the wells sampled during the fourth quarter. Results of duplicate samples and field blanks for the fourth quarter sampling event are presented in Appendix F.

TABLE 2-1

Groundwater Elevation

First, Second, Third and Fourth Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Date	Depth to Water (ft msl)	Ground Water Elevation (ft msl)	Well Name	Date	Depth to Water (ft msl)	Ground Water Elevation (ft msl)
CS-C01-105	03/18/04	100.61	441.78	NH-C03-380	03/16/04	247.99	460.16
	09/23/04	NS	542.39		06/08/04	244.90	463.25
	NS	NS	NS		09/22/04	248.80	459.35
	NS	NS	NS		12/13/04	246.80	461.35
CS-C01-285	03/18/04	100.35	442.13	NH-C03-580	03/16/04	247.57	461.13
	06/08/04	99.40	442.99		06/08/04	242.00	466.70
	09/23/04	103.10	439.38		09/22/04	250.46	458.24
	12/14/04	103.49	438.99		12/13/04	246.35	462.35
CS-C01-558	NS	NS	NS	NH-C03-680	NS	NS	NS
	NS	NS	NS		06/08/04	241.40	466.62
	NS	NS	NS		08/31/04	248.00	460.02
	12/02/04	103.54	439.01		12/13/04	245.30	462.72
CS-C02-062	03/15/04	47.70	428.05	NH-C03-800	NS	NS	NS
	06/07/04	47.19	428.56		NS	NS	NS
	09/27/04	48.32	427.43		NS	NS	NS
	12/15/04	49.05	426.70		12/03/04	242.93	465.62
CS-C02-180	03/15/04	47.48	428.11	NH-C04-240	03/10/04	103.95	453.93
	06/07/04	46.93	428.66		NS	NS	NS
	09/27/04	48.30	427.29		NS	NS	NS
	12/15/04	49.12	426.47		12/03/04	106.90	450.98
CS-C02-250	03/15/04	47.25	428.35	NH-C04-375	NS	NS	NS
	06/07/04	46.62	428.98		NS	NS	NS
	09/27/04	48.00	427.60		NS	NS	NS
	12/15/04	48.66	426.94		12/03/04	102.65	455.10
CS-C02-335	03/15/04	47.00	428.86	NH-C04-560	NS	NS	NS
	06/07/04	46.44	429.42		NS	NS	NS
	09/27/04	45.95	429.91		NS	NS	NS
	12/15/04	48.59	427.27		12/03/04	101.10	456.24
CS-C03-100	03/15/04	60.91	426.44	NH-C05-460	NS	NS	NS
	06/07/04	60.80	426.55		06/04/04	306.05	466.10
	09/28/04	61.17	426.18		09/22/04	315.20	456.95
	12/17/04	62.32	425.03		12/13/04	308.75	463.40
CS-C03-325	NS	NS	NS	NH-C06-160	03/11/04	130.57	460.27
	NS	NS	NS		06/03/04	129.66	461.18
	NS	NS	NS		08/31/04	131.65	459.19
	12/02/04	63.22	424.32		12/01/04	132.26	458.58
CS-C03-465	03/15/04	63.07	425.06	NH-C06-285	NS	NS	NS
	06/07/04	62.61	425.52		06/03/04	133.41	457.50
	09/28/04	63.58	424.55		08/31/04	137.35	460.89
	12/17/04	64.60	423.53		12/14/04	138.22	460.02
CS-C03-550	NS	NS	NS	NH-C06-425	NS	NS	NS
	NS	NS	NS		NS	NS	NS
	NS	NS	NS		NS	NS	NS
	12/02/04	64.81	422.46		12/01/04	137.50	451.94
CS-C04-290	03/18/04	53.65	424.57	NH-VPB-01	NS	NS	NS
	06/10/04	53.58	424.64		06/08/04	113.62	445.51
	09/27/04	54.21	424.01		09/23/04	115.36	443.77
	12/16/04	55.22	423.00		12/14/04	116.30	442.83

TABLE 2-1

Groundwater Elevation

First, Second, Third and Fourth Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Date	Depth to Water (ft msl)	Ground Water Elevation (ft msl)	Well Name	Date	Depth to Water (ft msl)	Ground Water Elevation (ft msl)
CS-C04-382	03/18/04	53.59	424.17	NH-VPB-05	03/12/04	198.05	458.63
	06/10/04	53.40	424.36		06/04/04	197.75	458.93
	09/27/04	54.05	423.71		08/31/04	198.20	458.48
	12/16/04	55.05	422.71		12/01/04	199.17	457.51
CS-C04-520	NS	NS	NS	NH-VPB-08	03/16/04	208.37	460.31
	NS	NS	NS		06/08/04	206.30	462.38
	NS	NS	NS		09/22/04	208.26	460.42
	12/02/04	55.00	422.88		12/13/04	208.78	459.90
CS-C05-160	03/18/04	40.01	418.86	NH-VPB-10	NS	NS	NS
	06/10/04	40.13	418.74		NS	NS	NS
	09/23/04	40.00	418.87		NS	NS	NS
	12/17/04	41.22	417.65		12/14/04	NS	763.28
CS-C05-290	03/18/04	39.76	419.55	PO-C01-195	NS	NS	NS
	06/10/04	39.90	419.41		06/09/04	46.41	397.31
	09/23/04	40.30	419.01		09/28/04	45.35	398.37
	12/17/04	41.48	417.83		12/20/04	46.13	397.59
CS-C06-185	03/17/04	39.99	415.70	PO-C01-354	NS	NS	NS
	06/09/04	40.37	415.32		NS	NS	NS
	09/27/04	40.15	415.54		NS	NS	NS
	12/17/04	40.98	414.71		12/06/04	44.60	397.70
CS-C06-278	NS	NS	NS	PO-C02-053	03/12/04	38.38	388.14
	NS	NS	NS		06/04/04	39.27	387.25
	NS	NS	NS		09/01/04	38.68	387.84
	12/06/04	41.14	414.17		12/06/04	38.60	387.92
CS-VPB-01	NS	NS	NS	PO-C02-205	NS	NS	NS
	06/02/04	65.20	433.33		NS	NS	NS
	09/23/04	66.45	432.08		NS	NS	NS
	12/15/04	67.31	431.22		12/06/04	36.23	390.56
CS-VPB-02	03/12/04	68.61	438.89	PO-C03-182	03/17/04	50.02	335.13
	06/02/04	72.41	435.09		06/09/04	47.75	337.40
	NS	NS	NS		09/01/04	45.41	339.74
	12/15/04	75.02	432.48		12/08/04	45.46	339.69
CS-VPB-03	03/11/04	46.49	471.75	PO-C03-235	03/17/04	50.04	334.95
	06/03/04	67.06	451.18		NS	NS	NS
	09/23/04	67.72	450.52		NS	NS	NS
	12/16/04	68.48	449.76		12/08/04	45.37	339.62
CS-VPB-04	03/18/04	54.37	424.10	PO-VPB-01	03/17/04	25.70	385.63
	06/10/04	54.35	424.12		06/09/04	26.69	384.64
	09/27/04	54.50	423.97		09/01/04	26.27	385.06
	12/16/04	55.68	422.79		12/07/04	25.85	385.48
CS-VPB-05	03/08/04	40.55	419.06	PO-VPB-02	03/17/04	45.69	397.72
	06/10/04	40.75	418.86		06/09/04	46.52	396.89
	09/23/04	40.60	419.01		NS	NS	NS
	12/17/04	41.85	417.76		12/20/04	46.20	397.21

TABLE 2-1

Groundwater Elevation

First, Second, Third and Fourth Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Date	Depth to Water (ft msl)	Ground Water Elevation (ft msl)	Well Name	Date	Depth to Water (ft msl)	Ground Water Elevation (ft msl)
CS-VPB-06	03/17/04	41.17	414.27	PO-VPB-03	03/17/04	43.25	342.86
	06/09/04	41.43	414.01		06/09/04	42.08	344.03
	09/27/04	41.22	414.22		09/28/04	39.72	346.39
	12/17/04	42.03	413.41		12/20/04	39.89	346.22
CS-VPB-07	03/18/04	66.71	427.73	PO-VPB-05	03/12/04	36.11	330.46
	06/08/04	66.82	427.62		NS	NS	NS
	NS	NS	NS		NS	NS	NS
	12/17/04	68.11	426.33		12/07/04	31.87	334.70
CS-VPB-08	03/18/04	58.14	424.91	PO-VPB-06	NS	NS	NS
	06/10/04	57.90	425.15		NS	NS	NS
	09/28/04	58.51	424.54		NS	NS	NS
	12/16/04	59.58	423.47		12/07/04	22.70	323.77
CS-VPB-09	03/11/04	56.28	429.45	PO-VPB-07	03/17/04	61.91	332.33
	06/02/04	56.40	429.33		06/09/04	59.97	334.27
	09/23/04	56.60	429.13		09/28/04	56.86	337.38
	12/16/04	57.77	427.96		12/20/04	57.57	336.67
CS-VPB-10	03/18/04	66.04	413.62	PO-VPB-08	03/17/04	17.76	313.54
	06/10/04	66.44	413.22		06/09/04	18.13	313.17
	09/27/04	66.13	413.53		09/28/04	17.82	313.48
	12/17/04	66.77	412.89		12/20/04	17.82	313.48
NH-C01-325	NS	NS	NS	PO-VPB-10	NS	NS	NS
	NS	NS	NS		NS	NS	NS
	09/22/04	312.13	469.05		NS	NS	NS
	12/14/04	316.34	465.09		12/07/04	63.63	409.17
NH-C01-660	NS	NS	NS	VD-VPB-02	03/19/04	108.54	1060.490
	NS	NS	NS		06/02/04	108.31	1060.720
	NS	NS	NS		09/02/04	108.34	1060.690
	11/30/04	315.58	465.72		NS	NS	NS
NH-C01-780	NS	NS	NS	VD-VPB-03	03/10/04	22.81	793.32
	NS	NS	NS		06/02/04	23.18	792.95
	NS	NS	NS		09/02/04	24.15	791.98
	11/30/04	314.95	466.52		12/09/04	23.95	792.18
NH-C02-325	03/16/04	198.47	458.25	VD-VPB-06	03/10/04	69.88	1577.95
	NS	NS	NS		06/02/04	70.07	1577.76
	NS	NS	NS		09/01/04	70.55	1577.28
	12/13/04	199.65	457.07		12/08/04	70.93	1576.90
NH-C02-520	03/16/04	197.61	459.43	VD-VPB-07	03/10/04	188.84	1655.93
	06/10/04	195.50	461.54		06/02/04	190.73	1654.04
	09/22/04	201.33	455.71		09/01/04	189.29	1655.48
	12/13/04	199.66	457.38		12/08/04	191.10	1653.67
NH-C02-681	NS	NS	NS				
	NS	NS	NS				
	NS	NS	NS				
	12/01/04	195.18	461.78				

NS - Not Sampled

TABLE 2-2
Final Field Measurements
1st , 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
CS-C01-105	03/18/2004	15	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
CS-C01-285	03/18/2004	366	17.10	7.43	787.00	2.63
	06/08/2004	363	21.20	7.44	556.00	0.85
	09/23/2004	360	25.20	7.37	554.00	2.00
	12/14/2004	360	25.50	7.44	629.00	3.61
CS-C01-558	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/02/2004	900	13.60	7.77	580.00	2.13
CS-C02-062	03/15/2004	30	18.60	7.03	1270.00	5.04
	06/07/2004	30	19.10	7.00	1290.00	2.94
	09/27/2004	27	27.40	6.99	1000.00	16.40
	12/15/2004	27	23.10	7.04	1380.00	4.69
CS-C02-180	03/15/2004	261	20.10	7.50	1060.00	34.80
	06/07/2004	270	19.40	7.55	990.00	41.70
	09/27/2004	258	25.10	7.42	904.00	13.10
	12/15/2004	258	22.40	7.44	1190.00	7.83
CS-C02-250	03/15/2004	399	18.70	7.46	606.00	4.59
	06/07/2004	390	19.10	7.45	611.00	1.37
	09/27/2004	396	28.20	7.49	526.00	2.94
	12/15/2004	396	25.10	7.50	638.00	1.84
CS-C02-335	03/15/2004	564	18.50	7.34	654.00	6.83
	06/07/2004	570	19.10	7.33	655.00	3.57
	09/27/2004	567	26.80	7.37	577.00	2.54
	12/15/2004	561	23.30	7.51	721.00	0.94
CS-C03-100	03/15/2004	78	22.60	7.26	882.00	5.86
	06/07/2004	78	20.20	7.29	930.00	6.22
	09/28/2004	76	20.00	7.18	965.00	4.86
	12/17/2004	75	21.80	7.06	899.00	NS
CS-C03-325	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/02/2004	513	21.60	7.78	424.00	2.04
CS-C03-465	03/15/2004	789	24.10	7.69	439.00	2.65
	06/07/2004	783	20.30	7.62	458.00	1.92
	09/28/2004	786	19.20	7.62	475.00	1.61
	12/17/2004	783	25.00	7.70	414.00	NS

TABLE 2-2
Final Field Measurements
1st , 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
CS-C03-550	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/02/2004	951	20.20	7.90	829.00	1.68
CS-C04-290	03/18/2004	465	20.50	7.59	585.00	1.83
	06/10/2004	465	19.70	7.63	456.00	1.03
	09/27/2004	462	18.30	7.52	471.00	2.63
	12/16/2004	462	19.00	7.59	532.00	1.35
CS-C04-382	03/18/2004	645	20.70	7.62	647.00	1.74
	06/10/2004	645	20.60	7.55	522.00	3.09
	09/27/2004	642	19.10	7.58	515.00	1.87
	12/16/2004	642	21.30	7.59	571.00	0.66
CS-C04-520	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/02/2004	912	20.00	7.84	792.00	4.23
CS-C05-160	03/18/2004	237	22.50	7.36	849.00	1.38
	06/10/2004	234	21.10	7.37	667.00	0.82
	09/23/2004	234	23.50	7.34	680.00	1.60
	12/17/2004	234	21.30	7.22	675.00	0.90
CS-C05-290	03/18/2004	492	23.60	7.62	750.00	2.03
	06/10/2004	489	21.70	7.60	592.00	1.21
	09/23/2004	489	23.10	7.62	587.00	3.40
	12/17/2004	489	25.10	7.52	553.00	1.00
CS-C06-185	03/17/2004	285	22.60	7.41	639.00	2.59
	06/09/2004	285	24.50	7.31	595.00	1.47
	09/27/2004	285	25.40	7.45	603.00	2.88
	12/17/2004	282	22.20	7.27	684.00	0.90
CS-C06-278	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/06/2004	465	17.90	8.48	1260.00	4.80
CS-VPB-01	NS	NS	NS	NS	NS	NS
	06/02/2004	66	23.10	7.63	994.00	4.65
	09/23/2004	60	17.70	6.77	1220.00	10.00
	12/15/2004	57	16.40	7.10	1410.00	4.38
CS-VPB-02	03/12/2004	54	18.10	6.98	1170.00	4.45
	06/02/2004	48	23.10	7.95	1010.00	1.12
	NS	NS	NS	NS	NS	NS
	12/15/2004	42	16.40	6.87	1570.00	1.84

TABLE 2-2
Final Field Measurements
1st , 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
CS-VPB-03	03/11/2004	60	19.70	7.65	442.00	2.70
	06/03/2004	57	24.00	7.51	412.00	4.23
	09/23/2004	57	18.20	7.53	475.00	5.42
	12/16/2004	54	18.20	7.60	536.00	5.94
CS-VPB-04	03/18/2004	54	20.60	6.93	1560.00	1.97
	06/10/2004	54	20.70	6.89	1120.00	1.81
	09/27/2004	54	18.90	6.87	1260.00	2.38
	12/16/2004	51	22.00	6.90	1370.00	2.87
CS-VPB-05	03/08/2004	42	22.40	7.06	1470.00	3.43
	06/10/2004	42	21.10	7.04	1180.00	3.42
	09/23/2004	42	23.80	6.95	1170.00	2.20
	12/17/2004	39	20.30	6.87	1220.00	2.70
CS-VPB-06	03/17/2004	72	22.80	6.91	1180.00	4.06
	06/09/2004	69	23.00	6.85	1160.00	6.68
	09/27/2004	72	23.10	6.86	1160.00	2.55
	12/17/2004	69	20.00	6.74	1220.00	4.60
CS-VPB-07	03/18/2004	51	21.30	7.25	1450.00	18.00
	06/08/2004	51	21.70	7.26	997.00	17.70
	NS	NS	NS	NS	NS	NS
	12/17/2004	48	20.50	7.11	1160.00	NS
CS-VPB-08	03/18/2004	48	18.30	6.99	1560.00	51.00
	06/10/2004	66	21.40	6.97	1130.00	14.80
	09/28/2004	45	19.20	6.98	1220.00	136.00
	12/16/2004	45	16.00	6.92	1430.00	40.80
CS-VPB-09	03/11/2004	39	20.80	7.22	1900.00	55.80
	06/02/2004	39	24.00	7.29	1800.00	92.20
	09/23/2004	39	19.60	7.05	1970.00	55.10
	12/16/2004	36	18.10	7.12	2220.00	48.70
CS-VPB-10	03/18/2004	69	22.20	6.98	1320.00	1.70
	06/10/2004	66	18.00	6.94	1090.00	2.45
	09/27/2004	69	20.20	6.99	977.00	2.11
	12/17/2004	69	22.00	6.73	1050.00	1.10
NH-C01-325	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	09/22/2004	246	26.00	7.10	550.00	70.10
	12/14/2004	NS	NS	NS	NS	NS
NH-C01-660	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	11/30/2004	680	22.70	7.65	473.00	0.74

TABLE 2-2
Final Field Measurements
1st , 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
NH-C01-780	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	11/30/2004	921	21.40	7.86	465.00	2.30
NH-C02-325	03/16/2004	249	22.90	7.48	582.00	5.91
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/13/2004	246	15.60	7.57	647.00	69.30
NH-C02-520	03/16/2004	633	22.40	7.43	670.00	1.11
	06/10/2004	390	20.80	7.45	653.00	1.94
	09/22/2004	625	28.10	7.17	573.00	1.28
	12/13/2004	627	15.50	7.57	746.00	1.13
NH-C02-681	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/01/2004	860	20.60	7.60	410.00	1.40
NH-C03-380	03/16/2004	261	16.90	7.52	568.00	0.98
	06/08/2004	249	17.10	7.44	584.00	0.57
	09/22/2004	258	24.70	7.22	548.00	1.34
	12/13/2004	174	19.40	7.68	586.00	1.71
NH-C03-580	03/16/2004	654	16.90	7.49	632.00	1.72
	06/08/2004	625	18.60	7.48	620.00	1.84
	09/22/2004	645	25.90	7.27	583.00	2.40
	12/13/2004	654	20.10	7.72	617.00	1.54
NH-C03-680	NS	NS	NS	NS	NS	NS
	06/08/2004	855	18.30	7.65	429.00	5.60
	08/31/2004	825	23.50	7.77	411.00	2.16
	12/13/2004	852	24.00	9.93	402.00	6.99
NH-C03-800	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/03/2004	1092	16.60	7.67	349.00	6.85
NH-C04-240	03/10/2004	267	22.30	7.71	576.00	1.33
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/03/2004	261	15.10	7.77	633.00	1.26
NH-C04-375	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/03/2004	534	15.80	7.87	513.00	1.18

TABLE 2-2
Final Field Measurements
1st , 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
NH-C04-560	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/03/2004	909	17.70	7.99	635.00	1.16
NH-C05-460	NS	NS	NS	NS	NS	NS
	06/04/2004	303	19.50	7.29	495.00	0.59
	09/22/2004	285	18.10	7.07	716.00	1.05
	12/13/2004	297	20.80	7.42	523.00	7.14
NH-C06-160	03/11/2004	63	21.70	7.58	672.00	10.70
	06/03/2004	60	24.20	7.51	642.00	53.50
	08/31/2004	60	24.50	7.60	664.00	30.80
	12/01/2004	93	18.70	7.44	736.00	42.70
NH-C06-285	NS	NS	NS	NS	NS	NS
	06/03/2004	306	23.60	7.47	777.00	37.40
	08/31/2004	300	24.60	7.60	807.00	5.22
	12/14/2004	300	21.30	7.46	1040.00	5.18
NH-C06-425	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/01/2004	573	18.90	7.43	1400.00	2.10
NH-VPB-01	NS	NS	NS	NS	NS	NS
	06/08/2004	63	20.00	7.27	910.00	12.90
	09/23/2004	60	23.80	7.14	909.00	13.00
	12/14/2004	60	22.50	7.30	1190.00	23.70
NH-VPB-05	03/12/2004	18	19.30	7.33	796.00	4.00
	06/04/2004	18	20.10	7.29	768.00	11.30
	08/31/2004	18	24.50	7.42	761.00	9.72
	12/01/2004	15	22.30	7.20	799.00	4.61
NH-VPB-08	03/16/2004	45	20.50	7.03	859.00	55.20
	06/08/2004	51	19.20	6.91	917.00	5.19
	09/22/2004	45	25.20	6.62	867.00	4.08
	12/13/2004	45	18.00	7.15	1060.00	4.52
NH-VPB-10	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/14/2004	153	18.20	8.95	718.00	20.70
PO-C01-195	NS	NS	NS	NS	NS	NS
	06/09/2004	291	22.50	7.15	665.00	1.47
	09/28/2004	294	19.90	7.16	705.00	2.76
	12/20/2004	294	18.40	7.16	733.00	2.00

TABLE 2-2
Final Field Measurements
1st , 2nd, 3rd & 4th Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
PO-C01-354	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/06/2004	618	16.60	8.50	1180.00	7.42
PO-C02-053	03/12/2004	45	19.40	6.80	926.00	2.03
	06/04/2004	42	21.40	6.77	960.00	3.71
	09/01/2004	48	22.80	6.86	877.00	2.55
	12/06/2004	42	17.70	6.88	1060.00	2.76
PO-C02-205	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/06/2004	342	19.20	7.19	695.00	3.73
PO-C03-182	03/17/2004	264	20.80	7.04	805.00	2.05
	06/09/2004	270	20.50	7.00	791.00	1.34
	09/01/2004	270	25.00	7.13	760.00	1.01
	12/08/2004	276	17.20	7.11	842.00	0.92
PO-C03-235	03/17/2004	375	20.40	7.24	908.00	3.66
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/08/2004	381	16.40	7.28	956.00	3.98
PO-VPB-01	03/17/2004	69	21.90	6.90	809.00	13.50
	06/09/2004	75	20.20	6.84	817.00	12.50
	09/01/2004	69	24.20	6.97	766.00	30.40
	12/07/2004	69	16.80	6.81	854.00	56.30
PO-VPB-02	03/17/2004	51	22.40	6.90	850.00	2.03
	06/09/2004	51	20.80	6.84	873.00	29.60
	NS	NS	NS	NS	NS	NS
	12/20/2004	51	17.40	6.87	961.00	3.50
PO-VPB-03	03/17/2004	57	20.80	6.86	918.00	4.43
	06/09/2004	60	21.00	6.81	896.00	11.50
	09/28/2004	111	21.10	6.80	927.00	6.10
	12/20/2004	63	18.10	6.87	1070.00	5.20
PO-VPB-05	03/12/2004	60	19.80	6.82	967.00	3.44
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/07/2004	69	16.90	6.79	932.00	11.00
PO-VPB-06	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/07/2004	57	17.40	6.67	1140.00	0.67

TABLE 2-2

Final Field Measurements

1st , 2nd, 3rd & 4th Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well	Date of Measurement	Volume Purged (gal) [a]	Temp. (C) [b]	pH	Electrical Conductivity (µS/cm) [c]	Turbidity (NTU) [d]
PO-VPB-07	03/17/2004	60	19.90	6.86	1760.00	4.78
	06/09/2004	66	19.90	6.75	176.00	3.21
	09/28/2004	48	NS	NS	NS	NS
	12/20/2004	72	15.10	6.80	2010.00	3.50
PO-VPB-08	03/17/2004	57	18.10	6.87	1140.00	4.09
	06/09/2004	54	19.70	6.77	985.00	0.70
	09/28/2004	54	24.40	6.83	952.00	1.83
	12/20/2004	57	14.20	6.83	1280.00	0.50
PO-VPB-10	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	12/07/2004	18	18.50	7.13	984.00	102.00
VD-VPB-01	NS	NS	NS	NS	NS	NS
	NS	NS	NS	NS	NS	NS
	09/02/2004	NS	NS	NS	NS	NS
	12/08/2004	NS	NS	NS	NS	NS
VD-VPB-02	03/19/2004	57	20.00	6.50	863.00	3.65
	06/02/2004	84	22.50	6.60	844.00	1.72
	09/02/2004	54	24.90	6.64	826.00	4.17
	NS	NS	NS	NS	NS	NS
VD-VPB-03	03/10/2004	42	21.80	6.56	880.00	0.85
	06/02/2004	45	21.70	6.68	845.00	0.58
	09/02/2004	42	21.90	6.55	831.00	2.30
	12/09/2004	42	17.30	6.71	893.00	1.37
VD-VPB-06	03/10/2004	51	21.50	6.42	779.00	2.09
	06/02/2004	12	22.70	6.06	723.00	8.23
	09/01/2004	51	27.60	6.55	705.00	2.50
	12/08/2004	51	19.30	6.42	795.00	1.03
VD-VPB-07	03/10/2004	63	19.90	7.01	686.00	34.60
	06/02/2004	63	19.40	6.68	668.00	29.00
	09/01/2004	54	24.20	7.08	646.00	83.50
	12/08/2004	51	15.20	6.91	1470.00	69.50

NA = measurement not taken

a: gal = gallons

b: C = degrees Centigrade

c: µS/cm = microsiemens per centimeter

d: NTU = Nephelometric Turbidity Units

TABLE 2-3
Standards for Selected Organic Compounds,
Metals, and Inorganic Compounds
San Fernando Valley Groundwater Monitoring Program

Constituent	Federal Primary MCL	California Primary MCL
VOLATILE ORGANICS (ug/L)		
Benzene	5.0	1.0
Carbon tetrachloride	5.0	0.5
Chlorobenzene	100.0	30.0
1,1-Dichloroethane	--	5.0
1,2-Dichloroethane	5.0	0.5
1,1-Dichloroethylene	7.0	6.0
1,1-Dioxane (Detection Limit for purposes of Reporting DLR)	--	3.0
cis-1,2-Dichloroethylene	70.0	6.0
trans-1,2-Dichloroethylene	100.0	10.0
1,2-Dichloropropane	5.0	5.0
cis-1,3-Dichloropropene	--	0.5
trans-1,3-Dichloropropene	--	0.5
Methylene chloride	5.0	--
Methyl-Tertiary-Buytl-Ether	--	13.0
1,1,2,2-Tetrachloroethane	--	1.0
Tetrachloroethylene (PCE)	5.0	5.0
Total THMs	80.0	100.0
Toluene	1000.0	150.0
1,1,1-Trichloroethane	200.0	200.0
1,1,2-Trichloroethane	5.0	5.0
Trichloroethylene (TCE)	5.0	5.0
Vinyl Chloride	2.0	0.5

Table 2-3
Standards for Selected Organic Compounds,
Metals, and Inorganic Compounds
San Fernando Valley Groundwater Monitoring Program

Constituent	Federal Primary MCL	California Primary MCL
METALS (ug/L)		
Aluminum (secondary)	200.0	200.0
Antimony	6.0	6.0
Arsenic (interim)	50.0	50.0
Beryllium	4.0	4.0
Cadmium	5.0	5.0
Chromium (total)	100.0	50.0
Copper (Action Level)	1300.0	1300.0
Lead (Action Level)	15.0	15.0
Mercury	2.0	2.0
Nickel	--	100.0
Selenium	50.0	50.0
Thallium	2.0	2.0
Zinc (secondary)	5000.0	5000.0
INORGANICS (mg/l)		
Chloride (secondary)	250.0	250.0
Sulfate (secondary)	250.0	250.0
Total Dissolved Solids	500.0	500.0
Nitrate (as NO3)	45.0	45.0

California Department of Health Services, Maximum Contaminant Levels and Regulation Dates for Drinking Water Contaminants, USEPA vs. CDHS, September 2003
ug/L = micrograms per liter
mg/L = milligrams per liter

TABLE 2-4
Analytical Methods and Detection Limits
for Groundwater Sample Parameters
San Fernando Valley Groundwater Monitoring Program

Parameter	Method	Target Detection Limit(a)
TCL Volatiles	CLP(a)/SAS(b)	CLP(a)/SAS(b)
TAL Metals	CLP(a)	CLP(b)
Chloride	300.0(c) or 325.3(c)	5 mg/L
Sulfate	300.0(c)	5 mg/L
Bicarbonate	403(d)	2 or 20 mg/L
Carbonate	403(d)	2 or 20 mg/L
Total Alkalinity	403(d)	2 or 20 mg/L
Nitrate/Nitrite	300.0, 353.2, or 353.3(c)	0.1 mg/L as N
Fluoride	4500-F-C(d)	0.1 mg/L
Hardness	130.2(c)	5 mg/L as CaCO3
Hexavalent Chromium	218.6	0.2 ug/L
Total Dissolved Solids	160.1(c)	20 mg/L
Total Organic Carbon	415.1(c)	2 mg/L

TCL = Target Compound List
TAL = Target Analyte List
SAS = Special Analytical Services
(a) CLP procedures and QC control limits are defined in EPA contracts 1FBs WA.85.J664/J680 and WP-85-J838/J839 or in the lates
(b) Lower detection limits than CLP limits to be requested.
(c) EPA, 1979. Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, Revised March 1983.
(d) American Public Health Association. 1989. Standard Methods for the Examination of Water and Wastewater.17th Edition.
ug/L = micrograms per liter
mg/L = milligrams per liter

TABLE 2-5
Summary of TCE, PCE, and Nitrate
First Quarter 2004
San Fernando Valley Groundwater Program

Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L		Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L	
CS-C01-285	03/18/2004	450.00	*	410.00	* E	27.59		NH-C02-325	03/16/2004	29.00	*	2.40		25.81	
CS-C02-062	03/15/2004	58.00	*	42.00	*-1	44.50		NH-C02-520	03/16/2004	73.00	*	2.40		44.50	
CS-C02-180	03/15/2004	11.00	*	1.90	-1	11.57		NH-C03-380	03/16/2004	5.10	*	4.40		12.02	
CS-C02-250	03/15/2004	140.00	*	69.00	* -1	20.47		NH-C03-580	03/16/2004	26.00	*	24.00	*	27.59	
CS-C02-335	03/15/2004	250.00	*	230.00	*	36.49		NH-C04-240	03/10/2004	0.31	J	ND	U	23.59	
CS-C03-100	03/15/2004	1200.00	*	64.00	* -1	48.95	* +1	NH-C06-160	03/11/2004	1.50		0.63		66.75	*
CS-C03-465	03/15/2004	ND	U	ND	U	4.23		NH-VPB-05	03/12/2004	3.40		0.22	J	62.30	*
CS-C04-290	03/18/2004	19.00	*	11.00	*	10.68		NH-VPB-08	03/16/2004	12.00	*	2.50		32.49	
CS-C04-382	03/18/2004	21.00	*	14.00	*	8.46		PO-C02-053	03/12/2004	2.00		1.50		44.50	
CS-C05-160	03/18/2004	110.00	*	3.80	J	20.47		PO-C03-182	03/17/2004	3.30		1.50		30.71	
CS-C05-290	03/18/2004	18.00	*	14.00	*	7.57		PO-C03-235	03/17/2004	3.30		1.40		24.03	
CS-C06-185	03/17/2004	7.90	*	3.00		8.90		PO-VPB-01	03/17/2004	0.97		0.50		38.72	
CS-VPB-01	03/12/2004	110.00	*	160.00	*	40.50		PO-VPB-02	03/17/2004	230.00	*	100.00	*	53.40	*
CS-VPB-02	03/11/2004	14.00	*+1	2.10		43.61		PO-VPB-03	03/17/2004	14.00	*	8.20	*	53.40	*
CS-VPB-03	03/11/2004	11.00	*	ND	U	12.46		PO-VPB-05	03/12/2004	ND	U	ND	U	3.78	
CS-VPB-04	03/18/2004	1400.00	*	300.00	*	44.50		PO-VPB-07	03/17/2004	86.00	* +1	1.40		48.95	* +1
CS-VPB-05	03/18/2004	600.00	* +1	33.00	*	53.40	*	PO-VPB-08	03/17/2004	11.00	*	8.20	*	15.13	
CS-VPB-06	03/17/2004	330.00	*	7.50	*	36.94		VD-VPB-02	03/19/2004	ND	U	3.10		53.40	*
CS-VPB-07	03/18/2004	1300.00	*	40.00	*	32.93		VD-VPB-03	03/10/2004	ND	U	ND	U	16.47	
CS-VPB-08	03/18/2004	120.00	*	84.00	*	40.05		VD-VPB-06	03/10/2004	ND	U	0.42	J	48.95	* +1
CS-VPB-09	03/11/2004	ND	U	5.30	*	53.40	*	VD-VPB-07	03/10/2004	ND	U	ND	U	19.14	
CS-VPB-10	03/18/2004	6.70	*	28.00	*	53.40	*								

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 2-6
Summary of TCE, PCE, and Nitrate
Second Quarter 2004
San Fernando Valley Groundwater Program

Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L		Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L	
CS-C01-285	06/08/2004	240.00	*	170.00	*	26.79		NH-C02-520	06/10/2004	78.00	*	2.10		40.41	
CS-C02-062	06/07/2004	49.00	* -1	35.00	*	45.40	* +1	NH-C03-380	06/08/2004	13.00	*	13.00	* +1	19.07	
CS-C02-180	06/07/2004	23.00	*	10.00	* + 1	13.17		NH-C03-580	06/08/2004	38.00	*	22.00	*	29.96	
CS-C02-250	06/07/2004	150.00	*	81.00	*	22.25		NH-C03-680	06/08/2004	0.87		0.33	J	4.99	
CS-C02-335	06/07/2004	250.00	*	240.00	*	37.23		NH-C05-460	06/04/2004	83.00	*	3.60	-1	17.71	J
CS-C03-100	06/07/2004	1200.00	*	81.00	*	4.54		NH-C06-160	06/03/2004	1.30		0.64		68.10	*
CS-C03-465	06/07/2004	11.00	* +2	2.20		49.94	* +1	NH-C06-285	06/03/2004	46.00	* -1	3.00		37.23	
CS-C04-290	06/10/2004	19.00	*	11.00	*	11.80		NH-VPB-01	06/08/2004	38.00	* -1	23.00	*	54.48	*
CS-C04-382	06/10/2004	27.00	*	20.00	*	9.08		NH-VPB-05	06/04/2004	3.50		0.25	J	59.02	* J
CS-C05-160	06/10/2004	99.00	* -1	3.90	J	22.70		NH-VPB-08	06/08/2004	8.60	*	2.20		28.15	
CS-C05-290	06/10/2004	22.00	*	19.00	*	8.17		PO-C01-195	06/09/2004	8.30	*	0.92		28.60	
CS-C06-185	06/09/2004	7.50	*	2.80		9.99		PO-C02-053	06/04/2004	1.80		1.60		45.40	* J
CS-VPB-01	06/02/2004	120.00	*	180.00	*	40.86		PO-C03-182	06/09/2004	3.50		1.60		32.23	
CS-VPB-02	06/02/2004	13.00	*	1.90		44.49		PO-VPB-01	06/09/2004	1.10		0.55		40.86	
CS-VPB-03	06/03/2004	8.30	*	ND	U	12.71		PO-VPB-02	06/09/2004	200.00	*	96.00	*	54.48	*
CS-VPB-04	06/10/2004	5900.00	* +1	210.00	*	49.94	* +1	PO-VPB-03	06/09/2004	15.00	*	9.00	*	54.48	*
CS-VPB-05	06/10/2004	800.00	*	39.00	*	54.48	*	PO-VPB-07	06/09/2004	52.00	*	1.40		49.94	*
CS-VPB-06	06/09/2004	280.00	*	7.50	*	39.50		PO-VPB-08	06/09/2004	12.00	*	8.70	*	16.80	
CS-VPB-07	06/08/2004	5300.00	* +1	38.00	*	30.87		VD-VPB-02	06/02/2004	ND	U	3.10		54.48	*
CS-VPB-08	06/10/2004	89.00	* -1	62.00	*	39.95		VD-VPB-03	06/02/2004	ND	U	ND	U	16.80	
CS-VPB-09	06/02/2004	ND	U	5.30	*	54.48	*	VD-VPB-06	06/02/2004	ND	U	0.39	J	49.94	*
CS-VPB-10	06/10/2004	10.00	*	28.00	*	54.48	*	VD-VPB-07	06/02/2004	ND	U	ND	U	18.61	
NH-C02-325	06/10/2004	18.00	*	2.60		19.07									

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 2-7

Summary of TCE, PCE, and Nitrate

Third Quarter 2004

San Fernando Valley Groundwater Program

Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L		Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L	
CS-C01-285	09/23/2004	320.00	*	210.00	*	26.70		NH-C03-380	09/22/2004	20.00	*	20.00	*	20.47	
CS-C02-062	09/27/2004	70.00	* +1	51.00	* -1	44.50	-1	NH-C03-580	09/22/2004	36.00	*	33.00	*	26.70	
CS-C02-180	09/27/2004	14.00	*	5.50	*	12.46		NH-C03-680	08/31/2004	0.43	J	0.24	J	4.45	
CS-C02-250	09/27/2004	140.00	*	82.00	*	21.36		NH-C05-460	09/22/2004	58.00	*	12.00	* +1	17.36	
CS-C02-335	09/27/2004	240.00	*	260.00	*	36.49		NH-C06-160	08/31/2004	1.30		0.62		71.20	
CS-C03-100	09/24/2004	1400.00	*	87.00	*	53.40	*+1	NH-C06-285	08/31/2004	75.00	* +1	4.00		38.72	
CS-C03-465	09/28/2004	8.80	*	2.00		4.90	-1	NH-VPB-01	09/23/2004	51.00	* +1	23.00	*	48.95	*
CS-C04-290	09/27/2004	16.00	*	11.00	*	11.13		NH-VPB-05	08/31/2004	3.90		0.26	J	57.85	*
CS-C04-382	09/27/2004	21.00	*	17.00	*	8.90		NH-VPB-08	09/22/2004	4.40	-1	1.70		28.48	
CS-C05-160	09/23/2004	170.00	* +1	7.80	* +1	23.14		PO-C01-195	09/28/2004	5.90	*	0.77		28.04	
CS-C05-290	09/23/2004	15.00	*	13.00	*	7.12		PO-C02-053	09/01/2004	1.60		1.40		44.50	-1
CS-C06-185	09/27/2004	7.20	*	2.70		9.79		PO-C03-182	09/01/2004	3.30		1.50		31.15	
CS-VPB-01	09/23/2004	150.00	*	220.00	*	40.94		PO-VPB-01	09/01/2004	1.10		0.52		38.72	
CS-VPB-03	09/23/2004	17.00	*	0.27	J	13.35		PO-VPB-02	09/28/2004	160.00	*	85.00	*	53.40	*
CS-VPB-04	09/24/2004	7200.00	*	220.00	*	44.50	-1	PO-VPB-03	09/28/2004	11.00	*	6.80	*	53.40	*
CS-VPB-05	09/23/2004	940.00	*	41.00	* J	53.40	*	PO-VPB-08	09/24/2004	18.00	*	11.00	* J	18.25	
CS-VPB-06	09/24/2004	480.00	*	9.00	* J	38.27		VD-VPB-02	09/02/2004	ND	U	3.20	J	53.40	*
CS-VPB-08	09/24/2004	110.00	* +1	78.00	*	41.83		VD-VPB-03	09/02/2004	ND	U	NA	J	14.24	
CS-VPB-09	09/23/2004	0.50	J	5.50	*	53.40	*	VD-VPB-06	09/01/2004	ND	U	0.44		48.95	*
CS-VPB-10	09/27/2004	13.00	*	43.00	*	53.40	*	VD-VPB-07	09/01/2004	ND	U	0.12		21.36	
NH-C01-325	09/22/2004	15.00	*	2.20	-1	18.25	-1								
NH-C02-520	09/22/2004	60.00	*	1.70	J	30.26									

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr

TABLE 2-7

Summary of TCE, PCE, and Nitrate

Third Quarter 2004

San Fernando Valley Groundwater Program

Well Name	Sample Date	TCE Value µg/L	PCE Value µg/L	Nitrate as (NO_3) Value mg/L	Well Name	Sample Date	TCE Value µg/L	PCE Value µg/L	Nitrate as (NO_3) Value mg/L

B = Contamination found in Sample and Blank both.

TABLE 2-8

Summary of TCE, PCE, and Nitrate

Fourth Quarter 2004

San Fernando Valley Groundwater Program

Well Name	Sample Date	TCE Value µg/L		PCE Value µg/L		Nitrate as (NO_3) Value mg/L	
CS-C01-285	12/14/2004	320.00	*	250.00	*	26.70	
CS-C01-558	12/02/2004	ND	U	ND	U	2.67	
CS-C02-062	12/15/2004	62.00	*	43.00	* -1	44.50	
CS-C02-180	12/15/2004	17.00	*	7.40	*	12.02	
CS-C02-250	12/15/2004	170.00	*	88.00	*	20.92	
CS-C02-335	12/15/2004	340.00	*	350.00	*	37.83	
CS-C03-100	12/17/2004	1000.00	* -1	53.00	*	48.95	*
CS-C03-325	12/02/2004	1.40		0.64		9.79	
CS-C03-465	12/17/2004	7.40	*	1.40		4.45	
CS-C03-550	12/02/2004	ND	U	ND	U	1.16	
CS-C04-290	12/16/2004	16.00	*	9.90	*	10.68	
CS-C04-325	12/16/2004	16.00	*	11.00	*	8.90	
CS-C04-382	12/16/2004	24.00	*	19.00	*	8.90	
CS-C04-520	12/02/2004	ND	U	ND	U	1.20	
CS-C05-160	12/17/2004	12.00	* -2	0.57	-1	22.25	
CS-C05-290	12/17/2004	11.00	*	11.00	*	7.57	
CS-C06-185	12/17/2004	3.50	-1	1.50		9.79	
CS-C06-278	12/06/2004	ND	U	ND	U	1.38	
CS-VPB-01	12/15/2004	140.00	*	210.00	*	40.50	
CS-VPB-02	12/15/2004	2.80	-1	1.90		44.06	
CS-VPB-03	12/16/2004	12.00	*	ND	U	13.80	
CS-VPB-04	12/16/2004	4700.00	* -1	120.00	* J	44.50	
CS-VPB-05	12/17/2004	720.00	*	32.00	*	53.40	*
CS-VPB-06	12/17/2004	310.00	*	5.60	* J	36.94	
CS-VPB-07	12/17/2004	4300.00	* -1	ND	U	27.59	
CS-VPB-08	12/16/2004	83.00	* -1	59.00	*	40.05	
CS-VPB-09	12/16/2004	ND	U	3.60	-1	53.40	*
CS-VPB-10	12/17/2004	6.20	*	18.00	*	53.40	*
NH-C01-660	11/30/2004	ND	U	ND	U	8.46	
NH-C01-780	11/30/2004	ND	U	ND	U	7.12	
NH-C02-325	12/13/2004	8.60	*	1.60		17.80	
NH-C02-520	12/13/2004	59.00	*	1.80		38.27	
NH-C02-681	12/01/2004	ND	U	ND	U	1.65	
NH-C03-380	12/13/2004	11.00	*	10.00	*	21.36	
NH-C03-580	12/13/2004	16.00	*	15.00	*	24.92	
NH-C03-680	12/13/2004	0.43	J	ND	U	4.45	
NH-C03-800	12/03/2004	ND	U	ND	U	2.27	
NH-C04-240	12/03/2004	0.26	J	ND	U	24.48	
NH-C04-375	12/03/2004	ND	U	ND	U	13.80	
NH-C04-560	12/03/2004	ND	U	ND	U	ND	U
NH-C05-460	12/13/2004	63.00	*	2.60	-1	16.47	
NH-C06-160	12/01/2004	0.97		0.45	J	66.75	*
NH-C06-285	12/14/2004	54.00	*	2.60		38.72	
NH-C06-425	12/01/2004	ND	U	ND	U	12.46	
NH-VPB-01	12/14/2004	24.00	* -1	16.00	*	48.95	*
NH-VPB-05	12/01/2004	4.10		0.27	J	57.85	*
NH-VPB-08	12/13/2004	4.70		1.10		27.59	
NH-VPB-10	12/14/2004	ND	U	ND	U	0.76	
PO-C01-195	12/20/2004	11.00	*	1.20		26.70	
PO-C01-354	12/06/2004	ND	U	ND	U	ND	U
PO-C02-053	12/06/2004	1.20		1.20		44.50	
PO-C02-205	12/06/2004	0.23	J	ND	U	22.70	
PO-C03-182	12/08/2004	2.20		1.00		30.71	
PO-C03-235	12/08/2004	1.90		0.84		24.03	
PO-VPB-01	12/07/2004	0.96		0.43	J	39.16	
PO-VPB-02	12/20/2004	210.00	*	110.00	* -1	53.40	*
PO-VPB-03	12/20/2004	11.00	*	7.60	*	48.95	*
PO-VPB-05	12/07/2004	0.27	J	0.38	J	24.03	
PO-VPB-06	12/07/2004	0.21	J	0.35	J	8.46	
PO-VPB-07	12/20/2004	ND	U	ND	U	42.72	-1
PO-VPB-08	12/20/2004	13.00	*	9.60	*	14.69	
VD-VPB-03	12/09/2004	ND	U	ND	U	12.91	
VD-VPB-06	12/08/2004	ND	U	0.24	J	48.95	*
VD-VPB-07	12/08/2004	ND	U	ND	U	23.59	

* = Greater than MCL

NA = Not Analyzd

ND = Not Detected

U = Not Detected

J = Approximate Concentration

L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr

-1 = Value moved 1 conc. zone down from prev. qtr

B = Contamination found in Sample and Blank both.

TABLE 2-9
General Water Chemistry
Fourth Quarter 2004 Sampling Event
San Fernando Valley Groundwater Monitoring Program

Well ID	Date of Measurement	Chloride (mg/L)	Sulfate (mg/L)	Hardness (mg/L)	Alkalinity, Total (mg/L)	TDS (mg/L)	TOC (mg/L)	Nitrate (as NO_3) (mg/L)
CS-C01-285	12/14/2004	22.00	55.00	270.00	230.00	390.00	4.50	26.70
CS-C01-558	12/02/2004	25.00	79.00	200.00	160.00	350.00	3.40	2.67
CS-C02-062	12/15/2004	100.00	170.00	520.00	300.00	780.00	6.40	44.50
CS-C02-180	12/15/2004	46.00	280.00	410.00	210.00	730.00	3.60	12.02
CS-C02-250	12/15/2004	23.00	82.00	270.00	210.00	410.00	3.10	20.92
CS-C02-335	12/15/2004	32.00	78.00	300.00	220.00	440.00	4.30	37.83
CS-C03-100	12/17/2004	66.00	92.00	420.00	280.00	600.00	5.20	48.95
CS-C03-325	12/02/2004	16.00	42.00	160.00	170.00	300.00	3.80	9.79
CS-C03-465	12/17/2004	13.00	53.00	200.00	180.00	300.00	3.50	4.45
CS-C03-550	12/02/2004	120.00	100.00	190.00	150.00	520.00	6.20	1.16
CS-C04-290	12/16/2004	16.00	44.00	190.00	180.00	300.00	2.80	10.68
CS-C04-325	12/16/2004	17.00	65.00	220.00	180.00	340.00	9.80	8.90
CS-C04-382	12/16/2004	17.00	65.00	220.00	190.00	330.00	3.90	8.90
CS-C04-520	12/02/2004	96.00	120.00	200.00	150.00	520.00	3.40	1.20
CS-C05-160	12/17/2004	38.00	94.00	280.00	220.00	460.00	3.90	22.25
CS-C05-290	12/17/2004	35.00	90.00	230.00	180.00	400.00	3.80	7.57
CS-C06-185	12/17/2004	48.00	90.00	220.00	170.00	410.00	3.40	9.79
CS-C06-278	12/06/2004	160.00	110.00	38.00	210.00	690.00	5.20	1.38
CS-VPB-01	12/15/2004	80.00	180.00	520.00	270.00	730.00	3.70	40.50
CS-VPB-02	12/15/2004	100.00	200.00	540.00	270.00	800.00	6.30	44.06
CS-VPB-03	12/16/2004	18.00	38.00	180.00	180.00	290.00	2.90	13.80
CS-VPB-04	12/16/2004	85.00	160.00	540.00	320.00	790.00	6.90	44.50
CS-VPB-05	12/17/2004	76.00	140.00	520.00	340.00	740.00	9.20	53.40
CS-VPB-06	12/17/2004	94.00	160.00	500.00	300.00	760.00	9.60	36.94
CS-VPB-07	12/17/2004	81.00	150.00	520.00	300.00	720.00	7.60	27.59
CS-VPB-08	12/16/2004	80.00	170.00	490.00	280.00	730.00	6.10	40.05
CS-VPB-09	12/16/2004	200.00	170.00	890.00	510.00	1200.00	11.00	53.40
CS-VPB-10	12/17/2004	87.00	160.00	470.00	230.00	690.00	6.00	53.40
NH-C01-660	11/30/2004	12.00	70.00	230.00	190.00	340.00	4.60	8.46
NH-C01-780	11/30/2004	11.00	63.00	220.00	190.00	330.00	3.50	7.12
NH-C02-325	12/13/2004	21.00	61.00	290.00	240.00	400.00	5.00	17.80
NH-C02-520	12/13/2004	29.00	84.00	320.00	230.00	460.00	4.20	38.27
NH-C02-681	12/01/2004	8.80	40.00	150.00	160.00	250.00	2.90	1.65
NH-C03-380	12/13/2004	21.00	58.00	280.00	240.00	400.00	3.50	21.36
NH-C03-580	12/13/2004	23.00	61.00	300.00	250.00	420.00	3.70	24.92
NH-C03-680	12/13/2004	10.00	47.00	180.00	170.00	280.00	2.90	4.45
NH-C03-800	12/03/2004	6.80	41.00	160.00	160.00	260.00	3.60	2.27
NH-C04-240	12/03/2004	38.00	69.00	230.00	180.00	390.00	4.60	24.48
NH-C04-375	12/03/2004	25.00	52.00	180.00	160.00	310.00	3.30	13.80
NH-C04-560	12/03/2004	96.00	53.00	120.00	120.00	370.00	2.20	ND
NH-C05-460	12/13/2004	24.00	60.00	240.00	190.00	360.00	4.90	16.47
NH-C06-160	12/01/2004	35.00	70.00	300.00	200.00	440.00	4.60	66.75
NH-C06-285	12/14/2004	33.00	170.00	330.00	200.00	570.00	3.40	38.72
NH-C06-425	12/01/2004	45.00	400.00	470.00	180.00	890.00	4.40	12.46
NH-VPB-01	12/14/2004	69.00	150.00	470.00	260.00	650.00	4.80	48.95

TABLE 2-9
General Water Chemistry
Fourth Quarter 2004 Sampling Event
San Fernando Valley Groundwater Monitoring Program

Well ID	Date of Measurement	Chloride (mg/L)	Sulfate (mg/L)	Hardness (mg/L)	Alkalinity, Total (mg/L)	TDS (mg/L)	TOC (mg/L)	Nitrate (as NO_3) (mg/L)
NH-VPB-05	12/01/2004	42.00	90.00	390.00	270.00	530.00	5.70	57.85
NH-VPB-08	12/13/2004	29.00	60.00	480.00	450.00	620.00	6.00	27.59
NH-VPB-10	12/14/2004	24.00	36.00	58.00	250.00	360.00	6.30	0.76
PO-C01-195	12/20/2004	52.00	80.00	280.00	210.00	NR	1.70	26.70
PO-C01-354	12/06/2004	150.00	53.00	28.00	250.00	630.00	6.20	ND
PO-C02-053	12/06/2004	90.00	140.00	370.00	180.00	590.00	3.60	44.50
PO-C02-205	12/06/2004	57.00	85.00	280.00	190.00	450.00	4.10	22.70
PO-C03-182	12/08/2004	63.00	110.00	290.00	200.00	530.00	6.60	30.71
PO-C03-235	12/08/2004	68.00	140.00	320.00	220.00	590.00	4.70	24.03
PO-VPB-01	12/07/2004	73.00	120.00	340.00	180.00	520.00	3.60	39.16
PO-VPB-02	12/20/2004	79.00	140.00	410.00	190.00	580.00	2.00	53.40
PO-VPB-03	12/20/2004	79.00	140.00	400.00	200.00	610.00	2.00	48.95
PO-VPB-05	12/07/2004	77.00	140.00	280.00	200.00	580.00	6.20	24.03
PO-VPB-06	12/07/2004	100.00	170.00	330.00	220.00	660.00	5.40	8.46
PO-VPB-07	12/20/2004	160.00	240.00	730.00	430.00	1100.00	5.90	42.72
PO-VPB-08	12/20/2004	88.00	160.00	360.00	240.00	670.00	3.90	14.69
VD-VPB-03	12/09/2004	96.00	150.00	330.00	160.00	560.00	4.40	12.91
VD-VPB-06	12/08/2004	79.00	140.00	310.00	120.00	540.00	3.00	48.95
VD-VPB-07	12/08/2004	230.00	130.00	570.00	190.00	810.00	3.50	23.59

ND = Not Detected
N/R = Not Reported

TABLE 2-10

Summary of Metals Exceeding MCLs

Fourth Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Chromium 100 (µg/L) *		**Hexavalent Chromium 100 (µg/L) ***		**Manganese 50 (µg/L)***		**Nickel 100 (µg/L) ***	
Well ID	**Value**	**Well ID**	**Value**	**Well ID**	**Value**	**Well ID**	**Value**
CS-C03-100	138.00	CS-C03-100	120.00	NH-C06-425	54.40		
CS-VPB-04	247.00	CS-VPB-04	240.00	PO-C02-205	128.00		
CS-VPB-05	373.00	CS-VPB-05	360.00	PO-VPB-08	1300.00		
PO-VPB-02	258.00	PO-VPB-02	270.00				

µg/L = micrograms per liter

* = primary MCL

TABLE 2-11
Summary of Hexavalent Chromium
First, Second, Third, and Fourth Quarters 2004
San Fernando Groundwater Monitoring Program

Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)	Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)
CS-C01-285	03/18/2004	4.30	NH-C03-380	03/16/2004	1.30
	06/08/2004	4.60		06/08/2004	1.90
	09/23/2004	5.30		09/22/2004	2.50
	12/14/2004	5.10		NS	NS
CS-C01-558	NS	NS	NH-C03-580	03/16/2004	2.00
	NS	NS		06/08/2004	2.50
	NS	NS		09/22/2004	2.50
	12/02/2004	1.40		12/13/2004	2.60
CS-C02-062	03/15/2004	3.00	NH-C03-680	NS	NS
	06/07/2004	3.10		06/08/2004	2.10
	09/27/2004	3.00		08/31/2004	2.30
	12/15/2004	2.90		12/13/2004	2.30
CS-C02-180	03/15/2004	1.00	NH-C03-800	NS	NS
	06/07/2004	0.45		NS	NS
	09/27/2004	1.20		NS	NS
	12/15/2004	1.00		12/03/2004	0.40
CS-C02-250	03/15/2004	7.50	NH-C04-240	03/10/2004	5.90
	06/07/2004	7.70		NS	NS
	09/27/2004	6.10		NS	NS
	12/15/2004	5.60		12/03/2004	0.50
CS-C02-335	03/15/2004	4.30	NH-C04-375	NS	NS
	06/07/2004	5.20		NS	NS
	09/27/2004	5.30		NS	NS
	12/15/2004	4.80		12/03/2004	5.20
CS-C03-100	03/15/2004	180.00	NH-C04-560	NS	NS
	06/07/2004	1.90		NS	NS
	09/28/2004	120.00		NS	NS
	12/17/2004	120.00		12/03/2004	ND
CS-C03-325	NS	NS	NH-C05-460	NS	NS
	NS	NS		06/04/2004	ND
	NS	NS		09/22/2004	0.22
	12/02/2004	4.00		12/13/2004	0.24
CS-C03-465	03/15/2004	1.80	NH-C06-160	03/11/2004	7.10
	06/07/2004	120.00		06/03/2004	6.30
	09/28/2004	2.10		08/31/2004	6.80
	12/17/2004	1.70		12/01/2004	7.40

TABLE 2-11
Summary of Hexavalent Chromium
First, Second, Third, and Fourth Quarters 2004
San Fernando Groundwater Monitoring Program

Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)	Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)
CS-C03-550	NS	NS	NH-C06-285	NS	NS
	NS	NS		06/03/2004	ND
	NS	NS		08/31/2004	0.75
	12/02/2004	ND		12/14/2004	ND
CS-C04-290	03/18/2004	3.50	NH-C06-425	NS	NS
	06/10/2004	3.80		NS	NS
	09/27/2004	4.10		NS	NS
	12/16/2004	3.20		12/01/2004	ND
CS-C04-325	NS	NS	NH-VPB-01	NS	NS
	NS	NS		06/08/2004	4.40
	NS	NS		09/23/2004	4.40
	12/16/2004	2.30		12/14/2004	4.10
CS-C04-382	03/18/2004	2.40	NH-VPB-05	03/12/2004	2.50
	06/10/2004	2.30		06/04/2004	2.10
	09/27/2004	2.50		08/31/2004	2.50
	12/16/2004	2.30		12/01/2004	2.40
CS-C04-520	NS	NS	NH-VPB-08	03/16/2004	2.10
	NS	NS		06/08/2004	2.00
	NS	NS		09/22/2004	1.90
	12/02/2004	ND		12/13/2004	2.20
CS-C05-160	03/18/2004	6.60	NH-VPB-10	NS	NS
	06/10/2004	7.30		NS	NS
	09/23/2004	8.10		NS	NS
	12/17/2004	7.20		12/14/2004	ND
CS-C05-290	03/18/2004	1.20	PO-C01-195	NS	NS
	06/10/2004	0.89		06/09/2004	ND
	09/23/2004	ND		09/28/2004	0.23
	12/17/2004	1.20		12/20/2004	ND
CS-C06-185	03/17/2004	0.36	PO-C01-354	NS	NS
	06/09/2004	ND		NS	NS
	09/27/2004	0.99		NS	NS
	12/17/2004	0.85		12/06/2004	ND
CS-C06-278	NS	NS	PO-C02-053	03/12/2004	2.10
	NS	NS		06/04/2004	1.70
	NS	NS		09/01/2004	2.10
	12/06/2004	ND		12/06/2004	2.00

TABLE 2-11
Summary of Hexavalent Chromium
First, Second, Third, and Fourth Quarters 2004
San Fernando Groundwater Monitoring Program

Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)	Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)
CS-VPB-01	03/12/2004	2.30	PO-C02-205	NS	NS
	06/02/2004	2.00		NS	NS
	09/23/2004	2.60		NS	NS
	12/15/2004	2.90		12/06/2004	ND
CS-VPB-02	03/11/2004	2.20	PO-C03-102	NS	NS
	06/02/2004	2.00		NS	NS
	NS	NS		09/01/2004	ND
	12/15/2004	1.70		NS	NS
CS-VPB-03	03/11/2004	27.00	PO-C03-182	03/17/2004	ND
	06/03/2004	26.00		06/09/2004	ND
	09/23/2004	28.00		12/08/2004	ND
	12/16/2004	29.00		12/08/2004	ND
CS-VPB-04	03/18/2004	290.00	PO-C03-235	03/17/2004	ND
	06/10/2004	340.00		NS	NS
	09/27/2004	310.00		NS	NS
	12/16/2004	240.00		12/08/2004	ND
CS-VPB-05	03/18/2004	340.00	PO-VPB-01	03/17/2004	4.30
	06/10/2004	310.00		06/09/2004	3.70
	09/23/2004	320.00		09/01/2004	4.00
	12/17/2004	360.00		12/07/2004	3.90
CS-VPB-06	03/17/2004	8.70	PO-VPB-02	03/17/2004	400.00
	06/09/2004	ND		06/09/2004	290.00
	09/27/2004	11.00		09/28/2004	340.00
	12/17/2004	8.50		12/20/2004	270.00
CS-VPB-07	03/18/2004	45.00	PO-VPB-03	03/17/2004	4.10
	06/08/2004	42.00		06/09/2004	3.40
	NS	NS		09/28/2004	3.50
	12/17/2004	51.00		12/20/2004	3.50
CS-VPB-08	03/18/2004	5.10	PO-VPB-05	03/12/2004	ND
	06/10/2004	4.20		NS	NS
	09/28/2004	4.70		NS	NS
	12/16/2004	5.10		12/07/2004	ND
CS-VPB-09	03/11/2004	3.80	PO-VPB-06	NS	NS
	06/02/2004	3.80		NS	NS
	09/23/2004	4.30		NS	NS
	12/16/2004	4.60		12/07/2004	ND

TABLE 2-11
Summary of Hexavalent Chromium
First, Second, Third, and Fourth Quarters 2004
San Fernando Groundwater Monitoring Program

Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)	Well Name	Sampling Date	Hexavalent Chromium Concentration (ug/L)
CS-VPB-10	03/18/2004	1.90	PO-VPB-07	03/17/2004	1.10
	06/10/2004	1.90		06/09/2004	ND
	09/27/2004	1.80		NS	NS
	12/17/2004	1.80		12/20/2004	0.24
NH-C01-660	NS	NS	PO-VPB-08	03/17/2004	ND
	NS	NS		06/09/2004	ND
	NS	NS		09/28/2004	ND
	11/30/2004	0.42		12/20/2004	ND
NH-C01-780	NS	NS	VD-VPB-02	03/19/2004	ND
	NS	NS		06/02/2004	0.22
	NS	NS		09/02/2004	0.25
	11/30/2004	ND		NS	NS
NH-C02-325	03/16/2004	0.99	VD-VPB-03	03/10/2004	ND
	06/10/2004	0.60		06/02/2004	ND
	09/22/2004	1.00		09/02/2004	ND
	12/13/2004	1.20		12/09/2004	ND
NH-C02-520	03/16/2004	1.90	VD-VPB-06	03/10/2004	0.36
	06/10/2004	0.64		06/02/2004	0.40
	09/22/2004	2.10		09/01/2004	0.52
	12/13/2004	1.60		12/08/2004	0.52
NH-C02-681	NS	NS	VD-VPB-07	03/10/2004	ND
	NS	NS		06/02/2004	ND
	NS	NS		09/01/2004	ND
	12/01/2004	ND		12/08/2004	ND

Notes:
dry = water level below pump intake at time of sampling
inop = pump inoperable
NS = Not Sampled
ND = Not Detected

SECTION 3.0

Comparison of Results from 2004 Sampling Events

3.1 Comparison of Water Levels

Water levels were measured at each remedial investigation monitoring well sampled during each quarterly sampling event. A comparison of depth to water below ground surface and groundwater elevations at the time of the first, second, third, and fourth quarter sampling is provided in Table 2-1. Additionally, these measurements are incorporated into the GIS database, converted to elevations above mean sea level, and presented as hydrographs (Figure 3-1). During all four quarters during 2004, 17 remedial investigation monitoring wells (CS-C01-105, CS-VPB-11, NH-C01-325, NH-C05-320, NH-VPB-02, NH-VPB-03, NH-VPB-04, NH-VPB-06, NH-VPB-07, NH-VPB-09, NH-VPB-11, NH-VPB-12, NH-VPB-13, NH-VPB-14, VD-VPB-01, VD-VPB-04, and VD-VPB-05) were not sampled due to inadequate water levels (Section 2.1.3).

Comparison of water levels between the first quarter 2004 and the fourth quarter of 2003 showed water levels in Areas 1 (North Hollywood) fluctuated, from slight decreases of approximately 1 foot in the western part of the area to slight increases of approximately 1 foot in the eastern portion of the Area. Water levels in Area 2 (Crystal Springs) showed decreases of generally 1 foot, and water levels in Areas 3 (Verdugo) and 4 (Pollock) were generally the same.

During the second quarter 2004, water levels in the Basin also were generally stable. In Crystal Springs (Area 2), Pollock (Area 4), and Verdugo (Area 3) water levels were comparable to those observed during the first quarter, with slight decreases between 0.5 to 1 foot. In North Hollywood (Area 1), water level increased on the order of 1 to 2 feet.

During the third quarter of 2004, water levels in North Hollywood (Area 1) and Crystal Springs (Area 2) showed general decreases when compared to the previous quarter. The Verdugo Basin (Area 3) remained constant and in the Pollock (Area 4) water levels increased on the order of 1 to 2 feet. In North Hollywood (Area 1), drops in water levels on the order of 1 to 2 feet were observed in most wells; however, in the vicinity of the North Hollywood Extraction wells and in the area adjacent of the Rinaldi-Toluca Wellfield drops in water levels as great as 7 to 8 feet were locally observed.

Comparison of water levels between the third quarter and the fourth quarter of 2004 showed water levels across Area 2 showing the effects of below-average precipitation with continued decreases observed. An exception to this observed trend is seen in North Hollywood (Area 1) in the vicinity of LADWP's wellfields, where increases of the water level comparable to the previous quarter's decrease were observed. The water levels in the Verdugo Basin (Area 3) and in Pollock (Area 4) remained consistent with the levels observed during the previous quarter.

When compared annually (fourth quarter 2003 to fourth quarter 2004), the observed water levels across the Basin showed four generalized areas. In the northern portion of North Hollywood (Area 1), water levels in the vicinity of NH cluster wells NH-C01, -C03, and -C05 showed increases of between 3 to 6 feet. However, this observed increase was not sufficient to overcome the decreases observed during previous years, and the shallow water table NH-VPBs remained "dry" when accessed during the third quarter event. In the southern portion of Area 1 and generally across all of Area 2, fourth quarter water levels were below the previous year by approximately 3 feet. Water levels in the northern Pollock (Area 4) were mostly consistent or flat compared to the previous year. In the southern portion of Area 4, in the vicinity of the Glendale Freeway and Taylor Yard, the water levels were observed to have an increase of approximately 2 to 3 feet compared to the fourth quarter of 2003.

3.2 Comparison of Quarterly Analytical Results

Concentration data from the first quarter 2004 sampling event was compared to the previous annual event (fourth quarter 2003). Subsequently, the concentration data from the second third and fourth quarter sampling event were then compared to the data from the previous quarter. Current concentration data and maximum/minimum data from the first, second, third, and fourth quarter sampling events of 2004 are provided for TCE in Tables 3-1 through 3-5; and for PCE in Tables 3-6 through 3-10. Flags used in the "Current Value" columns indicate: (1) samples that contain reported TCE or PCE concentrations greater than the MCL of 5 μg/L and/or (2) samples that exhibit a marked change in concentration during the current sampling event compared to the previous sampling event. A "marked change" in concentration is considered a change in concentration between the following categories:

- 0 to 5 μg/L
- >5 to 50 μg/L
- >50 to 100 μg/L
- >100 to 500 μg/L
- >500 to 1,000 μg/L
- >1,000 to 5,000 μg/L
- >5,000 μg/L

For example, if a sample had a reported concentration of 550 μg/L TCE for the current quarter, but a reported concentration of 60 μg/L during the previous quarter, a flag of +2 would be present in the "Current Value" column of Tables 3-1 through 3-10. If the reported sample concentration had decreased to the next lower category, the flag would read -1. These concentration categories are the same as those used during preparation of basinwide TCE and PCE contaminant concentration maps.

VOC data for remedial investigation monitoring wells sampled during the first, second, third, and fourth quarters of 2004 are presented in Tables 3-11 through 3-14.

Nitrate data for remedial investigation monitoring wells sampled during the first, second, third, and fourth quarters of 2004 are provided in Tables 3-15, 3-16, 3-17 and 3-18, respectively. Flags within the "Current Value" column of Tables 3-15 through 3-18 indicate:

(1) samples that contain reported concentrations of nitrate greater than the MCL of 45 mg/L (as NO_3) and (2) samples that exhibit a marked change in reported nitrate concentration from the current quarter to the previous quarter. A marked change in nitrate concentration (as NO_3) is herein defined as a change in concentration between the following categories:

- 0 to 20 mg/L
- >20 to 45 mg/L
- >45 to 65 mg/L
- >65 mg/L

Numerical flags in the "Current Value" column of Tables 3-15 through 3-18 follow the same logic as described above: a reported nitrate concentration increase of one category relative to the previous quarter's sample will read +1; a decrease of two categories will read -2.

3.2.1 TCE Concentrations

TCE concentrations for each quarterly event of 2004, along with historic maximum and minimum concentrations, are presented in Tables 3-1, 3-2, 3-3, and 3-4. A comparative summary of the quarterly TCE concentrations is shown in Table 3-5.

Reported TCE concentrations at 40 of the 43 remedial investigation monitoring wells sampled during the first quarter of 2004 are not markedly changed relative to the previous values for these wells (Table 3-1). The number of remedial investigation monitoring wells exhibiting concentrations of TCE greater than the MCL of 5 µg/L decreased from 35 wells during the previous fourth quarter 2003 annual event to 29 wells during this quarter. Data from the first quarter show that three wells (CS-VPB-02, CS-VPB-05, and PO-VPB-07) exhibited increases of one category (2.2 to 14 µg/L, 430 to 600 µg/L, and 39 to 86 µg/L, respectively).

Comparison of the TCE data for the second quarter with data from the first quarter shows 38 of the 45 remedial investigation monitoring wells sampled are not markedly changed relative to the values for these wells from the first quarter (Table 3-2). The number of remedial investigation monitoring wells exhibiting concentrations of TCE greater than the MCL of 5 µg/L increased from 29 to 32 wells. Two monitoring wells during the second quarter (CS-VPB-04 and CS-VPB-07) did exhibit an increase of TCE concentration of one category (1,400 to 5,900 µg/L and 1,300 to 5,300 µg/L, respectively). These wells consistently have higher concentrations and the observed fluctuations may be to differences in laboratory dilutions. Five monitoring wells (CS-C02-062, CS-C05-160, CS-VPB-08, NH-C06-285, and NH-VPB-01) exhibited a decrease of one category (58 to 49 µg/L, 110 to 99 µg/L, 120 to 89 µg/L, 62 to 46 µg/L, and 55 to 38 µg/L, respectively).

Comparison of the TCE data for the third quarter 2004 with data from the second quarter shows a slight variation in observed concentrations. The number of remedial investigation monitoring wells exhibiting concentrations of TCE greater than the MCL of 5 µg/L decreased to 30 of the 42 wells sampled (Table 3-3). Five monitoring wells (CS-C02-062, CS-C05-160, CS-VPB-08, NH-C06-285, and NH-VPB-01) showed an increase of one category; however, each of these monitoring wells had exhibited increases of one category the previous quarter.

The number of remedial investigation monitoring wells exhibiting concentrations of TCE greater than the MCL of 5 μg/L during the 2004 annual event increased to 31 from 30 the previous quarter (Table 3-4). Eight of the monitoring wells exhibited decreases in concentrations between categories. Three of these monitoring wells (CS-C05-165, CS-VPB-08, and NH-VPB-01) were among the group that exhibited increases during the third quarter sampling event. Of the remaining five monitoring wells with relative changes in concentrations, three historically high concentration wells (CS-C03-100, CS-VPB-04, and CS-VPB-07) remained above 1,000 μg/L, and two wells (CS-C06-185 and CS-VPB-02) decreased to below the MCL.

Reported TCE concentrations at remedial investigation monitoring wells sampled during 2004 exhibited some fluctuation; however, overall the concentrations remained generally consistent (Table 3-5). The number of remedial investigation monitoring wells exhibiting concentrations of TCE greater than the MCL of 5 μg/L ranged from 29 monitoring wells in the first quarter, 32 wells in the second quarter, 30 wells in the third quarter, and 31 wells in the fourth quarter.

Historic concentration data acquired to date for TCE samples obtained for the remedial investigation wells are presented in Figure 3-2. The historic concentration data include the TCE data reported below laboratory detection limits. Concentrations that are reported below laboratory detection limits are plotted and indicated as non-detected concentrations in Figure 3-2.

3.2.2 PCE Concentrations

PCE concentrations for each quarterly event of 2004, along with historic maximum and minimum concentrations, are presented in Tables 3-6, 3-7, 3-8, and 3-9. A comparative summary of the quarterly PCE concentrations is shown in Table 3-10.

PCE data at 39 of the 43 remedial investigation monitoring wells sampled during the first quarter 2004 exhibited little change compared to the fourth quarter of 2003. The number of wells with PCE concentrations greater than the MCL of 5 μg/L decreased to 20 from 25 during the previous annual event (Table 3-6). At four wells, a decrease of one category (52 to 42 μg/L at CS-C02-062, 10 to 1.9 μg/L at CS-C02-180, 150 to 69 μg/L at CS-C02-250, and 110 to 64 μg/L at CS-C03-100) was observed.

The number of remedial investigation monitoring wells exceeding the MCL for PCE during the second quarter of 2004 increased to 23 wells from 20 the previous quarter (Table 3-7). In comparison to the previous quarter, two wells (CS-C02-180 and NH-C03-380) exhibited an increase of one category (1.9 to 10 μg/L and 4.9 to 13 μg/L, respectively).

During the third quarter of 2004, the number of sampled remedial investigation monitoring wells exceeding the MCL for PCE increased to 24 wells (Table 3-8). Comparison of PCE concentrations for the third and second quarter 2004 sampling events show a decrease in one monitoring well, NH-C02-325 (6 to 2.2 μg/L) and an increase at three wells, CS-C02-062 (35 to 51 μg/L), CS-C05-160 (3.9 to 7.8 μg/L), and NH-C05-320 (3.6 to 12 μg/L).

The number of sampled remedial investigation monitoring wells exceeding the MCL for PCE during the fourth quarter of 2004 decreased to 22 wells (Table 3-9). Comparison of PCE concentrations for the fourth quarter 2004 event to the third quarter sampling event show an

increase of one category for one well (CS-C02-062 at 85 to 110 μg/L), and decreases of one category at four wells (CS-VPB-02 at 51 to 43 μg/L, CS-C05-160 at 7.8 to 0.6 μg/L, CS-VPB-09 at 5.5 to 3.6 μg/L and NH-C05-460 at 12 to 2.6 μg/L). Two of these wells (CS-C02-062 and CS-C05-160) were observed with relative increases during the previous quarter and are indicative of the fluctuation of concentrations between quarterly events.

PCE concentrations at remedial investigation monitoring wells sampled during 2004 exhibited little change throughout the year (Table 3-10). The number of remedial investigation monitoring wells exhibiting concentrations of PCE greater than the MCL of 5 μg/L ranged from 20 wells in the first quarter, 23 wells in the second quarter, 24 wells in the third quarter, and 22 wells in the fourth quarter. Of the 10 wells with variations of PCE concentrations during 2003, none of the variations appeared significant.

Historic data obtained by CH2M HILL to date for PCE concentrations in the remedial investigation wells are presented in Figure 3-3. Concentrations of PCE that are reported below laboratory detection limits are plotted and indicated as non-detected concentrations in Figure 3-3.

3.2.3 Other VOCs

Observations of VOCs other than TCE and PCE during the quarterly sampling events were similar to those observed previously. During each quarterly event, several non-chlorinated and chlorinated VOCs detected (including acetone, 2-butanone, chloroform and methylene chloride) were reported at concentrations below the CRQL (J-qualified). Acetone and 2-butonone are recognized as common laboratory contaminants and were eliminated as constituents of potential concern. Methylene chloride is a common field blank and laboratory contaminant, and chloroform was also B-qualified; therefore, these were eliminated as constituents of potential concern.

The remedial investigation monitoring wells with the other observed VOCs exceeding MCLs during the first and second quarter 2004 quarterly sampling events were comparable to the wells observed with elevated concentrations of other VOCs previously. However, CS-C03-100, which previously had been observed with elevated concentrations of 1,1-dichloroethene, 1,1-dichloroethane, and carbon tetrachloride was an exception, as the concentrations of these VOCs were not reported as exceeding the MCL during either of these quarterly events. The possibility of an error in reporting due to dilutions or data transposition is apparently the cause for these results, as is evidenced by these VOCs being observed in CS-C03-100 during the subsequent third and fourth quarter sampling events.

During the first quarter 2004 sampling event, seven wells (CS-VPB-04, CS-VPB-05, CS-VPB-06, CS-VPB-07, CS-C02-250, NH-C02-520, and PO-VPB-02) exceeded the MCL for VOCs other than TCE and PCE (Table 3-11). Compounds detected in these wells include: 1,1-dichloroethene, 1,1-dichloroethane, and carbon tetrachloride at CS-VPB-04, CS-VPB-07, and CS-C02-250; 1,1-dichloroethene and 1,1-dichloroethane at CS-VPB-05; carbon tetrachloride and 1,1-dichloroethene at CS-VPB-06; carbon tetrachloride at NH-C02-520, and 1,1-dichloroethene at PO-VPB-02.

During this sampling event, MTBE concentrations between 0.2 and 13 μg/L were detected at 6 monitoring wells: CS-C01-105 at 10 μg/L, VD-VPB-03 at 0.2 μg/L, VD-VPB-04 at 0.1 μg/L, PO-C03-182 at 0.5 μg/L, PO-C03-235 at 3 μg/L, and PO-VPB-02 at 0.2 μg/L.

During the second quarter 2004 sampling event, seven wells (CS-VPB-04, CS-VPB-05, CS-VPB-06, CS-VPB-07, CS-C03-465, NH-C02-520, and PO-VPB-02) exceeded the MCL for VOCs other than TCE and PCE (Table 3-12). The monitoring wells are comparable to the wells observed during the first quarter of this year. Compounds detected in these wells include: 1,1-dichloroethene, 1,1-dichloroethane, and carbon tetrachloride at CS-VPB-04, CS-VPB-07, and CS-C03-465; 1,1-dichloroethene and 1,1-dichloroethane at CS-VPB-05; 1,1-dichloroethene and carbon tetrachloride at CS-VPB-06; 1,1-dichloroethene at PO-VPB-02, and carbon tetrachloride at NH-C02-520

During this sampling event, MTBE concentrations between 0.2 and 3.2 μg/L were detected at 6 monitoring wells: CS-VPB-01 at 0.3 μg/L, CS-VPB-02 at 0.2 μg/L, PO-VPB-05 at 0.2 μg/L, PO-VPB-08 at 0.8 μg/L, PO-C03-182 at 3.2 μg/L, and PO-C03-235 at 0.4 μg/L.

As stated above, CS-C03-100 was observed with concentrations of VOCs other than TCE and PCE during the third quarter 2004 sampling event. During this sampling event, seven wells (CS-VPB-04, CS-VPB-05, CS-VPB-06, CS-C02-325, CS-C03-100, PO-VPB-02, and PO-VPB-08) exceeded the MCL for VOCs other than TCE and PCE (Table 3-13). Compounds detected in these wells include: 1,1-dichloroethene, 1,1-dichloroethane, and carbon tetrachloride at CS-VPB-04, CS-VPB-05, and CS-C03-100; 1,1-dichloroethane and carbon tetrachloride at CS-VPB-06, and 1,1-dichloroethene at CS-C02-325, PO-VPB-02, and PO-VPB-08.

MTBE concentrations between 0.3 and 2 μg/L were detected at 12 monitoring wells during the third quarter of 2004: CS-C02-062 with 2 μg/L, CS-VPB-01 with 1.2 μg/L, CS-VPB-04 with 0.2 μg/L, CS-VPB-05 with 1.1 μg/L, CS-VPB-08 with 1.6 μg/L, CS-VPB-10 with 1 μg/L, NH-VPB-01 with 0.2 μg/L, PO-C03-102 with 0.3 μg/L, PO-VPB-02 with 0.4 μg/L, PO-VPB-03 with 0.2 μg/L, PO-VPB-08 with 0.8 μg/L, and VD-VPB-06 with 0.3 μg/L.

The fourth quarter 2004 sampling event had six wells (CS-VPB-04, CS-VPB-05, CS-VPB-06, CS-VPB-07, CS-C01-285 and CS-C03-100) that exceeded the MCL for VOCs other than TCE and PCE (Table 3-14). Compounds detected in these wells include: 1,1-dichloroethene, 1,1-dichloroethane, and carbon tetrachloride at CS-C03-100, CS-VPB-04, and CS-VPB-07; 1,1-dichloroethene and 1,1-dichloroethane at CS-VPB-05; 1,1-dichloroethene at CS-VPB-06; and 1,1-dichloroethane at CS-C01-285.

MTBE concentrations between 0.2 and 1.6 μg/L were detected at 7 monitoring wells during the fourth quarter of 2004: CS-VPB-01 with 1.3 μg/L, CS-VPB-05 with 1.2 μg/L, CS-VPB-06 with 0.2 μg/L, CS-VPB-08 with 0.7 μg/L, PO-C03-235 with 0.9 μg/L, PO-VPB-02 with 1.6 μg/L and PO-VPB-08 with 0.4 μg/L.

3.2.4 SVOCs and 1,4-dioxane

During the 2004 annual sampling event,4 no SVOCs were reported. Previously, only isolated detections at low concentration of phthalates have been observed and have been dismissed, as these are common laboratory contaminants.

Samples were collected for 1,4-dioxane analysis during the 2004 annual sampling event. Following a review of the data from the most recent sampling event where 1,4-dioxane was included (the 2002 annual event) 48 of the 64 remedial investigation monitoring wells were selected for including the parameter for analysis. Samples for 1,4-dioxane were collected along with the other analytes and submitted to USEPA's Region 9 laboratory for analysis. 1,4-dioxane concentrations above the MDL were observed in 14 of the 48 remedial investigation monitoring wells. Five of these wells exceeded the California detection limit for purposes of reporting: CS-C03-100 with 13 μg/L, CS-VPB-04 with 63 μg/L, CS-VPB-05 with 16 μg/L, CS-VPB-07 with 43, and PO-VPB-02 with 5.4 μg/L.

3.2.5 Nitrate

Nitrate (as NO_3) concentrations for each quarterly event of 2004, along with historic maximum and minimum concentrations, are presented in Tables 3-15, 3-16, 3-17, and 3-18. A comparative summary of the quarterly nitrate concentrations is shown in Table 3-19.

Of the 43 remedial investigation monitoring wells sampled during the first quarter of 2004, 11 exhibited concentrations exceeding the nitrate MCL of 45 mg/L (as NO_3) comparable to the fourth quarter 2003 annual sampling event (Table 3-15). Three wells (CS-C03-100, PO-VPB-07, and VD-VPB-06) exhibited a category increase in reported nitrate concentration placing them above the MCL.

During the second quarter of 2004, nitrate concentrations exceeding the MCL were observed at 15 monitoring wells, increasing from 11 monitoring wells the previous quarter (Table 3-16). Three wells (CS-C02-062, CS-C03-465, and CS-VPB-04) exhibited a category increase of one category to above the MCL.

During the third quarter, nitrate concentrations greater than the MCL were observed at 10 of the 42 monitoring wells sampled (Table 3-17). Five remedial investigation wells showed a comparative change in values for nitrate between the second quarter and the third quarter. Four of these wells (CS-C02-62, CS-C03-465, CS-VPB-04, and NH-C01-325) decreased one category, resulting in concentrations below the MCL; while the other well (CS-C03-100) increased one category, resulting in a concentration above the MCL.

During the fourth quarter, nitrate concentrations greater than the MCL were observed at 10 of the 64 monitoring wells in the 2004 annual sampling event (Table 3-18). One remedial investigation well, PO-VPB-07, showed a comparative change in values for nitrate between the third quarter and the fourth quarter, decreasing to below the MCL

Nitrate concentrations at remedial investigation monitoring wells sampled during 2003 remained consistent throughout the year (Table 3-19). The number of remedial investigation monitoring wells exhibiting concentrations of nitrate greater than the MCL appears to be declining; however, this number may be misleading due to the number of wells reported as dry due throughout the year in the North Hollywood area.

Figure 3-4 presents the historic data obtained for nitrate concentrations for the remedial investigation wells. Concentrations of nitrate that are reported below laboratory detection limits are plotted and indicated as non-detected concentrations in Figure 3-4.

3.2.6 Metals

Analysis of dissolved metals was conducted during the fourth quarter 2004 sampling event. Metals that were reported above primary and secondary MCLs included dissolved manganese and dissolved chromium (Table 2-10). Chromium was observed in four monitoring wells (CS-C03-100, CS-VPB-04, CS-VPB-05, and PO-VPB-02) and manganese was observed in three monitoring wells (NH-C06-425, PO-C02-205, and PO-VPB-08). The concentrations of dissolved chromium in monitoring well CS-C03-100 and PO-VPB-02 remained comparable to observed historic concentrations; however, the concentration of chromium at CS-VPB-04 decreased from 340 μg/L to 247 μg/L, and slightly downgradient to this remedial investigation well, the dissolved chromium concentration at CS-VPB-05 increased from 240 μg/L to 373 μg/L.

3.2.7 Hexavalent Chromium

Concentrations of hexavalent chromium exceeding the MDL were observed in 38 of the 43 monitoring wells sampled during the first quarter sampling event and 35 of the 45 monitoring wells sampled during the second quarter sampling event (Table 2-11). The observed concentrations from the two quarterly sampling events of 2004 at each monitoring well are similar, with no extreme fluctuations. Additionally, remedial investigation monitoring wells with previously-observed hexavalent chromium concentrations above 5 μg/L are comparable to the monitoring wells from the first and second quarter 2004 sampling events that exceeded the 5 μg/L observed hexavalent chromium concentration.

Concentrations of hexavalent chromium exceeding the MDL of 0.2 μg/L were observed in 40 monitoring wells during the first quarter sampling event (12 exceeding 5 μg/L). During the second quarter, the MDL was exceeded in 38 monitoring wells (14 exceeding 5 μg/L). In the third quarter sampling event, there were 42 wells over the MDL and 18 exceeding 5 μg/L. During the fourth quarter, 48 of the 64 wells sampled had detectable concentrations of hexavalent chromium, with 10 exceeding 5 μg/L (Table 2-11).

Beginning in 2000, USEPA has included hexavalent chromium as a part of the analytical suite for all sampling events (quarterly and annual). Between 2000 and 2003, the hexavalent chromium concentrations in most of the monitoring wells have remained generally consistent, with fluctuations of 1 or 2 μg/L observed. However, 11 of the 81 wells in the monitoring program merit further discussion. Five of the monitoring wells in the North Hollywood Area have not been sampled due to the wells being dry (Section 2.1). Five of the remaining wells (CS-C03-100, CS-VPB-03, CS-VPB-05, CS-VPB-07, and PO-VPB-02) have exhibited increases in concentrations since 2000 (30 to 180 μg/L, 12 to 30 μg/L, 12 to 340 μg/L, 24 to 60 to 45 μg/L, and 260 to 400 μg/L, respectively). The final well, CS-VPB-04, has exhibited a decrease from 1,000 μg/L to 240 μg/L between 2000 and 2003.

3.2.8 Other Analytical Parameters

During the fourth quarter sampling event, groundwater was analyzed for general water chemistry parameters including chloride, sulfate, total alkalinity, hardness, TDS, and TOC (Table 2-9). TDS values ranged from 240 (NH-C02-681) to 1,200 mg/L (CS-VPB-09). The secondary MCL (500 mg/L) for TDS was exceeded in 36 of the 64 remedial investigation monitoring wells during the fourth quarter (Table 2-9). Total alkalinity ranged from

120 mg/L (VD-VPB-06 and NH-C04-560) to a high of 560 mg/L (CS-VPB-09). All remedial investigation monitoring wells were below the secondary MCL for sulfate (250 mg/L), with the exception of CS-C02-180, NH-C06-425, and PO-VPB-07, which had concentrations of 270 mg/L, 400 mg/L, and 280 mg/L, respectively.

3.2.9 Facility Well Sampling

Analysis of metals data in USEPA's GIS database revealed that there were no recent chromium data in the vicinity of several facilities included in RWQCB heavy metals investigation activities. Based on the lack of recent metals data and the proximity of recognized potentially-contaminated areas to these facilities, the need for additional data was apparent. Groundwater sampling of selected facility monitoring wells were included during the fourth quarter 2004 sampling event.

Prior to mobilization for the fourth quarter sample event, coordination for access to each facility and arrangements for sites requiring splits and/or oversight personnel were completed. Samples from the targeted facility monitoring wells were collected following completion of the regularly scheduled remedial investigation monitoring well sampling, between December 27, 2004 and January 28, 2005. The extended period of heavy rainfall throughout the Southern California area resulted in several delays of the sampling schedule.

Samples were collected from all but one of the targeted facility wells and submitted for the complete analytical suite as outlined in revised project SAP and QAPP (E2 Consulting Engineers 1999a-b) and Addendum No. 2 to the QAPP (E2 Consulting Engineers 1999c) and Addendum No. 3 to the SAP (E2 Consulting Engineers 1999d). Samples from the facility monitoring wells were also collected for analysis of the emerging constituent of concern, 1,4-dioxane.

Sample collection activities at one of the selected facilities, the All Metals facility, were affected by the decline of the regional water table. The water level in the monitoring well outside this facility was not sufficient for the use of a pump as described in the SAP; however, a small volume of groundwater was collected using a bailer. A split sample was provided to the facility representative, and the remaining portion was submitted for dissolved metals analysis, although there was a possibility of the sample not being considered representative.

During the fourth quarter 2004 sampling event, 16 groundwater samples were collected from 11 monitoring wells located at facilities included in the RWQCB investigations, as well as at an area located upgradient from areas of historically-observed concentrations of chromium (Table 3-20). VOC concentrations exceeding the MCL, as well as concentration of dissolved chromium and hexavalent chromium, were observed at 10 of the 11 facility monitoring wells. At the remaining monitoring well, AMP-W1, the dissolved metals results were determined to be non-representative, and no VOC samples were collected.

Four monitoring wells at the Grayson Power Plant (GPP-MW3, GPP-MW8, GPP-MW9, and GPP-MW10) were included to assist in determination of the upgradient extent of chromium contamination observed at facilities in the vicinity. One monitoring well at the power plant had an observable concentration of dissolved chromium exceeding the MCL (GPP-MW10 at 69 µg/L). However, the data observed at the remaining Grayson Power Plant monitoring wells appear to indicate that this area is separated from the elevated chromium

concentrations seen at facilities further south. TCE and PCE concentrations were observed exceeding the MCL at each of the four Grayson Power Plant monitoring wells, with the exception of GPP-MW8 with a PCE concentration of 2.6 µg/L.

Six monitoring wells (DRC-MW1, DRC-MW2, DRC-MW3, DRC-MW4, DRC-MW5, and BBL-MW2) in the vicinity of the former Drilube and Brock Bus Lines facilities were included to obtain current metals data to support the RWQCB chromium investigations. Five of the six wells had dissolved chromium concentrations exceeding the MCL, with a maximum concentration of 2,340 µg/L observed at DRC-MW1. Concentrations of hexavalent chromium were similar to the dissolved concentrations at each of the monitoring wells, and the ratios of dissolved chromium to hexavalent chromium were consistent with the ratios observed elsewhere in the SFV. TCE and PCE concentrations exceeded the MCL at all six of the monitoring wells sampled at the former Drilube and Brock Bus Lines facilities (Table 3-20).

3.3 Concentration Contour Maps

TCE and PCE are common and widespread constituents in the SFV Basin and may at least roughly reflect the distribution of other constituents. To evaluate the lateral and vertical distribution of TCE, PCE, and nitrate in the SFV, depth-specific concentration contour maps were created using current data from CH2M HILL's GIS database (Figure 3-5). This database includes water quality and water level data for the remedial investigation wells, as well as data from local facilities in the SFV, transmitted by the California RWQCB and LASC. Data from local groundwater purveyors (LADWP, the Cities of Glendale and Burbank, and Crescenta Valley County Water District) were also incorporated into the GIS database.

3.3.1 Interval Selection

The depth intervals for the 2004 concentration contour maps are based on: (1) water level data from remedial investigation monitoring wells, facility wells, and production wells; (2) screened intervals in monitoring wells, facility wells, and production wells; and (3) concentration values for TCE, PCE, and nitrate from the most recent sampling event. The concentration of TCE, PCE, and nitrate is typically greater in wells with screens at or near the water table, with groundwater contamination apparently decreasing with depth. Based on these data, two sets of depth-specific concentration contour maps were developed based upon wells that are screened: (1) within 50 feet of the water table and (2) more than 50 feet below the water table.

Data from production wells, facility wells, and landfill monitoring wells are categorized in the same manner as the remedial investigation monitoring wells. Production wells with the top of their screened interval within 50 feet of the water table are in the upper interval, and wells with the top of their screen greater than 50 feet below the water table are in the lower zone. Production well data are posted on the concentration contour maps; however, the concentration of the constituent within the well is considered only as an indicator on the upper zone maps because the constituents may be diluted with production of water from deeper, cleaner intervals.

3.3.2 Estimated Aerial Extent

The depth-specific concentration contour maps combine available water quality data with professional judgment to present a simplified, "smoothed" depiction of TCE, PCE, and nitrate constituents in the eastern SFV Basin (Figures 3-6 through 3-11). The figures were prepared by hand contouring the relative concentration contours onto GIS-generated maps depicting available TCE, PCE, and nitrate values.

For USEPA remedial investigation monitoring wells, facility wells, and production wells incorporated in the SFV GIS, the areas of contamination are based on the available representative data. This rationale incorporates all recent available data while also retaining "older" data. Based on this rationale, "older" data (data older than 5 years) is retained at its latest-known value until a more recent replacement value is obtained. These older data points are presented on the concentration contour maps with a different well symbol. Approximately 356 of the 771 monitoring and production wells used in preparation of the concentration contour maps for 2004 were considered "older" data points (i.e., pre-2000). The primary areas where the majority of the data points were revised are in the northern and central portions of the North Hollywood OU, east and south of the Burbank Airport in the Burbank OU, and in the central and southern portions of the Glendale OU. Although the current concentration contour maps differ from previous maps, due to the lack of current data, areas outside the colored zones may also be contaminated.

The figures do not show the maximum constituent concentrations known to have occurred at the wells. Using the most recent value, not the maximum or average value, does not significantly affect the interpretations shown in the concentration contour maps. This method, however, could potentially affect the locations of contours in areas where constituent concentrations are near one of the dividing levels between concentrations.

Because the data incorporated into the GIS are obtained from various sources with varying schedules of sampling, the figures are not a "snapshot in time" but, rather, a representation of the most recently-available contamination data observed at each location over several months.

The estimated direction and magnitude of groundwater flow are used to assist in estimating the shape and size of the downgradient extent of individual zones of contamination. These parameters are also used for approximating the lateral boundaries, although these boundaries are more readily determined from reported concentration values. The groundwater flow directions are fairly well understood, but the downgradient margins of contamination are not as well understood.

TCE and PCE constituent data from production wells in the LADWP North Hollywood Wellfield and recently installed LADWP and facility monitoring wells in the NHOU vicinity were reviewed to estimate the western extent of the "area of detectable concentration."

3.3.3 Upper Interval

Concentration contours throughout the shallow interval are based on available TCE, PCE, and nitrate data (Figures 3-6 through 3-8). Based on current available data, an estimate of the concentration contour enclosing an area above the laboratory detection limit of 0.5 µg/L for TCE and PCE is drawn. This contour generally conforms to the shape of the 5 µg/L

concentration contour line. Areas within the 5 µg/L concentration contour for both TCE and PCE are similar to the aerial coverages observed in previous concentration contour maps. For both TCE and PCE, this area observed exceeding the MCLs encompasses the southern half of Area 1 (North Hollywood and Burbank OUs), the central and western portions of Area 2 (Glendale North and South OUs, and the central portion of Area 4 (Pollock).

As seen with previous TCE and PCE concentration contour maps, within the 5 µg/L contour are areas of greater concentrations. In the upper interval, the areas of greater concentrations are observed in:

- Area 1 (North Hollywood and Burbank OUs) contains three distinct areas where concentrations of TCE exceed the 50 µg/L concentration contour, similar in presentation to observations of the previous years. The first of these areas extends from east of the Burbank Airport in a southeasterly direction and is approximately 2 miles long by approximately 1 mile wide (at its widest point). In the vicinity of the Burbank OU extraction wells and north of the extraction wells, the area within the concentrations contours greater than 500 µg/L compared to maps from 2003 has some reduction of total area. However, recent data at 3850N indicates the presence of a small area of TCE exceeding 1,000 µg/L near BOU V06.

  A second area of TCE concentrations observed greater than 100 µg/L, directly west of the Burbank Airport, is presented unchanged from the previous map from 2003. The third area of TCE concentrations greater than 100 µg/L within Area 1, in the vicinity of the NH Treatment Plant, also appears similar to observations from 2003. Data from additional facility monitoring wells installed during 2004 were consistent with previous data in this area.

  PCE concentrations in Area 1 exceeding the 500 µg/L contour are observed in the vicinity of BOU V06, as described above for TCE, as well as an area directly east of the Burbank Airport similar to observations from 2003. Each of these areas are approximately ¾ mile long and ½ mile wide. The only observable difference of the areas exceeding 500 µg/L, when compared to the previous year, appears to be an apparent shift slightly to the west.

  In the vicinity of the NH Treatment Plant, although the area where PCE concentrations are observed to exceed the MCL is similar to those from 2003, the total area with concentrations greater than 50 µg/L is smaller. With the recent data from recently installed facility monitoring wells a refined delineation of the areas of higher concentration was possible.

- Area 2 (Glendale North and South OUs) contains several areas where concentrations of TCE exceed the 100µg/L concentration contour, similar in orientation to the previous years observations. The largest of these areas, in the northwestern part of Area 2 (Glendale North OU), continues the southeasterly extension from Area 1 of the zone of highest observed TCE concentrations. This main area of higher TCE concentration extends for approximately 3 miles to the vicinity of the Glendale Treatment Plant, immediately south of the Glendale North extraction wells. An additional area of TCE concentrations exceeding 100µg/L extends from the vicinity of the Glendale North extraction wells north-westerly along the I-5 corridor for approximately 2 miles. These two elongated areas of higher concentrations merge together in the LA River Narrows area

An area exceeding the 50 μg/L contour is observed in the southwestern portion of Area 2 (Glendale South OU). Recent facility monitoring well sampling indicates that this area is apparently separate from the large extended area described above, and is somewhat isolated in the vicinity of several former facilities north of the Glendale South extraction wells. Recent facility monitoring well data provided refinement to the potentially contaminated area and this total area appears to be slightly smaller when compared to 2003.

PCE concentrations in Area 2 exceeding the 100 μg/L contour are comparable with the areas observed to have higher TCE concentrations described above. Most of these areas of higher PCE concentration are also consistent with the areas of elevated PCE concentration observed in 2003. In the area immediately northwest of the Glendale North extraction wells was, the data obtained form the additional facility monitoring wells included during the 2004 sample event provided refinement of the potentially contaminated area. The recent PCE data appears to indicate two separate areas exceeding 100 μg/L merging in the area of the Glendale North extraction wells.

An additional area of PCE concentrations exceeding 100 μg/L is observed in the southwestern portion of Area 2 (Glendale South OU), consistent with the area of TCE contamination described above. Again, the recent facility monitoring well data provided refinement to the potentially contaminated areas and the zones of higher concentration appears to be slightly smaller when compared to 2003

- In Area 4 (Pollock area), TCE concentrations exceeding the MCLs are observed in three apparently separate areas: One area directly east of LADWP's Pollock Treatment Plant; a smaller isolated area slightly north of the Pollock Treatment Plant; and, a third area located in the Taylor Yard south of the Pollock Wellfield. The areas in the vicinity of LADWP's Pollock Treatment Plant are similar to those observed during 2003. TCE concentrations in the area located in the former Taylor Yard are also similar to those seen in previous years.

  Recent PCE concentration data in the Taylor Yard area indicates that the total area of potential contamination is similar to that observed in recent years; however, where historic concentrations as high as 540 μg/L once were observed, the maximum observed concentration is now 280 μg/L.

- Area 3 (Verdugo Area) was removed from the NPL during 2004. However, water quality data is still collected from the RI monitoring wells and input into the EPA's GIS database along with data received from the CVCWD. Recent data indicate that concentrations of TCE and PCE were well below the MCLs, with only small isolated observations of PCE above the detection limits.

Additional details of the shallow interval TCE and PCE concentration contour maps are located in Appendices G and H, respectively. These appendices present each concentration contour map with well locations, shown with a grid network imposed over the area within the 0.5 μg/L contour line. Each grid square is presented as a separate plate showing greater detail than the larger TCE and PCE concentration contour maps.

The nitrate concentration contour map of the upper interval shows nitrate exceeding the MCL of 45 mg/L based on available nitrate data (as NO_3). Somewhat similar to previous maps, there are several isolated, elongated areas, which cover a substantial portion of the North Hollywood OU and extend southeastward through the Burbank OU and the Glendale OU to the vicinity of the Pollock Wellfield. A separate, elongated area of nitrate contamination in excess of the MCL covers a large portion of the Verdugo Area extending southward.

3.3.4 Lower Interval

As discussed above, the concentrations of TCE and PCE appear to decrease with depth (Figures 3-9 and 3-10). However, data for TCE and PCE from the lower interval are more limited. The area in the lower interval exceeding the 5 µg/L concentration contour for both TCE and PCE is similar to previous observations and generally underlies the area of contamination in the upper interval; however, it is less widespread than the contaminated area observed in the upper interval. In the lower interval the areas of greater concentrations are observed in:

- Area 1 (North Hollywood and Burbank OUs) contains two prominent areas where concentrations of TCE exceed the 5 µg/L concentration contour, similar in presentation to observations of the previous years. The first of these areas underlies the upper interval contamination observed to the southeast of the Burbank Airport. Although the general orientation has a comparable southeasterly orientation, the area in excess of 50 µg/L appears to be trending southeasterly from the vicinity of the of the Burbank OU's extraction wells.

  Isolated areas of deeper interval TCE concentrations in excess of the 5 µg/L contour appear immediately south and west of the Burbank Airport, similar to observation in 2003. Also west of the Burbank Airport, in vicinity of LADWP's Tuunga, Rinaldi-Toluca and North Hollywood wellfields, there are small areas that appear to exceed the MCL for TCE. Accurate data are sparse in this portion of Area 1 as a result of declining water levels in the region which has resulted in many of the monitoring wells becoming inoperable.

  PCE concentrations in Area 1 exceeding the 5 µg/L contour are similar in total area when compared to the area observed in 2003. However, recent 2004 data indicates that the localized areas, in the vicinity of the Burbank OU extraction wells, previously exceeding 500 µg/L appear significantly smaller. The areas of deeper PCE contamination in the southern portion of Area 1 and the northern portion of Area 2 appear to be generally consistent with deeper interval observations seen in 2003.

- Area 2 (Glendale North and South OUs) contains several smaller, isolated areas where concentrations of TCE exceed the 5 µg/L concentration contour similar to what has been observed in the previous years. In the southern portion of Area 2 (Glendale South OU), isolated areas of deeper interval contamination conform generally to the upper interval contamination and are also similar in orientation and magnitude observed in 2003.

  PCE concentrations in Area 2 exceeding the 5 µg/L contour are consistent with the areas for TCE described above. Apparent differences of these areas when compared to the previous years observations are minor. PCE concentrations in the smaller areas in the

southern portion of Area 2 are also similar in size and concentrations to that observed during 2003, isolated area in the vicinity of the Glendale South extraction wells exceeding the MCL.

- In Area 4 (Pollock Area), deeper interval concentrations of TCE and PCE in excess of the MCL are observed in a single, isolated area in the vicinity of the Pollock Treatment Plant, north of the Taylor Yard. This area conforms to the area observed in the upper interval area described above and is similar to observations from previous years.

Nitrate contamination in the lower interval is less extensive than observed in the upper interval (Figure 3-11). Several small, isolated areas exceeding the MCL are located in the North Hollywood OU.

TABLE 3-1

Maximum and Minimum Detected TCE Values

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	56.00	06/06/02	400.00	10/26/94	110.00	12/12/03	NS		
CS-C01-285	43	26.00	11/19/92	450.00	03/18/04	350.00	12/12/03	450.00	*	03/18/04
CS-C01-558	8	ND	10/04/90	0.50	12/14/95	0.08	01/07/03	NS		
CS-C02-062	36	35.00	07/29/96	200.0	11/08/93	73.00	12/08/03	58.00	*	03/15/04
CS-C02-180	44	0.00	03/27/91	280.0	11/08/93	26.00	12/08/03	11.00	*	03/15/04
CS-C02-250	44	100.00	03/13/00	320.0	11/08/93	240.00	12/08/03	140.00	*	03/15/04
CS-C02-335	45	0.00	05/22/90	360.00	09/16/02	320.00	12/08/03	250.00	*	03/15/04
CS-C03-100	44	10.00	03/11/02	5400.00	05/09/95	1200.00	12/08/03	1200.00	*	03/15/04
CS-C03-325	16	ND	05/07/90	4.30	05/18/90	1.70	12/08/03	NS		
CS-C03-465	39	ND	05/07/92	11.00	03/25/03	11.00	12/08/03	ND	U	03/15/04
CS-C03-550	11	ND	05/17/90	ND	01/12/00	0.10	12/17/01	NS		
CS-C04-290	44	0.00	05/24/90	50.00	03/26/91	20.00	12/10/03	19.00	*	03/18/04
CS-C04-382	43	0.00	03/26/91	32.00	11/1093	24.00	12/10/03	21.00	*	03/18/04
CS-C04-520	11	ND	05/25/90	ND	01/13/00	ND	12/10/03	NS		
CS-C05-160	43	0.00	03/28/91	160.00	03/07/02	130.00	12/10/03	110.00	*	03/18/04
CS-C05-290	43	4.00	09/19/03	66.00	11/10/93	19.00	12/10/03	18.00	*	03/18/04
CS-C06-185	36	3.70	05/17/90	130.00	09/12/97	8.10	12/15/03	7.90	*	03/17/04
CS-C06-278	10	ND	05/14/90	10.00	12/12/00	10.00	12/12/00	NS		
CS-VPB-01	26	0.00	09/28/90	220.00	06/05/03	160.00	12/17/03	110.00	*	03/12/04
CS-VPB-02	42	ND	12/19/95	110.00	02/11/93	2.20	12/05/03	14.00	* +1	03/11/04
CS-VPB-03	26	0.00	01/25/91	11.00	03/11/04	12.00	12/04/03	11.00	*	03/11/04
CS-VPB-04	38	180.00	06/15/98	5800.00	08/05/92	4800.00	12/10/03	1400.00	*	03/18/04
CS-VPB-05	44	0.00	09/12/89	1600.00	03/07/02	430.00	12/10/03	600.00	* +1	03/18/04
CS-VPB-06	44	0.00	05/15/90	400.00	03/26/03	370.00	12/15/03	330.00	*	03/17/04
CS-VPB-07	43	0.00	02/06/91	12000.00	11/10/93	4700.00	12/16/03	1300.00	*	03/18/04
CS-VPB-08	33	8.00	09/28/90	180.00	02/12/93	120.00	12/15/03	120.00	*	03/18/04
CS-VPB-09	21	ND	09/28/90	9.00	03/08/02	ND	12/04/03	ND	U	03/11/04
CS-VPB-10	42	ND	09/15/89	8.00	03/28/03	8.20	12/15/03	6.70	*	03/18/04
CS-VPB-11	36	ND	08/06/92	7.90	09/15/89	0.90	1/6/2003	NS		
NH-C01-325	39	ND	01/29/92	13.00	03/06/02	9.90	09/19/03	NS		
NH-C01-450	13	ND	04/30/92	1.00	10/19/94	1.00	12/10/01	NS		
NH-C01-660	11	ND	08/17/90	ND	06/09/98	ND	12/02/03	NS		
NH-C01-780	11	ND	08/16/90	ND	06/09/98	ND	12/02/03	NS		
NH-C02-220	29	0.00	03/07/91	11.00	06/07/00	25.00	06/13/01	NS		
NH-C02-325	37	0.00	07/20/90	36.00	11/15/93	27.00	12/09/03	29.00	*	03/16/04
NH-C02-520	37	ND	08/14/90	220.00	05/16/94	82.00	12/09/03	73.00	*	03/16/04
NH-C02-681	10	ND	08/14/90	ND	06/09/98	ND	12/09/03	NS		
NH-C03-380	37	ND	05/24/90	21.00	05/01/92	11.00	12/09/03	5.10	*	03/16/04
NH-C03-580	44	ND	05/23/90	49.00	10/06/98	36.00	12/09/03	26.00	*	03/16/04
NH-C03-680	11	ND	05/23/90	ND	06/08/98	5.90	12/03/03	NS		
NH-C03-800	12	ND	05/23/90	2.00	01/11/00	0.91	12/03/03	NS		
NH-C04-240	43	ND	07/18/90	9.00	11/09/93	0.28	12/03/03	0.31	J	03/10/04
NH-C04-375	11	ND	07/17/90	ND	06/10/98	ND	12/03/03	NS		
NH-C04-560	11	ND	07/17/90	ND	06/10/98	ND	12/03/03	NS		
NH-C05-320	6	ND	02/08/91	1.00	06/22/98	ND	12/04/00	NS		
NH-C05-460	9	ND	04/29/92	100.00	12/02/03	100.00	12/02/03	NS		
NH-C06-160	41	1.50	03/11/04	240.00	01/25/95	1.70	12/05/03	1.50		03/11/04
NH-C06-285	9	ND	01/24/91	62.00	12/05/03	62.00	12/05/03	NS		
NH-C06-425	9	ND	05/02/95	ND	01/24/91	4.00	12/12/02	NS		
NH-VPB-01	40	ND	11/20/92	510.00	11/09/93	55.00	12/12/03	NS		
NH-VPB-02	17	ND	09/07/90	3.00	10/19/94	2.60	09/19/03	NS		

TABLE 3-1

Maximum and Minimum Detected TCE Values

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-VPB-03	9	ND	07/25/89	0.00	09/05/90	ND	09/19/03	NS		
NH-VPB-04	8	ND	09/18/90	0.00	08/01/89	ND	12/13/01	NS		
NH-VPB-05	41	0.80	09/10/02	58.00	05/13/94	2.90	12/05/03	3.40		03/12/04
NH-VPB-06	18	ND	01/29/92	66.00	12/18/96	66.00	12/18/96	NS		
NH-VPB-07	28	ND	02/10/93	34.00	11/11/92	8.50	12/12/97	NS		
NH-VPB-08	44	ND	11/16/92	19.00	03/10/00	9.50	12/10/03	12.00	*	03/16/04
NH-VPB-09	33	ND	07/20/89	7.50	12/12/03	7.50	12/12/03	NS		
NH-VPB-10	9	ND	07/19/89	1.00	10/31/94	0.90	06/22/98	NS		
NH-VPB-11	8	ND	09/05/89	1.00	10/19/94	ND	06/22/98	NS		
NH-VPB-12	13	ND	07/18/89	1.00	10/20/94	ND	12/13/01	NS		
NH-VPB-13	8	ND	09/06/90	3.00	11/11/92	0.30	06/23/98	NS		
NH-VPB-14	27	ND	09/17/97	1400.00	08/18/93	100.00	12/02/99	NS		
PO-C01-195	16	ND	08/29/89	4.20	03/12/91	7.00	01/07/03	NS		
PO-C01-354	10	ND	08/27/90	ND	06/17/98	0.06	01/07/03	NS		
PO-C02-053	38	ND	05/19/94	33.00	11/19/93	2.00	12/17/03	2.00		03/12/04
PO-C02-205	14	ND	02/02/92	32.00	04/01/91	0.26	12/17/03	NS		
PO-C03-182	42	2.50	09/19/03	40.00	10/28/94	3.50	12/16/03	3.30		03/17/04
PO-C03-235	36	ND	08/28/90	6.00	03/09/00	3.30	12/16/03	3.30		03/17/04
PO-VPB-01	41	0.91	12/16/03	27.00	11/09/89	0.91	12/16/03	0.97		03/17/04
PO-VPB-02	41	0.00	11/08/89	900.00	11/11/93	310.00	12/12/03	230.00	*	03/17/04
PO-VPB-03	42	9.30	09/19/03	77.00	11/14/89	14.00	12/16/03	14.00	*	03/17/04
PO-VPB-05	38	ND	11/09/89	10.00	11/11/93	ND	12/16/03	ND	U	03/12/04
PO-VPB-06	15	ND	11/28/89	4.00	10/21/94	0.45	12/16/03	NS		
PO-VPB-07	41	0.00	02/07/91	160.00	09/20/00	39.00	12/16/03	86.00	* +1	03/17/04
PO-VPB-08	44	ND	05/15/92	18.00	12/15/97	13.00	12/16/03	11.00	*	03/17/04
PO-VPB-10	9	ND	11/16/89	1.00	10/21/94	ND	12/17/03	NS		
VD-VPB-01	27	ND	01/15/90	1.00	10/31/94	ND	12/08/00	NS		
VD-VPB-02	36	ND	09/18/90	1.00	11/01/94	ND	09/19/03	ND	U	03/19/04
VD-VPB-03	40	ND	09/21/89	1.00	11/01/94	ND	12/04/03	ND	U	03/10/04
VD-VPB-04	37	ND	05/06/92	1.20	02/27/91	ND	09/19/03	NS		
VD-VPB-05	34	ND	12/02/92	3.00	11/05/93	0.10	09/09/02	NS		
VD-VPB-06	40	ND	01/11/90	1.00	11/01/94	ND	12/04/03	ND	U	03/10/04
VD-VPB-07	38	ND	12/19/89	2.00	08/03/95	ND	12/04/03	ND	U	03/10/04

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-2
Maximum and Minimum Detected TCE Values
Second Quarter 2004
San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	56.00	06/06/02	400.00	10/26/94	110.00	12/12/03	NS		
CS-C01-285	44	26.00	11/19/92	450.00	03/18/04	450.00	03/18/04	240.00	*	06/08/04
CS-C01-558	8	ND	10/04/90	0.50	12/14/95	0.08	01/07/03	NS		
CS-C02-062	37	35.00	07/29/96	200.0	11/08/93	58.00	03/15/04	49.00	* -1	06/07/04
CS-C02-180	45	0.00	03/27/91	280.0	11/08/93	11.00	03/15/04	23.00	*	06/07/04
CS-C02-250	45	100.00	03/13/00	320.0	11/08/93	140.00	03/15/04	150.00	*	06/07/04
CS-C02-335	46	0.00	05/22/90	360.00	09/16/02	250.00	12/08/03	250.00	*	06/07/04
CS-C03-100	45	10.00	03/11/02	5400.00	05/09/95	1200.00	03/15/04	1200.00	*	06/07/04
CS-C03-325	16	ND	05/07/90	4.30	05/18/90	1.70	12/08/03	NS		
CS-C03-465	40	ND	05/07/92	11.00	03/25/03	11.00	12/08/03	11.00	*	06/07/04
CS-C03-550	11	ND	05/17/90	ND	01/12/00	0.10	12/17/01	NS		
CS-C04-290	45	0.00	05/24/90	50.00	03/26/91	19.00	03/18/04	19.00	*	06/10/04
CS-C04-382	44	0.00	03/26/91	32.00	11/1093	21.00	03/18/04	27.00	*	06/10/04
CS-C04-520	11	ND	05/25/90	ND	01/13/00	ND	12/10/03	NS		
CS-C05-160	44	0.00	03/28/91	160.00	03/07/02	110.00	03/18/04	99.00	* -1	06/10/04
CS-C05-290	44	4.00	09/19/03	66.00	11/10/93	18.00	03/18/04	22.00	*	06/10/04
CS-C06-185	37	3.70	05/17/90	130.00	09/12/97	7.90	03/17/04	7.50	*	06/09/04
CS-C06-278	10	ND	05/14/90	10.00	12/12/00	10.00	12/12/00	NS		
CS-VPB-01	27	0.00	09/28/90	220.00	06/05/03	110.00	03/12/04	120.00	*	06/02/04
CS-VPB-02	43	ND	12/19/95	110.00	02/11/93	14.00	03/11/04	13.00	*	06/02/04
CS-VPB-03	27	0.00	01/25/91	11.00	03/11/04	11.00	03/11/04	8.30	*	06/03/04
CS-VPB-04	39	180.00	06/15/98	5900.00	06/10/04	1400.00	03/18/04	5900.00	* +1	06/10/04
CS-VPB-05	45	0.00	09/12/89	1600.00	03/07/02	600.00	03/18/04	800.00	*	06/10/04
CS-VPB-06	45	0.00	05/15/90	400.00	03/26/03	490.00	03/17/04	280.00	*	06/09/04
CS-VPB-07	44	0.00	02/06/91	12000.00	11/10/93	1300.00	03/18/04	5300.00	* +1	06/08/04
CS-VPB-08	34	8.00	09/28/90	180.00	02/12/93	120.00	03/18/04	89.00	* -1	06/10/04
CS-VPB-09	22	ND	09/28/90	9.00	03/08/02	ND	03/11/04	ND	U	06/02/04
CS-VPB-10	43	ND	09/15/89	10.00	06/10/04	6.70	03/18/04	10.00	*	06/10/04
CS-VPB-11	36	ND	08/06/92	7.90	09/15/89	0.90	1/6/2003	NS		
NH-C01-325	39	ND	01/29/92	13.00	03/06/02	9.90	09/19/03	NS		
NH-C01-450	13	ND	04/30/92	1.00	10/19/94	1.00	12/10/01	NS		
NH-C01-660	11	ND	08/17/90	ND	06/09/98	ND	12/02/03	NS		
NH-C01-780	11	ND	08/16/90	ND	06/09/98	ND	12/02/03	NS		
NH-C02-220	29	0.00	03/07/91	11.00	06/07/00	25.00	06/13/01	NS		
NH-C02-325	38	0.00	07/20/90	36.00	11/15/93	29.00	03/16/04	18.00	*	06/10/04
NH-C02-520	38	ND	08/14/90	220.00	05/16/94	73.00	03/16/04	78.00	*	06/10/04
NH-C02-681	10	ND	08/14/90	ND	06/09/98	ND	12/09/03	NS		
NH-C03-380	38	ND	05/24/90	21.00	05/01/92	5.10	03/16/04	13.00	*	06/08/04
NH-C03-580	45	ND	05/23/90	49.00	10/06/98	26.00	03/16/04	27.00	*	06/08/04
NH-C03-680	12	ND	05/23/90	ND	06/08/98	5.90	12/03/03	0.87		06/08/04
NH-C03-800	12	ND	05/23/90	2.00	01/11/00	0.91	12/03/03	NS		
NH-C04-240	43	ND	07/18/90	9.00	11/09/93	0.31	03/10/04	NS		
NH-C04-375	11	ND	07/17/90	ND	06/10/98	ND	12/03/03	NS		
NH-C04-560	11	ND	07/17/90	ND	06/10/98	ND	12/03/03	NS		
NH-C05-320	6	ND	02/08/91	1.00	06/22/98	ND	12/04/00	NS		
NH-C05-460	10	ND	04/29/92	100.00	12/02/03	100.00	12/02/03	83.00	*	06/04/04
NH-C06-160	42	1.30	06/03/04	240.00	01/25/95	1.50	03/11/04	1.30		06/03/04
NH-C06-285	10	ND	01/24/91	62.00	12/05/03	62.00	12/05/03	46.00	* -1	06/03/04
NH-C06-425	9	ND	05/02/95	ND	01/24/91	4.00	12/12/02	NS		
NH-VPB-01	41	ND	11/20/92	510.00	11/09/93	55.00	12/12/03	38.00	* -1	06/08/04
NH-VPB-02	17	ND	09/07/90	3.00	10/19/94	2.60	09/19/03	NS		
NH-VPB-03	9	ND	07/25/89	0.00	09/05/90	ND	09/19/03	NS		
NH-VPB-04	8	ND	09/18/90	0.00	08/01/89	ND	12/13/01	NS		
NH-VPB-05	42	0.80	09/10/02	58.00	05/13/94	3.40	03/12/04	3.50		06/04/04
NH-VPB-06	18	ND	01/29/92	66.00	12/18/96	66.00	12/18/96	NS		

TABLE 3-2
Maximum and Minimum Detected TCE Values
Second Quarter 2004
San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-VPB-07	28	ND	02/10/93	34.00	11/11/92	8.50	12/12/97	NS		
NH-VPB-08	45	ND	11/16/92	19.00	03/10/00	12.00	03/16/04	8.60	*	06/08/04
NH-VPB-09	33	ND	07/20/89	7.50	12/12/03	7.50	12/12/03	NS		
NH-VPB-10	9	ND	07/19/89	1.00	10/31/94	0.90	06/22/98	NS		
NH-VPB-11	8	ND	09/05/89	1.00	10/19/94	ND	06/22/98	NS		
NH-VPB-12	13	ND	07/18/89	1.00	10/20/94	ND	12/13/01	NS		
NH-VPB-13	8	ND	09/06/90	3.00	11/11/92	0.30	06/23/98	NS		
NH-VPB-14	27	ND	09/17/97	1400.00	08/18/93	100.00	12/02/99	NS		
PO-C01-195	17	ND	08/29/89	4.20	03/12/91	7.00	01/07/03	8.30	*	06/09/04
PO-C01-354	10	ND	08/27/90	ND	06/17/98	0.06	01/07/03	NS		
PO-C02-053	39	ND	05/19/94	33.00	11/19/93	2.00	03/12/04	1.80		06/04/04
PO-C02-205	14	ND	02/02/92	32.00	04/01/91	0.26	12/17/03	NS		
PO-C03-182	43	2.50	09/19/03	40.00	10/28/94	3.30	03/17/04	3.50		06/09/04
PO-C03-235	36	ND	08/28/90	6.00	03/09/00	3.30	03/17/04	NS		
PO-VPB-01	42	0.91	12/16/03	27.00	11/09/89	0.97	03/17/04	1.10		06/09/04
PO-VPB-02	42	0.00	11/08/89	900.00	11/11/93	390.00	03/17/04	200.00	*	06/09/04
PO-VPB-03	43	9.30	09/19/03	77.00	11/14/89	14.00	03/17/04	15.00	*	06/09/04
PO-VPB-05	38	ND	11/09/89	10.00	11/11/93	ND	03/12/04	NS		
PO-VPB-06	15	ND	11/28/89	4.00	10/21/94	0.45	12/16/03	NS		
PO-VPB-07	42	0.00	02/07/91	160.00	09/20/00	86.00	03/17/04	52.00	*	06/09/04
PO-VPB-08	45	ND	05/15/92	18.00	12/15/97	11.00	03/17/04	12.00	*	06/09/04
PO-VPB-10	9	ND	11/16/89	1.00	10/21/94	ND	12/17/03	NS		
VD-VPB-01	27	ND	01/15/90	1.00	10/31/94	ND	12/08/00	NS		
VD-VPB-02	37	ND	09/18/90	1.00	11/01/94	ND	03/19/04	ND	U	06/02/04
VD-VPB-03	41	ND	09/21/89	1.00	11/01/94	ND	03/10/04	ND	U	06/02/04
VD-VPB-04	37	ND	05/06/92	1.20	02/27/91	ND	09/19/03	NS		
VD-VPB-05	34	ND	12/02/92	3.00	11/05/93	0.10	09/09/02	NS		
VD-VPB-06	41	ND	01/11/90	1.00	11/01/94	ND	03/10/04	ND	U	06/02/04
VD-VPB-07	39	ND	12/19/89	2.00	08/03/95	ND	03/10/04	ND	U	06/02/04

* = Greater than MCL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr

NA = Not Analyzed
ND = Not Detected
U = Not Detected

J = Approximate Concentration
NS = Not Sampled
B = Contamination found in Sample and Blank both.

TABLE 3-3

Maximum and Minimum Detected TCE Values

Third Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	56.00	06/06/2002	400.00	10/26/1994	110.00	12/12/2003	NS		
CS-C01-285	45	26.00	11/19/1992	450.00	03/18/2004	240.00	06/08/2004	320.00	*	09/23/2004
CS-C01-558	8	ND	10/04/1990	0.50	12/14/1995	0.08	01/07/2003	NS		
CS-C02-062	38	35.00	07/29/1996	200.0	11/08/1993	49.00	06/07/2004	70.00	* +1	09/27/2004
CS-C02-180	46	0.00	03/27/1991	280.0	11/08/1993	23.00	06/07/2004	14.00	*	09/27/2004
CS-C02-250	46	100.00	03/13/2000	320.0	11/08/1993	150.00	06/07/2004	140.00	*	09/27/2004
CS-C02-335	47	0.00	05/22/1990	360.00	09/16/2002	250.00	06/07/2004	240.00	*	09/27/2004
CS-C03-100	46	10.00	03/11/2002	5400.00	05/09/1995	1200.00	06/07/2004	1400.00	*	09/24/2004
CS-C03-325	16	ND	05/07/1990	4.30	05/18/1990	1.70	12/08/2003	NS		
CS-C03-465	41	ND	05/07/1992	11.00	03/25/2003	11.00	06/07/2004	8.80	*	09/28/2004
CS-C03-550	11	ND	05/17/1990	ND	01/12/2000	0.10	12/17/2001	NS		
CS-C04-290	46	0.00	05/24/1990	50.00	03/26/1991	19.00	06/10/2004	16.00	*	09/27/2004
CS-C04-382	45	0.00	03/26/1991	32.00	11/1093	27.00	06/10/2004	21.00	*	09/27/2004
CS-C04-520	11	ND	05/25/1990	ND	01/13/2000	ND	12/10/2003	NS		
CS-C05-160	45	0.00	03/28/1991	170.00	09/23/2004	99.00	06/10/2004	170.00	* +1	09/23/2004
CS-C05-290	45	4.00	09/19/2003	66.00	11/10/1993	22.00	06/10/2004	15.00	*	09/23/2004
CS-C06-185	38	3.70	05/17/1990	130.00	09/12/1997	7.50	06/09/2004	7.20	*	09/27/2004
CS-C06-278	10	ND	05/14/1990	10.00	12/12/2000	10.00	12/12/2000	NS		
CS-VPB-01	28	0.00	09/28/1990	220.00	06/05/2003	120.00	06/02/2004	150.00	*	09/23/2004
CS-VPB-02	43	ND	12/19/1995	110.00	02/11/1993	13.00	06/02/2004	NS		
CS-VPB-03	28	0.00	01/25/1991	17.00	09/23/2004	8.30	06/03/2004	17.00	*	09/23/2004
CS-VPB-04	40	180.00	06/15/1998	7200.00	09/24/2004	5900.00	06/10/2004	7200.00	*	09/24/2004
CS-VPB-05	46	0.00	09/12/1989	1600.00	03/07/2002	800.00	06/10/2004	940.00	*	09/23/2004
CS-VPB-06	46	0.00	05/15/1990	480.00	09/24/2004	280.00	06/09/2004	480.00	*	09/24/2004
CS-VPB-07	44	0.00	02/06/1991	12000.00	11/10/1993	5300.00	06/08/2004	NS		
CS-VPB-08	35	8.00	09/28/1990	180.00	02/12/1993	89.00	06/10/2004	110.00	* +1	09/24/2004
CS-VPB-09	23	ND	09/28/1990	9.00	03/08/2002	ND	06/02/2004	0.50	J	09/23/2004
CS-VPB-10	44	ND	09/15/1989	13.00	09/27/2004	10.00	06/10/2004	13.00	*	09/27/2004
CS-VPB-11	36	ND	08/06/1992	7.90	09/15/1989	0.90	1/6/2003	NS		
NH-C01-325	40	ND	01/29/1992	15.00	09/22/2004	9.90	09/19/2003	15.00	*	09/22/2004
NH-C01-450	13	ND	04/30/1992	1.00	10/19/1994	1.00	12/10/2001	NS		
NH-C01-660	11	ND	08/17/1990	ND	06/09/1998	ND	12/02/2003	NS		
NH-C01-780	11	ND	08/16/1990	ND	06/09/1998	ND	12/02/2003	NS		
NH-C02-220	29	0.00	03/07/1991	11.00	06/07/2000	25.00	06/13/2001	NS		
NH-C02-325	38	0.00	07/20/1990	36.00	11/15/1993	18.00	06/10/2004	NS		
NH-C02-520	39	ND	08/14/1990	220.00	05/16/1994	78.00	06/10/2004	60.00	*	09/22/2004
NH-C02-681	10	ND	08/14/1990	ND	06/09/1998	ND	12/09/2003	NS		
NH-C03-380	39	ND	05/24/1990	21.00	05/01/1992	13.00	06/08/2004	20.00	*	09/22/2004
NH-C03-580	46	ND	05/23/1990	49.00	10/06/1998	27.00	06/08/2004	36.00	*	09/22/2004
NH-C03-680	13	ND	05/23/1990	ND	06/08/1998	0.87	06/08/2004	0.43	J	08/31/2004
NH-C03-800	12	ND	05/23/1990	2.00	01/11/2000	0.91	12/03/2003	NS		
NH-C04-240	43	ND	07/18/1990	9.00	11/09/1993	0.31	03/10/2004	NS		
NH-C04-375	11	ND	07/17/1990	ND	06/10/1998	ND	12/03/2003	NS		
NH-C04-560	11	ND	07/17/1990	ND	06/10/1998	ND	12/03/2003	NS		
NH-C05-320	6	ND	02/08/1991	1.00	06/22/1998	ND	12/04/2000	NS		

TABLE 3-3

Maximum and Minimum Detected TCE Values

Third Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-C05-460	11	ND	04/29/1992	100.00	12/02/2003	83.00	06/04/2004	58.00	*	09/22/2004
NH-C06-160	43	1.30	08/31/2004	240.00	01/25/1995	1.30	06/03/2004	1.30		08/31/2004
NH-C06-285	11	ND	01/24/1991	75.00	08/31/2004	46.00	06/03/2004	75.00	* +1	08/31/2004
NH-C06-425	9	ND	05/02/1995	ND	01/24/1991	4.00	12/12/2002	NS		
NH-VPB-01	42	ND	11/20/1992	510.00	11/09/1993	38.00	06/08/2004	51.00	* +1	09/23/2004
NH-VPB-02	17	ND	09/07/1990	3.00	10/19/1994	2.60	09/19/2003	NS		
NH-VPB-03	9	ND	07/25/1989	0.00	09/05/1990	ND	09/19/2003	NS		
NH-VPB-04	8	ND	09/18/1990	0.00	08/01/1989	ND	12/13/2001	NS		
NH-VPB-05	43	0.80	09/10/2002	58.00	05/13/1994	3.50	06/04/2004	3.90		08/31/2004
NH-VPB-06	18	ND	01/29/1992	66.00	12/18/1996	66.00	12/18/1996	NS		
NH-VPB-07	28	ND	02/10/1993	34.00	11/11/1992	8.50	12/12/1997	NS		
NH-VPB-08	46	ND	11/16/1992	19.00	03/10/2000	8.60	06/08/2004	4.40	-1	09/22/2004
NH-VPB-09	33	ND	07/20/1989	7.50	12/12/2003	7.50	12/12/2003	NS		
NH-VPB-10	9	ND	07/19/1989	1.00	10/31/1994	0.90	06/22/1998	NS		
NH-VPB-11	8	ND	09/05/1989	1.00	10/19/1994	ND	06/22/1998	NS		
NH-VPB-12	13	ND	07/18/1989	1.00	10/20/1994	ND	12/13/2001	NS		
NH-VPB-13	8	ND	09/06/1990	3.00	11/11/1992	0.30	06/23/1998	NS		
NH-VPB-14	27	ND	09/17/1997	1400.00	08/18/1993	100.00	12/02/1999	NS		
PO-C01-195	18	ND	08/29/1989	5.90	09/28/2004	8.30	06/09/2004	5.90	*	09/28/2004
PO-C01-354	10	ND	08/27/1990	ND	06/17/1998	0.06	01/07/2003	NS		
PO-C02-053	40	ND	05/19/1994	33.00	11/19/1993	1.80	06/04/2004	1.60		09/01/2004
PO-C02-205	14	ND	02/02/1992	32.00	04/01/1991	0.26	12/17/2003	NS		
PO-C03-182	43	2.50	09/19/2003	40.00	10/28/1994	3.50	06/09/2004	3.30		09/01/2004
PO-C03-235	36	ND	08/28/1990	6.00	03/09/2000	3.30	03/17/2004	NS		
PO-VPB-01	43	0.91	12/16/2003	27.00	11/09/1989	1.10	06/09/2004	1.10		09/01/2004
PO-VPB-02	43	0.00	11/08/1989	900.00	11/11/1993	200.00	06/09/2004	160.00	*	09/28/2004
PO-VPB-03	44	9.30	09/19/2003	77.00	11/14/1989	15.00	06/09/2004	11.00	*	09/28/2004
PO-VPB-05	38	ND	11/09/1989	10.00	11/11/1993	ND	03/12/2004	NS		
PO-VPB-06	15	ND	11/28/1989	4.00	10/21/1994	0.45	12/16/2003	NS		
PO-VPB-07	42	0.00	02/07/1991	160.00	09/20/2000	52.00	06/09/2004	NS		
PO-VPB-08	46	ND	05/15/1992	18.00	09/24/2004	12.00	06/09/2004	18.00	*	09/24/2004
PO-VPB-10	9	ND	11/16/1989	1.00	10/21/1994	ND	12/17/2003	NS		
VD-VPB-01	27	ND	01/15/1990	1.00	10/31/1994	ND	12/08/2000	NS		
VD-VPB-02	38	ND	09/18/1990	1.00	11/01/1994	ND	06/02/2004	ND	U	09/02/2004
VD-VPB-03	42	ND	09/21/1989	1.00	11/01/1994	ND	06/02/2004	ND	U	09/02/2004
VD-VPB-04	37	ND	05/06/1992	1.20	02/27/1991	ND	09/19/2003	NS		
VD-VPB-05	34	ND	12/02/1992	3.00	11/05/1993	0.10	09/09/2002	NS		
VD-VPB-06	42	ND	01/11/1990	1.00	11/01/1994	ND	06/02/2004	ND	U	09/01/2004
VD-VPB-07	40	ND	12/19/1989	2.00	08/03/1995	ND	06/02/2004	ND	U	09/01/2004

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-4
Maximum and Minimum Detected TCE Values
Fourth Quarter 2004
San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
CS-C01-105	42	56.00	06/06/2002	400.00	10/26/1994	110.00	12/12/2003	NS	
CS-C01-285	46	26.00	11/19/1992	450.00	03/18/2004	320.00	09/23/2004	320.00	*
CS-C01-558	9	ND	10/04/1990	0.50	12/14/1995	0.08	01/07/2003	ND	U
CS-C02-062	39	35.00	07/29/1996	200.0	11/08/1993	70.00	09/27/2004	62.00	*
CS-C02-180	47	0.00	03/27/1991	280.0	11/08/1993	14.00	09/27/2004	17.00	*
CS-C02-250	47	100.00	03/13/2000	320.0	11/08/1993	140.00	09/27/2004	170.00	*
CS-C02-335	48	0.00	05/22/1990	360.00	09/16/2002	240.00	09/27/2004	340.00	*
CS-C03-100	47	10.00	03/11/2002	5400.00	05/09/1995	1400.00	09/24/2004	1000.00	* -1
CS-C03-325	17	ND	05/07/1990	4.30	05/18/1990	1.70	12/08/2003	1.40	
CS-C03-465	42	ND	05/07/1992	11.00	03/25/2003	8.80	09/28/2004	7.40	*
CS-C03-550	12	ND	05/17/1990	ND	01/12/2000	0.10	12/17/2001	ND	U
CS-C04-290	47	0.00	05/24/1990	50.00	03/26/1991	16.00	09/27/2004	16.00	*
CS-C04-382	46	0.00	03/26/1991	32.00	11/1093	21.00	09/27/2004	24.00	*
CS-C04-520	12	ND	05/25/1990	ND	01/13/2000	ND	12/10/2003	ND	U
CS-C05-160	46	0.00	03/28/1991	170.00	09/23/2004	170.00	09/23/2004	12.00	* -2
CS-C05-290	46	4.00	09/19/2003	66.00	11/10/1993	15.00	09/23/2004	11.00	*
CS-C06-185	39	3.50	12/17/2004	130.00	09/12/1997	7.20	09/27/2004	3.50	-1
CS-C06-278	11	ND	05/14/1990	10.00	12/12/2000	10.00	12/12/2000	ND	U
CS-VPB-01	29	0.00	09/28/1990	220.00	06/05/2003	150.00	09/23/2004	140.00	*
CS-VPB-02	44	ND	12/19/1995	110.00	02/11/1993	13.00	06/02/2004	2.80	-1
CS-VPB-03	29	0.00	01/25/1991	17.00	09/23/2004	17.00	09/23/2004	12.00	*
CS-VPB-04	41	180.00	06/15/1998	7200.00	09/24/2004	7200.00	09/24/2004	4700.00	* -1
CS-VPB-05	47	0.00	09/12/1989	1600.00	03/07/2002	940.00	09/23/2004	720.00	*
CS-VPB-06	47	0.00	05/15/1990	480.00	09/24/2004	480.00	09/24/2004	310.00	*
CS-VPB-07	45	0.00	02/06/1991	12000.00	11/10/1993	5300.00	06/08/2004	4300.00	* -1
CS-VPB-08	36	8.00	09/28/1990	180.00	02/12/1993	110.00	09/24/2004	83.00	* -1
CS-VPB-09	24	ND	09/28/1990	9.00	03/08/2002	0.50	09/23/2004	ND	U
CS-VPB-10	45	ND	09/15/1989	13.00	09/27/2004	13.00	09/27/2004	6.20	*
CS-VPB-11	36	ND	08/06/1992	7.90	09/15/1989	0.90	1/6/2003	NS	
NH-C01-325	40	ND	01/29/1992	15.00	09/22/2004	15.00	09/22/2004	NS	
NH-C01-450	13	ND	04/30/1992	1.00	10/19/1994	1.00	12/10/2001	NS	
NH-C01-660	12	ND	08/17/1990	ND	06/09/1998	ND	12/02/2003	ND	U
NH-C01-780	12	ND	08/16/1990	ND	06/09/1998	ND	12/02/2003	ND	U
NH-C02-220	29	0.00	03/07/1991	11.00	06/07/2000	25.00	06/13/2001	NS	
NH-C02-325	39	0.00	07/20/1990	36.00	11/15/1993	18.00	06/10/2004	8.60	*
NH-C02-520	40	ND	08/14/1990	220.00	05/16/1994	60.00	09/22/2004	59.00	*
NH-C02-681	11	ND	08/14/1990	ND	06/09/1998	ND	12/09/2003	ND	U
NH-C03-380	40	ND	05/24/1990	21.00	05/01/1992	20.00	09/22/2004	11.00	*
NH-C03-580	47	ND	05/23/1990	49.00	10/06/1998	36.00	09/22/2004	16.00	*
NH-C03-680	14	ND	05/23/1990	ND	06/08/1998	0.43	08/31/2004	0.43	J
NH-C03-800	13	ND	05/23/1990	2.00	01/11/2000	0.91	12/03/2003	ND	U
NH-C04-240	44	ND	07/18/1990	9.00	11/09/1993	0.31	03/10/2004	0.26	J
NH-C04-375	12	ND	07/17/1990	ND	06/10/1998	ND	12/03/2003	ND	U
NH-C04-560	12	ND	07/17/1990	ND	06/10/1998	ND	12/03/2003	ND	U
NH-C05-320	6	ND	02/08/1991	1.00	06/22/1998	ND	12/04/2000	NS	
NH-C05-460	12	ND	04/29/1992	100.00	12/02/2003	58.00	09/22/2004	63.00	*
NH-C06-160	44	0.97	12/01/2004	240.00	01/25/1995	1.30	08/31/2004	0.97	

TABLE 3-4
Maximum and Minimum Detected TCE Values
Fourth Quarter 2004
San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
NH-C06-285	12	ND	01/24/1991	75.00	08/31/2004	75.00	08/31/2004	54.00	*
NH-C06-425	10	ND	05/02/1995	ND	01/24/1991	4.00	12/12/2002	ND	U
NH-VPB-01	43	ND	11/20/1992	510.00	11/09/1993	51.00	09/23/2004	24.00	* -1
NH-VPB-02	17	ND	09/07/1990	3.00	10/19/1994	2.60	09/19/2003	NS	
NH-VPB-03	9	ND	07/25/1989	0.00	09/05/1990	ND	09/19/2003	NS	
NH-VPB-04	8	ND	09/18/1990	0.00	08/01/1989	ND	12/13/2001	NS	
NH-VPB-05	44	0.80	09/10/2002	58.00	05/13/1994	3.90	08/31/2004	4.10	
NH-VPB-06	18	ND	01/29/1992	66.00	12/18/1996	66.00	12/18/1996	NS	
NH-VPB-07	28	ND	02/10/1993	34.00	11/11/1992	8.50	12/12/1997	NS	
NH-VPB-08	47	ND	11/16/1992	19.00	03/10/2000	4.40	09/22/2004	4.70	
NH-VPB-09	33	ND	07/20/1989	7.50	12/12/2003	7.50	12/12/2003	NS	
NH-VPB-10	10	ND	07/19/1989	1.00	10/31/1994	0.90	06/22/1998	ND	U
NH-VPB-11	8	ND	09/05/1989	1.00	10/19/1994	ND	06/22/1998	NS	
NH-VPB-12	13	ND	07/18/1989	1.00	10/20/1994	ND	12/13/2001	NS	
NH-VPB-13	8	ND	09/06/1990	3.00	11/11/1992	0.30	06/23/1998	NS	
NH-VPB-14	27	ND	09/17/1997	1400.00	08/18/1993	100.00	12/02/1999	NS	
PO-C01-195	19	ND	08/29/1989	11.00	12/20/2004	5.90	09/28/2004	11.00	*
PO-C01-354	11	ND	08/27/1990	ND	06/17/1998	0.06	01/07/2003	ND	U
PO-C02-053	41	ND	05/19/1994	33.00	11/19/1993	1.60	09/01/2004	1.20	
PO-C02-205	15	ND	02/02/1992	32.00	04/01/1991	0.26	12/17/2003	0.23	J
PO-C03-182	44	2.20	12/08/2004	40.00	09/01/2004	3.30	06/09/2004	2.20	
PO-C03-235	37	ND	08/28/1990	6.00	03/09/2000	3.30	03/17/2004	1.90	
PO-VPB-01	44	0.91	12/16/2003	27.00	11/09/1989	1.10	09/01/2004	0.96	
PO-VPB-02	44	0.00	11/08/1989	900.00	11/11/1993	160.00	09/28/2004	210.00	*
PO-VPB-03	45	9.30	09/19/2003	77.00	11/14/1989	11.00	09/28/2004	11.00	*
PO-VPB-05	39	ND	11/09/1989	10.00	11/11/1993	ND	03/12/2004	0.27	J
PO-VPB-06	16	ND	11/28/1989	4.00	10/21/1994	0.45	12/16/2003	0.21	J
PO-VPB-07	43	0.00	02/07/1991	160.00	09/20/2000	52.00	06/09/2004	ND	U
PO-VPB-08	47	ND	05/15/1992	18.00	09/24/2004	18.00	09/24/2004	13.00	*
PO-VPB-10	9	ND	11/16/1989	1.00	10/21/1994	ND	12/17/2003	NS	
VD-VPB-01	27	ND	01/15/1990	1.00	10/31/1994	ND	12/08/2000	NS	
VD-VPB-02	38	ND	09/18/1990	1.00	11/01/1994	ND	09/02/2004	NS	
VD-VPB-03	43	ND	09/21/1989	1.00	11/01/1994	ND	09/02/2004	ND	U
VD-VPB-04	37	ND	05/06/1992	1.20	02/27/1991	ND	09/19/2003	NS	
VD-VPB-05	34	ND	12/02/1992	3.00	11/05/1993	0.10	09/09/2002	NS	
VD-VPB-06	43	ND	01/11/1990	1.00	11/01/1994	ND	09/01/2004	ND	U
VD-VPB-07	41	ND	12/19/1989	2.00	08/03/1995	ND	09/01/2004	ND	U

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected

U = Not Detected
J = Approximate Concentration
L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-5
Summary of TCE Values
First, Second, Third, and Fourth Quarters 2004
San Fernando Valley Groundwater Monitoring Program

	1st Qtr.			2nd Qtr.			3rd. Qtr			4th Qtr.		
Well Name	**Sample Date**	**Value µg/l**		**Sample Date**	**Value µg/l**		**Sample Date**	**Value µg/l**		**Sample Date**	**Value µg/l**	
CS-C01-105	NS			NS			NS			NS		
CS-C01-285	03/18/04	450.00	*	06/08/04	240.00	*	09/23/04	320.00	*	12/14/04	320.00	*
CS-C01-558	NS			NS			NS			12/02/04	ND	U
CS-C02-062	03/15/04	58.00	*	06/07/04	49.00	* -1	09/27/04	70.00	* +1	12/15/04	62.00	*
CS-C02-180	03/15/04	11.00	*	06/07/04	23.00	*	09/27/04	14.00	*	12/15/04	17.00	*
CS-C02-250	03/15/04	140.00	*	06/07/04	150.00	*	09/27/04	140.00	*	12/15/04	170.00	*
CS-C02-335	03/15/04	250.00	*	06/07/04	250.00	*	09/27/04	240.00	*	12/15/04	340.00	*
CS-C03-100	03/15/04	1200.00	*	06/07/04	1200.00	*	09/24/04	1400.00	*	12/17/04	1000.00	* -1
CS-C03-325	NS			NS			NS			12/02/04	1.40	
CS-C03-465	03/15/04	ND	U	06/07/04	11.00	*	09/28/04	8.80	*	12/10/04	7.40	*
CS-C03-550	NS			NS			NS			12/02/04	ND	U
CS-C04-290	03/18/04	19.00	*	06/10/04	19.00	*	09/27/04	16.00	*	12/16/04	16.00	*
CS-C04-382	03/18/04	21.00	*	06/10/04	27.00	*	09/27/04	21.00	*	12/16/04	24.00	*
CS-C04-520	NS			NS			NS			12/02/04	ND	U
CS-C05-160	03/18/04	110.00	*	06/10/04	99.00	* -1	09/23/04	170.00	* +1	12/17/04	12.00	* -2
CS-C05-290	03/18/04	18.00	*	06/10/04	22.00	*	09/23/04	15.00	*	12/17/04	11.00	*
CS-C06-185	03/17/04	7.90	*	06/09/04	7.50	*	09/27/04	7.20	*	12/17/04	3.50	-1
CS-C06-278	NS			NS			NS			12/06/04	ND	U
CS-VPB-01	03/12/04	110.00	*	06/02/04	120.00	*	09/23/04	150.00	*	12/15/04	140.00	*
CS-VPB-02	03/11/04	14.00	* +1	06/02/04	13.00	*	NS			12/15/04	2.80	-1
CS-VPB-03	03/11/04	11.00	*	06/03/04	8.30	*	09/23/04	17.00	*	12/16/04	12.00	*
CS-VPB-04	03/18/04	1400.00	*	06/10/04	5900.00	* +1	09/24/04	7200.00	*	12/16/04	4700.00	* -1
CS-VPB-05	03/18/04	600.00	* +1	06/10/04	800.00	*	09/23/04	940.00	*	12/17/04	720.00	*
CS-VPB-06	03/17/04	330.00	*	06/09/04	280.00	*	09/24/04	480.00	*	12/17/04	310.00	*
CS-VPB-07	03/18/04	1300.00	*	06/08/04	5300.00	* +1	NS			12/17/04	4300.00	* -1
CS-VPB-08	03/18/04	120.00	*	06/10/04	89.00	* -1	09/24/04	110.00	* +1	12/16/04	83.00	* -1
CS-VPB-09	03/11/04	ND	U	06/02/04	ND	U	09/23/04	0.50	J	12/16/04	ND	U
CS-VPB-10	03/18/04	6.70	*	06/10/04	10.00	*	09/27/04	13.00	*	12/17/04	6.20	*
CS-VPB-11	NS			NS			NS			NS		
NH-C01-325	NS			NS			09/22/04	15.00	*	NS		
NH-C01-450	NS			NS			NS			NS		
NH-C01-660	NS			NS			NS			11/30/04	ND	U
NH-C01-780	NS			NS			NS			11/30/04	ND	U
NH-C02-220	NS			NS			NS			NS		
NH-C02-325	03/16/04	29.00	*	06/10/04	18.00	*	NS			12/13/04	8.60	*
NH-C02-520	03/16/04	73.00	*	06/10/04	78.00	*	09/22/04	60.00	*	12/13/04	59.00	*
NH-C02-681	NS			NS			NS			12/01/04	ND	U
NH-C03-380	03/16/04	5.10	*	06/08/04	13.00	*	09/22/04	20.00	*	12/13/04	11.00	*
NH-C03-580	03/16/04	26.00	*	06/08/04	27.00	*	09/22/04	36.00	*	12/13/04	16.00	*
NH-C03-680	NS			06/08/04	0.87		08/31/04	0.43	J	12/13/04	0.43	J
NH-C03-800	NS			NS			NS			12/03/04	ND	U
NH-C04-240	03/10/04	0.31	J	NS			NS			12/03/04	0.26	J
NH-C04-375	NS			NS			NS			12/03/04	ND	U
NH-C04-560	NS			NS			NS			12/03/04	ND	U
NH-C05-320	NS			NS			NS			NS		

TABLE 3-5

Summary of TCE Values

First, Second, Third, and Fourth Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	1st Qtr. Sample Date	1st Qtr. Value µg/l		2nd Qtr. Sample Date	2nd Qtr. Value µg/l		3rd. Qtr Sample Date	3rd. Qtr Value µg/l		4th Qtr. Sample Date	4th Qtr. Value µg/l	
NH-C05-460	NS			06/04/04	83.00	*	09/22/04	58.00	*	12/13/04	63.00	*
NH-C06-160	03/11/04	1.50		06/03/04	1.30		08/31/04	1.30		12/01/04	0.97	
NH-C06-285	NS			06/03/04	46.00	* -1	08/31/04	75.00	* +1	12/14/04	54.00	*
NH-C06-425	NS			NS			NS			12/01/04	ND	U
NH-VPB-01	NS			06/08/04	38.00	* -1	09/23/04	51.00	* +1	12/14/04	24.00	* -1
NH-VPB-02	NS			NS			NS			NS		
NH-VPB-03	NS			NS			NS			NS		
NH-VPB-04	NS			NS			NS			NS		
NH-VPB-05	03/12/04	3.40		06/04/04	3.50		08/31/04	3.90		12/01/04	4.10	
NH-VPB-06	NS			NS			NS			NS	NS	
NH-VPB-07	NS			NS			NS			NS	NS	
NH-VPB-08	03/16/04	12.00	*	06/08/04	8.60	*	09/22/04	4.40	-1	12/13/04	4.70	
NH-VPB-09	NS			NS			NS			NS		
NH-VPB-10	NS			NS			NS			12/14/04	ND	U
NH-VPB-11	NS			NS			NS			NS		
NH-VPB-12	NS			NS			NS			NS		
NH-VPB-13	NS			NS			NS			NS		
NH-VPB-14	NS			NS			NS			NS		
PO-C01-195	NS			06/09/04	8.30	*	09/28/04	5.90	*	12/20/04	11.00	*
PO-C01-354	NS			NS			NS	NS		12/06/04	ND	U
PO-C02-053	03/12/04	2.00		06/04/04	1.80		09/01/04	1.60		12/06/04	1.20	
PO-C02-205	NS			NS			NS			12/06/04	0.23	J
PO-C03-182	03/17/04	3.30		06/09/04	3.50		09/01/04	3.30		12/08/04	2.20	
PO-C03-235	03/17/04	3.30		NS			NS			12/08/04	1.90	
PO-VPB-01	03/17/04	0.97		06/09/04	1.10		09/01/04	1.10		12/07/04	0.96	
PO-VPB-02	03/17/04	230.00	*	06/09/04	200.00	*	09/28/04	160.00	*	12/20/04	210.00	*
PO-VPB-03	03/17/04	14.00	*	06/09/04	15.00	*	09/28/04	11.00	*	12/20/04	11.00	*
PO-VPB-04	NS			NS			NS			NS		
PO-VPB-05	03/12/04	ND	U	NS			NS			12/07/04	0.27	J
PO-VPB-06	NS			NS			NS			12/07/04	0.21	J
PO-VPB-07	03/17/04	86.00	* +1	06/09/04	52.00	*	NS			12/20/04	ND	U
PO-VPB-08	03/17/04	11.00	*	06/09/04	12.00	*	09/24/04	18.00	*	12/20/04	13.00	*
PO-VPB-09	NS			NS			NS			NS		
PO-VPB-10	NS			NS			NS			NS		
PO-VPB-11	NS			NS			NS			NS		
VD-VPB-01	NS			NS			NS			NS		
VD-VPB-02	03/19/04	ND	U	06/02/04	ND	U	09/02/04	ND	U	NS		
VD-VPB-03	03/10/04	ND	U	06/02/04	ND	U	09/02/04	ND	U	12/09/04	ND	U
VD-VPB-04	NS			NS			NS			NS		
VD-VPB-05	NS			NS			NS			NS		
VD-VPB-06	03/10/04	ND	U	06/02/04	ND	U	09/01/04	ND	U	12/08/04	ND	U
VD-VPB-07	03/10/04	ND	U	06/02/04	ND	U	09/01/04	ND	U	12/08/04	ND	U

* = Greater than MCL

NA = Not Analyzed

ND = Not Detected

U = Not Detected

J = Approximate Concentration

L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr

-1 = Value moved 1 conc. zone down from prev. qtr

B = ContamiNStion found in Sample and Blank both.

TABLE 3-6

Maximum and Minimum Detected PCE Values

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
CS-C01-105	43	37.00	09/11/02	300.00	10/26/94	75.00	12/12/2003	NS	
CS-C01-285	44	42.00	11/19/92	410.00	03/18/04	300.00	12/12/2003	410.00	*
CS-C01-558	9	ND	10/04/90	ND	06/10/98	ND	12/12/2003	NS	
CS-C02-062	37	12.00	12/11/00	180.00	11/08/93	52.00	12/8/2003	42.00	*-1
CS-C02-180	45	0.00	03/27/91	65.00	11/08/93	10.00	12/8/2003	1.90	-1
CS-C02-250	45	29.00	03/27/91	250.00	02/22/94	150.00	12/8/2003	69.00	* -1
CS-C02-335	46	0.00	05/22/90	420.00	09/16/02	310.00	12/8/2003	230.00	*
CS-C03-100	44	ND	02/15/93	97.00	03/25/03	110.00	12/8/2003	64.00	* -1
CS-C03-325	17	ND	05/17/90	1.00	12/08/99	0.69	12/8/2003	NS	
CS-C03-465	39	ND	05/07/92	8.50	09/17/01	1.80	12/8/2003	ND	U
CS-C03-550	11	ND	05/17/90	ND	06/11/98	ND	12/8/2003	NS	
CS-C04-290	45	1.80	09/19/03	14.00	06/15/98	11.00	12/10/2003	11.00	*
CS-C04-382	44	5.10	09/19/03	18.00	12/19/02	17.00	12/10/2003	14.00	*
CS-C04-520	11	ND	05/25/90	ND	06/15/98	ND	12/10/2003	NS	
CS-C05-160	44	ND	02/02/92	5.00	03/07/02	4.40	12/10/2003	3.80	J
CS-C05-290	44	ND	12/13/95	19.00	06/11/03	14.00	12/10/2003	14.00	*
CS-C06-185	36	ND	05/15/90	3.50	06/11/03	2.90	12/15/2003	3.00	
CS-C06-278	10	ND	05/14/90	ND	06/18/98	1.0	12/12/2000	NS	
CS-VPB-01	26	0.00	09/28/90	220.00	06/05/03	260.00	12/17/2003	160.00	*
CS-VPB-02	42	ND	09/11/89	36.00	11/08/93	1.20	12/5/2003	2.10	
CS-VPB-03	23	ND	12/11/90	1.00	10/20/94	ND	12/4/2003	ND	U
CS-VPB-04	40	17.00	03/26/96	300.00	03/18/04	210.00	12/10/2003	300.00	*
CS-VPB-05	45	0.00	09/12/89	65.00	03/07/02	37.00	12/10/2003	33.00	*
CS-VPB-06	43	0.00	05/15/90	14.00	10/27/94	7.10	12/15/2003	7.50	*
CS-VPB-07	42	ND	09/26/90	79.00	03/12/98	37.00	12/16/2003	40.00	*
CS-VPB-08	33	ND	09/28/90	96.00	12/15/03	96.00	12/15/2003	84.00	*
CS-VPB-09	25	ND	09/27/89	52.00	03/08/02	12.00	12/4/2003	5.30	*
CS-VPB-10	43	ND	09/15/89	54.00	09/19/01	39.00	12/15/2003	28.00	*
CS-VPB-11	37	9.00	10/07/98	45.00	09/15/89	11.00	01/06/2003	NS	
NH-C01-325	39	ND	01/29/92	71.00	07/24/96	6.00	03/19/2003	NS	
NH-C01-450	13	ND	04/30/92	9.00	12/10/01	9.00	12/10/2001	NS	
NH-C01-660	12	ND	08/17/90	0.09	12/10/02	0.09	12/10/2002	NS	
NH-C01-780	12	ND	08/16/90	0.10	12/10/02	0.10	12/10/2002	NS	
NH-C02-220	29	ND	08/15/90	1.00	03/20/96	0.50	06/13/2001	NS	
NH-C02-325	37	0.00	07/20/90	29.00	11/15/93	2.30	12/9/2003	2.40	
NH-C02-520	37	ND	07/20/90	8.00	11/03/93	1.50	12/9/2003	2.40	
NH-C02-681	10	ND	08/14/90	ND	06/09/98	ND	12/9/2003	NS	
NH-C03-380	37	ND	05/24/90	11.00	03/10/98	6.60	12/9/2003	4.40	
NH-C03-580	45	ND	05/23/90	32.00	07/29/92	27.00	12/9/2003	24.00	*
NH-C03-680	12	ND	05/23/90	2.00	12/11/02	2.00	12/3/2003	NS	
NH-C03-800	13	ND	05/22/90	0.40	12/03/03	0.40	12/3/2003	NS	
NH-C04-240	43	ND	07/18/90	2.00	03/11/98	ND	12/3/2003	ND	U
NH-C04-375	11	ND	07/18/90	ND	06/10/98	ND	12/3/2003	NS	
NH-C04-560	11	ND	07/17/90	ND	06/10/98	ND	12/3/2003	NS	
NH-C05-320	6	ND	02/08/91	0.00	01/30/91	ND	12/04/2000	NS	
NH-C05-460	11	ND	01/28/91	15.00	12/02/03	15.00	12/2/2003	NS	
NH-C06-160	41	ND	01/22/91	1.10	09/21/01	0.64	12/5/2003	0.63	
NH-C06-285	9	ND	01/24/91	2.50	12/05/03	2.50	12/5/2003	NS	
NH-C06-425	10	ND	05/02/92	0.90	12/12/02	ND	12/5/2003	NS	

TABLE 3-6

Maximum and Minimum Detected PCE Values

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
NH-VPB-01	40	ND	11/20/92	350.00	11/09/93	24.00	12/12/2003	NS	
NH-VPB-02	18	ND	09/07/90	3.00	12/10/02	1.60	9/19/2003	NS	
NH-VPB-03	12	ND	07/25/89	ND	06/23/98	ND	9/19/2003	NS	
NH-VPB-04	8	ND	08/01/89	ND	06/23/98	ND	12/13/2001	NS	
NH-VPB-05	41	ND	07/13/89	20.00	05/05/95	ND	12/5/2003	0.22	J
NH-VPB-06	18	ND	07/11/89	4.00	12/18/96	1.0	10/12/1998	NS	
NH-VPB-07	28	ND	07/31/89	54.00	11/11/92	7.0	12/01/1999	NS	
NH-VPB-08	44	ND	01/30/92	4.00	09/17/97	2.50	12/10/2003	2.50	
NH-VPB-09	32	ND	07/25/95	5.00	09/14/00	4.0	03/06/2001	NS	
NH-VPB-10	8	ND	07/19/89	1.00	10/31/94	ND	06/22/1998	NS	
NH-VPB-11	8	ND	09/05/89	0.30	12/04/95	ND	06/22/1998	NS	
NH-VPB-12	13	ND	07/18/89	1.00	10/20/94	ND	12/13/2001	NS	
NH-VPB-13	8	ND	09/06/90	0.20	10/19/94	ND	06/23/1998	NS	
NH-VPB-14	27	ND	09/06/90	250.00	03/11/98	5.0	12/02/1999	NS	
PO-C01-195	19	ND	09/26/90	1.00	01/07/03	0.81	12/12/2003	NS	
PO-C01-354	12	ND	08/29/90	0.04	01/07/03	0.04	01/07/2003	NS	
PO-C02-053	38	ND	08/27/90	4.00	11/11/93	1.40	12/17/2003	1.50	
PO-C02-205	17	ND	05/14/92	3.00	04/01/91	0.37	12/17/2003	NS	
PO-C03-182	42	ND	08/29/90	21.00	10/28/94	1.50	12/16/2003	1.50	
PO-C03-235	36	ND	08/28/90	2.00	12/15/97	1.30	12/16/2003	1.40	
PO-VPB-01	41	ND	02/03/92	5.00	11/09/89	0.46	12/16/2003	0.50	
PO-VPB-02	42	45.00	09/12/97	190.00	11/11/93	170.00	12/12/2003	100.00	*
PO-VPB-03	43	2.00	10/28/94	46.00	11/14/98	8.30	12/16/2003	8.20	*
PO-VPB-04	2	0.00	11/14/89	0.00	09/20/90	ND	12/04/1992	NS	
PO-VPB-05	36	ND	11/09/89	0.70	12/18/97	ND	12/16/2003	ND	U
PO-VPB-06	16	ND	11/28/91	0.40	12/15/00	ND	12/16/2003	NS	
PO-VPB-07	41	0.00	02/07/91	23.00	12/15/97	1.00	12/16/2003	1.40	
PO-VPB-08	43	0.00	09/21/90	11.00	12/15/97	9.20	12/16/2003	8.20	*
PO-VPB-09	3	ND	09/20/90	0.00	11/16/89	ND	08/19/93	NS	
PO-VPB-10	9	ND	11/16/89	1.00	10/21/94	ND	12/17/2003	NS	
PO-VPB-11	2	ND	11/16/89	ND	09/20/90	ND	09/20/90	NS	
VD-VPB-01	27	1.00	11/29/99	10.00	11/12/93	3.0	12/08/00	NS	
VD-VPB-02	39	1.00	11/30/99	6.00	05/11/93	3.30	9/19/2003	3.10	
VD-VPB-03	39	ND	09/21/90	1.10	02/27/91	ND	12/4/2003	ND	U
VD-VPB-04	40	ND	05/06/92	1.40	02/27/91	0.55	9/19/2003	NS	
VD-VPB-05	35	ND	12/02/92	2.00	11/05/93	0.80	09/09/02	NS	
VD-VPB-06	44	ND	01/11/90	0.70	11/01/94	0.42	12/4/2003	0.42	J
VD-VPB-07	38	ND	12/19/89	1.00	08/03/95	ND	12/4/2003	ND	U

* = Greater than MCL

NA = Not Analyzd

ND = Not Detected

U = Not Detected

J = Approximate Concentration

L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr

-1 = Value moved 1 conc. zone down from prev. qtr

B = Contamination found in Sample and Blank both.

TABLE 3-7

Maximum and Minimum Detected PCE Values

Second Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
CS-C01-105	43	37.00	09/11/02	300.00	10/26/94	75.00	12/12/2003	NS	
CS-C01-285	45	42.00	11/19/92	410.00	03/18/04	410.00	03/18/2004	170.00	*
CS-C01-558	9	ND	10/04/90	ND	06/10/98	ND	12/12/2003	NS	
CS-C02-062	38	12.00	12/11/00	180.00	11/08/93	42.00	03/15/2004	35.00	*
CS-C02-180	46	0.00	03/27/91	65.00	11/08/93	1.90	03/15/2004	10.00	* + 1
CS-C02-250	46	29.00	03/27/91	250.00	02/22/94	69.00	03/15/2004	81.00	*
CS-C02-335	47	0.00	05/22/90	420.00	09/16/02	230.00	12/08/2003	240.00	*
CS-C03-100	45	ND	02/15/93	97.00	03/25/03	64.00	03/15/2004	81.00	*
CS-C03-325	17	ND	05/17/90	1.00	12/08/99	0.69	12/08/2003	NS	
CS-C03-465	40	ND	05/07/92	8.50	09/17/01	1.80	12/8/2003	2.20	
CS-C03-550	11	ND	05/17/90	ND	06/11/98	ND	12/08/2003	NS	
CS-C04-290	46	1.80	09/19/03	14.00	06/15/98	11.00	03/18/2004	11.00	*
CS-C04-382	45	5.10	09/19/03	20.00	06/10/04	14.00	03/18/2004	20.00	*
CS-C04-520	11	ND	05/25/90	ND	06/15/98	ND	12/10/2003	NS	
CS-C05-160	45	ND	02/02/92	5.00	03/07/02	3.80	03/18/2004	3.90	J
CS-C05-290	45	ND	12/13/95	19.00	06/11/03	14.00	03/18/2004	19.00	*
CS-C06-185	37	ND	05/15/90	3.50	06/11/03	3.00	03/17/2004	2.80	
CS-C06-278	10	ND	05/14/90	ND	06/18/98	1.0	12/12/2000	NS	
CS-VPB-01	27	0.00	09/28/90	220.00	06/05/03	160.00	03/12/2004	180.00	*
CS-VPB-02	43	ND	09/11/89	36.00	11/08/93	2.10	03/11/2004	1.90	
CS-VPB-03	24	ND	12/11/90	1.00	10/20/94	ND	03/11/2004	ND	U
CS-VPB-04	41	17.00	03/26/96	300.00	03/18/04	300.00	03/18/2004	210.00	*
CS-VPB-05	46	0.00	09/12/89	65.00	03/07/02	33.00	03/18/2004	39.00	*
CS-VPB-06	44	0.00	05/15/90	14.00	10/27/94	7.50	03/17/2004	7.50	*
CS-VPB-07	43	ND	09/26/90	79.00	03/12/98	40.00	03/18/2004	ND	U
CS-VPB-08	34	ND	09/28/90	96.00	12/15/03	84.00	03/18/2004	62.00	*
CS-VPB-09	26	ND	09/27/89	52.00	03/08/02	5.30	03/11/2004	5.30	*
CS-VPB-10	44	ND	09/15/89	54.00	09/19/01	28.00	03/18/2004	28.00	*
CS-VPB-11	37	9.00	10/07/98	45.00	09/15/89	11.00	01/06/2003	NS	
NH-C01-325	39	ND	01/29/92	71.00	07/24/96	6.00	03/19/2003	NS	
NH-C01-450	13	ND	04/30/92	9.00	12/10/01	9.00	12/10/2001	NS	
NH-C01-660	12	ND	08/17/90	0.09	12/10/02	0.09	12/10/2002	NS	
NH-C01-780	12	ND	08/16/90	0.10	12/10/02	0.10	12/10/2002	NS	
NH-C02-220	29	ND	08/15/90	1.00	03/20/96	0.50	06/13/2001	NS	
NH-C02-325	38	0.00	07/20/90	29.00	11/15/93	2.40	03/16/2004	2.60	
NH-C02-520	38	ND	07/20/90	8.00	11/03/93	2.40	03/16/2004	2.10	
NH-C02-681	10	ND	08/14/90	ND	06/09/98	ND	12/09/2003	NS	
NH-C03-380	38	ND	05/24/90	13.00	06/08/04	4.40	03/16/2004	13.00	* +1
NH-C03-580	46	ND	05/23/90	32.00	07/29/92	24.00	03/16/2004	22.00	*
NH-C03-680	13	ND	05/23/90	2.00	12/11/02	2.00	12/03/2003	0.33	J
NH-C03-800	13	ND	05/22/90	0.40	12/03/03	0.40	12/03/2003	NS	
NH-C04-240	43	ND	07/18/90	2.00	03/11/98	ND	03/10/2004	NS	
NH-C04-375	11	ND	07/18/90	ND	06/10/98	ND	12/03/2003	NS	
NH-C04-560	11	ND	07/17/90	ND	06/10/98	ND	12/03/2003	NS	
NH-C05-320	6	ND	02/08/91	0.00	01/30/91	ND	12/04/2000	NS	
NH-C05-460	12	ND	01/28/91	15.00	12/02/03	15.00	12/02/2003	3.60	-1
NH-C06-160	42	ND	01/22/91	1.10	09/21/01	0.63	03/11/2004	0.64	
NH-C06-285	10	ND	01/24/91	3.00	06/03/04	2.50	12/05/2003	3.00	
NH-C06-425	10	ND	05/02/92	0.90	12/12/02	ND	12/05/2003	NS	

TABLE 3-7

Maximum and Minimum Detected PCE Values

Second Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
NH-VPB-01	41	ND	11/20/92	350.00	11/09/93	24.00	12/12/2003	23.00	*
NH-VPB-02	18	ND	09/07/90	3.00	12/10/02	1.60	09/19/2003	NS	
NH-VPB-03	12	ND	07/25/89	ND	06/23/98	ND	09/19/2003	NS	
NH-VPB-04	8	ND	08/01/89	ND	06/23/98	ND	12/13/2001	NS	
NH-VPB-05	42	ND	07/13/89	20.00	05/05/95	0.22	03/12/2004	0.25	J
NH-VPB-06	18	ND	07/11/89	4.00	12/18/96	1.0	10/12/1998	NS	
NH-VPB-07	28	ND	07/31/89	54.00	11/11/92	7.0	12/01/1999	NS	
NH-VPB-08	45	ND	01/30/92	4.00	09/17/97	2.50	03/16/2004	2.20	
NH-VPB-09	32	ND	07/25/95	5.00	09/14/00	4.0	03/06/2001	NS	
NH-VPB-10	8	ND	07/19/89	1.00	10/31/94	ND	06/22/1998	NS	
NH-VPB-11	8	ND	09/05/89	0.30	12/04/95	ND	06/22/1998	NS	
NH-VPB-12	13	ND	07/18/89	1.00	10/20/94	ND	12/13/2001	NS	
NH-VPB-13	8	ND	09/06/90	0.20	10/19/94	ND	06/23/1998	NS	
NH-VPB-14	27	ND	09/06/90	250.00	03/11/98	5.0	12/02/1999	NS	
PO-C01-195	20	ND	09/26/90	1.00	01/07/03	0.81	12/12/2003	0.92	
PO-C01-354	12	ND	08/29/90	0.04	01/07/03	0.04	01/07/2003	NS	
PO-C02-053	39	ND	08/27/90	4.00	11/11/93	1.50	03/12/2004	1.60	
PO-C02-205	17	ND	05/14/92	3.00	04/01/91	0.37	12/17/2003	NS	
PO-C03-182	43	ND	08/29/90	21.00	10/28/94	1.50	03/17/2004	1.60	
PO-C03-235	36	ND	08/28/90	2.00	12/15/97	1.40	03/17/2004	NS	
PO-VPB-01	42	ND	02/03/92	5.00	11/09/89	0.50	03/17/2004	0.55	
PO-VPB-02	43	45.00	09/12/97	190.00	11/11/93	100.00	03/17/2004	96.00	*
PO-VPB-03	44	2.00	10/28/94	46.00	11/14/98	8.20	03/17/2004	9.00	*
PO-VPB-04	2	0.00	11/14/89	0.00	09/20/90	ND	12/04/1992	NS	
PO-VPB-05	36	ND	11/09/89	0.70	12/18/97	ND	03/12/2004	NS	
PO-VPB-06	16	ND	11/28/91	0.40	12/15/00	ND	12/16/2003	NS	
PO-VPB-07	42	0.00	02/07/91	23.00	12/15/97	1.40	03/17/2004	1.40	
PO-VPB-08	44	0.00	09/21/90	11.00	12/15/97	8.20	03/17/2004	8.70	*
PO-VPB-09	3	ND	09/20/90	0.00	11/16/89	ND	08/19/1993	NS	
PO-VPB-10	9	ND	11/16/89	1.00	10/21/94	ND	12/17/2003	NS	
PO-VPB-11	2	ND	11/16/89	ND	09/20/90	ND	09/20/1990	NS	
VD-VPB-01	27	1.00	11/29/99	10.00	11/12/93	3.0	12/08/2000	NS	
VD-VPB-02	40	1.00	11/30/99	6.00	05/11/93	3.10	03/19/2004	3.10	
VD-VPB-03	40	ND	09/21/90	1.10	02/27/91	ND	03/10/2004	ND	U
VD-VPB-04	40	ND	05/06/92	1.40	02/27/91	0.55	9/19/2003	NS	
VD-VPB-05	35	ND	12/02/92	2.00	11/05/93	0.80	09/09/2002	NS	
VD-VPB-06	45	ND	01/11/90	0.70	11/01/94	0.42	03/10/2004	0.39	J
VD-VPB-07	39	ND	12/19/89	1.00	08/03/95	ND	03/10/2004	ND	U

* = Greater than MCL

NA = Not Analyzd

ND = Not Detected

U = Not Detected

J = Approximate Concentration

L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr

-1 = Value moved 1 conc. zone down from prev. qtr

B = Contamination found in Sample and Blank both.

TABLE 3-8

Maximum and Minimum Detected PCE Values

Third Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	43	37.00	09/11/02	300.00	10/26/1994	75.00	12/12/2003	NS		
CS-C01-285	46	42.00	11/19/92	410.00	03/18/2004	170.00	06/08/2004	210.00	*	09/23/2004
CS-C01-558	9	ND	10/04/90	ND	06/10/1998	ND	12/12/2003	NS		
CS-C02-062	39	12.00	12/11/00	180.00	11/08/1993	35.00	06/07/2004	51.00	* +1	09/27/2004
CS-C02-180	47	0.00	03/27/91	65.00	11/08/1993	10.00	06/07/2004	5.50	*	09/27/2004
CS-C02-250	47	29.00	03/27/91	250.00	02/22/1994	81.00	06/07/2004	82.00	*	09/27/2004
CS-C02-335	48	0.00	05/22/90	420.00	09/16/2002	240.00	06/07/2004	260.00	*	09/27/2004
CS-C03-100	46	ND	02/15/93	97.00	03/25/2003	81.00	06/07/2004	87.00	*	09/24/2004
CS-C03-325	17	ND	05/17/90	1.00	12/08/1999	0.69	12/08/2003	NS		
CS-C03-465	41	ND	05/07/92	8.50	09/17/2001	2.20	06/07/2004	2.00		09/28/2004
CS-C03-550	11	ND	05/17/90	ND	06/11/1998	ND	12/08/2003	NS		
CS-C04-290	47	1.80	09/19/03	14.00	06/15/1998	11.00	06/10/2004	11.00	*	09/27/2004
CS-C04-382	46	5.10	09/19/03	20.00	06/10/2004	20.00	06/10/2004	17.00	*	09/27/2004
CS-C04-520	11	ND	05/25/90	ND	06/15/1998	ND	12/10/2003	NS		
CS-C05-160	46	ND	02/02/92	5.00	03/07/2002	3.90	06/10/2004	7.80	* +1	09/23/2004
CS-C05-290	46	ND	12/13/95	19.00	06/11/2003	19.00	06/10/2004	13.00	*	09/23/2004
CS-C06-185	38	ND	05/15/90	3.50	06/11/2003	2.80	06/09/2004	2.70		09/27/2004
CS-C06-278	10	ND	05/14/90	ND	06/18/1998	1.0	12/12/2000	NS		
CS-VPB-01	28	0.00	09/28/90	220.00	09/23/2004	180.00	06/02/2004	220.00	*	09/23/2004
CS-VPB-02	43	ND	09/11/89	36.00	11/08/1993	1.90	06/02/2004	NS		
CS-VPB-03	25	ND	12/11/90	1.00	10/20/1994	ND	03/11/2004	0.27	J	09/23/2004
CS-VPB-04	42	17.00	03/26/96	300.00	03/18/2004	210.00	06/10/2004	220.00	*	09/24/2004
CS-VPB-05	47	0.00	09/12/89	65.00	03/07/2002	33.00	03/18/2004	41.00	* J	09/23/2004
CS-VPB-06	45	0.00	05/15/90	14.00	10/27/1994	7.50	03/17/2004	9.00	* J	09/24/2004
CS-VPB-07	43	ND	09/26/90	79.00	03/12/1998	40.00	03/18/2004	NS		
CS-VPB-08	35	ND	09/28/90	96.00	12/15/2003	62.00	06/10/2004	78.00	*	09/24/2004
CS-VPB-09	27	ND	09/27/89	52.00	03/08/2002	5.30	06/02/2004	5.50	*	09/23/2004
CS-VPB-10	45	ND	09/15/89	54.00	09/19/2001	28.00	06/10/2004	43.00	*	09/27/2004
CS-VPB-11	37	9.00	10/07/98	45.00	09/15/1989	11.00	01/06/2003	NS		
NH-C01-325	40	ND	01/29/92	71.00	07/24/1996	6.00	03/19/2003	2.20	-1	09/22/2004
NH-C01-450	13	ND	04/30/92	9.00	12/10/2001	9.00	12/10/2001	NS		
NH-C01-660	12	ND	08/17/90	0.09	12/10/2002	0.09	12/10/2002	NS		
NH-C01-780	12	ND	08/16/90	0.10	12/10/2002	0.10	12/10/2002	NS		
NH-C02-220	29	ND	08/15/90	1.00	03/20/1996	0.50	06/13/2001	NS		
NH-C02-325	38	0.00	07/20/90	29.00	11/15/1993	2.60	06/10/2004	NS		
NH-C02-520	39	ND	07/20/90	8.00	11/03/1993	2.10	06/10/2004	1.70	J	09/22/2004
NH-C02-681	10	ND	08/14/90	ND	06/09/1998	ND	12/09/2003	NS		
NH-C03-380	39	ND	05/24/90	20.00	09/22/2004	13.00	06/08/2004	20.00	*	09/22/2004
NH-C03-580	47	ND	05/23/90	33.00	09/22/2004	22.00	06/08/2004	33.00	*	09/22/2004
NH-C03-680	14	ND	05/23/90	2.00	12/11/2002	0.33	06/08/2004	0.24	J	08/31/2004
NH-C03-800	13	ND	05/22/90	0.40	12/03/2003	0.40	12/03/2003	NS		
NH-C04-240	43	ND	07/18/90	2.00	03/11/1998	ND	03/10/2004	NS		
NH-C04-375	11	ND	07/18/90	ND	06/10/1998	ND	12/03/2003	NS		
NH-C04-560	11	ND	07/17/90	ND	06/10/1998	ND	12/03/2003	NS		
NH-C05-320	6	ND	02/08/91	0.00	01/30/1991	ND	12/04/2000	NS		
NH-C05-460	13	ND	01/28/91	15.00	12/02/2003	3.60	06/04/2004	12.00	* +1	09/22/2004
NH-C06-160	43	ND	01/22/91	1.10	09/21/2001	0.64	06/03/2004	0.62		08/31/2004
NH-C06-285	11	ND	01/24/91	4.00	08/31/2004	3.00	06/03/2004	4.00		08/31/2004
NH-C06-425	10	ND	05/02/92	0.90	12/12/2002	ND	12/05/2003	NS		

TABLE 3-8

Maximum and Minimum Detected PCE Values

Third Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-VPB-01	42	ND	11/20/92	350.00	11/09/1993	23.00	06/08/2004	23.00	*	09/23/2004
NH-VPB-02	18	ND	09/07/90	3.00	12/10/2002	1.60	09/19/2003	NS		
NH-VPB-03	12	ND	07/25/89	ND	06/23/1998	ND	09/19/2003	NS		
NH-VPB-04	8	ND	08/01/89	ND	06/23/1998	ND	12/13/2001	NS		
NH-VPB-05	43	ND	07/13/89	20.00	05/05/1995	0.25	06/04/2004	0.26	J	08/31/2004
NH-VPB-06	18	ND	07/11/89	4.00	12/18/1996	1.0	10/12/1998	NS		
NH-VPB-07	28	ND	07/31/89	54.00	11/11/1992	7.0	12/01/1999	NS		
NH-VPB-08	46	ND	01/30/92	4.00	09/17/1997	2.20	06/08/2004	1.70		09/22/2004
NH-VPB-09	32	ND	07/25/95	5.00	09/14/2000	4.0	03/06/2001	NS		
NH-VPB-10	8	ND	07/19/89	1.00	10/31/1994	ND	06/22/1998	NS		
NH-VPB-11	8	ND	09/05/89	0.30	12/04/1995	ND	06/22/1998	NS		
NH-VPB-12	13	ND	07/18/89	1.00	10/20/1994	ND	12/13/2001	NS		
NH-VPB-13	8	ND	09/06/90	0.20	10/19/1994	ND	06/23/1998	NS		
NH-VPB-14	27	ND	09/06/90	250.00	03/11/1998	5.0	12/02/1999	NS		
PO-C01-195	21	ND	09/26/90	1.00	01/07/2003	0.92	06/09/2004	0.77		09/28/2004
PO-C01-354	12	ND	08/29/90	0.04	01/07/2003	0.04	01/07/2003	NS		
PO-C02-053	40	ND	08/27/90	4.00	11/11/1993	1.60	06/04/2004	1.40		09/01/2004
PO-C02-205	17	ND	05/14/92	3.00	04/01/1991	0.37	12/17/2003	NS		
PO-C03-182	43	ND	08/29/90	21.00	10/28/1994	1.60	06/09/2004	1.50		09/01/2004
PO-C03-235	36	ND	08/28/90	2.00	12/15/1997	1.40	03/17/2004	NS		
PO-VPB-01	43	ND	02/03/92	5.00	11/09/1989	0.55	06/09/2004	0.52		09/01/2004
PO-VPB-02	44	45.00	09/12/97	190.00	11/11/1993	96.00	06/09/2004	85.00	*	09/28/2004
PO-VPB-03	45	2.00	10/28/94	46.00	11/14/1998	9.00	06/09/2004	6.80	*	09/28/2004
PO-VPB-04	2	0.00	11/14/89	0.00	09/20/1990	ND	12/04/1992	NS		
PO-VPB-05	36	ND	11/09/89	0.70	12/18/1997	ND	03/12/2004	NS		
PO-VPB-06	16	ND	11/28/91	0.40	12/15/2000	ND	12/16/2003	NS		
PO-VPB-07	42	0.00	02/07/91	23.00	12/15/1997	1.40	06/09/2004	NS		
PO-VPB-08	45	0.00	09/21/90	11.00	09/24/2004	8.70	06/09/2004	11.00	* J	09/24/2004
PO-VPB-09	3	ND	09/20/90	0.00	11/16/1989	ND	08/19/1993	NS		
PO-VPB-10	9	ND	11/16/89	1.00	10/21/1994	ND	12/17/2003	NS		
PO-VPB-11	2	ND	11/16/89	ND	09/20/1990	ND	09/20/1990	NS		
VD-VPB-01	27	1.00	11/29/99	10.00	11/12/1993	3.0	12/08/2000	NS		
VD-VPB-02	41	1.00	11/30/99	6.00	05/11/1993	3.10	06/02/2004	3.20	J	09/02/2004
VD-VPB-03	40	ND	09/21/90	1.10	02/27/1991	ND	03/10/2004	NS	J	
VD-VPB-04	41	ND	05/06/92	1.40	02/27/1991	0.55	9/19/2003	0.12		09/02/2004
VD-VPB-05	35	ND	12/02/92	2.00	11/05/1993	0.80	09/09/2002	NS		
VD-VPB-06	46	ND	01/11/90	0.70	11/01/1994	0.39	06/02/2004	0.44		09/01/2004
VD-VPB-07	40	ND	12/19/89	1.00	08/03/1995	ND	03/10/2004	0.12		09/01/2004

* = Greater than MCL

NA = Not Analyzd

ND = Not Detected

U = Not Detected

J = Approximate Concentration

L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr

-1 = Value moved 1 conc. zone down from prev. qtr

B = Contamination found in Sample and Blank both.

TABLE 3-9

Maximum and Minimum Detected PCE Values

Fourth Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
CS-C01-105	43	37.00	09/11/2002	300.00	10/26/1994	75.00	12/12/2003	NS	
CS-C01-285	47	42.00	11/19/1992	410.00	03/18/2004	210.00	09/23/2004	250.00	*
CS-C01-558	10	ND	10/04/1990	ND	06/10/1998	ND	12/12/2003	ND	U
CS-C02-062	40	12.00	12/11/2000	180.00	11/08/1993	51.00	09/27/2004	43.00	* -1
CS-C02-180	48	0.00	03/27/1991	65.00	11/08/1993	5.50	09/27/2004	7.40	*
CS-C02-250	48	29.00	03/27/1991	250.00	02/22/1994	82.00	09/27/2004	88.00	*
CS-C02-335	49	0.00	05/22/1990	420.00	09/16/2002	260.00	09/27/2004	350.00	*
CS-C03-100	47	ND	02/15/1993	97.00	03/25/2003	87.00	09/24/2004	53.00	*
CS-C03-325	18	ND	05/17/1990	1.00	12/08/1999	0.69	12/08/2003	0.64	
CS-C03-465	42	ND	05/07/1992	8.50	09/17/2001	2.00	09/28/2004	1.40	
CS-C03-550	12	ND	05/17/1990	ND	06/11/1998	ND	12/08/2003	ND	U
CS-C04-290	48	1.80	09/19/2003	14.00	06/15/1998	11.00	09/27/2004	9.90	*
CS-C04-382	47	5.10	09/19/2003	20.00	06/10/2004	17.00	09/27/2004	19.00	*
CS-C04-520	12	ND	05/25/1990	ND	06/15/1998	ND	12/10/2003	ND	U
CS-C05-160	47	ND	02/02/1992	5.00	03/07/2002	7.80	09/23/2004	0.57	-1
CS-C05-290	47	ND	12/13/1995	19.00	06/11/2003	13.00	09/23/2004	11.00	*
CS-C06-185	39	ND	05/15/1990	3.50	06/11/2003	2.70	09/27/2004	1.50	
CS-C06-278	11	ND	05/14/1990	ND	06/18/1998	1.0	12/12/2000	ND	U
CS-VPB-01	29	0.00	09/28/1990	220.00	09/23/2004	220.00	09/23/2004	210.00	*
CS-VPB-02	44	ND	09/11/1989	36.00	11/08/1993	1.90	06/02/2004	1.90	
CS-VPB-03	26	ND	12/11/1990	1.00	10/20/1994	0.27	09/23/2004	ND	U
CS-VPB-04	43	17.00	03/26/1996	300.00	03/18/2004	220.00	09/24/2004	120.00	* J
CS-VPB-05	48	0.00	09/12/1989	65.00	03/07/2002	41.00	09/23/2004	32.00	*
CS-VPB-06	46	0.00	05/15/1990	14.00	10/27/1994	9.00	09/24/2004	5.60	* J
CS-VPB-07	44	ND	09/26/1990	79.00	03/12/1998	40.00	03/18/2004	ND	U
CS-VPB-08	36	ND	09/28/1990	96.00	12/15/2003	78.00	09/24/2004	59.00	*
CS-VPB-09	28	ND	09/27/1989	52.00	03/08/2002	5.50	09/23/2004	3.60	-1
CS-VPB-10	46	ND	09/15/1989	54.00	09/19/2001	43.00	09/27/2004	18.00	*
CS-VPB-11	37	9.00	10/07/1998	45.00	09/15/1989	11.00	01/06/2003	NS	
NH-C01-325	40	ND	01/29/1992	71.00	07/24/1996	2.20	09/22/2004	NS	
NH-C01-450	13	ND	04/30/1992	9.00	12/10/2001	9.00	12/10/2001	NS	
NH-C01-660	13	ND	08/17/1990	0.09	12/10/2002	0.09	12/10/2002	ND	U
NH-C01-780	13	ND	08/16/1990	0.10	12/10/2002	0.10	12/10/2002	ND	U
NH-C02-220	29	ND	08/15/1990	1.00	03/20/1996	0.50	06/13/2001	NS	
NH-C02-325	39	0.00	07/20/1990	29.00	11/15/1993	2.60	06/10/2004	1.60	
NH-C02-520	40	ND	07/20/1990	8.00	11/03/1993	1.70	09/22/2004	1.80	
NH-C02-681	11	ND	08/14/1990	ND	06/09/1998	ND	12/09/2003	ND	U
NH-C03-380	40	ND	05/24/1990	20.00	09/22/2004	20.00	09/22/2004	10.00	*
NH-C03-580	48	ND	05/23/1990	33.00	09/22/2004	33.00	09/22/2004	15.00	*
NH-C03-680	15	ND	05/23/1990	2.00	12/11/2002	0.24	08/31/2004	ND	U
NH-C03-800	14	ND	05/22/1990	0.40	12/03/2003	0.40	12/03/2003	ND	U
NH-C04-240	44	ND	07/18/1990	2.00	03/11/1998	ND	03/10/2004	ND	U
NH-C04-375	12	ND	07/18/1990	ND	06/10/1998	ND	12/03/2003	ND	U
NH-C04-560	12	ND	07/17/1990	ND	06/10/1998	ND	12/03/2003	ND	U
NH-C05-320	6	ND	02/08/1991	0.00	01/30/1991	ND	12/04/2000	NS	
NH-C05-460	14	ND	01/28/1991	15.00	12/02/2003	12.00	09/22/2004	2.60	-1
NH-C06-160	44	ND	01/22/1991	1.10	09/21/2001	0.62	08/31/2004	0.45	J
NH-C06-285	12	ND	01/24/1991	4.00	08/31/2004	4.00	08/31/2004	2.60	
NH-C06-425	11	ND	05/02/1992	0.90	12/12/2002	ND	12/05/2003	ND	U
NH-VPB-01	43	ND	11/20/1992	350.00	11/09/1993	23.00	09/23/2004	16.00	*
NH-VPB-02	18	ND	09/07/1990	3.00	12/10/2002	1.60	09/19/2003	NS	
NH-VPB-03	12	ND	07/25/1989	ND	06/23/1998	ND	09/19/2003	NS	

TABLE 3-9

Maximum and Minimum Detected PCE Values

Fourth Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l	
NH-VPB-04	8	ND	08/01/1989	ND	06/23/1998	ND	12/13/2001	NS	
NH-VPB-05	44	ND	07/13/1989	20.00	05/05/1995	0.26	08/31/2004	0.27	J
NH-VPB-06	18	ND	07/11/1989	4.00	12/18/1996	1.0	10/12/1998	NS	
NH-VPB-07	28	ND	07/31/1989	54.00	11/11/1992	7.0	12/01/1999	NS	
NH-VPB-08	47	ND	01/30/1992	4.00	09/17/1997	1.70	09/22/2004	1.10	
NH-VPB-09	32	ND	07/25/1995	5.00	09/14/2000	4.0	03/06/2001	NS	
NH-VPB-10	9	ND	07/19/1989	1.00	10/31/1994	ND	06/22/1998	ND	U
NH-VPB-11	8	ND	09/05/1989	0.30	12/04/1995	ND	06/22/1998	NS	
NH-VPB-12	13	ND	07/18/1989	1.00	10/20/1994	ND	12/13/2001	NS	
NH-VPB-13	8	ND	09/06/1990	0.20	10/19/1994	ND	06/23/1998	NS	
NH-VPB-14	27	ND	09/06/1990	250.00	03/11/1998	5.0	12/02/1999	NS	
PO-C01-195	22	ND	09/26/1990	1.20	12/20/2004	0.77	09/28/2004	1.20	
PO-C01-354	13	ND	08/29/1990	0.04	01/07/2003	0.04	01/07/2003	ND	U
PO-C02-053	41	ND	08/27/1990	4.00	11/11/1993	1.40	09/01/2004	1.20	
PO-C02-205	18	ND	05/14/1992	3.00	04/01/1991	0.37	12/17/2003	ND	U
PO-C03-182	44	ND	08/29/1990	21.00	10/28/1994	1.60	06/09/2004	1.00	
PO-C03-235	37	ND	08/28/1990	2.00	12/15/1997	1.40	03/17/2004	0.84	
PO-VPB-01	44	ND	02/03/1992	5.00	11/09/1989	0.52	09/01/2004	0.43	J
PO-VPB-02	45	45.00	09/12/1997	190.00	11/11/1993	85.00	09/28/2004	110.00	* +1
PO-VPB-03	46	2.00	10/28/1994	46.00	11/14/1998	6.80	09/28/2004	7.60	*
PO-VPB-04	2	0.00	11/14/1989	0.00	09/20/1990	ND	12/04/1992	NS	
PO-VPB-05	37	ND	11/09/1989	0.70	12/18/1997	ND	03/12/2004	0.38	J
PO-VPB-06	17	ND	11/28/1991	0.40	12/15/2000	ND	12/16/2003	0.35	J
PO-VPB-07	43	0.00	02/07/1991	23.00	12/15/1997	1.40	06/09/2004	ND	U
PO-VPB-08	46	0.00	09/21/1990	11.00	09/24/2004	11.00	09/24/2004	9.60	*
PO-VPB-09	3	ND	09/20/1990	0.00	11/16/1989	ND	08/19/1993	NS	
PO-VPB-10	9	ND	11/16/1989	1.00	10/21/1994	ND	12/17/2003	NS	
PO-VPB-11	2	ND	11/16/1989	ND	09/20/1990	ND	09/20/1990	NS	
VD-VPB-01	27	1.00	11/29/1999	10.00	11/12/1993	3.0	12/08/2000	NS	
VD-VPB-02	41	1.00	11/30/1999	6.00	05/11/1993	3.20	09/02/2004	NS	
VD-VPB-03	41	ND	09/21/1990	1.10	02/27/1991	ND	03/10/2004	ND	U
VD-VPB-04	41	ND	05/06/1992	1.40	02/27/1991	0.12	09/02/2004	NS	
VD-VPB-05	35	ND	12/02/1992	2.00	11/05/1993	0.80	09/09/2002	NS	
VD-VPB-06	47	ND	01/11/1990	0.70	11/01/1994	0.44	09/01/2004	0.24	J
VD-VPB-07	41	ND	12/19/1989	1.00	08/03/1995	0.12	09/01/2004	ND	U

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-10
Summary of PCE Values
First, Second, Third, and Fourth Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	1st Qtr.			2nd Qtr.			3rd. Qtr			4th Qtr.		
	Sample	Value		Sample	Value		Sample	Value		Sample	Value	
NSme	Date	µg/l		Date	µg/l		Date	µg/l		Date	µg/l	
CS-C01-105	NS			NS			NS			NS		
CS-C01-285	03/18/04	410.00	*	06/08/04	170.00	*	09/23/04	210.00	*	12/14/04	250.00	*
CS-C01-558	NS			NS			NS			12/02/04	ND	U
CS-C02-062	03/15/04	42.00	-1	06/07/04	35.00	*	09/27/04	51.00	* -1	12/15/04	43.00	* -1
CS-C02-180	03/15/04	1.90	-1	06/07/04	10.00	* + 1	09/27/04	5.50	*	12/15/04	7.40	*
CS-C02-250	03/15/04	69.00	* -1	06/07/04	81.00	*	09/27/04	82.00	*	12/15/04	88.00	*
CS-C02-335	03/15/04	230.00	*	06/07/04	240.00	*	09/27/04	260.00	*	12/15/04	350.00	*
CS-C03-100	03/15/04	64.00	* -1	06/07/04	81.00	*	09/24/04	87.00	*	12/17/04	53.00	*
CS-C03-325	NS			NS			NS			12/02/04	0.64	
CS-C03-465	03/15/04	ND	U	06/07/04	2.20	E	09/28/04	2.00		12/10/04	1.40	
CS-C03-550	NS			NS			NS			12/02/04	ND	U
CS-C04-290	03/18/04	11.00	*	06/10/04	11.00	*	09/27/04	11.00	*	12/16/04	9.90	*
CS-C04-382	03/18/04	14.00	*	06/10/04	20.00	*	09/27/04	17.00	*	12/16/04	19.00	*
CS-C04-520	NS			NS			NS			12/02/04	ND	U
CS-C05-160	03/18/04	3.80	J	06/10/04	3.90	J	09/23/04	7.80	* +1	12/17/04	0.57	-1
CS-C05-290	03/18/04	14.00	*	06/10/04	19.00	*	09/23/04	13.00	*	12/17/04	11.00	*
CS-C06-185	03/17/04	3.00		06/09/04	2.80		09/27/04	2.70		12/17/04	1.50	
CS-C06-278	NS			NS			NS			12/06/04	ND	U
CS-VPB-01	03/12/04	160.00	*	06/02/04	180.00	*	09/23/04	220.00	*	12/15/04	210.00	*
CS-VPB-02	03/11/04	2.10		06/02/04	1.90		NS			12/15/04	1.90	
CS-VPB-03	03/11/04	ND	U	06/03/04	ND	U	09/23/04	0.27	J	12/16/04	ND	U
CS-VPB-04	03/18/04	300.00	*	06/10/04	210.00	*	09/24/04	220.00	*	12/16/04	120.00	* J
CS-VPB-05	03/18/04	33.00	*	06/10/04	39.00	*	09/23/04	41.00	* J	12/17/04	32.00	*
CS-VPB-06	03/17/04	7.50	*	06/09/04	7.50	*	09/24/04	9.00	* J	12/17/04	5.60	* J
CS-VPB-07	03/18/04	40.00	*	06/08/04	ND	U	NS	NS		12/17/04	ND	U
CS-VPB-08	03/18/04	84.00	*	06/10/04	62.00	*	09/24/04	78.00	*	12/16/04	59.00	*
CS-VPB-09	03/11/04	5.30	*	06/02/04	5.30	*	09/23/04	5.50	*	12/16/04	3.60	-1
CS-VPB-10	03/18/04	28.00	*	06/10/04	28.00	*	09/27/04	43.00	*	12/17/04	18.00	*
CS-VPB-11	NS			NS			NS			NS		
NH-C01-325	NS			NS			09/22/04	2.20	-1	NS		
NH-C01-450	NS			NS			NS			NS		
NH-C01-660	NS			NS			NS			11/30/04	ND	U
NH-C01-780	NS			NS			NS			11/30/04	ND	U
NH-C02-220	NS			NS			NS			NS		
NH-C02-325	03/16/04	2.40		06/10/04	2.60		NS	NS		12/13/04	1.60	
NH-C02-520	03/16/04	2.40		06/10/04	2.10		09/22/04	1.70	J	12/13/04	1.80	
NH-C02-681	NS			NS			NS			12/01/04	ND	U
NH-C03-380	03/16/04	4.40		06/08/04	13.00	* +1	09/22/04	20.00	*	12/13/04	10.00	*
NH-C03-580	03/16/04	24.00	*	06/08/04	22.00	*	09/22/04	33.00	*	12/13/04	15.00	*
NH-C03-680	NS	NS		06/08/04	0.33	J	08/31/04	0.24	J	12/13/04	ND	U
NH-C03-800	NS			NS			NS			12/03/04	ND	U
NH-C04-240	03/10/04	ND	U	NS	NS		NS	NS		12/03/04	ND	U
NH-C04-375	NS			NS			NS			12/03/04	ND	U
NH-C04-560	NS			NS			NS			12/03/04	ND	U
NH-C05-320	NS			NS			NS			NS		

TABLE 3-10
Summary of PCE Values
First, Second, Third, and Fourth Quarters 2004
San Fernando Valley Groundwater Monitoring Program

Well	1st Qtr.			2nd Qtr.			3rd. Qtr			4th Qtr.		
NSme	Sample Date	Value µg/l		Sample Date	Value µg/l		Sample Date	Value µg/l		Sample Date	Value µg/l	
NH-C05-460	NS	NS		06/04/04	3.60	-1	09/22/04	12.00	* +1	12/13/04	2.60	-1
NH-C06-160	03/11/04	0.63		06/03/04	0.64		08/31/04	0.62		12/01/04	0.45	J
NH-C06-285	NS	NS		06/03/04	3.00		08/31/04	4.00		12/14/04	2.60	
NH-C06-425	NS			NS			NS			12/01/04	ND	U
NH-VPB-01	NS	NS		06/08/04	23.00	*	09/23/04	23.00	*	12/14/04	16.00	*
NH-VPB-02	NS			NS			NS			NS		
NH-VPB-03	NS			NS			NS			NS		
NH-VPB-04	NS			NS			NS			NS		
NH-VPB-05	03/12/04	0.22	J	06/04/04	0.25	J	08/31/04	0.26	J	12/01/04	0.27	J
NH-VPB-06	NS			NS			NS			NS		
NH-VPB-07	NS			NS			NS			NS		
NH-VPB-08	03/16/04	2.50		06/08/04	2.20		09/22/04	1.70		12/13/04	1.10	
NH-VPB-09	NS			NS			NS			NS		
NH-VPB-10	NS			NS			NS			12/14/04	ND	U
NH-VPB-11	NS			NS			NS			NS		
NH-VPB-12	NS			NS			NS			NS		
NH-VPB-13	NS			NS			NS			NS		
NH-VPB-14	NS			NS			NS			NS		
PO-C01-195	NS			06/09/04	0.92		09/28/04	0.77		12/20/04	1.20	
PO-C01-354	NS			NS			NS			12/06/04	ND	U
PO-C02-053	03/12/04	1.50		06/04/04	1.60		09/01/04	1.40		12/06/04	1.20	
PO-C02-205	NS			NS			NS			12/06/04	ND	U
PO-C03-182	03/17/04	1.50		06/09/04	1.60		NS			12/08/04	1.00	
PO-C03-235	03/17/04	1.40		NS			NS			12/08/04	0.84	
PO-VPB-01	03/17/04	0.50		06/09/04	0.55		09/01/04	0.52		12/07/04	0.43	J
PO-VPB-02	03/17/04	100.00	*	06/09/04	96.00	*	09/28/04	85.00	*	12/20/04	110.00	* +1
PO-VPB-03	03/17/04	8.20	*	06/09/04	9.00	*	09/28/04	6.80	*	12/20/04	7.60	*
PO-VPB-04	NS			NS			NS			NS		
PO-VPB-05	03/12/04	ND	U	NS			NS			12/07/04	0.38	J
PO-VPB-06	NS			NS			NS			12/07/04	0.35	J
PO-VPB-07	03/17/04	1.40		06/09/04	1.40		NS			12/20/04	ND	U
PO-VPB-08	03/17/04	8.20	*	06/09/04	8.70	*	09/24/04	11.00	* J	12/20/04	9.60	*
PO-VPB-09	NS			NS			NS			NS		
PO-VPB-10	NS			NS			NS			NS		
PO-VPB-11	NS			NS			NS			NS		
VD-VPB-01	NS			NS			NS			NS		
VD-VPB-02	03/19/04	3.10		06/02/04	3.10		09/02/04	3.20	J	NS		
VD-VPB-03	03/10/04	ND	U	06/02/04	ND	U	NS	NS	J	12/09/04	ND	U
VD-VPB-04	NS			NS			09/02/04	0.12		NS		
VD-VPB-05	NS			NS			NS			NS		
VD-VPB-06	03/10/04	0.42	J	06/02/04	0.39	J	09/01/04	0.44		12/08/04	0.24	J
VD-VPB-07	03/10/04	ND	U	06/02/04	ND	U	09/01/04	0.12		12/08/04	ND	U

* = Greater than MCL
NA = Not Analyzed
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = ContamiNStion found in Sample and Blank both.

TABLE 3-11

Summary of VOCs Exceeding MCLs

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Trichloroethene 5 (µg/L) *		Tetrachloroethene 5 (µg/L) *		1,1-Dichloroethene 7 (µg/L) *		Carbon Tetrachloride 5 (µg/L) *		1,1-Dichloroethane 7 (µg/L) *	
Well ID	**Value**	**Well ID**	**Value**	**Well ID**	**Value**	**Well ID**	**Value**	**Well ID**	**Value**
CS-C01-285	450.00	CS-C01-285	410.00	CS-C02-250	120.00	CS-C02-250	11.00	CS-C02-250	10.00
CS-C02-062	58.00	CS-C02-062	42.00	CS-VPB-04	510.00	CS-VPB-04	14.00	CS-VPB-04	32.00
CS-C02-180	11.00	CS-C02-250	69.00	CS-VPB-05	110.00	CS-VPB-06	5.30	CS-VPB-05	16.00
CS-C02-250	140.00	CS-C02-335	230.00	CS-VPB-06	23.00	CS-VPB-07	30.00	CS-VPB-07	30.00
CS-C02-335	250.00	CS-C03-100	64.00	CS-VPB-07	480.00	NH-C02-520	6.80		
CS-C03-100	1200.00	CS-C04-290	11.00	PO-VPB-02	15.00				
CS-C04-290	19.00	CS-C04-382	14.00						
CS-C04-382	21.00	CS-C05-290	14.00						
CS-C05-160	110.00	CS-VPB-01	160.00						
CS-C05-290	18.00	CS-VPB-04	300.00						
CS-C06-185	7.90	CS-VPB-05	33.00						
CS-VPB-01	110.00	CS-VPB-06	7.50						
CS-VPB-02	14.00	CS-VPB-07	40.00						
CS-VPB-03	11.00	CS-VPB-08	84.00						
CS-VPB-04	1400.00	CS-VPB-09	5.30						
CS-VPB-05	600.00	CS-VPB-10	28.00						
CS-VPB-06	490.00	NH-C03-580	24.00						
CS-VPB-07	1300.00	PO-VPB-02	100.00						
CS-VPB-08	120.00	PO-VPB-03	8.20						
CS-VPB-10	6.70	PO-VPB-08	8.20						
NH-C02-325	29.00								
NH-C02-520	73.00								
NH-C03-380	5.10								
NH-C03-580	26.00								
NH-VPB-08	12.00								
PO-VPB-02	230.00								
PO-VPB-03	14.00								
PO-VPB-07	86.00								
PO-VPB-08	11.00								

* = Primary MCL

µg/L = micrograms per liter

TABLE 3-12
Summary of VOCs Exceeding MCLs
Second Quarter 2004
San Fernando Valley Groundwater Monitoring Program

Trichloroethene 5 (µg/L) *		Tetrachloroethene 5 (µg/L) *		1,1-Dichloroethene 7 (µg/L) *		Carbon Tetrachloride 5 (µg/L) *		1,1-Dichloroethane 7 (µg/L) *	
Well ID	**Value**	**Well ID**	**Value**	**Well ID**	**Value**	**Well ID**	**Value**	**Well ID**	**Value**
CS-C01-285	240.00	CS-C01-285	170.00	CS-C03-465	110.00	CS-C03-465	10.00	CS-C03-465	9.50
CS-C02-062	49.00	CS-C02-062	35.00	CS-VPB-04	540.00	CS-VPB-04	15.00	CS-VPB-04	34.00
CS-C02-180	23.00	CS-C02-180	10.00	CS-VPB-05	130.00	CS-VPB-06	5.30	CS-VPB-05	19.00
CS-C02-250	150.00	CS-C02-250	81.00	CS-VPB-06	24.00	CS-VPB-07	28.00	CS-VPB-07	34.00
CS-C02-335	250.00	CS-C02-335	240.00	CS-VPB-07	430.00	NH-C02-520	5.90		
CS-C03-100	1200.00	CS-C03-100	81.00	PO-VPB-02	14.00				
CS-C03-465	11.00	CS-C04-290	11.00						
CS-C04-290	19.00	CS-C04-382	20.00						
CS-C04-382	27.00	CS-C05-290	19.00						
CS-C05-160	99.00	CS-VPB-01	180.00						
CS-C05-290	22.00	CS-VPB-04	210.00						
CS-C06-185	7.50	CS-VPB-05	39.00						
CS-VPB-01	120.00	CS-VPB-06	7.50						
CS-VPB-02	13.00	CS-VPB-07	38.00						
CS-VPB-03	8.30	CS-VPB-08	62.00						
CS-VPB-04	5900.00	CS-VPB-09	5.30						
CS-VPB-05	800.00	CS-VPB-10	28.00						
CS-VPB-06	280.00	NH-C03-380	13.00						
CS-VPB-07	5300.00	NH-C03-580	22.00						
CS-VPB-08	89.00	NH-VPB-01	23.00						
CS-VPB-10	10.00	PO-VPB-02	96.00						
NH-C02-325	18.00	PO-VPB-03	9.00						
NH-C02-520	78.00	PO-VPB-08	8.70						
NH-C03-380	13.00								
NH-C03-580	38.00								
NH-C05-460	83.00								
NH-C06-285	46.00								
NH-VPB-01	38.00								
NH-VPB-08	8.60								
PO-C01-195	8.30								
PO-VPB-02	200.00								
PO-VPB-03	15.00								
PO-VPB-07	52.00								
PO-VPB-08	12.00								

* = Primary MCL µg/L = micrograms per liter

TABLE 3-13

Summary of VOCs Exceeding MCLs

Third Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Trichloroethene 5 (µg/L) *		**Tetrachloroethene 5 (µg/L) ***		**1,1-Dichloroethene 7 (µg/L) ***		**Carbon Tetrachloride 5 (µg/L) ***		**1,1-Dichloroethane 7 (µg/L) ***	
CS-C01-285	320.00	CS-C01-285	300.00	CS-C02-335	7.70	CS-C03-100	13.00	CS-C03-100	13.00
CS-C02-062	70.00	CS-C02-062	51.00	CS-C03-100	130.00	CS-VPB-04	20.00	CS-VPB-04	62.00
CS-C02-180	14.00	CS-C02-180	5.50	CS-VPB-04	720.00	CS-VPB-05	6.50	CS-VPB-05	26.00
CS-C02-250	140.00	CS-C02-250	86.00	CS-VPB-05	150.00	CS-VPB-06	6.20		
CS-C02-335	240.00	CS-C02-335	260.00	CS-VPB-06	33.00				
CS-C03-100	1400.00	CS-C03-100	87.00	PO-VPB-02	13.00				
CS-C03-465	8.80	CS-C04-290	11.00	PO-VPB-08	10.00				
CS-C04-290	26.00	CS-C04-382	17.00						
CS-C04-382	21.00	CS-C05-160	7.80						
CS-C05-160	170.00	CS-C05-290	13.00						
CS-C05-290	15.00	CS-VPB-01	240.00						
CS-C06-185	7.20	CS-VPB-04	270.00						
CS-VPB-01	150.00	CS-VPB-05	74.00						
CS-VPB-03	17.00	CS-VPB-06	9.00						
CS-VPB-04	7200.00	CS-VPB-08	99.00						
CS-VPB-05	940.00	CS-VPB-09	5.50						
CS-VPB-06	480.00	CS-VPB-10	43.00						
CS-VPB-08	110.00	NH-C03-380	20.00						
CS-VPB-10	13.00	NH-C03-580	33.00						
NH-C02-325	15.00	NH-C05-460	12.00						
NH-C02-520	60.00	NH-VPB-01	23.00						
NH-C03-380	20.00	PO-VPB-02	110.00						
NH-C03-580	36.00	PO-VPB-03	6.80						
NH-C05-460	80.00	PO-VPB-08	11.00						
NH-C06-285	75.00								
NH-VPB-01	51.00								
PO-C01-195	5.90								
PO-VPB-02	170.00								
PO-VPB-03	11.00								
PO-VPB-08	18.00								

TABLE 3-13

Summary of VOCs Exceeding MCLs

Third Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Trichloroethene 5 (µg/L) *	**Tetrachloroethene 5 (µg/L) ***	**1,1-Dichloroethene 7 (µg/L) ***	**Carbon Tetrachloride 5 (µg/L) ***	**1,1-Dichloroethane 7 (µg/L) ***

* = Primary MCL µg/L = micrograms per liter

TABLE 3-14
Summary of VOCs Exceeding MCLs
Fourth Quarter 2004
San Fernando Valley Groundwater Monitoring Program

Trichloroethene 5 (µg/L) *		**Tetrachloroethene 5 (µg/L) ***		**1,1-Dichloroethene 7 (µg/L) ***		**1,1-Dichloroethane 7 (µg/L) ***		**Carbon Tetrachloride 5 (µg/L) ***	
CS-C01-285	320.00	CS-C01-285	250.00	CS-C03-100	75.00	CS-C01-285	10.00	CS-C03-100	10.00
CS-C02-062	62.00	CS-C02-062	43.00	CS-VPB-04	270.00	CS-C03-100	10.00	CS-VPB-04	14.00
CS-C02-180	17.00	CS-C02-180	7.40	CS-VPB-05	72.00	CS-VPB-04	30.00	CS-VPB-07	23.00
CS-C02-250	170.00	CS-C02-250	88.00	CS-VPB-06	12.00	CS-VPB-05	17.00		
CS-C02-335	340.00	CS-C02-335	350.00	CS-VPB-07	330.00	CS-VPB-07	34.0		
CS-C03-100	1000.00	CS-C03-100	66.00						
CS-C03-465	7.40	CS-C04-290	9.90						
CS-C04-290	16.00	CS-C04-325	11.00						
CS-C04-325	16.00	CS-C04-382	19.00						
CS-C04-382	24.00	CS-C05-290	11.00						
CS-C05-160	12.00	CS-VPB-01	210.00						
CS-C05-290	11.00	CS-VPB-04	120.00						
CS-VPB-01	140.00	CS-VPB-05	35.00						
CS-VPB-03	12.00	CS-VPB-06	5.60						
CS-VPB-04	4700.00	CS-VPB-07	39.00						
CS-VPB-05	720.00	CS-VPB-08	59.00						
CS-VPB-06	310.00	CS-VPB-09	5.60						
CS-VPB-07	4300.00	CS-VPB-10	18.00						
CS-VPB-08	83.00	NH-C03-380	10.00						
CS-VPB-10	6.20	NH-C03-580	15.00						
NH-C02-325	8.60	NH-VPB-01	16.00						
NH-C02-520	72.00	PO-VPB-02	110.00						
NH-C03-380	11.00	PO-VPB-03	7.60						
NH-C03-580	16.00	PO-VPB-08	9.60						
NH-C05-460	83.00								
NH-C06-285	54.00								
NH-VPB-01	36.00								
PO-C01-195	11.00								
PO-VPB-02	210.00								
PO-VPB-03	11.00								
PO-VPB-08	13.00								

* = Primary MCL
µg/L = micrograms per liter

TABLE 3-15

Maximum and Minimum Detected Nitrate (as NO_3) Values

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	1.10	05/04/92	60.52	12/13/00	48.95	12/12/03	NS		
CS-C01-285	43	5.80	06/18/01	71.60	05/04/92	25.81	12/12/03	27.59		03/18/04
CS-C01-558	8	2.40	03/25/91	3.00	05/04/92	2.71	12/12/03	NS		
CS-C02-062	35	ND	05/08/95	71.20	05/22/90	43.17	12/08/03	44.50		03/15/04
CS-C02-180	42	2.60	06/18/01	43.60	05/21/90	11.13	12/08/03	11.57		03/15/04
CS-C02-250	42	4.90	06/18/01	32.50	05/10/93	20.03	12/08/03	20.47		03/15/04
CS-C02-335	42	8.50	06/18/01	49.00	11/20/92	33.82	12/08/03	36.49		03/15/04
CS-C03-100	44	4.54	03/11/02	57.41	12/13/00	44.50	12/08/03	48.95	* +1	03/15/04
CS-C03-325	16	1.80	12/12/96	8.90	10/20/94	8.01	12/08/03	NS		
CS-C03-465	38	0.80	06/13/01	4.90	04/03/91	4.01	12/08/03	4.23		03/15/04
CS-C03-550	12	0.90	07/20/90	8.50	12/15/95	1.07	12/08/03	NS		
CS-C04-290	42	ND	12/12/96	33.40	06/08/00	10.68	12/10/03	10.68		03/18/04
CS-C04-382	42	1.90	06/14/01	19.60	05/25/90	8.01	12/10/03	8.46		03/18/04
CS-C04-520	10	ND	05/25/92	1.50	05/07/92	1.11	12/10/03	NS		
CS-C05-160	42	3.60	06/14/01	29.40	05/10/93	19.14	12/10/03	20.47		03/18/04
CS-C05-290	44	1.90	06/14/01	23.60	03/28/91	7.57	12/10/03	7.57		03/18/04
CS-C06-185	36	1.90	06/15/01	14.20	05/15/90	8.46	12/15/03	8.90		03/17/04
CS-C06-278	9	ND	03/11/91	8.90	12/12/00	ND	12/15/03	NS		
CS-VPB-01	24	8.80	06/18/01	52.51	12/13/00	44.06	12/17/03	40.50		03/12/04
CS-VPB-02	42	9.60	06/18/01	68.10	06/12/00	44.06	12/05/03	43.61		03/11/04
CS-VPB-03	25	2.00	06/12/01	12.46	03/11/04	12.02	12/04/03	12.46		03/11/04
CS-VPB-04	37	1.70	03/12/98	58.70	08/05/92	42.72	12/10/03	44.50		03/18/04
CS-VPB-05	44	11.20	03/09/01	63.56	06/05/02	53.40	12/10/03	53.40	*	03/18/04
CS-VPB-06	44	4.50	12/11/97	53.40	05/15/90	36.05	12/15/03	36.94		03/17/04
CS-VPB-07	40	7.80	06/14/01	38.70	01/16/90	31.60	12/16/03	32.93		03/18/04
CS-VPB-08	31	10.10	01/16/90	48.60	12/03/99	36.94	12/15/03	40.05		03/18/04
CS-VPB-09	24	11.60	03/13/01	55.63	12/19/00	53.40	12/04/03	53.40	*	03/11/04
CS-VPB-10	43	11.00	06/15/01	61.90	05/13/92	48.95	12/15/03	53.40	*	03/18/04
CS-VPB-11	38	6.10	12/08/99	72.10	05/13/92	54.48	01/06/03	NS		
NH-C01-325	38	9.30	03/21/96	133.50	09/21/01	57.85	03/19/03	NS		
NH-C01-450	14	6.50	11/03/93	18.69	06/10/03	18.69	06/10/03	NS		
NH-C01-660	10	8.63	12/10/02	10.10	04/30/92	8.46	12/02/03	NS		
NH-C01-780	10	6.81	12/10/02	10.30	04/30/92	6.68	12/02/03	NS		
NH-C02-220	29	12.50	03/07/01	63.60	08/15/90	53.40	06/13/01	NS		
NH-C02-325	34	3.80	06/13/01	54.70	11/15/93	22.25	12/09/03	25.81		03/16/04
NH-C02-520	35	4.50	11/16/92	71.20	09/20/01	33.38	12/09/03	44.50		03/16/04
NH-C02-681	9	1.60	08/14/90	3.30	05/02/92	1.51	12/09/03	NS		
NH-C03-380	37	3.30	06/13/01	40.90	06/07/00	14.24	12/09/03	12.02		03/16/04
NH-C03-580	43	5.20	06/13/01	44.50	05/23/90	27.59	12/09/03	27.59		03/16/04
NH-C03-680	10	1.90	05/23/90	10.68	12/12/01	7.57	12/03/03	NS		
NH-C03-800	10	ND	05/22/90	4.50	01/11/00	3.03	12/03/03	NS		
NH-C04-240	43	ND	08/13/93	23.59	09/12/03	23.59	12/03/03	23.59		03/10/04
NH-C04-375	10	2.20	12/14/95	71.20	03/21/91	5.79	12/03/03	NS		
NH-C04-560	10	ND	01/13/00	1.90	05/03/92	0.32	12/11/02	NS		
NH-C05-320	4	62.70	12/05/95	89.00	01/30/91	67.20	06/22/98	NS		

TABLE 3-15

Maximum and Minimum Detected Nitrate (as NO_3) Values

First Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-C05-460	9	5.30	01/28/91	21.40	11/11/92	18.69	12/02/03	NS		
NH-C06-160	40	ND	09/10/02	106.80	12/06/03	106.80	12/06/03	66.75	*	03/11/04
NH-C06-285	8	22.00	01/24/91	36.50	12/07/95	36.05	12/05/03	NS		
NH-C06-425	8	4.40	01/24/91	13.40	11/17/92	10.24	12/05/03	NS		
NH-VPB-01	38	11.00	06/18/01	67.20	05/04/92	53.40	12/12/03	NS		
NH-VPB-02	16	32.60	01/17/90	80.10	09/10/03	80.10	09/10/03	NS		
NH-VPB-03	11	13.40	03/13/01	66.75	03/19/03	62.30	09/10/03	NS		
NH-VPB-04	8	38.70	11/17/92	53.40	06/23/98	48.00	01/13/00	NS		
NH-VPB-05	42	15.50	03/06/01	107.69	09/14/00	57.85	12/05/03	62.30	*	03/12/04
NH-VPB-06	19	36.90	07/30/92	98.80	12/18/96	63.60	10/12/98	NS		
NH-VPB-07	28	2.60	02/04/91	56.60	12/01/99	56.60	12/01/99	NS		
NH-VPB-08	42	6.00	06/13/01	49.00	01/30/92	28.48	12/10/03	32.49		03/16/04
NH-VPB-09	30	1.88	03/06/01	37.30	06/06/00	16.46	03/13/00	NS		
NH-VPB-10	7	ND	01/17/90	17.80	11/12/92	4.00	06/22/98	NS		
NH-VPB-11	8	1.50	01/31/91	15.10	10/19/94	4.50	06/22/98	NS		
NH-VPB-12	12	19.80	01/17/90	44.50	12/13/01	43.90	11/30/99	NS		
NH-VPB-13	7	6.70	12/04/95	101.50	09/06/90	21.80	06/23/98	NS		
NH-VPB-14	28	30.30	05/07/93	73.00	05/10/95	51.20	03/15/00	NS		
PO-C01-195	17	24.48	09/17/03	35.10	08/29/90	27.59	12/12/03	NS		
PO-C01-354	11	ND	08/27/90	0.40	06/17/98	ND	12/12/03	NS		
PO-C02-053	37	8.00	06/12/01	71.20	06/13/00	48.95	12/17/03	44.50		03/12/04
PO-C02-205	14	19.10	11/11/93	27.15	12/20/00	23.59	12/17/03	NS		
PO-C03-182	42	6.50	06/15/01	50.30	10/28/94	28.04	12/16/03	30.71		03/17/04
PO-C03-235	36	4.10	03/09/00	30.26	06/12/03	24.48	12/16/03	24.03		03/17/04
PO-VPB-01	41	9.51	03/13/01	48.50	10/03/90	40.50	12/16/03	38.72		03/17/04
PO-VPB-02	42	12.00	03/12/01	71.60	08/27/90	53.40	12/12/03	53.40	*	03/17/04
PO-VPB-03	43	11.00	06/15/01	59.02	06/07/02	53.40	12/16/03	53.40	*	03/17/04
PO-VPB-04	3	ND	09/20/90	1.80	11/14/89	1.76	11/14/89	NS		
PO-VPB-05	38	ND	11/09/89	24.50	10/07/98	1.82	12/16/03	3.78		03/12/04
PO-VPB-06	14	2.40	05/15/92	16.70	12/13/99	8.9	12/16/03	NS		
PO-VPB-07	40	8.60	16/18/01	175.33	09/20/00	44.06	12/16/03	48.95	* +1	03/17/04
PO-VPB-08	43	3.30	16/18/01	16.90	06/06/00	14.69	12/16/03	15.13		03/17/04
PO-VPB-09	3	ND	09/20/90	1.50	11/15/89	NS		NS		
PO-VPB-10	11	17.30	03/13/01	84.55	12/17/03	84.55	12/17/03	NS		
PO-VPB-11	2	ND	09/20/90	2.80	11/16/89	2.77	11/16/89	NS		
VD-VPB-01	26	51.62	09/12/00	80.50	01/27/95	53.40	03/07/00	NS		
VD-VPB-02	38	15.00	06/12/01	72.10	05/06/92	62.30	09/12/03	53.40	*	03/19/04
VD-VPB-03	43	3.70	03/05/01	34.70	05/11/93	16.91	12/04/03	16.47		03/10/04
VD-VPB-04	41	4.90	09/09/97	35.20	02/27/91	24.48	09/11/03	NS		
VD-VPB-05	35	8.70	06/11/01	86.80	08/11/93	44.04	09/09/02	NS		
VD-VPB-06	43	12.00	06/11/01	67.20	11/01/94	42.72	12/04/03	48.95	* +1	03/10/04
VD-VPB-07	40	2.80	06/11/01	53.40	12/11/01	21.36	12/04/03	19.14		03/10/04

* = Greater than MCL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr

NA = Not Analyzed
ND = Not Detected
\# = Unvalidated

J = Approximate Concentration
NS = Not Sampled

TABLE 3-16

Maximum and Minimum Detected Nitrate (as NO_3) Values

Second Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	1.10	05/04/92	60.52	12/13/00	48.95	12/12/03	NS		
CS-C01-285	44	5.80	06/18/01	71.60	05/04/92	27.59	03/18/04	26.79		06/08/04
CS-C01-558	8	2.40	03/25/91	3.00	05/04/92	2.71	12/12/03	NS		
CS-C02-062	36	ND	05/08/95	71.20	05/22/90	44.50	03/15/04	45.40	* +1	06/07/04
CS-C02-180	43	2.60	06/18/01	43.60	05/21/90	11.57	03/15/04	13.17		06/07/04
CS-C02-250	43	4.90	06/18/01	32.50	05/10/93	20.47	03/15/04	22.25		06/07/04
CS-C02-335	43	8.50	06/18/01	49.00	11/20/92	36.49	03/15/04	37.23		06/07/04
CS-C03-100	45	4.54	03/11/02	57.41	12/13/00	48.95	03/15/04	4.54		06/07/04
CS-C03-325	16	1.80	12/12/96	8.90	10/20/94	8.01	12/08/03	NS		
CS-C03-465	39	0.80	06/13/01	49.94	06/07/04	4.23	03/15/04	49.94	* +1	06/07/04
CS-C03-550	12	0.90	07/20/90	8.50	12/15/95	1.07	12/08/03	NS		
CS-C04-290	43	ND	12/12/96	33.40	06/08/00	10.68	03/18/04	11.80		06/10/04
CS-C04-382	43	1.90	06/14/01	19.60	05/25/90	8.46	03/18/04	9.08		06/10/04
CS-C04-520	10	ND	05/25/92	1.50	05/07/92	1.11	12/10/03	NS		
CS-C05-160	43	3.60	06/14/01	29.40	05/10/93	20.47	03/18/04	22.70		06/10/04
CS-C05-290	45	1.90	06/14/01	23.60	03/28/91	7.57	03/18/04	8.17		06/10/04
CS-C06-185	37	1.90	06/15/01	14.20	05/15/90	8.90	03/17/04	9.99		06/09/04
CS-C06-278	9	ND	03/11/91	8.90	12/12/00	ND	12/15/03	NS		
CS-VPB-01	25	8.80	06/18/01	52.51	12/13/00	40.50	03/12/04	40.86		06/02/04
CS-VPB-02	43	9.60	06/18/01	68.10	06/12/00	43.61	03/11/04	44.49		06/02/04
CS-VPB-03	26	2.00	06/12/01	12.71	06/03/04	12.46	03/11/04	12.71		06/03/04
CS-VPB-04	38	1.70	03/12/98	58.70	08/05/92	44.50	03/18/04	49.94	* +1	06/10/04
CS-VPB-05	45	11.20	03/09/01	63.56	06/05/02	53.40	03/18/04	54.48	*	06/10/04
CS-VPB-06	45	4.50	12/11/97	53.40	05/15/90	36.94	03/17/04	39.50		06/09/04
CS-VPB-07	41	7.80	06/14/01	38.70	01/16/90	32.93	03/18/04	30.87		06/08/04
CS-VPB-08	32	10.10	01/16/90	48.60	12/03/99	40.05	03/18/04	39.95		06/10/04
CS-VPB-09	25	11.60	03/13/01	55.63	12/19/00	53.40	03/11/04	54.48	*	06/02/04
CS-VPB-10	44	11.00	06/15/01	61.90	05/13/92	53.40	03/18/04	54.48	*	06/10/04
CS-VPB-11	38	6.10	12/08/99	72.10	05/13/92	54.48	01/06/03	NS		
NH-C01-325	38	9.30	03/21/96	133.50	09/21/01	57.85	03/19/03	NS		
NH-C01-450	14	6.50	11/03/93	18.69	06/10/03	18.69	06/10/03	NS		
NH-C01-660	10	8.63	12/10/02	10.10	04/30/92	8.46	12/02/03	NS		
NH-C01-780	10	6.81	12/10/02	10.30	04/30/92	6.68	12/02/03	NS		
NH-C02-220	29	12.50	03/07/01	63.60	08/15/90	53.40	06/13/01	NS		
NH-C02-325	35	3.80	06/13/01	54.70	11/15/93	25.81	03/16/04	19.07		06/10/04
NH-C02-520	36	4.50	11/16/92	71.20	09/20/01	44.50	03/16/04	40.41		06/10/04
NH-C02-681	9	1.60	08/14/90	3.30	05/02/92	1.51	12/09/03	NS		
NH-C03-380	38	3.30	06/13/01	40.90	06/07/00	12.02	03/16/04	19.07		06/08/04
NH-C03-580	44	5.20	06/13/01	44.50	05/23/90	27.59	03/16/04	29.96		06/08/04
NH-C03-680	11	1.90	05/23/90	10.68	12/12/01	7.57	12/03/03	4.99		06/08/04
NH-C03-800	10	ND	05/22/90	4.50	01/11/00	3.03	12/03/03	NS		
NH-C04-240	43	ND	08/13/93	23.59	09/12/03	23.59	03/10/04	NS		
NH-C04-375	10	2.20	12/14/95	71.20	03/21/91	5.79	12/03/03	NS		
NH-C04-560	10	ND	01/13/00	1.90	05/03/92	0.32	12/11/02	NS		
NH-C05-320	4	62.70	12/05/95	89.00	01/30/91	67.20	06/22/98	NS		

TABLE 3-16

Maximum and Minimum Detected Nitrate (as NO_3) Values

Second Quarter 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-C05-460	10	5.30	01/28/91	21.40	11/11/92	18.69	12/02/03	17.71	J	06/04/04
NH-C06-160	41	ND	09/10/02	106.80	12/06/03	66.75	03/11/04	68.10	*	06/03/04
NH-C06-285	9	22.00	01/24/91	37.23	06/03/04	36.05	12/05/03	37.23		06/03/04
NH-C06-425	8	4.40	01/24/91	13.40	11/17/92	10.24	12/05/03	NS		
NH-VPB-01	39	11.00	06/18/01	67.20	05/04/92	53.40	12/12/03	54.48	*	06/08/04
NH-VPB-02	16	32.60	01/17/90	80.10	09/10/03	80.10	09/10/03	NS		
NH-VPB-03	11	13.40	03/13/01	66.75	03/19/03	62.30	09/10/03	NS		
NH-VPB-04	8	38.70	11/17/92	53.40	06/23/98	48.00	01/13/00	NS		
NH-VPB-05	43	15.50	03/06/01	107.69	09/14/00	62.30	03/12/04	59.02	* J	06/04/04
NH-VPB-06	19	36.90	07/30/92	98.80	12/18/96	63.60	10/12/98	NS		
NH-VPB-07	28	2.60	02/04/91	56.60	12/01/99	56.60	12/01/99	NS		
NH-VPB-08	43	6.00	06/13/01	49.00	01/30/92	32.49	03/16/04	28.15		06/08/04
NH-VPB-09	30	1.88	03/06/01	37.30	06/06/00	16.46	03/13/00	NS		
NH-VPB-10	7	ND	01/17/90	17.80	11/12/92	4.00	06/22/98	NS		
NH-VPB-11	8	1.50	01/31/91	15.10	10/19/94	4.50	06/22/98	NS		
NH-VPB-12	12	19.80	01/17/90	44.50	12/13/01	43.90	11/30/99	NS		
NH-VPB-13	7	6.70	12/04/95	101.50	09/06/90	21.80	06/23/98	NS		
NH-VPB-14	28	30.30	05/07/93	73.00	05/10/95	51.20	03/15/00	NS		
PO-C01-195	18	24.48	09/17/03	35.10	08/29/90	27.59	12/12/03	28.60		06/09/04
PO-C01-354	11	ND	08/27/90	0.40	06/17/98	ND	12/12/03	NS		
PO-C02-053	38	8.00	06/12/01	71.20	06/13/00	44.50	03/12/04	45.40	* J	06/04/04
PO-C02-205	14	19.10	11/11/93	27.15	12/20/00	23.59	12/17/03	NS		
PO-C03-182	43	6.50	06/15/01	50.30	10/28/94	30.71	03/17/04	32.23		06/09/04
PO-C03-235	36	4.10	03/09/00	30.26	06/12/03	24.03	03/17/04	NS		
PO-VPB-01	42	9.51	03/13/01	48.50	10/03/90	38.72	03/17/04	40.86		06/09/04
PO-VPB-02	43	12.00	03/12/01	71.60	08/27/90	53.40	03/17/04	54.48	*	06/09/04
PO-VPB-03	44	11.00	06/15/01	59.02	06/07/02	53.40	03/17/04	54.48	*	06/09/04
PO-VPB-04	3	ND	09/20/90	1.80	11/14/89	1.76	11/14/89	NS		
PO-VPB-05	38	ND	11/09/89	24.50	10/07/98	3.78	03/12/04	NS		
PO-VPB-06	14	2.40	05/15/92	16.70	12/13/99	8.9	12/16/03	NS		
PO-VPB-07	41	8.60	16/18/01	175.33	09/20/00	48.95	03/17/04	49.94	*	06/09/04
PO-VPB-08	44	3.30	16/18/01	16.90	06/06/00	15.13	03/17/04	16.80		06/09/04
PO-VPB-09	3	ND	09/20/90	1.50	11/15/89	NS		NS		
PO-VPB-10	11	17.30	03/13/01	84.55	12/17/03	84.55	12/17/03	NS		
PO-VPB-11	2	ND	09/20/90	2.80	11/16/89	2.77	11/16/89	NS		
VD-VPB-01	26	51.62	09/12/00	80.50	01/27/95	53.40	03/07/00	NS		
VD-VPB-02	39	15.00	06/12/01	72.10	05/06/92	53.40	03/19/04	54.48	*	06/02/04
VD-VPB-03	44	3.70	03/05/01	34.70	05/11/93	16.47	03/10/04	16.80		06/02/04
VD-VPB-04	41	4.90	09/09/97	35.20	02/27/91	24.48	09/11/03	NS		
VD-VPB-05	35	8.70	06/11/01	86.80	08/11/93	44.04	09/09/02	NS		
VD-VPB-06	44	12.00	06/11/01	67.20	11/01/94	48.95	03/10/04	49.94	*	06/02/04
VD-VPB-07	41	2.80	06/11/01	53.40	12/11/01	19.14	03/10/04	18.61		06/02/04

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-17

Maximum and Minimum Detected Nitrate (as NO_3) Values

3rd Quarter - 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	1.10	05/04/92	60.52	12/13/00	48.95	12/12/03	NS		
CS-C01-285	45	5.80	06/18/01	71.60	05/04/92	26.79	06/08/04	26.70		09/23/04
CS-C01-558	8	2.40	03/25/91	3.00	05/04/92	2.71	12/12/03	NS		
CS-C02-062	37	ND	05/08/95	71.20	05/22/90	45.40	06/07/04	44.50	-1	09/27/04
CS-C02-180	44	2.60	06/18/01	43.60	05/21/90	13.17	06/07/04	12.46		09/27/04
CS-C02-250	44	4.90	06/18/01	32.50	05/10/93	22.25	06/07/04	21.36		09/27/04
CS-C02-335	44	8.50	06/18/01	49.00	11/20/92	37.23	06/07/04	36.49		09/27/04
CS-C03-100	46	4.54	03/11/02	57.41	12/13/00	4.54	06/07/04	53.40	*+1	09/28/04
CS-C03-325	16	1.80	12/12/96	8.90	10/20/94	8.01	12/08/03	NS		
CS-C03-465	40	0.80	06/13/01	49.94	06/07/04	49.94	06/07/04	4.90	-1	09/28/04
CS-C03-550	12	0.90	07/20/90	8.50	12/15/95	1.07	12/08/03	NS		
CS-C04-290	44	ND	12/12/96	33.40	06/08/00	11.80	06/10/04	11.13		09/27/04
CS-C04-382	44	1.90	06/14/01	19.60	05/25/90	9.08	06/10/04	8.90		09/27/04
CS-C04-520	10	ND	05/25/92	1.50	05/07/92	1.11	12/10/03	NS		
CS-C05-160	44	3.60	06/14/01	29.40	05/10/93	22.70	06/10/04	23.14		09/23/04
CS-C05-290	46	1.90	06/14/01	23.60	03/28/91	8.17	06/10/04	7.12		09/23/04
CS-C06-185	38	1.90	06/15/01	14.20	05/15/90	9.99	06/09/04	9.79		09/27/04
CS-C06-278	9	ND	03/11/91	8.90	12/12/00	ND	12/15/03	NS		
CS-VPB-01	26	8.80	06/18/01	52.51	12/13/00	40.86	06/02/04	40.94		09/23/04
CS-VPB-02	43	9.60	06/18/01	68.10	06/12/00	44.49	06/02/04	NS		
CS-VPB-03	27	2.00	06/12/01	13.35	09/23/04	12.71	06/03/04	13.35		09/23/04
CS-VPB-04	39	1.70	03/12/98	58.70	08/05/92	49.94	06/10/04	44.50	-1	09/27/04
CS-VPB-05	46	11.20	03/09/01	63.56	06/05/02	54.48	06/10/04	53.40	*	09/23/04
CS-VPB-06	46	4.50	12/11/97	53.40	05/15/90	39.50	06/09/04	38.27		09/27/04
CS-VPB-07	41	7.80	06/14/01	38.70	01/16/90	30.87	06/08/04	NS		
CS-VPB-08	33	10.10	01/16/90	48.60	12/03/99	39.95	06/10/04	41.83		09/28/04
CS-VPB-09	26	11.60	03/13/01	55.63	12/19/00	54.48	06/02/04	53.40	*	09/23/04
CS-VPB-10	45	11.00	06/15/01	61.90	05/13/92	54.48	06/10/04	53.40	*	09/27/04
CS-VPB-11	38	6.10	12/08/99	72.10	05/13/92	54.48	01/06/03	NS		
NH-C01-325	39	9.30	03/21/96	133.50	09/21/01	57.85	03/19/03	18.25	-1	09/22/04
NH-C01-450	14	6.50	11/03/93	18.69	06/10/03	18.69	06/10/03	NS		
NH-C01-660	10	8.63	12/10/02	10.10	04/30/92	8.46	12/02/03	NS		
NH-C01-780	10	6.81	12/10/02	10.30	04/30/92	6.68	12/02/03	NS		
NH-C02-220	29	12.50	03/07/01	63.60	08/15/90	53.40	06/13/01	NS		
NH-C02-325	35	3.80	06/13/01	54.70	11/15/93	19.07	06/10/04	NS		
NH-C02-520	37	4.50	11/16/92	71.20	09/20/01	40.41	06/10/04	30.26		09/22/04
NH-C02-681	9	1.60	08/14/90	3.30	05/02/92	1.51	12/09/03	NS		
NH-C03-380	39	3.30	06/13/01	40.90	06/07/00	19.07	06/08/04	20.47		09/22/04
NH-C03-580	45	5.20	06/13/01	44.50	05/23/90	29.96	06/08/04	26.70		09/22/04
NH-C03-680	12	1.90	05/23/90	10.68	12/12/01	4.99	06/08/04	4.45		08/31/04
NH-C03-800	10	ND	05/22/90	4.50	01/11/00	3.03	12/03/03	NS		
NH-C04-240	43	ND	08/13/93	23.59	09/12/03	23.59	03/10/04	NS		
NH-C04-375	10	2.20	12/14/95	71.20	03/21/91	5.79	12/03/03	NS		
NH-C04-560	10	ND	01/13/00	1.90	05/03/92	0.32	12/11/02	NS		
NH-C05-320	4	62.70	12/05/95	89.00	01/30/91	67.20	06/22/98	NS		

TABLE 3-17

Maximum and Minimum Detected Nitrate (as NO_3) Values

3rd Quarter - 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-C05-460	11	5.30	01/28/91	21.40	11/11/92	17.71	06/04/04	17.36		09/22/04
NH-C06-160	42	ND	09/10/02	106.80	12/06/03	68.10	06/03/04	71.20		08/31/04
NH-C06-285	10	22.00	01/24/91	38.72	08/31/04	37.23	06/03/04	38.72		08/31/04
NH-C06-425	8	4.40	01/24/91	13.40	11/17/92	10.24	12/05/03	NS		
NH-VPB-01	40	11.00	06/18/01	67.20	05/04/92	54.48	06/08/04	48.95	*	09/23/04
NH-VPB-02	16	32.60	01/17/90	80.10	09/10/03	80.10	09/10/03	NS		
NH-VPB-03	11	13.40	03/13/01	66.75	03/19/03	62.30	09/10/03	NS		
NH-VPB-04	8	38.70	11/17/92	53.40	06/23/98	48.00	01/13/00	NS		
NH-VPB-05	44	15.50	03/06/01	107.69	09/14/00	59.02	06/04/04	57.85	*	08/31/04
NH-VPB-06	19	36.90	07/30/92	98.80	12/18/96	63.60	10/12/98	NS		
NH-VPB-07	28	2.60	02/04/91	56.60	12/01/99	56.60	12/01/99	NS		
NH-VPB-08	44	6.00	06/13/01	49.00	01/30/92	28.15	06/08/04	28.48		09/22/04
NH-VPB-09	30	1.88	03/06/01	37.30	06/06/00	16.46	03/13/00	NS		
NH-VPB-10	7	ND	01/17/90	17.80	11/12/92	4.00	06/22/98	NS		
NH-VPB-11	8	1.50	01/31/91	15.10	10/19/94	4.50	06/22/98	NS		
NH-VPB-12	12	19.80	01/17/90	44.50	12/13/01	43.90	11/30/99	NS		
NH-VPB-13	7	6.70	12/04/95	101.50	09/06/90	21.80	06/23/98	NS		
NH-VPB-14	28	30.30	05/07/93	73.00	05/10/95	51.20	03/15/00	NS		
PO-C01-195	19	24.48	09/17/03	35.10	08/29/90	28.60	06/09/04	28.04		09/28/04
PO-C01-354	11	ND	08/27/90	0.40	06/17/98	ND	12/12/03	NS		
PO-C02-053	39	8.00	06/12/01	71.20	06/13/00	45.40	06/04/04	44.50	-1	09/01/04
PO-C02-205	14	19.10	11/11/93	27.15	12/20/00	23.59	12/17/03	NS		
PO-C03-182	43	6.50	06/15/01	50.30	10/28/94	32.23	06/09/04	31.15		09/01/04
PO-C03-235	36	4.10	03/09/00	30.26	06/12/03	24.03	03/17/04	NS		
PO-VPB-01	43	9.51	03/13/01	48.50	10/03/90	40.86	06/09/04	38.72		09/01/04
PO-VPB-02	44	12.00	03/12/01	71.60	08/27/90	54.48	06/09/04	53.40	*	09/28/04
PO-VPB-03	45	11.00	06/15/01	59.02	06/07/02	54.48	06/09/04	53.40	*	09/28/04
PO-VPB-04	3	ND	09/20/90	1.80	11/14/89	1.76	11/14/89	NS		
PO-VPB-05	38	ND	11/09/89	24.50	10/07/98	3.78	03/12/04	NS		
PO-VPB-06	14	2.40	05/15/92	16.70	12/13/99	8.9	12/16/03	NS		
PO-VPB-07	41	8.60	16/18/01	175.33	09/20/00	49.94	06/09/04	NS		
PO-VPB-08	45	3.30	16/18/01	18.25	09/28/04	16.80	06/09/04	18.25		09/28/04
PO-VPB-09	3	ND	09/20/90	1.50	11/15/89	NS		NS		
PO-VPB-10	11	17.30	03/13/01	84.55	12/17/03	84.55	12/17/03	NS		
PO-VPB-11	2	ND	09/20/90	2.80	11/16/89	2.77	11/16/89	NS		
VD-VPB-01	26	51.62	09/12/00	80.50	01/27/95	53.40	03/07/00	NS		
VD-VPB-02	40	15.00	06/12/01	72.10	05/06/92	54.48	06/02/04	53.40	*	09/02/04
VD-VPB-03	45	3.70	03/05/01	34.70	05/11/93	16.80	06/02/04	14.24		09/02/04
VD-VPB-04	41	4.90	09/09/97	35.20	02/27/91	24.48	09/11/03	NS		
VD-VPB-05	35	8.70	06/11/01	86.80	08/11/93	44.04	09/09/02	NS		
VD-VPB-06	45	12.00	06/11/01	67.20	11/01/94	49.94	06/02/04	48.95	*	09/01/04
VD-VPB-07	42	2.80	06/11/01	53.40	12/11/01	18.61	06/02/04	21.36		09/01/04

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected

U = Not Detected
J = Approximate Concentration
L = Results Below CRQL

+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-18

Maximum and Minimum Detected Nitrate (as NO_3) Values

4th Quarter - 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
CS-C01-105	42	1.10	05/04/92	60.52	12/13/00	48.95	12/12/03	NS		
CS-C01-285	46	5.80	06/18/01	71.60	05/04/92	26.70	09/23/04	26.70		12/14/04
CS-C01-558	9	2.40	03/25/91	3.00	05/04/92	2.71	12/12/03	2.67		12/02/04
CS-C02-062	38	ND	05/08/95	71.20	05/22/90	44.50	09/27/04	44.50		12/15/04
CS-C02-180	45	2.60	06/18/01	43.60	05/21/90	12.46	09/27/04	12.02		12/15/04
CS-C02-250	45	4.90	06/18/01	32.50	05/10/93	21.36	09/27/04	20.92		12/15/04
CS-C02-335	45	8.50	06/18/01	49.00	11/20/92	36.49	09/27/04	37.83		12/15/04
CS-C03-100	47	4.54	03/11/02	57.41	12/13/00	53.40	09/28/04	48.95	*	12/17/04
CS-C03-325	17	1.80	12/12/96	9.79	12/02/04	8.01	12/08/03	9.79		12/02/04
CS-C03-465	41	0.80	06/13/01	49.94	06/07/04	4.90	09/28/04	4.45		12/17/04
CS-C03-550	13	0.90	07/20/90	8.50	12/15/95	1.07	12/08/03	1.16		12/02/04
CS-C04-290	45	ND	12/12/96	33.40	06/08/00	11.13	09/27/04	10.68		12/16/04
CS-C04-382	45	1.90	06/14/01	19.60	05/25/90	8.90	09/27/04	8.90		12/16/04
CS-C04-520	11	ND	05/25/92	1.50	05/07/92	1.11	12/10/03	1.20		12/02/04
CS-C05-160	45	3.60	06/14/01	29.40	05/10/93	23.14	09/23/04	22.25		12/17/04
CS-C05-290	47	1.90	06/14/01	23.60	03/28/91	7.12	09/23/04	7.57		12/17/04
CS-C06-185	39	1.90	06/15/01	14.20	05/15/90	9.79	09/27/04	9.79		12/17/04
CS-C06-278	10	ND	03/11/91	8.90	12/12/00	ND	12/15/03	1.38		12/06/04
CS-VPB-01	27	8.80	06/18/01	52.51	12/13/00	40.94	09/23/04	40.50		12/15/04
CS-VPB-02	44	9.60	06/18/01	68.10	06/12/00	44.49	06/02/04	44.06		12/15/04
CS-VPB-03	28	2.00	06/12/01	13.80	12/16/04	13.35	09/23/04	13.80		12/16/04
CS-VPB-04	40	1.70	03/12/98	58.70	08/05/92	44.50	09/27/04	44.50		12/16/04
CS-VPB-05	47	11.20	03/09/01	63.56	06/05/02	53.40	09/23/04	53.40	*	12/17/04
CS-VPB-06	47	4.50	12/11/97	53.40	05/15/90	38.27	09/27/04	36.94		12/17/04
CS-VPB-07	42	7.80	06/14/01	38.70	01/16/90	30.87	06/08/04	27.59		12/17/04
CS-VPB-08	34	10.10	01/16/90	48.60	12/03/99	41.83	09/28/04	40.05		12/16/04
CS-VPB-09	27	11.60	03/13/01	55.63	12/19/00	53.40	09/23/04	53.40	*	12/16/04
CS-VPB-10	46	11.00	06/15/01	61.90	05/13/92	53.40	09/27/04	53.40	*	12/17/04
CS-VPB-11	38	6.10	12/08/99	72.10	05/13/92	54.48	01/06/03	NS		
NH-C01-325	39	9.30	03/21/96	133.50	09/21/01	18.25	09/22/04	NS		
NH-C01-450	14	6.50	11/03/93	18.69	06/10/03	18.69	06/10/03	NS		
NH-C01-660	11	8.46	11/30/04	10.10	04/30/92	8.46	12/02/03	8.46		11/30/04
NH-C01-780	11	6.81	12/10/02	10.30	04/30/92	6.68	12/02/03	7.12		11/30/04
NH-C02-220	29	12.50	03/07/01	63.60	08/15/90	53.40	06/13/01	NS		
NH-C02-325	36	3.80	06/13/01	54.70	11/15/93	19.07	06/10/04	17.80		12/13/04
NH-C02-520	38	4.50	11/16/92	71.20	09/20/01	30.26	09/22/04	38.27		12/13/04
NH-C02-681	10	1.60	08/14/90	3.30	05/02/92	1.51	12/09/03	1.65		12/01/04
NH-C03-380	40	3.30	06/13/01	40.90	06/07/00	20.47	09/22/04	21.36		12/13/04
NH-C03-580	46	5.20	06/13/01	44.50	05/23/90	26.70	09/22/04	24.92		12/13/04
NH-C03-680	13	1.90	05/23/90	10.68	12/12/01	4.45	08/31/04	4.45		12/13/04
NH-C03-800	11	ND	05/22/90	4.50	01/11/00	3.03	12/03/03	2.27		12/03/04
NH-C04-240	44	ND	08/13/93	24.48	12/03/04	23.59	03/10/04	24.48		12/03/04
NH-C04-375	11	2.20	12/14/95	71.20	03/21/91	5.79	12/03/03	13.80		12/03/04
NH-C04-560	10	ND	01/13/00	1.90	05/03/92	0.32	12/11/02	ND	U	12/03/04
NH-C05-320	4	62.70	12/05/95	89.00	01/30/91	67.2	06/22/98	NS		

TABLE 3-18

Maximum and Minimum Detected Nitrate (as NO_3) Values

4th Quarter - 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	Number of Samples	Minimum Value µg/l	Minimum Date	Maximum Value µg/l	Maximum Date	Previous Value µg/l	Previous Date	Current Value µg/l		Current Date
NH-C05-460	12	5.30	01/28/91	21.40	11/11/92	17.36	09/22/04	16.47		12/13/04
NH-C06-160	43	ND	09/10/02	106.80	12/06/03	71.20	08/31/04	66.75	*	12/01/04
NH-C06-285	11	22.00	01/24/91	38.72	08/31/04	38.72	08/31/04	38.72		12/14/04
NH-C06-425	9	4.40	01/24/91	13.40	11/17/92	10.24	12/05/03	12.46		12/01/04
NH-VPB-01	41	11.00	06/18/01	67.20	05/04/92	48.95	09/23/04	48.95	*	12/14/04
NH-VPB-02	16	32.60	01/17/90	80.10	09/10/03	80.10	09/10/03	NS		
NH-VPB-03	11	13.40	03/13/01	66.75	03/19/03	62.30	09/10/03	NS		
NH-VPB-04	8	38.70	11/17/92	53.40	06/23/98	48.00	01/13/00	NS		
NH-VPB-05	45	15.50	03/06/01	107.69	09/14/00	57.85	08/31/04	57.85	*	12/01/04
NH-VPB-06	19	36.90	07/30/92	98.80	12/18/96	63.60	10/12/98	NS		
NH-VPB-07	28	2.60	02/04/91	56.60	12/01/99	56.60	12/01/99	NS		
NH-VPB-08	45	6.00	06/13/01	49.00	01/30/92	28.48	09/22/04	27.59		12/13/04
NH-VPB-09	30	1.88	03/06/01	37.30	06/06/00	16.46	03/13/00	NS		
NH-VPB-10	8	ND	01/17/90	17.80	11/12/92	4.00	06/22/98	0.76		12/14/04
NH-VPB-11	8	1.50	01/31/91	15.10	10/19/94	4.50	06/22/98	NS		
NH-VPB-12	12	19.80	01/17/90	44.50	12/13/01	43.90	11/30/99	NS		
NH-VPB-13	7	6.70	12/04/95	101.50	09/06/90	21.80	06/23/98	NS		
NH-VPB-14	28	30.30	05/07/93	73.00	05/10/95	51.20	03/15/00	NS		
PO-C01-195	20	24.48	09/17/03	35.10	08/29/90	28.04	09/28/04	26.70		12/20/04
PO-C01-354	11	ND	08/27/90	0.40	06/17/98	ND	12/12/03	ND	U	12/06/04
PO-C02-053	40	8.00	06/12/01	71.20	06/13/00	44.50	09/01/04	44.50		12/06/04
PO-C02-205	15	19.10	11/11/93	27.15	12/20/00	23.59	12/17/03	22.70		12/06/04
PO-C03-182	44	6.50	06/15/01	50.30	10/28/94	32.23	06/09/04	30.71		12/08/04
PO-C03-235	37	4.10	03/09/00	30.26	06/12/03	24.03	03/17/04	24.03		12/08/04
PO-VPB-01	44	9.51	03/13/01	48.50	10/03/90	38.72	09/01/04	39.16		12/07/04
PO-VPB-02	45	12.00	03/12/01	71.60	08/27/90	53.40	09/28/04	53.40	*	12/20/04
PO-VPB-03	46	11.00	06/15/01	59.02	06/07/02	53.40	09/28/04	48.95	*	12/20/04
PO-VPB-04	3	ND	09/20/90	1.80	11/14/89	1.76	11/14/89	NS		
PO-VPB-05	39	ND	11/09/89	24.50	10/07/98	3.78	03/12/04	24.03		12/07/04
PO-VPB-06	15	2.40	05/15/92	16.70	12/13/99	8.9	12/16/03	8.46		12/07/04
PO-VPB-07	42	8.60	16/18/01	175.33	09/20/00	49.94	06/09/04	42.72	-1	12/20/04
PO-VPB-08	46	3.30	16/18/01	18.25	09/28/04	18.25	09/28/04	14.69		12/20/04
PO-VPB-09	3	ND	09/20/90	1.50	11/15/89	NS		NS		
PO-VPB-10	11	17.30	03/13/01	84.55	12/17/03	84.55	12/17/03	NS		
PO-VPB-11	2	ND	09/20/90	2.80	11/16/89	2.77	11/16/89	NS		
VD-VPB-01	26	51.62	09/12/00	80.50	01/27/95	53.40	03/07/00	NS		
VD-VPB-02	40	15.00	06/12/01	72.10	05/06/92	53.40	09/02/04	NS		
VD-VPB-03	46	3.70	03/05/01	34.70	05/11/93	14.24	09/02/04	12.91		12/09/04
VD-VPB-04	42	4.90	09/09/97	35.20	02/27/91	24.48	09/11/03	NS		
VD-VPB-05	36	8.70	06/11/01	86.80	08/11/93	44.04	09/09/02	NS		
VD-VPB-06	45	12.00	06/11/01	67.20	11/01/94	48.95	09/01/04	48.95	*	12/08/04
VD-VPB-07	42	2.80	06/11/01	53.40	12/11/01	21.36	09/01/04	23.59		12/08/04

* = Greater than MCL
NA = Not Analyzd
ND = Not Detected
U = Not Detected
J = Approximate Concentration
L = Results Below CRQL
+1 = Value moved 1 conc. zone up from prev. qtr
-1 = Value moved 1 conc. zone down from prev. qtr
B = Contamination found in Sample and Blank both.

TABLE 3-19

Summary of NO3 Values

First, Second, Third, and Fourth Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	1st Qtr. Sample Date	1st Qtr. Value µg/l		2nd Qtr. Sample Date	2nd Qtr. Value µg/l		3rd. Qtr Sample Date	3rd. Qtr Value µg/l		4th Qtr. Sample Date	4th Qtr. Value µg/l	
CS-C01-105	NS			NS			NS			NS		
CS-C01-285	03/18/04	27.59		06/08/04	26.79		09/23/04	26.70		12/14/04	26.70	
CS-C01-558	NS			NS			NS			12/02/04	2.67	
CS-C02-062	03/15/04	44.50		06/07/04	45.40	* +1	09/27/04	44.50	-1	12/15/04	44.50	
CS-C02-180	03/15/04	11.57		06/07/04	13.17		09/27/04	12.46		12/15/04	12.02	
CS-C02-250	03/15/04	20.47		06/07/04	22.25		09/27/04	21.36		12/15/04	20.92	
CS-C02-335	03/15/04	36.49		06/07/04	37.23		09/27/04	36.49		12/15/04	37.83	
CS-C03-100	03/15/04	48.95	* +1	06/07/04	4.54		09/28/04	53.40	*+1	12/17/04	48.95	*
CS-C03-325	NS			NS			NS			12/02/04	9.79	
CS-C03-465	03/15/04	4.23		06/07/04	49.94	* +1	09/28/04	4.90	-1	12/17/04	4.45	
CS-C03-550	NS			NS			NS			12/02/04	1.16	
CS-C04-290	03/18/04	10.68		06/10/04	11.80		09/27/04	11.13		12/16/04	10.68	
CS-C04-382	03/18/04	8.46		06/10/04	9.08		09/27/04	8.90		12/16/04	8.90	
CS-C04-520	NS			NS			NS			12/02/04	1.20	
CS-C05-160	03/18/04	20.47		06/10/04	22.70		09/23/04	23.14		12/17/04	22.25	
CS-C05-290	03/18/04	7.57		06/10/04	8.17		09/23/04	7.12		12/17/04	7.57	
CS-C06-185	03/17/04	8.90		06/09/04	9.99		09/27/04	9.79		12/17/04	9.79	
CS-C06-278	NS			NS			NS			12/06/04	1.38	
CS-VPB-01	03/12/04	40.50		06/02/04	40.86		09/23/04	40.94		12/15/04	40.50	
CS-VPB-02	03/11/04	43.61		06/02/04	44.49		NS			12/15/04	44.06	
CS-VPB-03	03/11/04	12.46		06/03/04	12.71		09/23/04	13.35		12/16/04	13.80	
CS-VPB-04	03/18/04	44.50		06/10/04	49.94	* +1	09/27/04	44.50	-1	12/16/04	44.50	
CS-VPB-05	03/18/04	53.40	*	06/10/04	54.48	*	09/23/04	53.40	*	12/17/04	53.40	*
CS-VPB-06	03/17/04	36.94		06/09/04	39.50		09/27/04	38.27		12/17/04	36.94	
CS-VPB-07	03/18/04	32.93		06/08/04	30.87		NS			12/17/04	27.59	
CS-VPB-08	03/18/04	40.05		06/10/04	39.95		09/28/04	41.83		12/16/04	40.05	
CS-VPB-09	03/11/04	53.40	*	06/02/04	54.48	*	09/23/04	53.40	*	12/16/04	53.40	*
CS-VPB-10	03/18/04	53.40	*	06/10/04	54.48	*	09/27/04	53.40	*	12/17/04	53.40	*
CS-VPB-11	NS			NS			NS			NS		
NH-C01-325	NS			NS			09/22/04	18.25	-1	NS		
NH-C01-450	NS			NS			NS			NS		
NH-C01-660	NS			NS			NS			11/30/04	8.46	
NH-C01-780	NS			NS			NS			11/30/04	7.12	
NH-C02-220	NS			NS			NS			NS		
NH-C02-325	03/16/04	25.81		06/10/04	19.07		NS			12/13/04	17.80	
NH-C02-520	03/16/04	44.50		06/10/04	40.41		09/22/04	30.26		12/13/04	38.27	
NH-C02-681	NS			NS			NS			12/01/04	1.65	
NH-C03-380	03/16/04	12.02		06/08/04	19.07		09/22/04	20.47		12/13/04	21.36	
NH-C03-580	03/16/04	27.59		06/08/04	29.96		09/22/04	26.70		12/13/04	24.92	
NH-C03-680	NS			06/08/04	4.99		08/31/04	4.45		12/13/04	4.45	
NH-C03-800	NS			NS			NS			12/03/04	2.27	
NH-C04-240	03/10/04	23.59		NS			NS			12/03/04	24.48	
NH-C04-375	NS			NS			NS			12/03/04	13.80	
NH-C04-560	NS			NS			NS			12/03/04	ND	U
NH-C05-320	NS			NS			NS			NS		

TABLE 3-19

Summary of NO3 Values

First, Second, Third, and Fourth Quarters 2004

San Fernando Valley Groundwater Monitoring Program

Well Name	1st Qtr. Sample Date	1st Qtr. Value µg/l		2nd Qtr. Sample Date	2nd Qtr. Value µg/l		3rd. Qtr Sample Date	3rd. Qtr Value µg/l		4th Qtr. Sample Date	4th Qtr. Value µg/l	
NH-C05-460	NS			06/04/04	17.71	J	09/22/04	17.36		12/13/04	16.47	
NH-C06-160	03/11/04	66.75	*	06/03/04	68.10	*	08/31/04	71.20		12/01/04	66.75	*
NH-C06-285	NS			06/03/04	37.23		08/31/04	38.72		12/14/04	38.72	
NH-C06-425	NS			NS			NS			12/01/04	12.46	
NH-VPB-01	NS			06/08/04	54.48	*	09/23/04	48.95	*	12/14/04	48.95	*
NH-VPB-02	NS			NS			NS			NS		
NH-VPB-03	NS			NS			NS			NS		
NH-VPB-04	NS			NS			NS			NS		
NH-VPB-05	03/12/04	62.30	*	06/04/04	59.02	* J	08/31/04	57.85	*	12/01/04	57.85	*
NH-VPB-06	NS			NS			NS			NS		
NH-VPB-07	NS			NS			NS			NS		
NH-VPB-08	03/16/04	32.49		06/08/04	28.15		09/22/04	28.48		12/13/04	27.59	
NH-VPB-09	NS			NS			NS			NS		
NH-VPB-10	NS			NS			NS			12/14/04	0.76	
NH-VPB-11	NS			NS			NS			NS		
NH-VPB-12	NS			NS			NS			NS		
NH-VPB-13	NS			NS			NS			NS		
NH-VPB-14	NS			NS			NS			NS		
PO-C01-195	NS			06/09/04	28.60		09/28/04	28.04		12/20/04	26.70	
PO-C01-354	NS			NS			NS			12/06/04	ND	U
PO-C02-053	03/12/04	44.50		06/04/04	45.40	* J	09/01/04	44.50	-1	12/06/04	44.50	
PO-C02-205	NS			NS			NS			12/06/04	22.70	
PO-C03-182	03/17/04	30.71		06/09/04	32.23		09/01/04	31.15		12/08/04	30.71	
PO-C03-235	03/17/04	24.03		NS			NS			12/08/04	24.03	
PO-VPB-01	03/17/04	38.72		06/09/04	40.86		09/01/04	38.72		12/07/04	39.16	
PO-VPB-02	03/17/04	53.40	*	06/09/04	54.48	*	09/28/04	53.40	*	12/20/04	53.40	*
PO-VPB-03	03/17/04	53.40	*	06/09/04	54.48	*	09/28/04	53.40	*	12/20/04	48.95	*
PO-VPB-04	NS			NS			NS			NS		
PO-VPB-05	03/12/04	3.78		NS			NS			12/07/04	24.03	
PO-VPB-06	NS			NS			NS			12/07/04	8.46	
PO-VPB-07	03/17/04	48.95	* +1	06/09/04	49.94	*	NS			12/20/04	42.72	-1
PO-VPB-08	03/17/04	15.13		06/09/04	16.80		09/28/04	18.25		12/20/04	14.69	
PO-VPB-09	NS			NS			NS			NS		
PO-VPB-10	NS			NS			NS			NS		
PO-VPB-11	NS			NS			NS			NS		
VD-VPB-01	NS			NS			NS			NS		
VD-VPB-02	03/19/04	53.40	*	06/02/04	54.48	*	09/02/04	53.40	*	NS		
VD-VPB-03	03/10/04	16.47		06/02/04	16.80		09/02/04	14.24		12/09/04	12.91	
VD-VPB-04	NS			NS			NS			NS		
VD-VPB-05	NS			NS			NS			NS		
VD-VPB-06	03/10/04	48.95	* +1	06/02/04	49.94	*	09/01/04	48.95	*	12/08/04	48.95	*
VD-VPB-07	03/10/04	19.14		06/02/04	18.61		09/01/04	21.36		12/08/04	23.59	

* = Greater than MCL U = Not Detected +1 = Value moved 1 conc. zone up from prev. qtr

NA = Not Analyzd J = Approximate Concentration -1 = Value moved 1 conc. zone down from prev. qtr

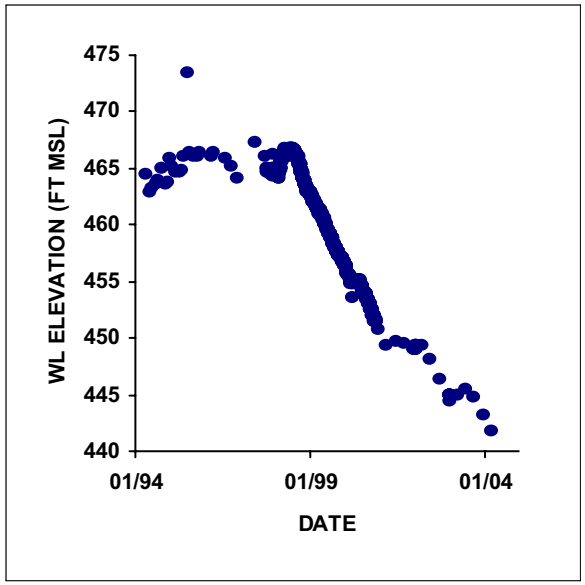
ND = Not Detected L = Results Below CRQL B = Contamination found in Sample and Blank both.

TABLE 3-20
San Fernando Groundwater Monitoring Program
Groundwater Quality Data Summary Table
2004 Annual Event - Facility Monitor Well Sampling

Station ID	Altname		Well Type	Zone	Sample Date	TCE Value (ppb)	PCE Value (ppb)	1,4-Dioxane Value (ppb)	Dissolved Chromium Value (ppb)	Hexavalent Chromium Value (ppb)
V14AMPW	AMP-W1	All Metals	F	S	27-Dec-04	na	na	na	na	na
V13DRMW2	DRC-MW2	Drilube Bldg 1	F	S	27-Dec-04	190 (d)	51 (d)	21	806	890
V13DRMW2 (D)	DRC-MW2 (D)	Drilube Bldg 1	F	S	27-Dec-04	210 (d)	59 (d)	19	762	770
V13DRMW3	DRC-MW3	Drilube Bldg 1	F	S	27-Dec-04	1700 (d)	76 (d)	99	1320	1700
V13DRMW5	DRC-MW5	Drilube Bldg 1	F	S	27-Dec-04	210 (d)	57 (d)	6.8	634	680
		equip. blank			27-Dec-04	nd	nd	nd	0.19	nd
V13BBLW2	BBL-W2	Brock Bus Lines	F	S	03-Jan-05	83 (d)	60 (d)	1.5	359	290
V13BBLW2 (D)	BBL-W2 (D)	Brock Bus Lines	F	S	03-Jan-05	91 (d)	56 (d)	1.5	370	300
V13DRMW1	DRC-MW1	Drilube Bldg 2	F	S	03-Jan-05	190 (d)	37 (d)	5.6	2340	2500
V13BBLW4	DRC-MW4	Drilube Bldg 2	F	S	03-Jan-05	5.4	22 (d)	nd	6.7	2.6
		field blank			03-Jan-05	nd	nd	nd	0.23	0.13
V13GPPW8	GPP-MW8	Grayson Power	F	S	28-Jan-05	11	2.6	0.9	6.8	8.7
V13GPPW3	GPP-MW3	Grayson Power	F	S	28-Jan-05	360 (d)	15	2.2	2.9	0.74
V13GPPW9	GPP-MW9	Grayson Power	F	S	28-Jan-05	310 (d)	14	3.0	5.1	3.8
V13GPP10	GPP-MW10	Grayson Power	F	S	28-Jan-05	410 (d)	32	9.8	69	76
		field blank			28-Jan-05	nd	nd	nd	0.7	nd

Key:
D = Duplicate sample
F = Facility Well
S = Shallow Groundwater Zone
nd = Not Detected
(d) = indicates VOC sample required dilution

Dissolved Chromium - Metals by EPA 200 Series Methods; Method 200.8/SOP507
Hexavalent Chromium - Chemistry Parameters by APHA/EPA Methods; Method 218.6/SOP 525



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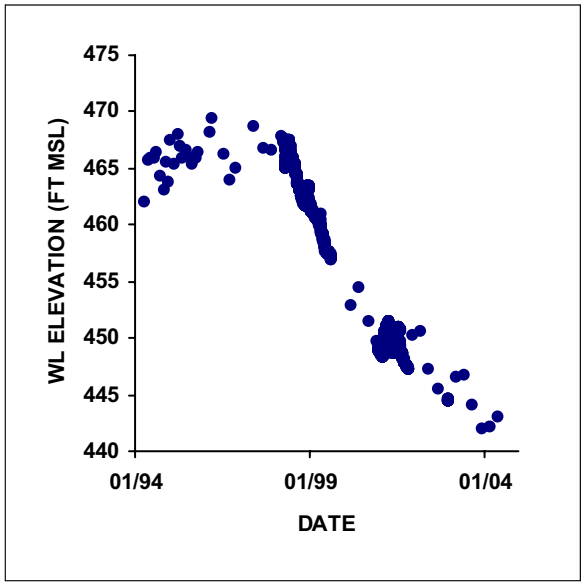

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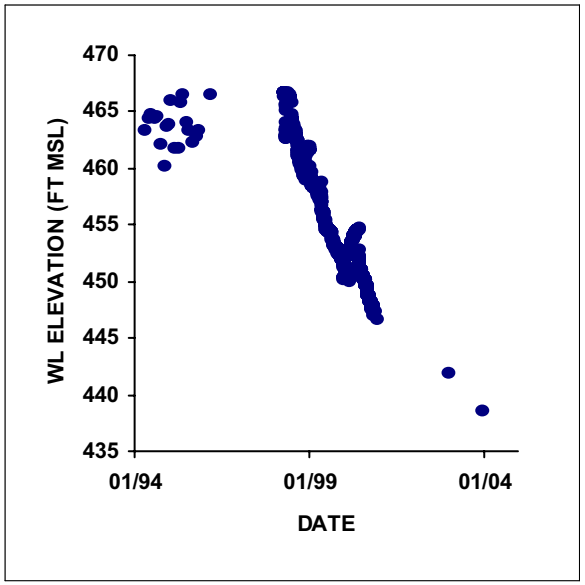

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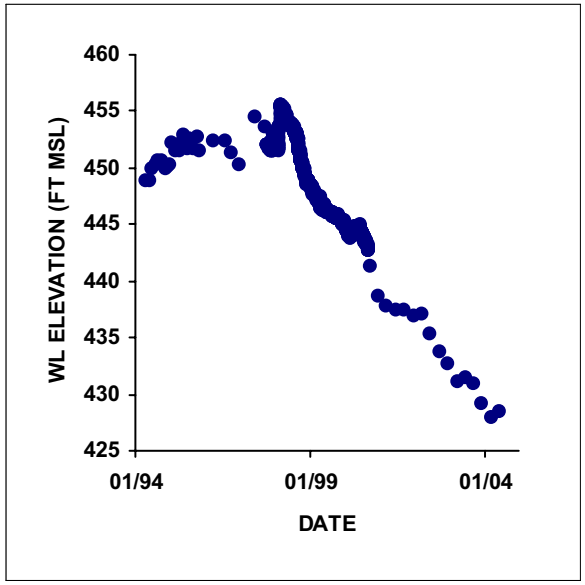

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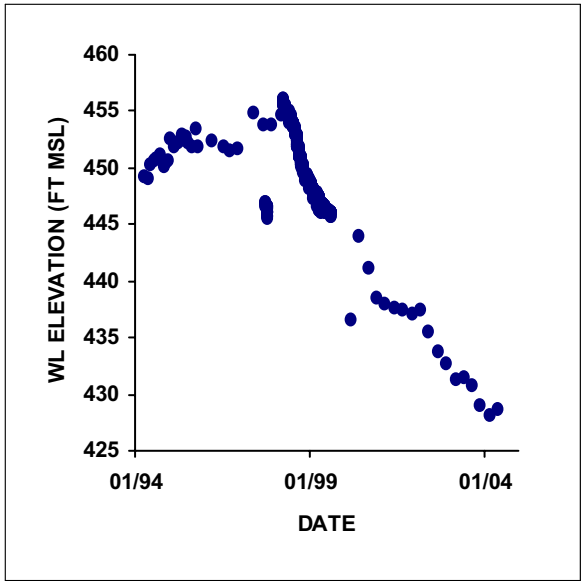

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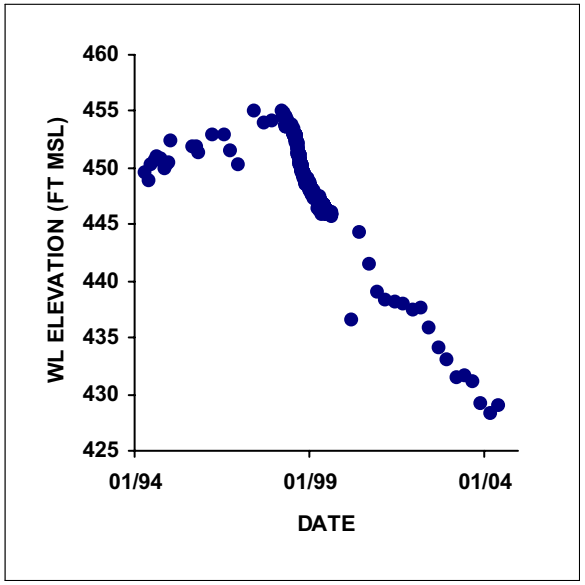
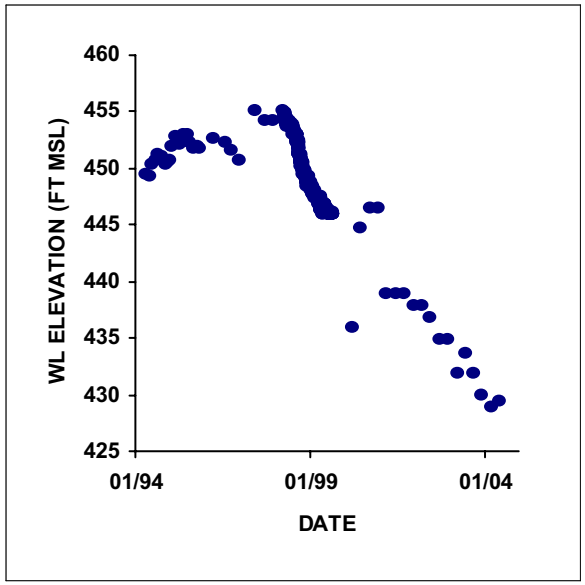


CS-C02-250

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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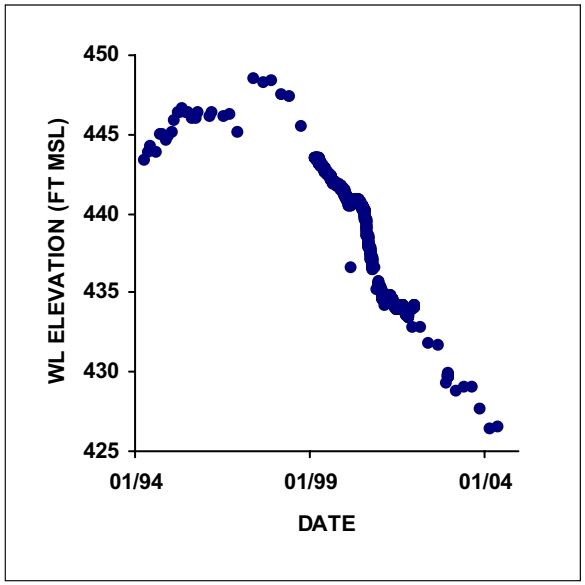

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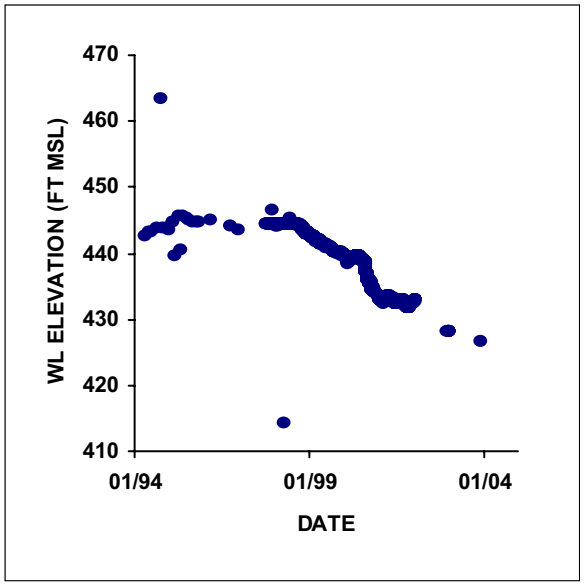

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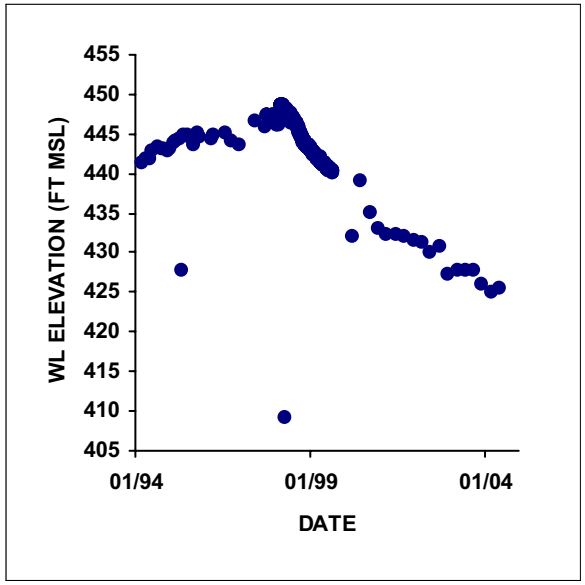

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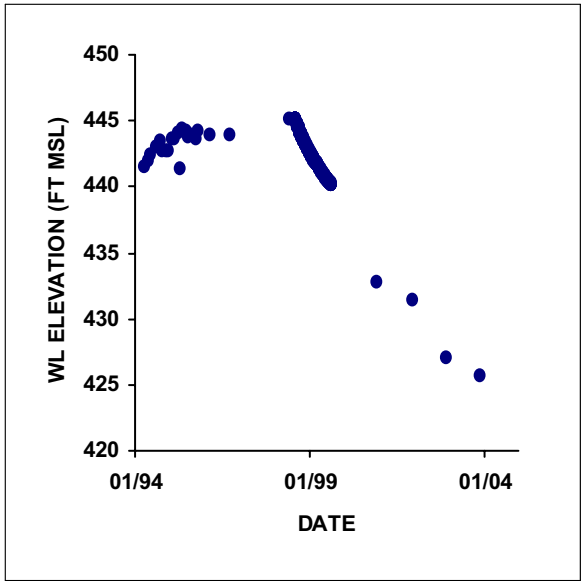

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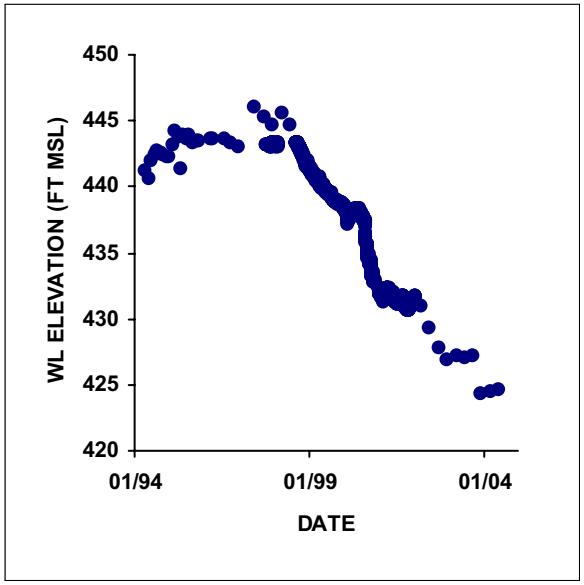
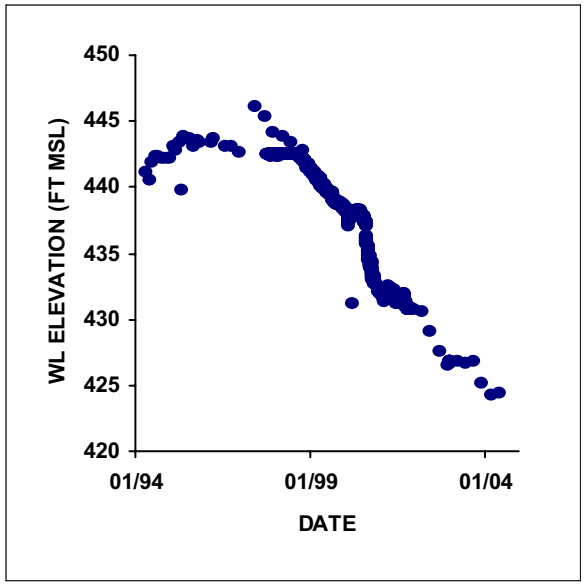


CS-C04-290

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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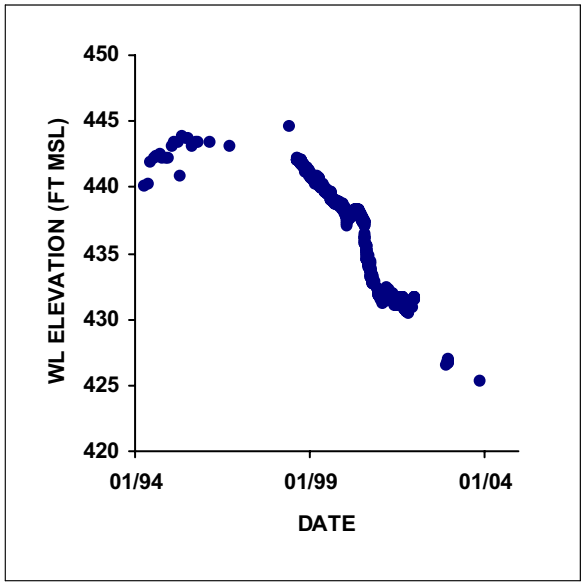

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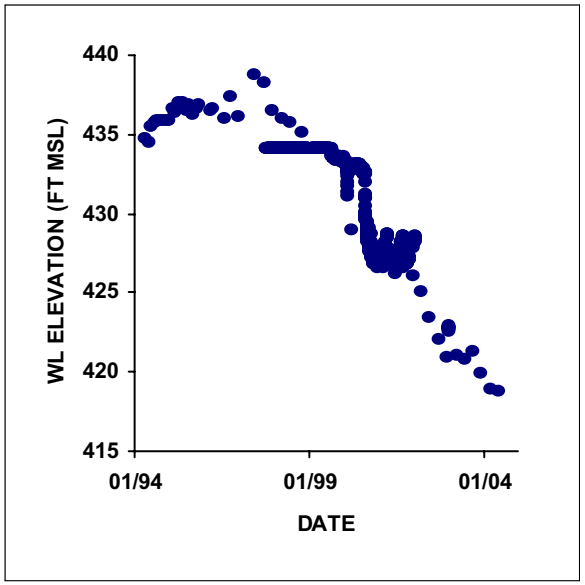

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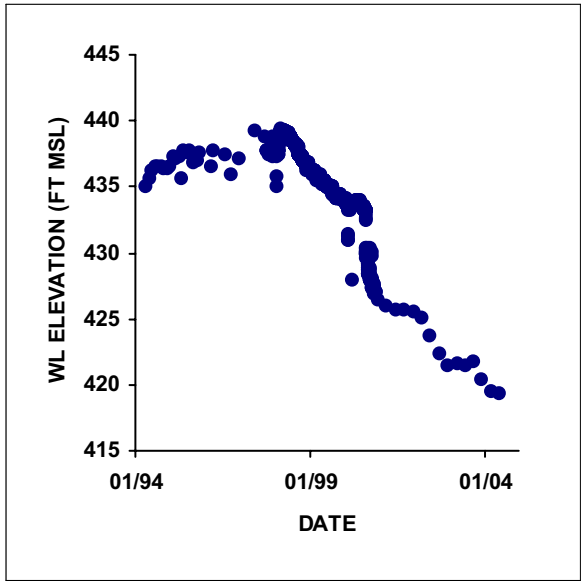

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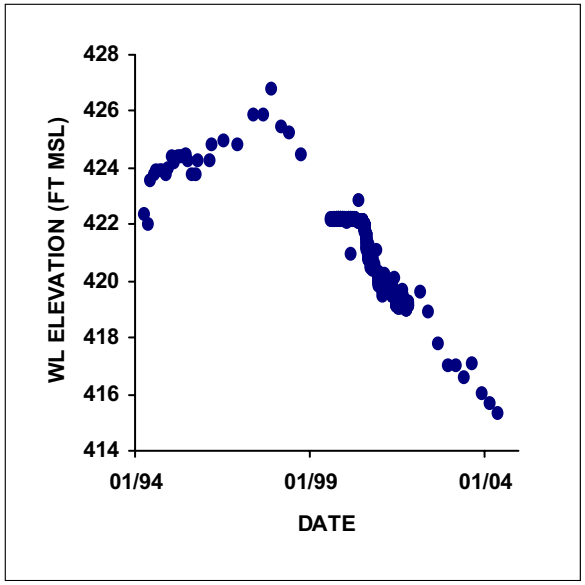

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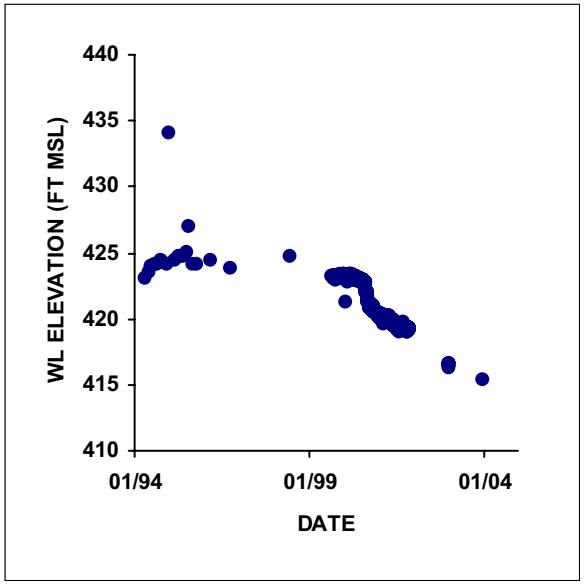
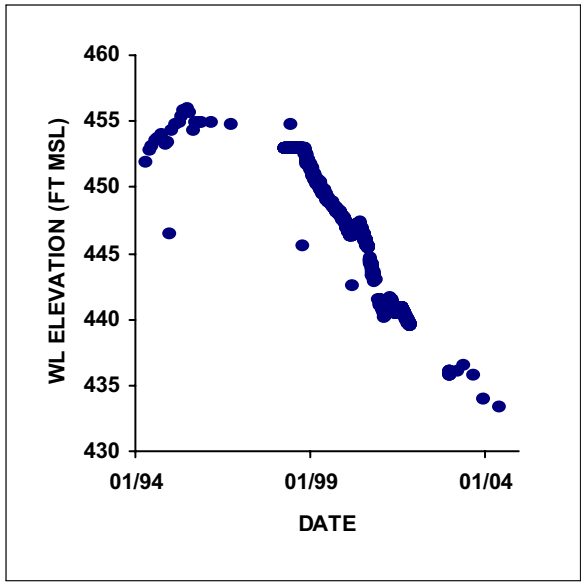


CS-C06-278

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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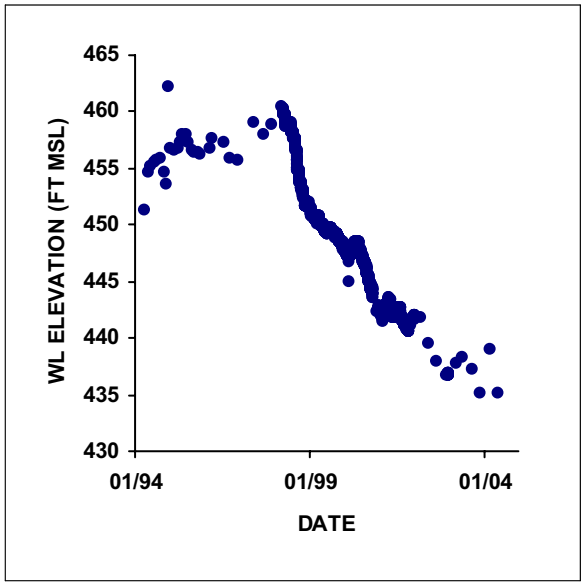

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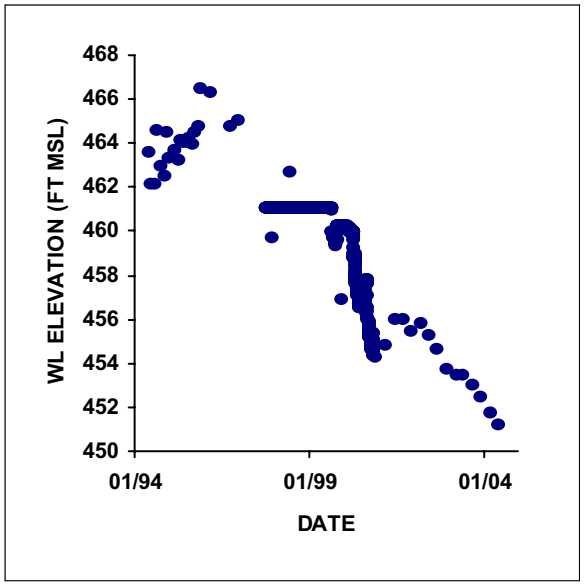

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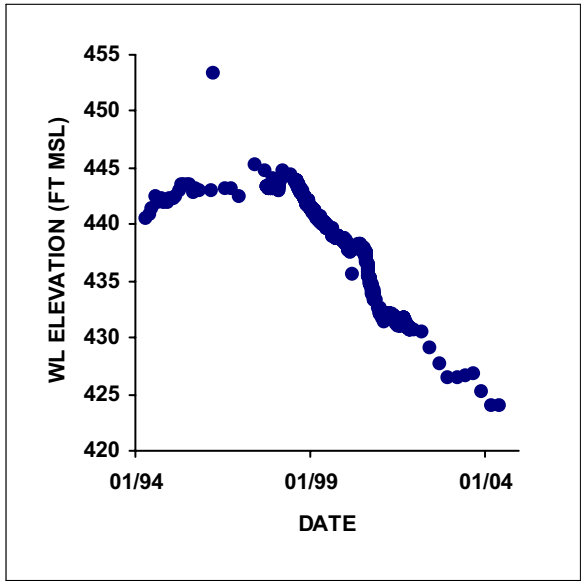

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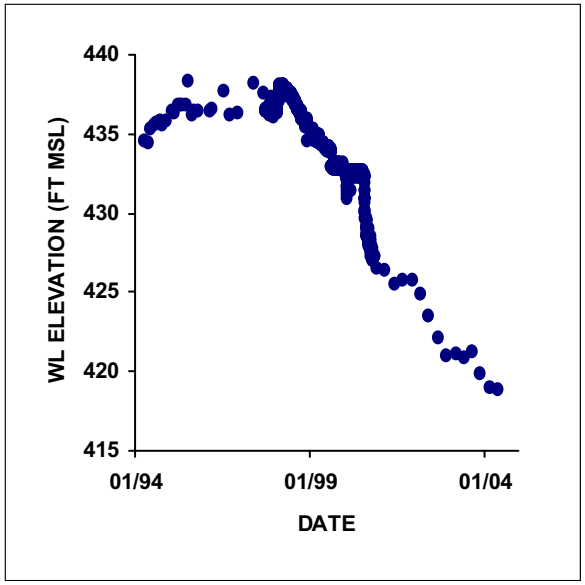

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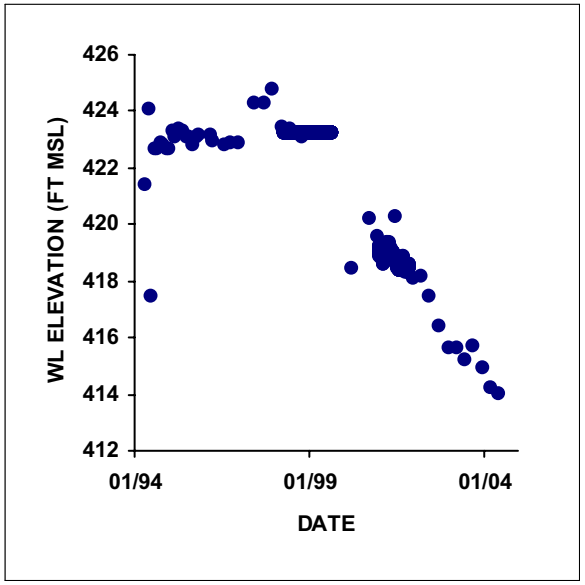
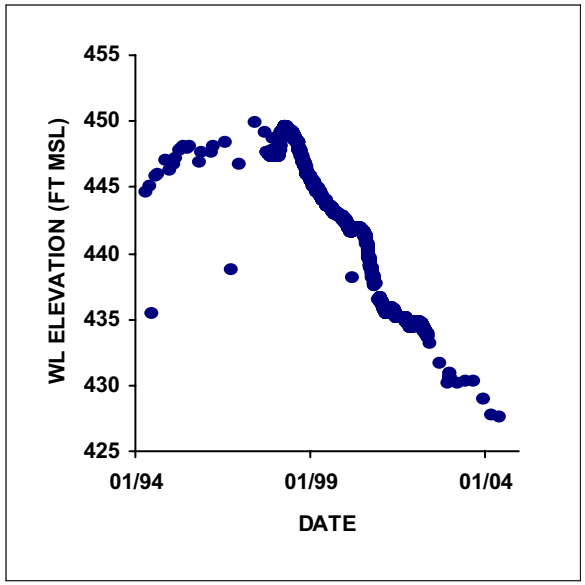


CS-VPB-06

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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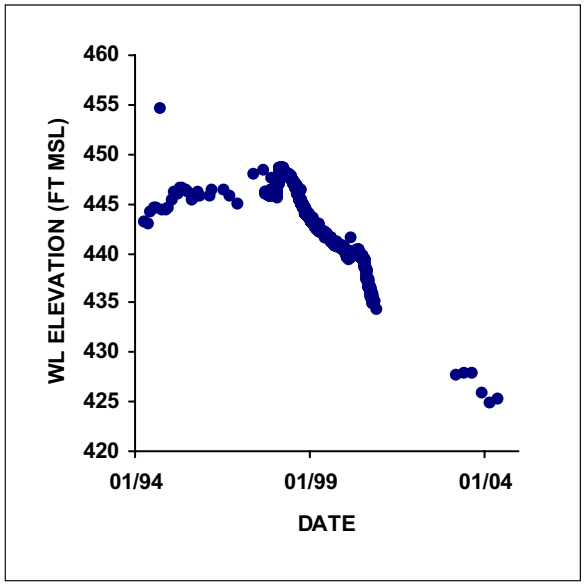

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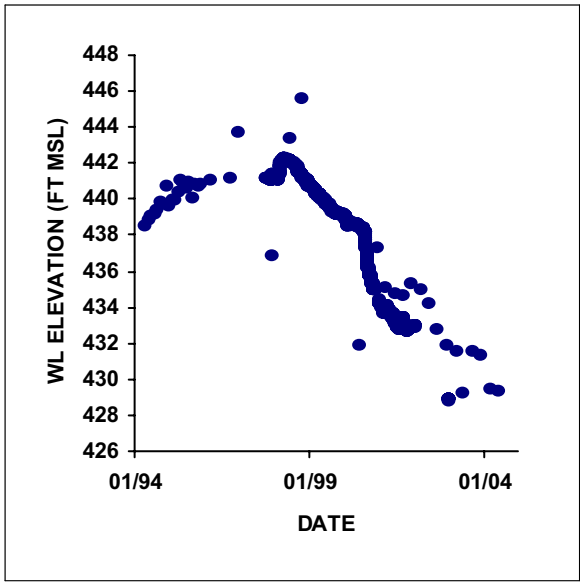

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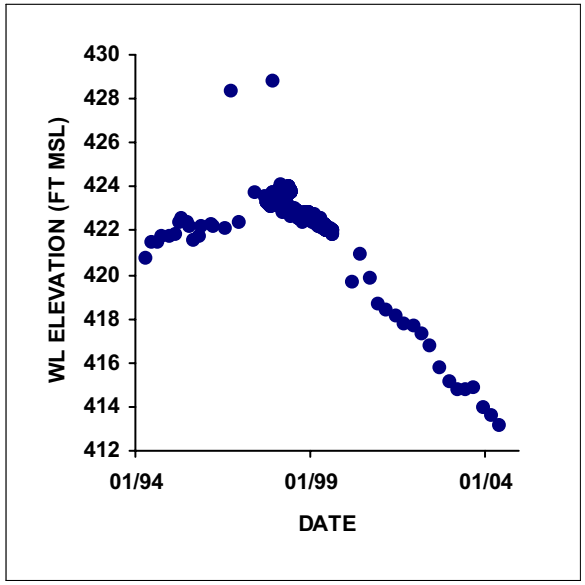

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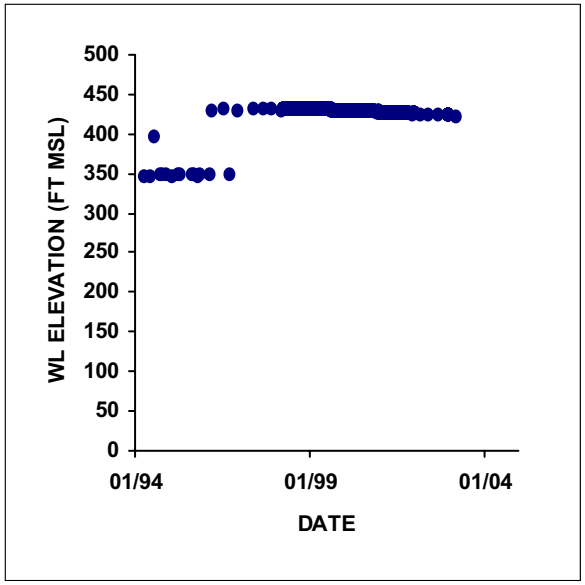

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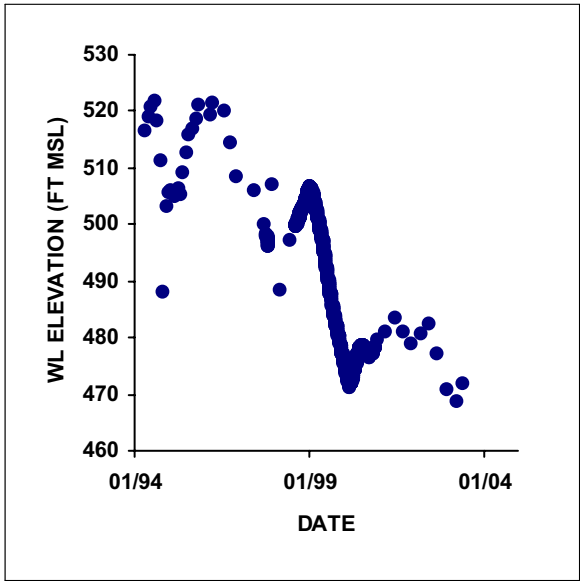
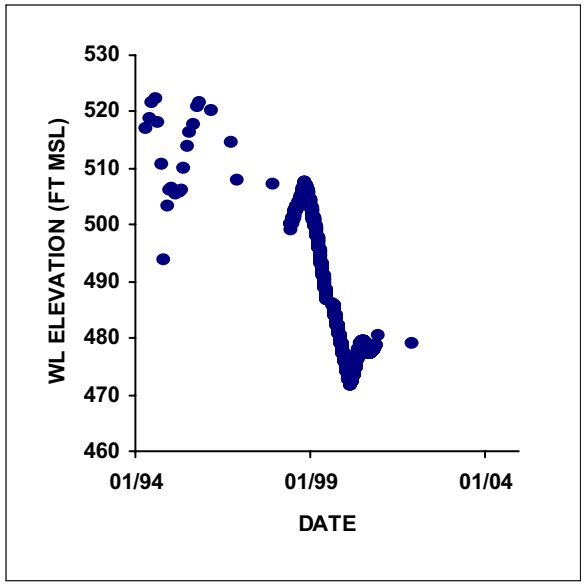


NH-C01-325

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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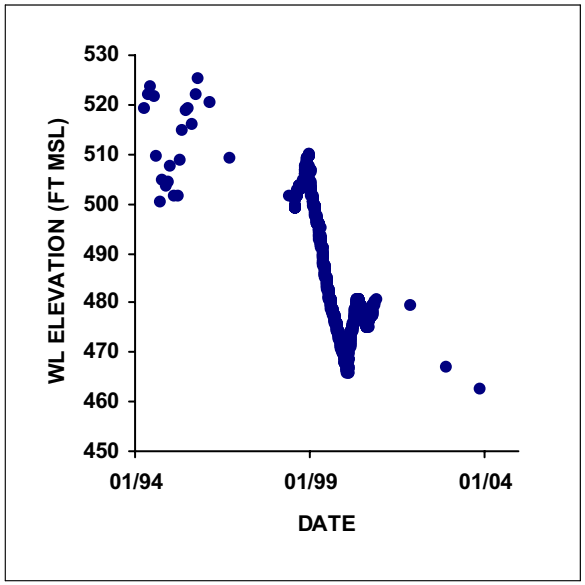

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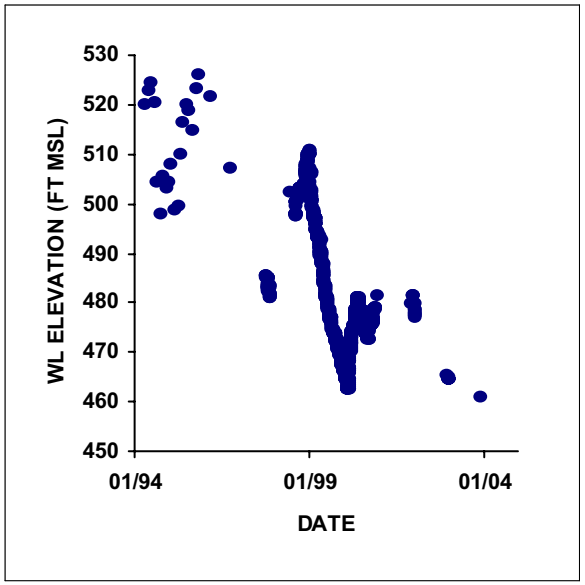

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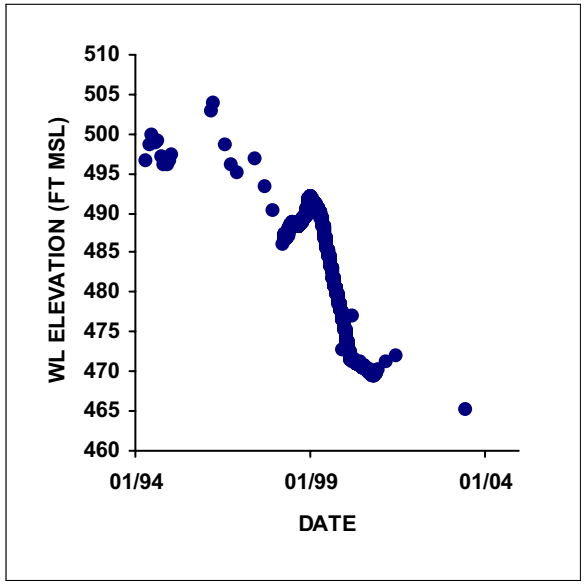

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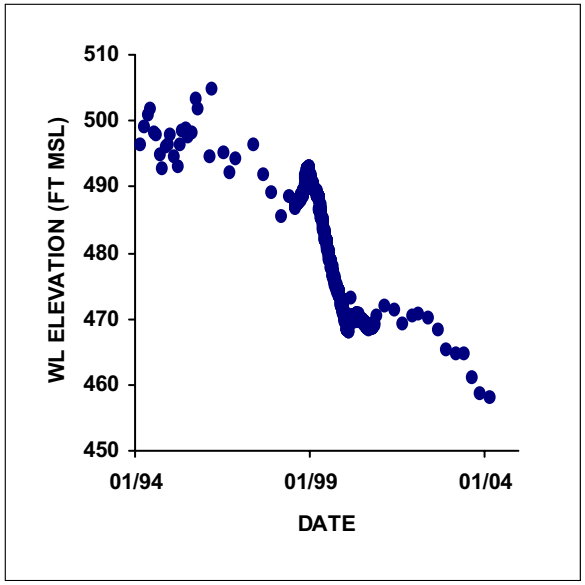

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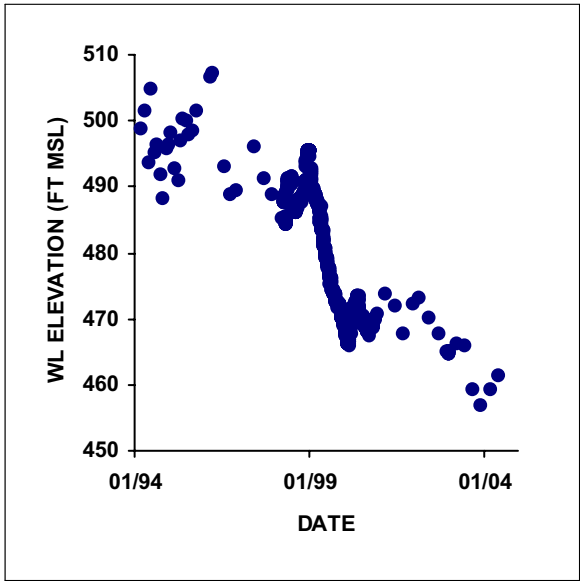
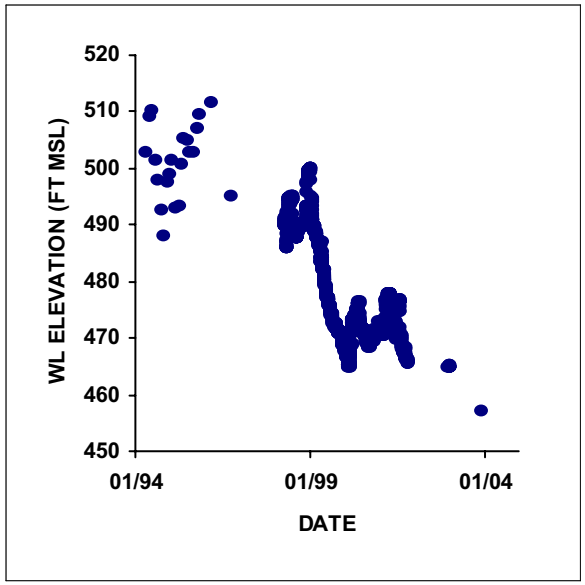


NH-C02-520

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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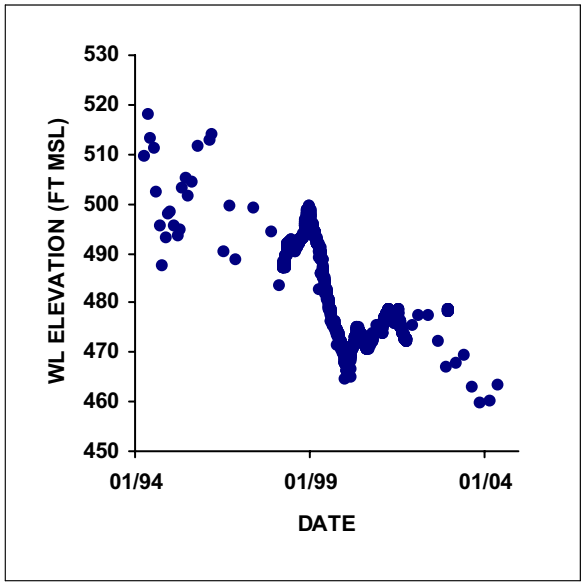

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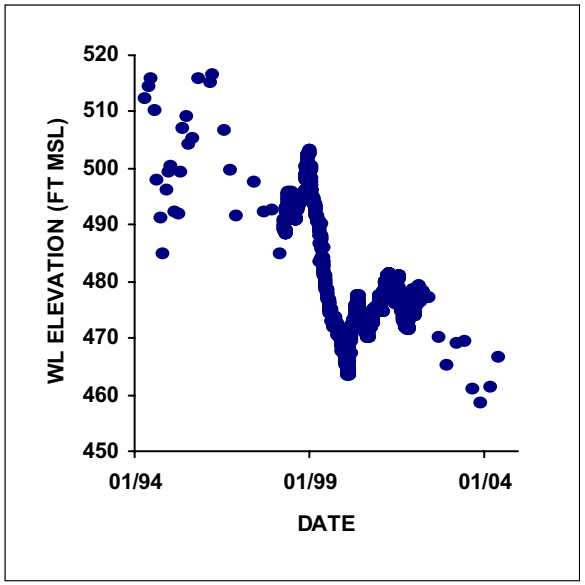

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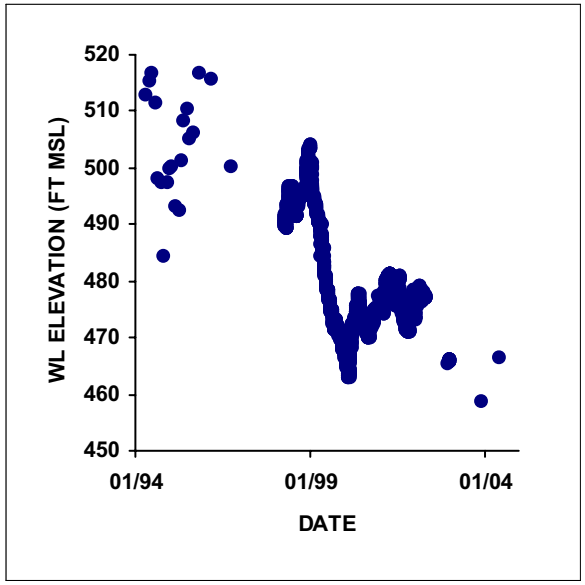

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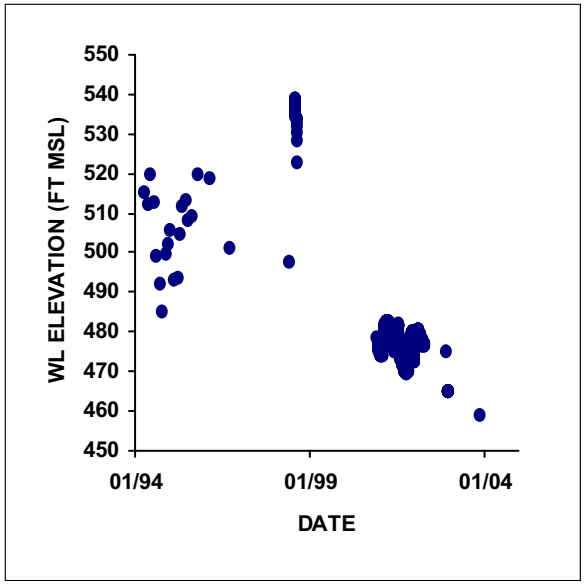

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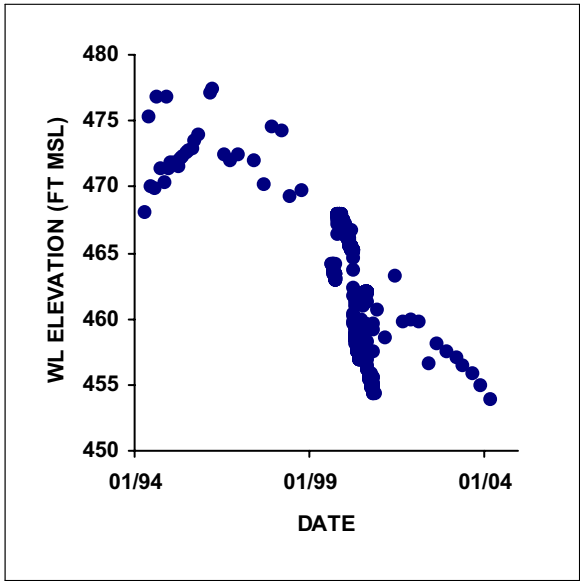
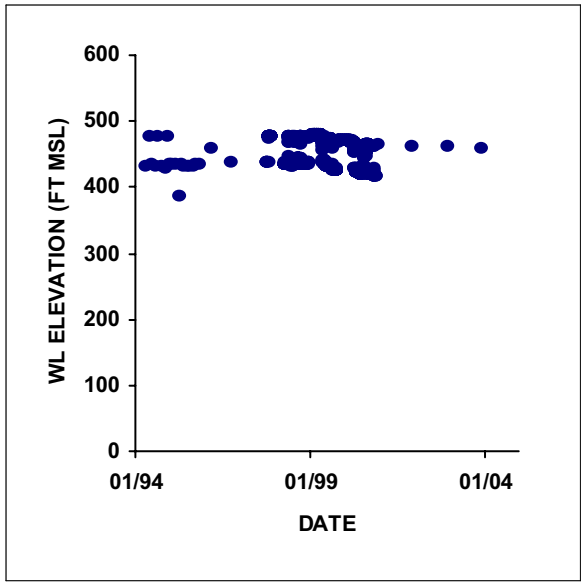


NH-C04-240

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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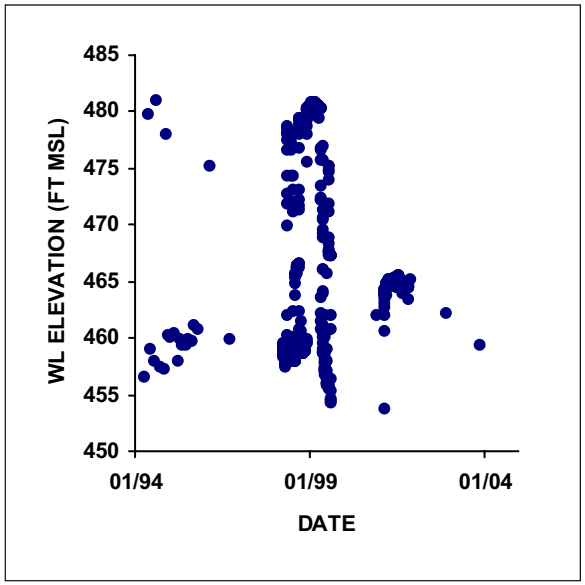

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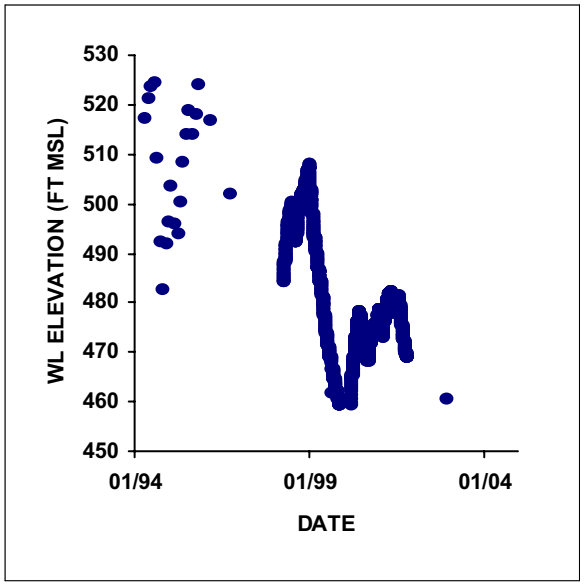

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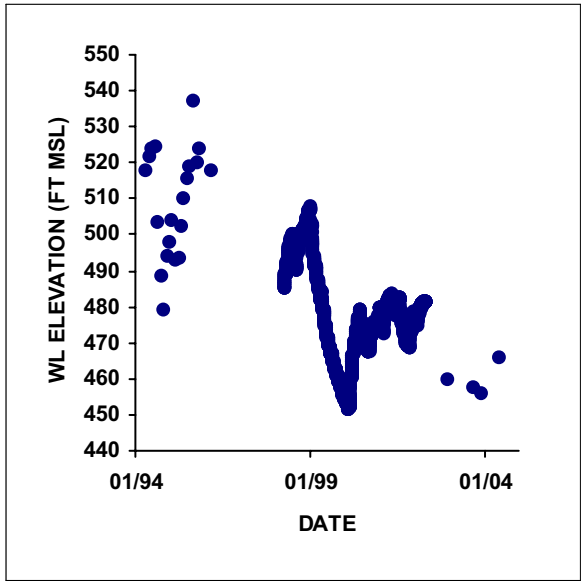

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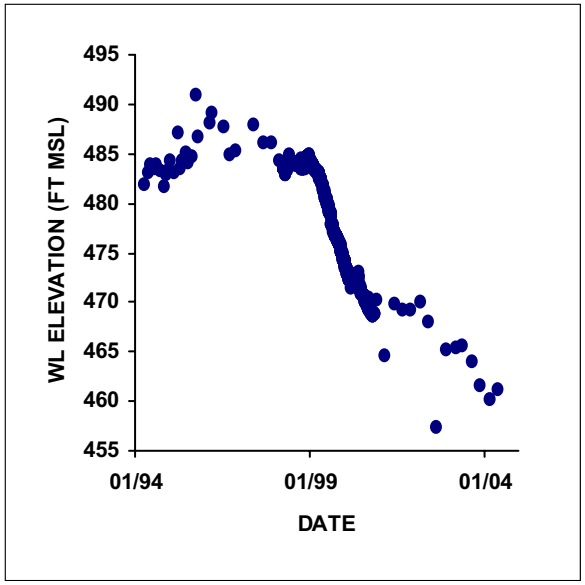

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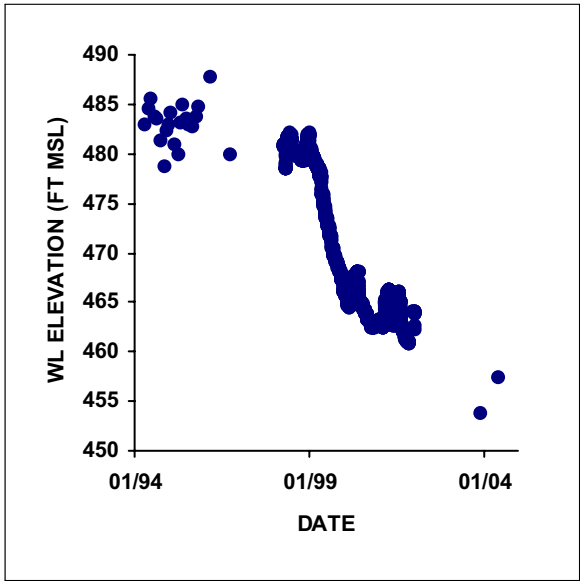
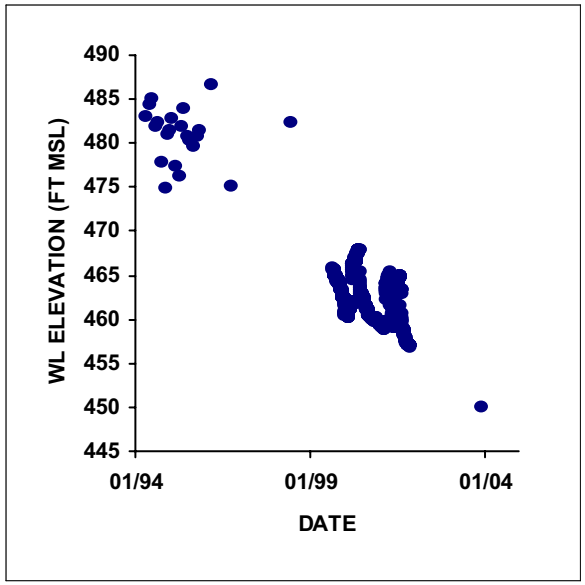


NH-C06-285

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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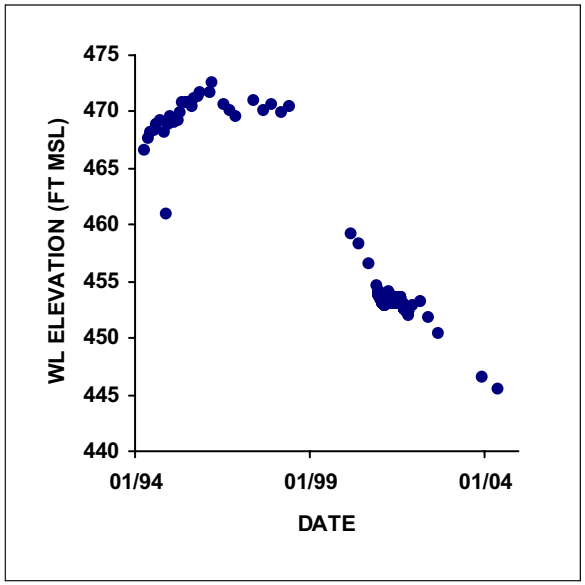

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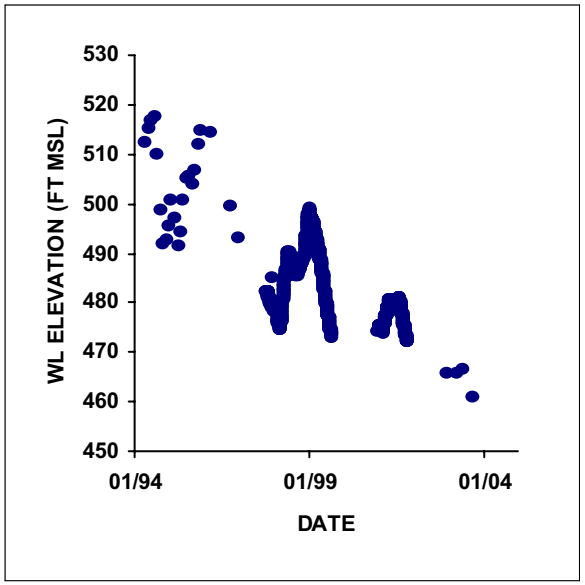

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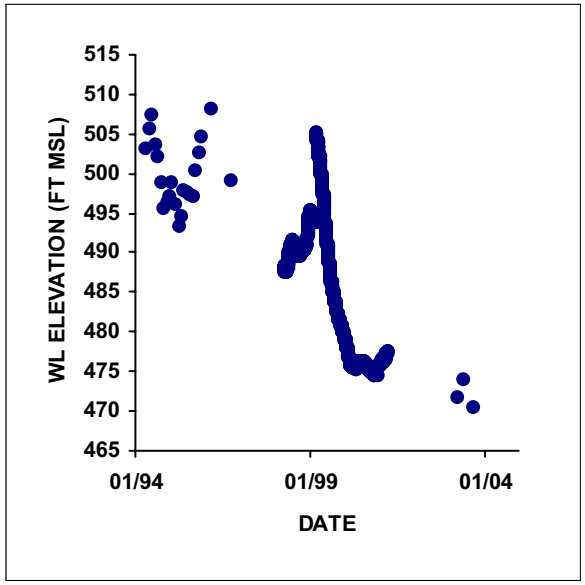
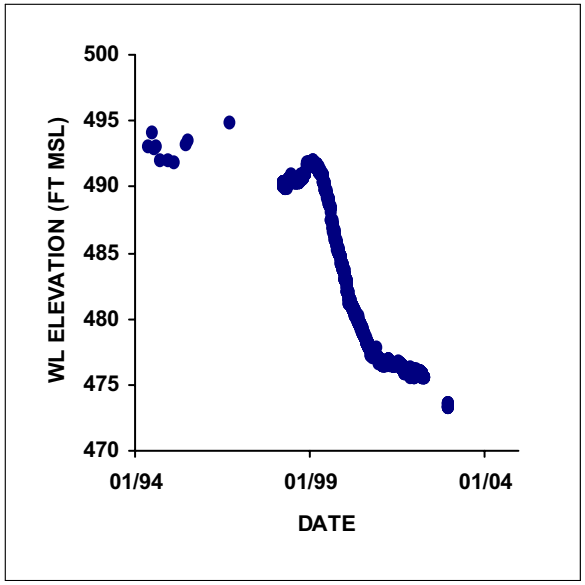


NH-VPB-03



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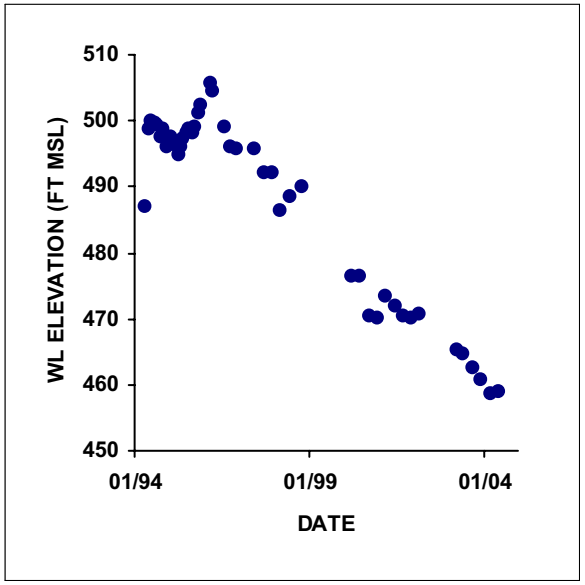
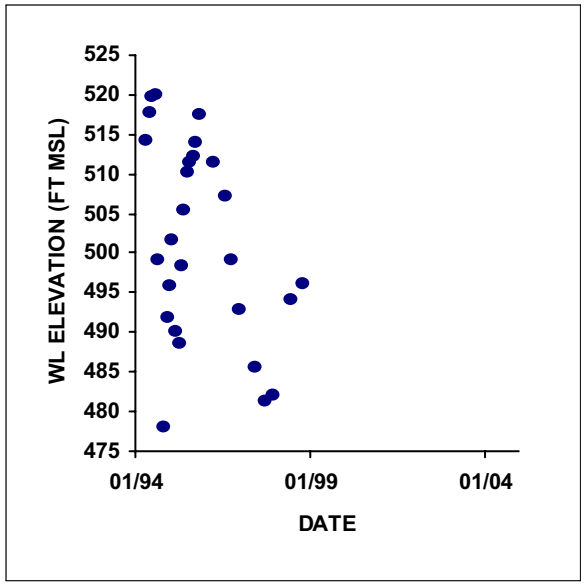


NH-VPB-05

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



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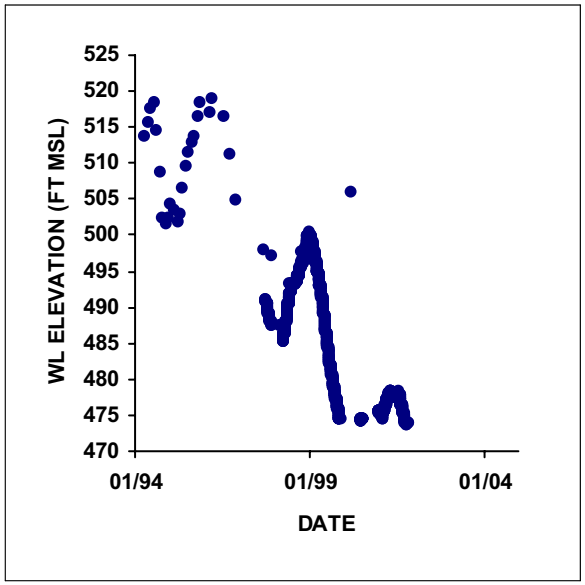
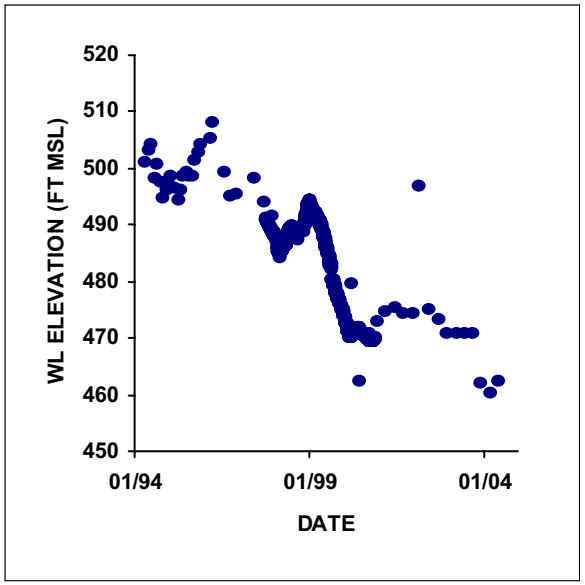
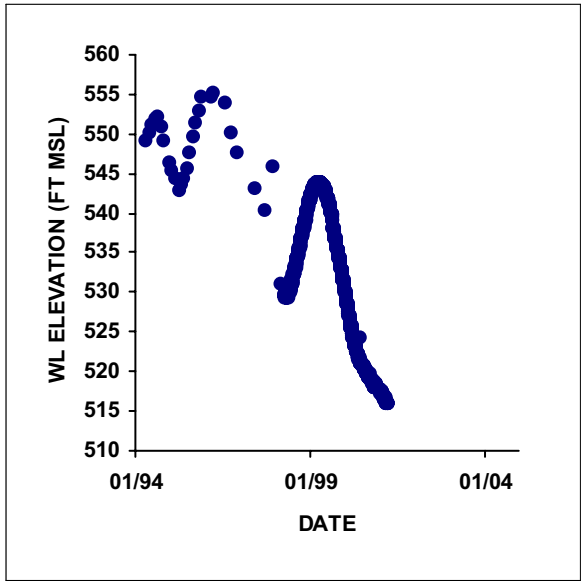


NH-VPB-07



NH-VPB-08



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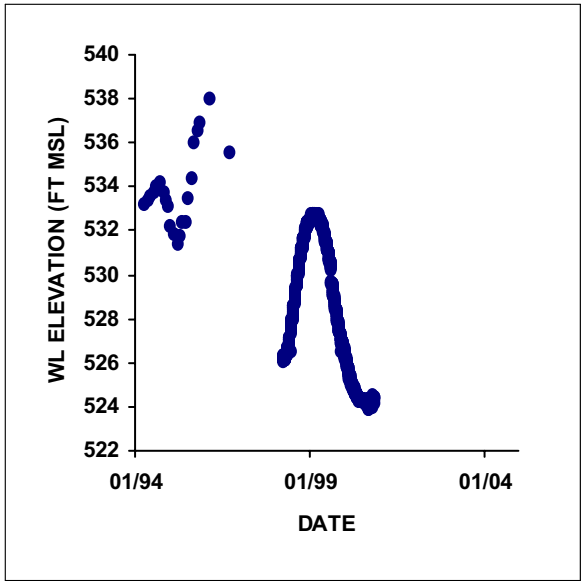

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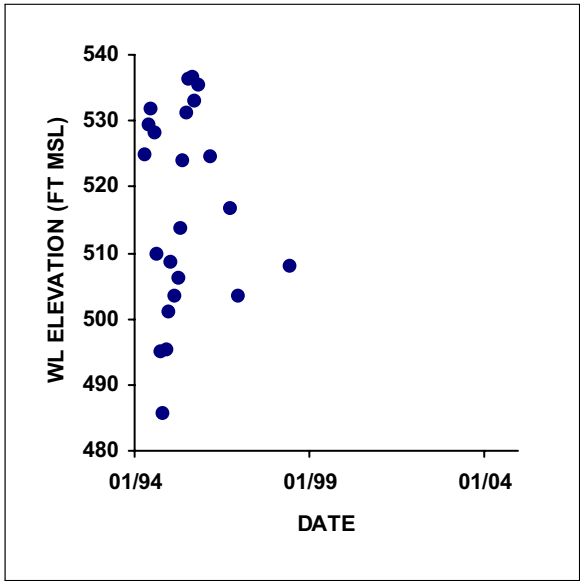
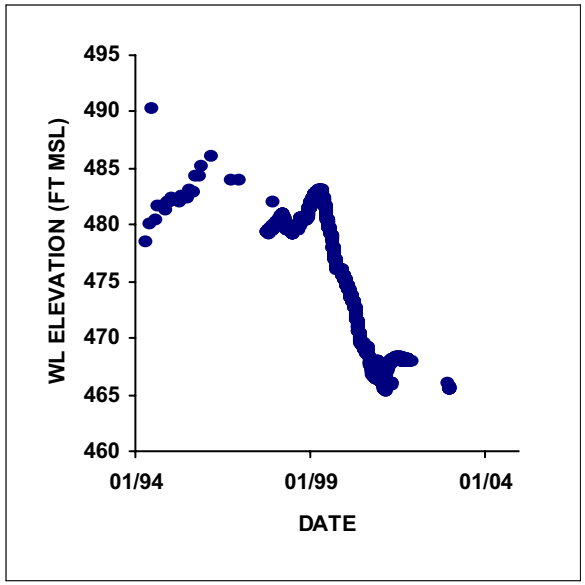
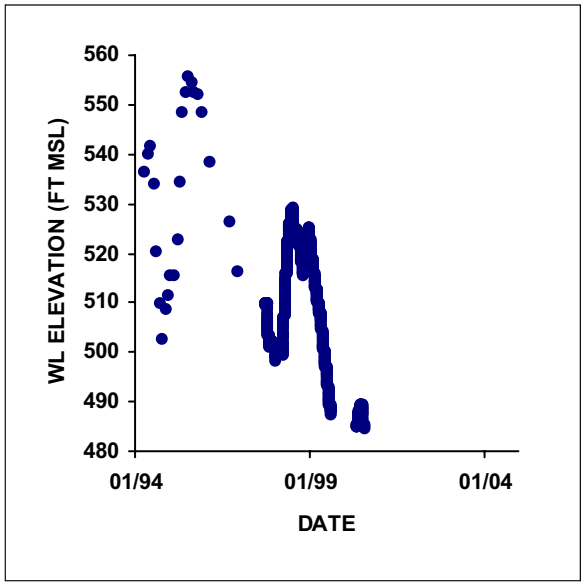


NH-VPB-11

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



NH-VPB-12



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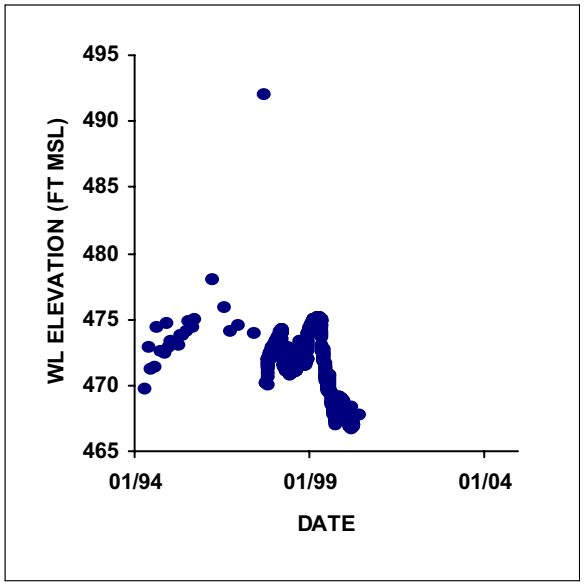

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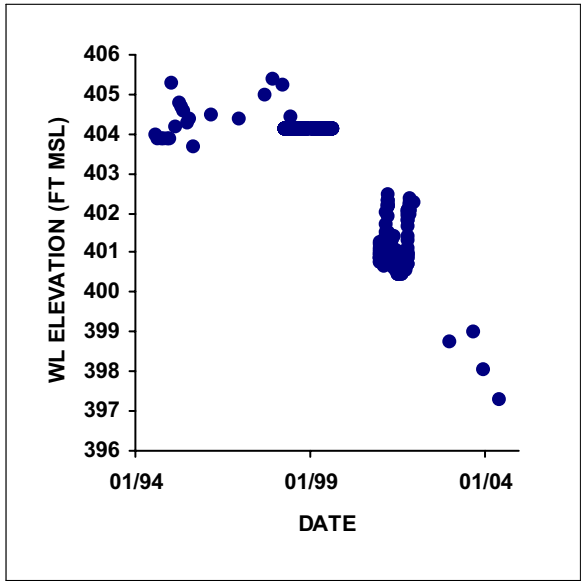
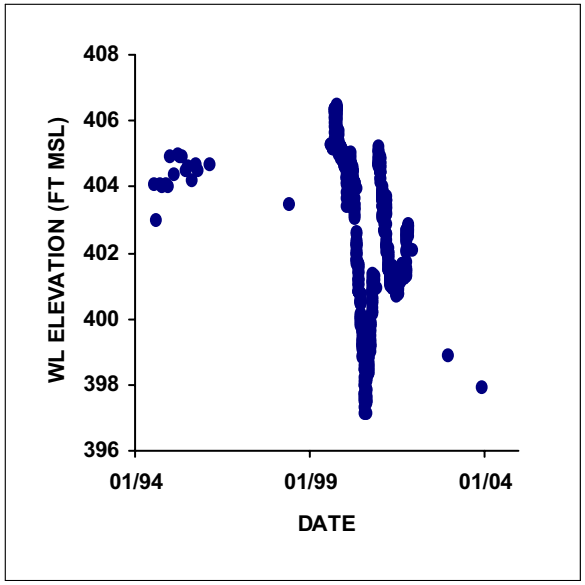


PO-C01-195



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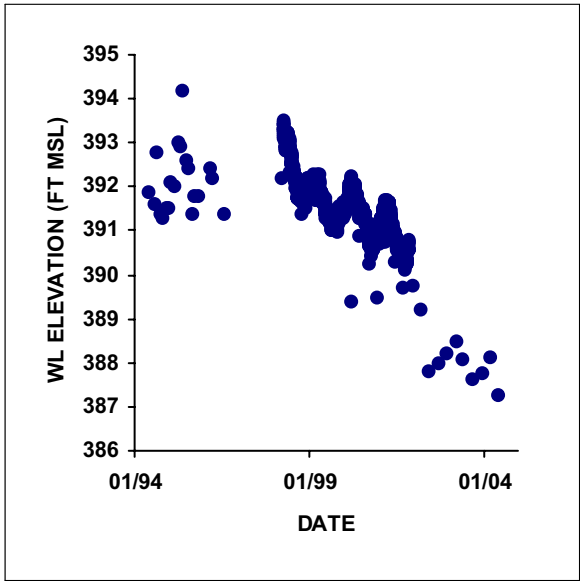
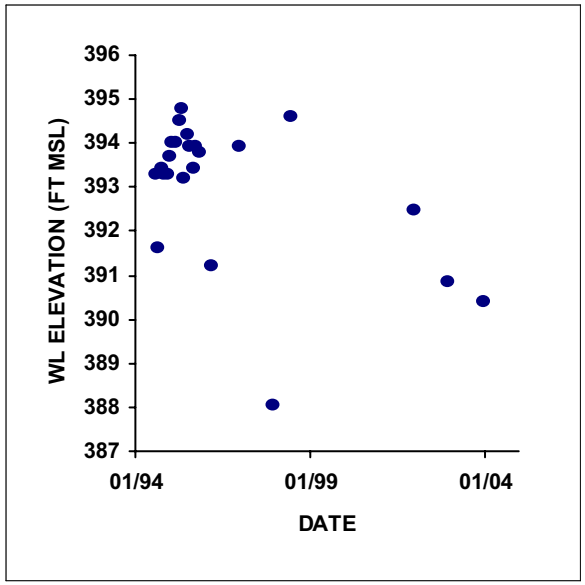
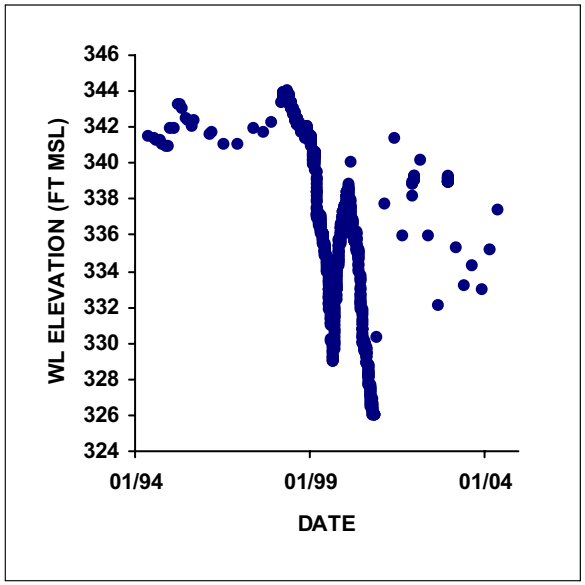


PO-C02-053

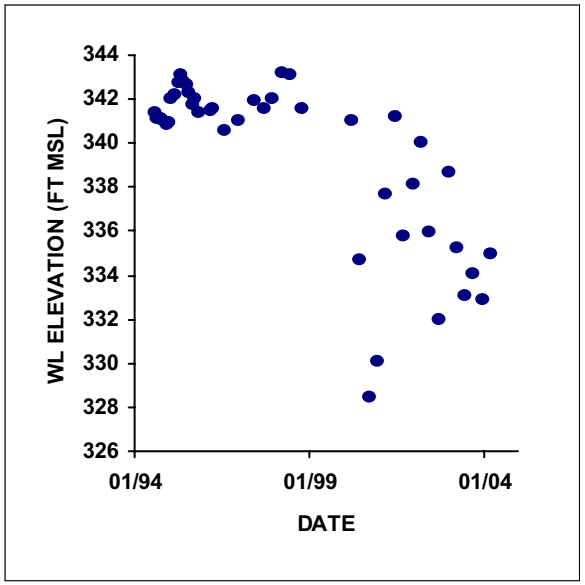
FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



PO-C02-205



PO-C03-182



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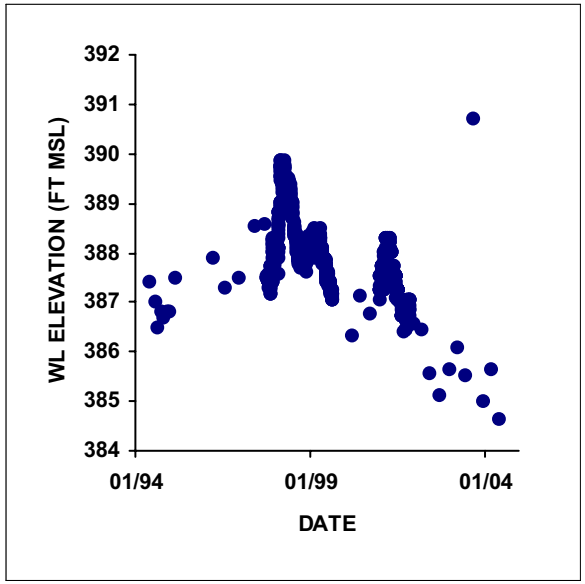
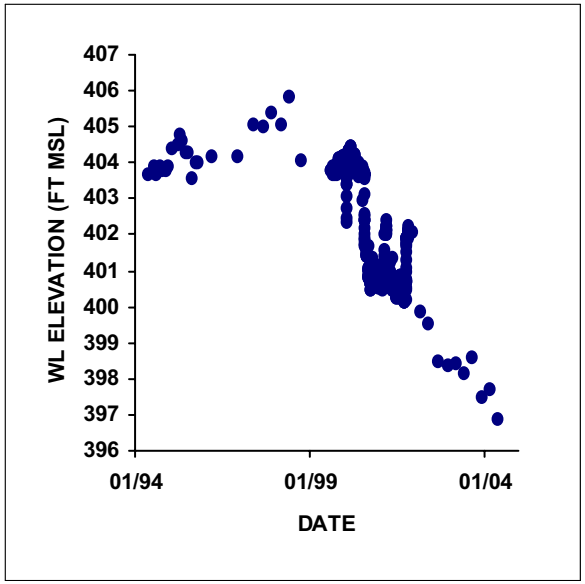
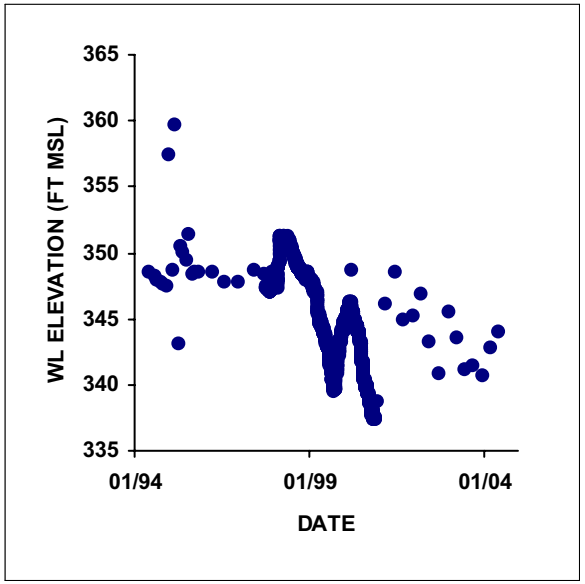


PO-VPB-01

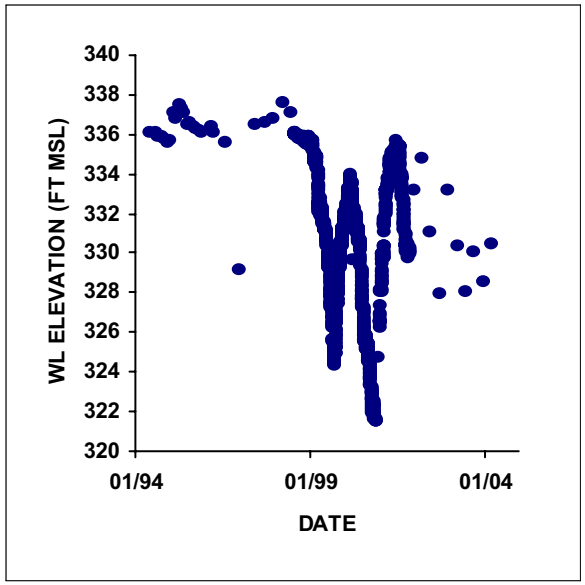


PO-VPB-02

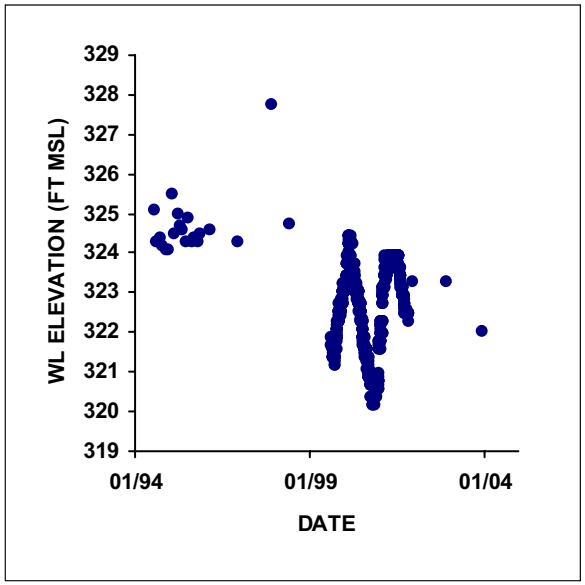


PO-VPB-03

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



PO-VPB-05



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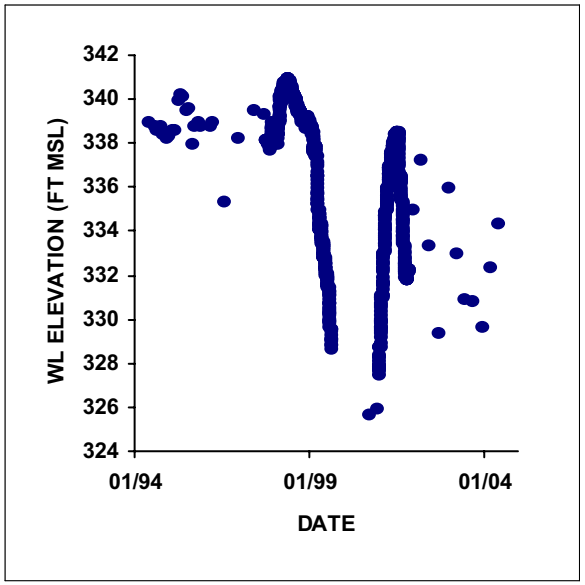
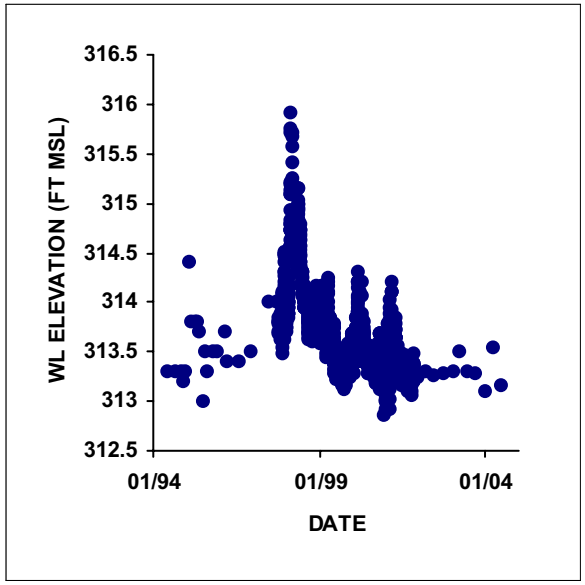


PO-VPB-07



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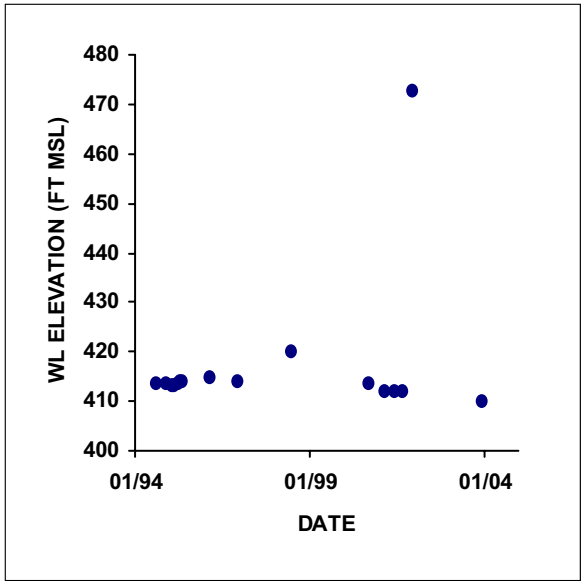

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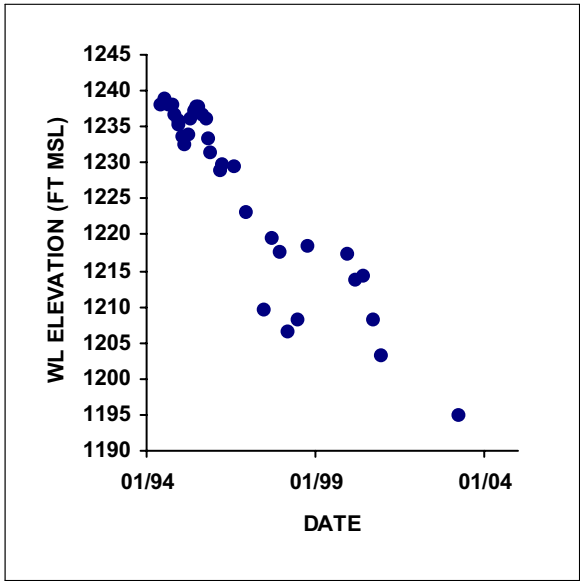
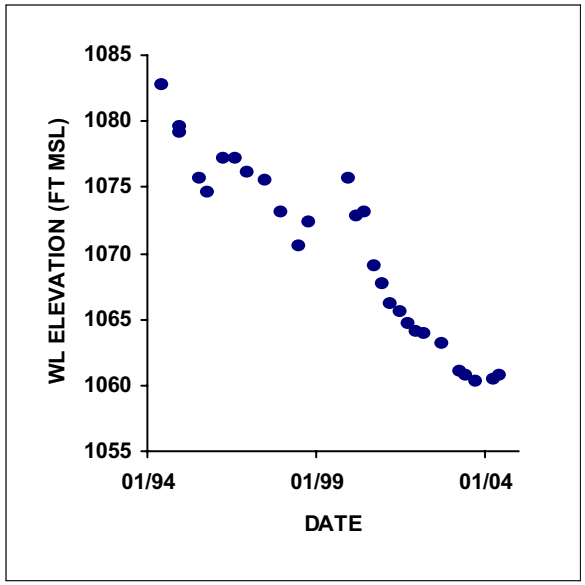
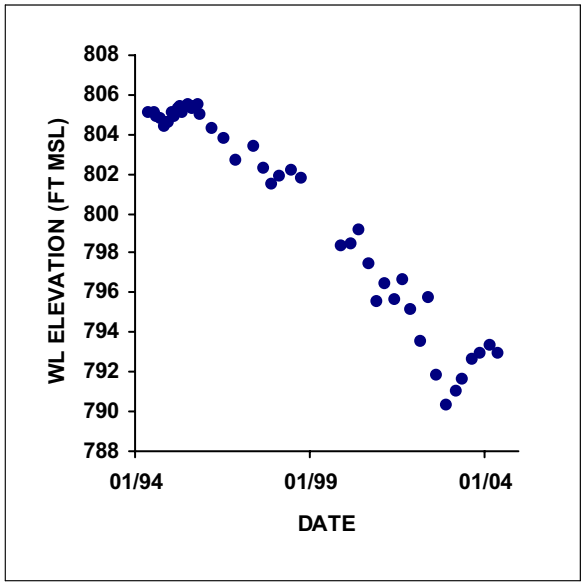


VD-VPB-01

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



VD-VPB-02



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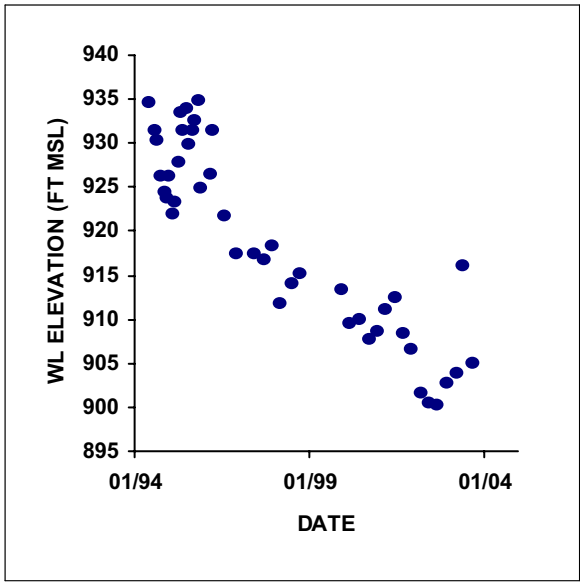

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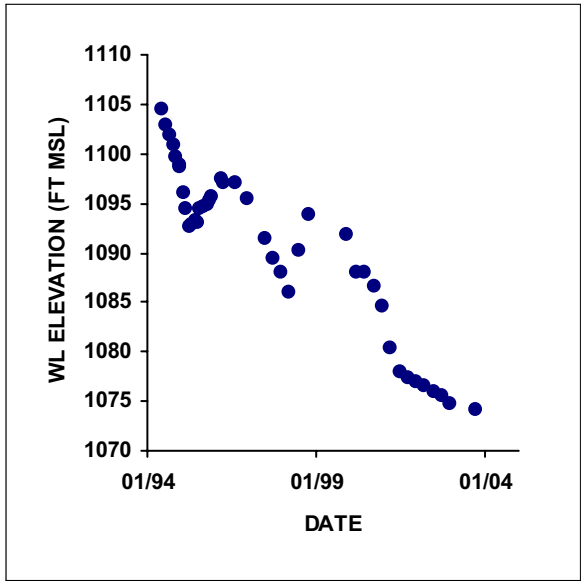

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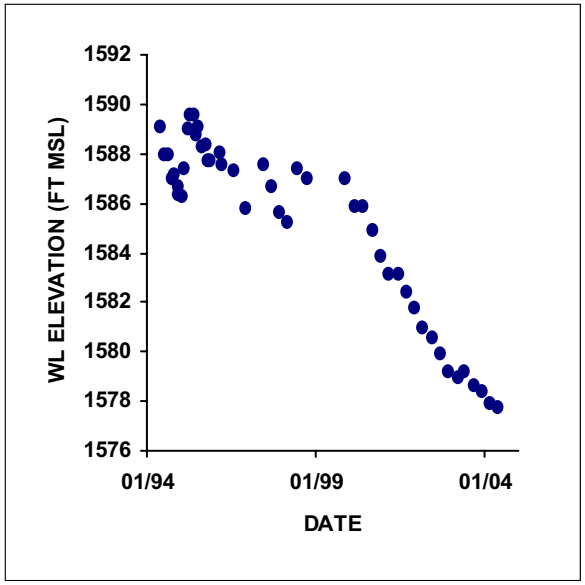

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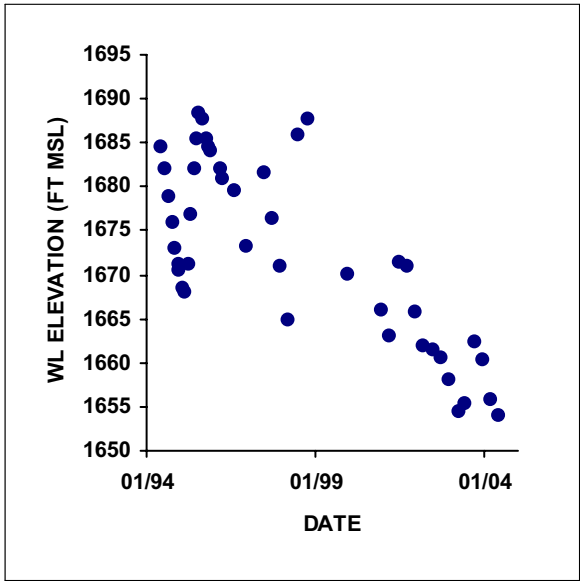
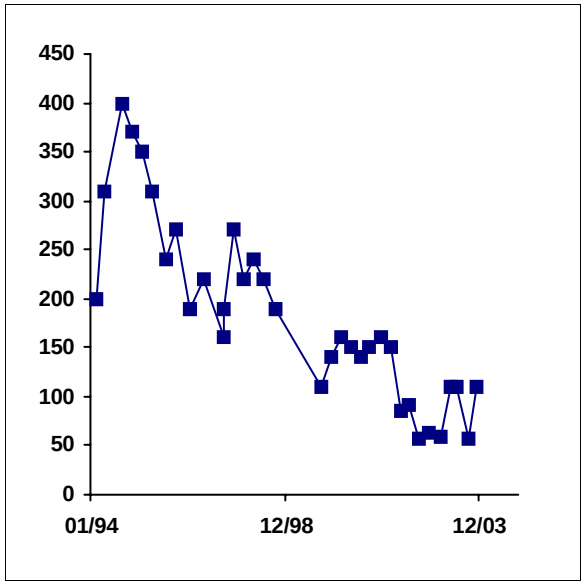
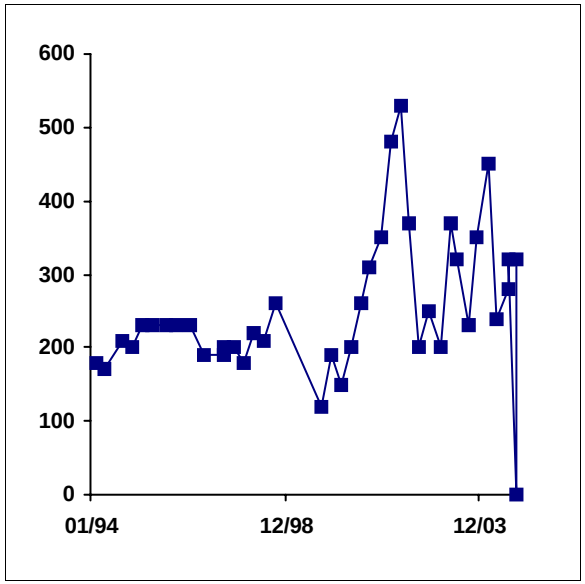


VD-VPB-07

FIGURE 3-1 HYDROGRAPHS OF RI MONITORING WELLS



CS-C01-105



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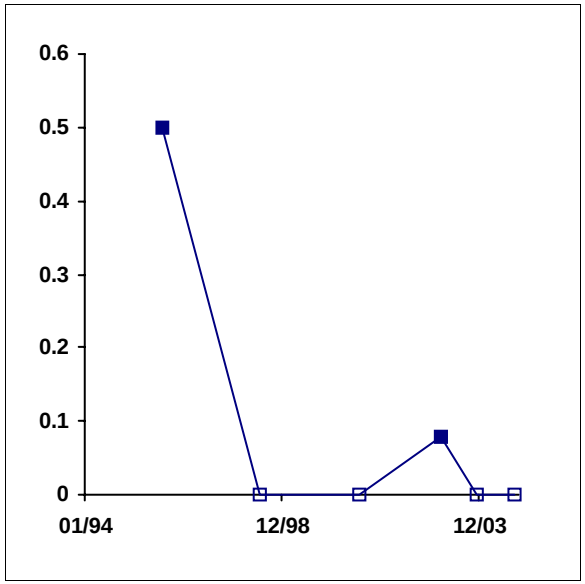

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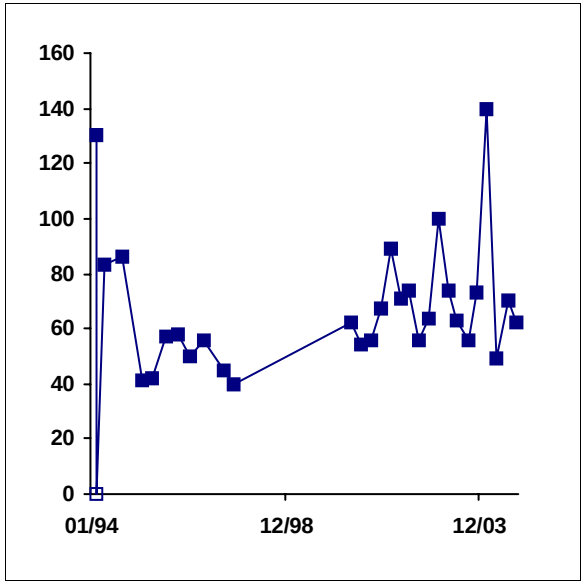

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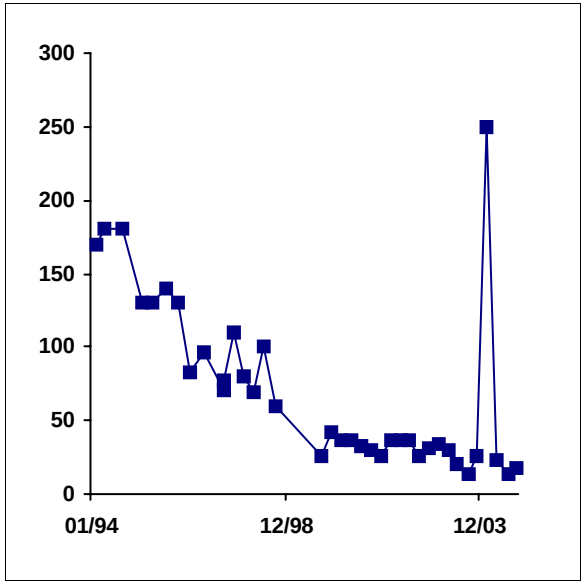

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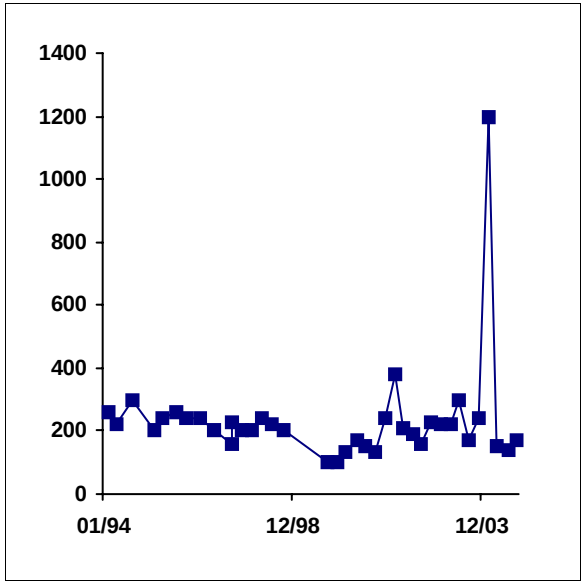
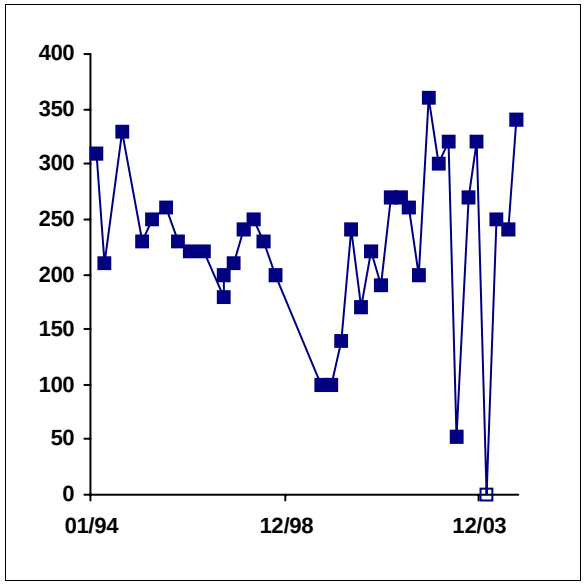
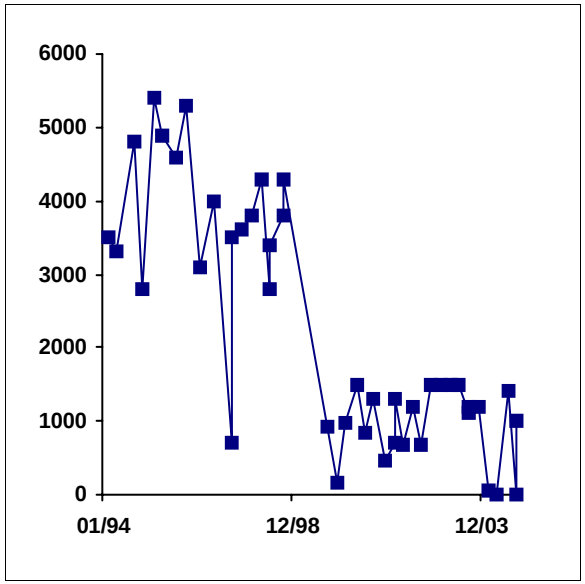


CS-C02-250

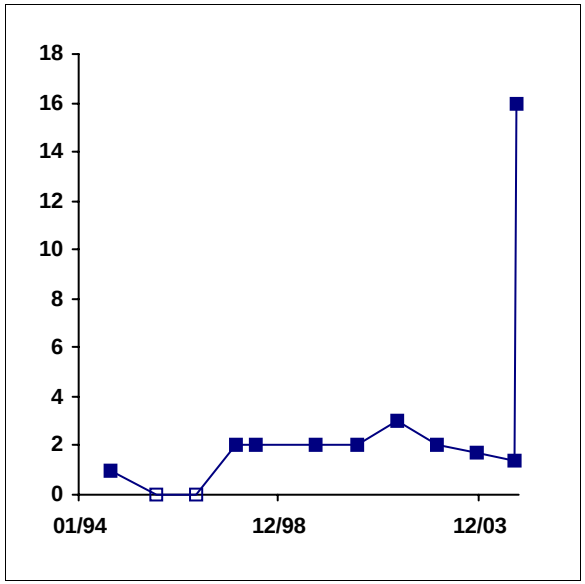
FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



CS-C02-335



CS-C03-100



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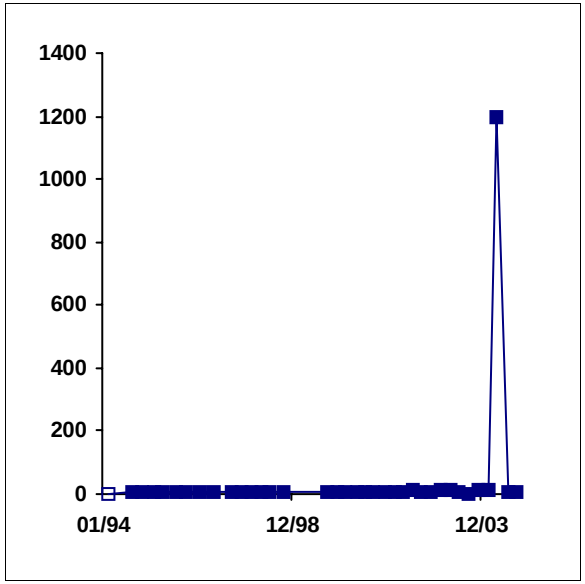

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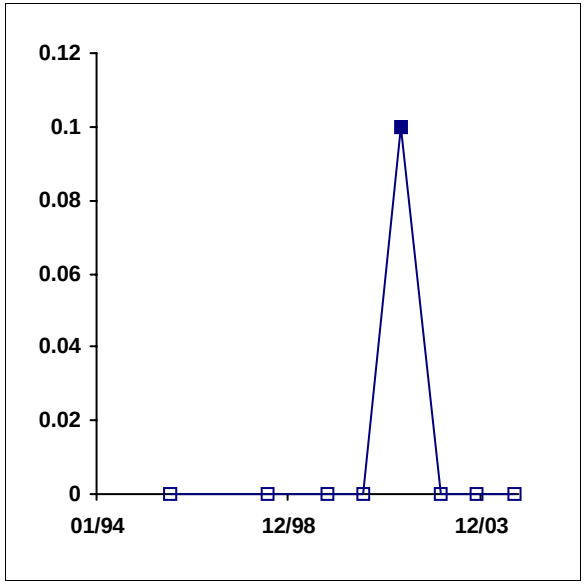

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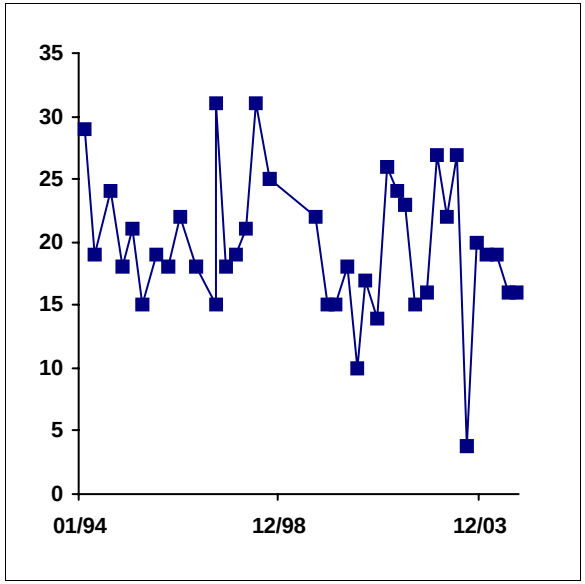
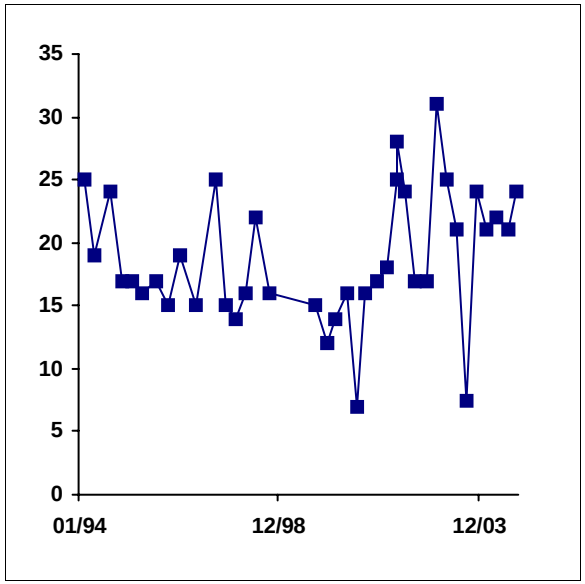
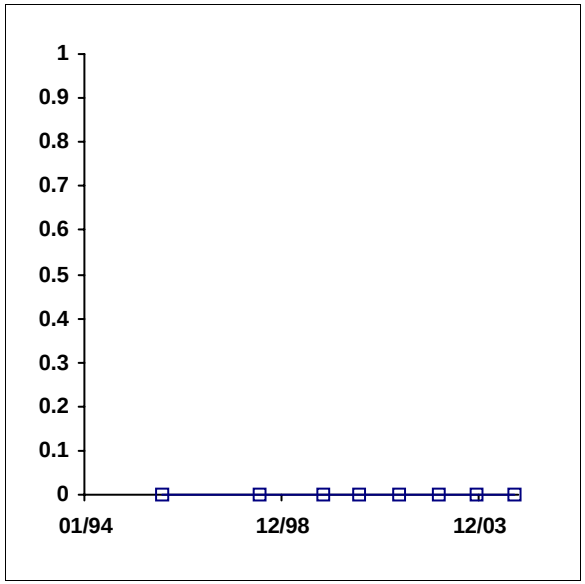


CS-C04-290

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



CS-C04-382



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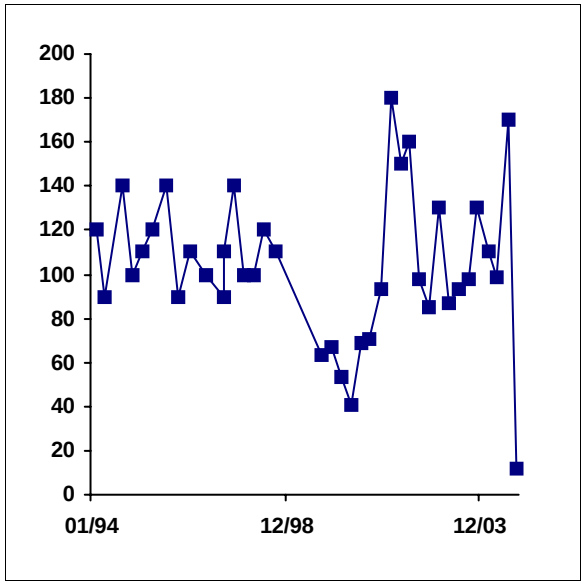

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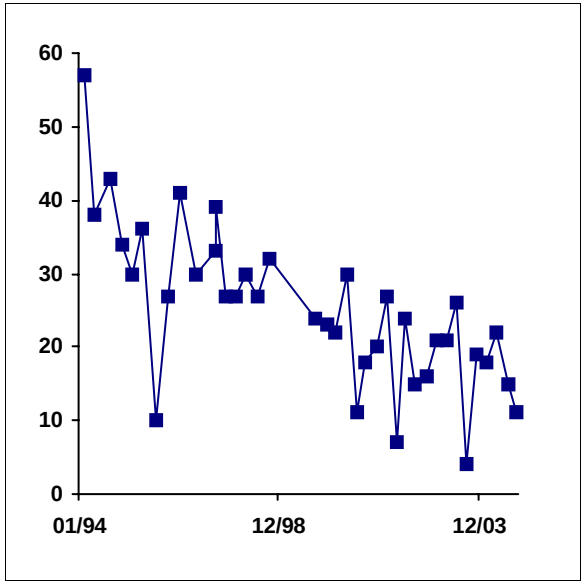
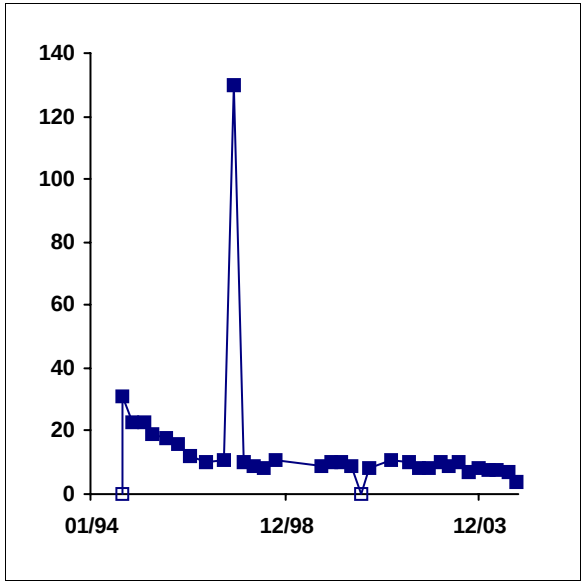
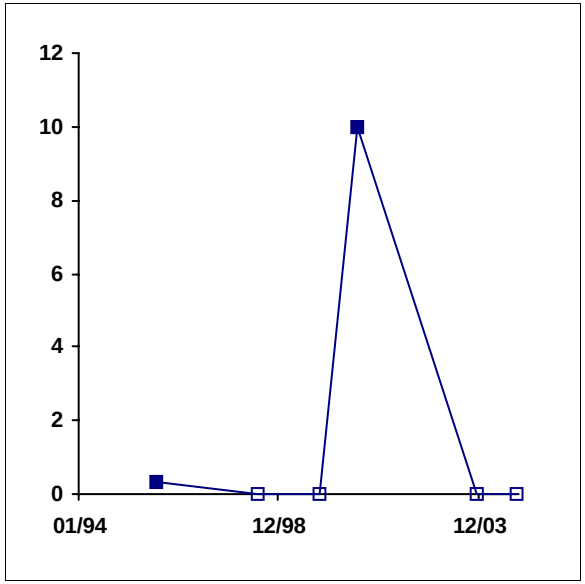


CS-C05-290

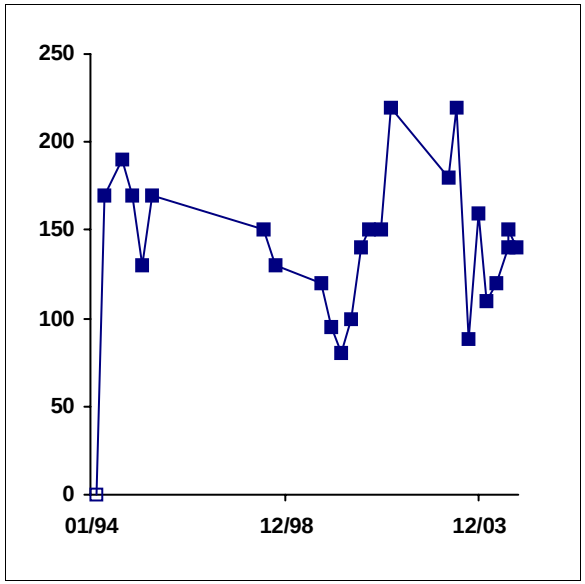


CS-C06-185

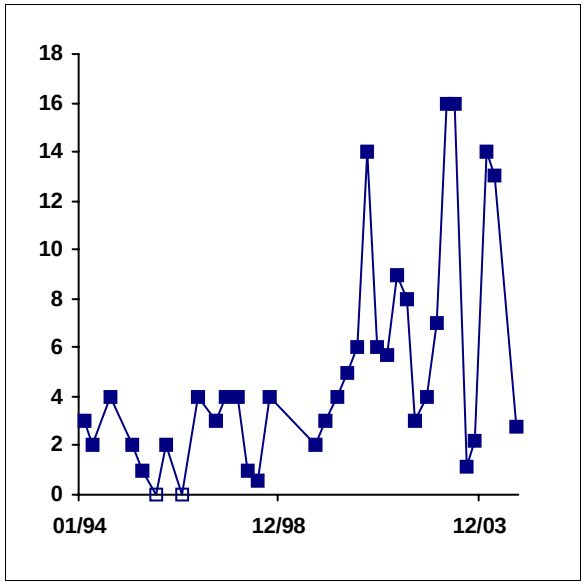


CS-C06-278

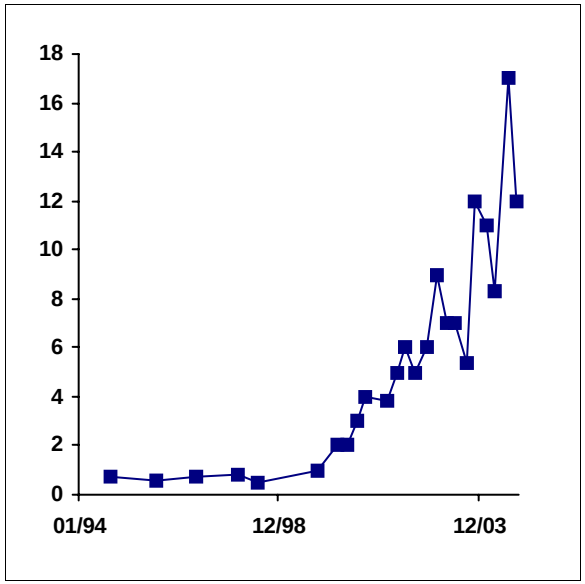
FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



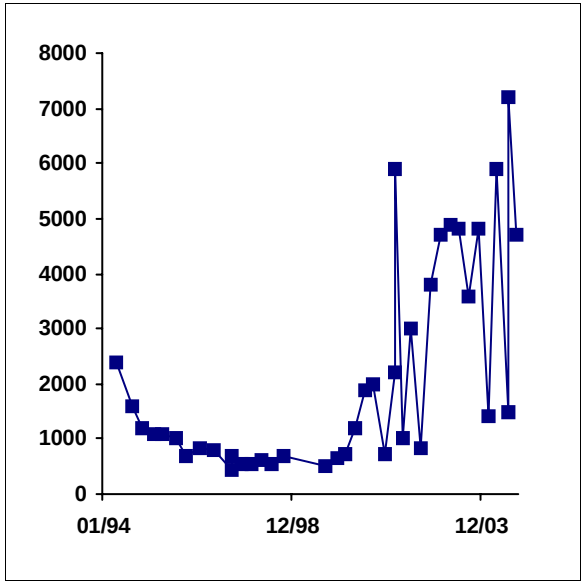
CS-VPB-01



CS-VPB-02



CS-VPB-03



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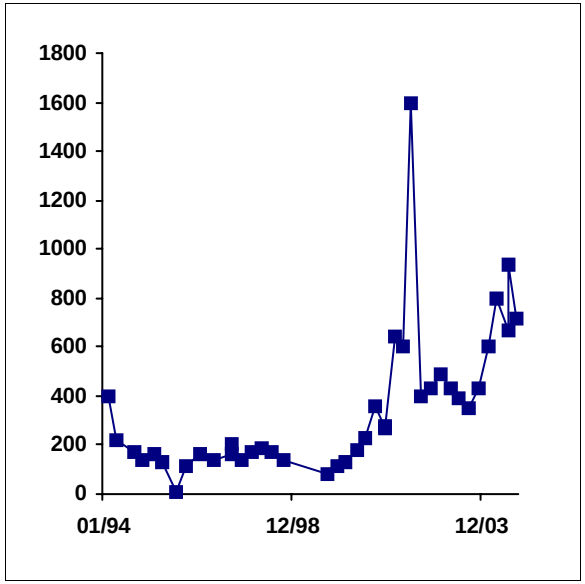
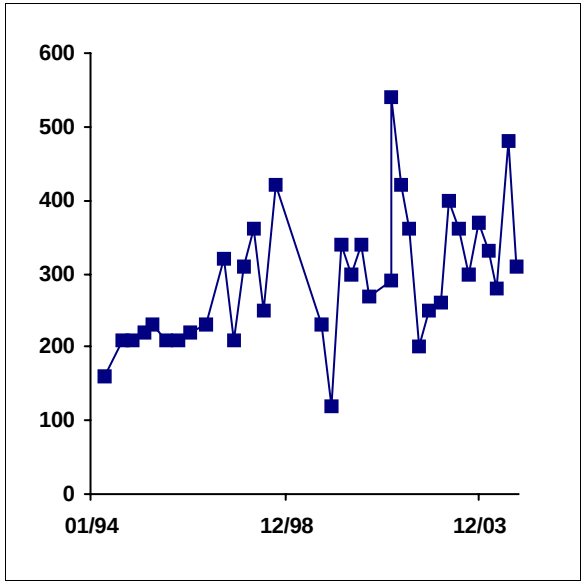
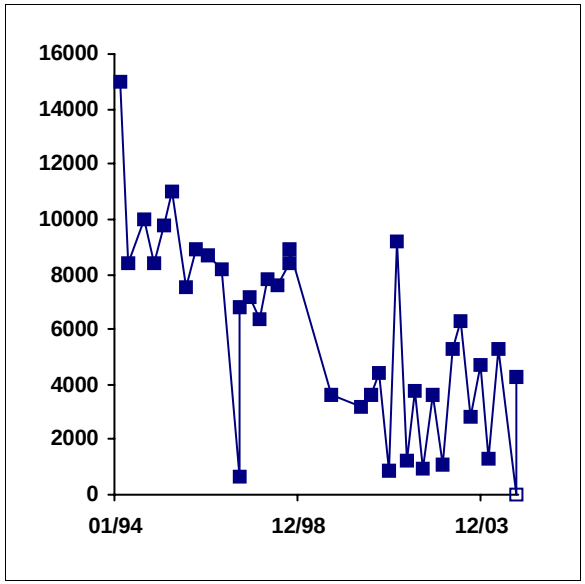


CS-VPB-05

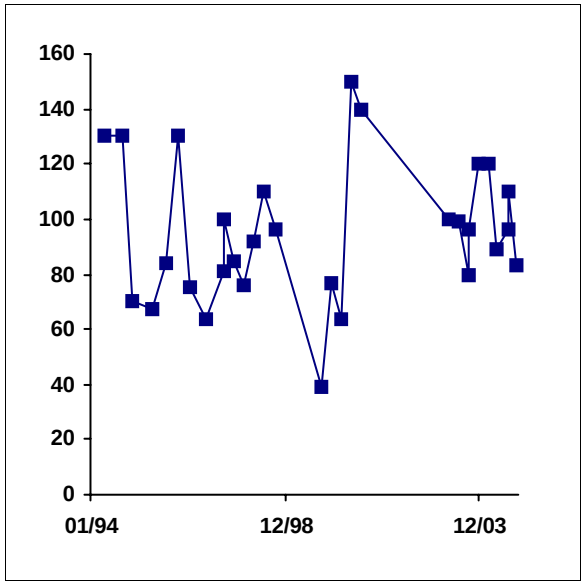


CS-VPB-06

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



CS-VPB-07



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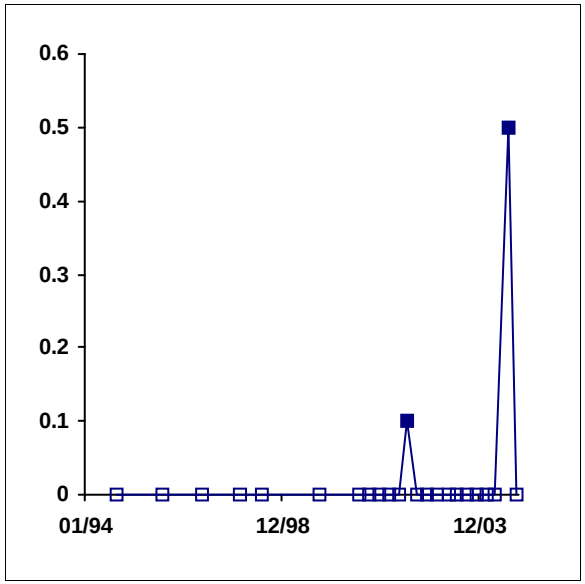

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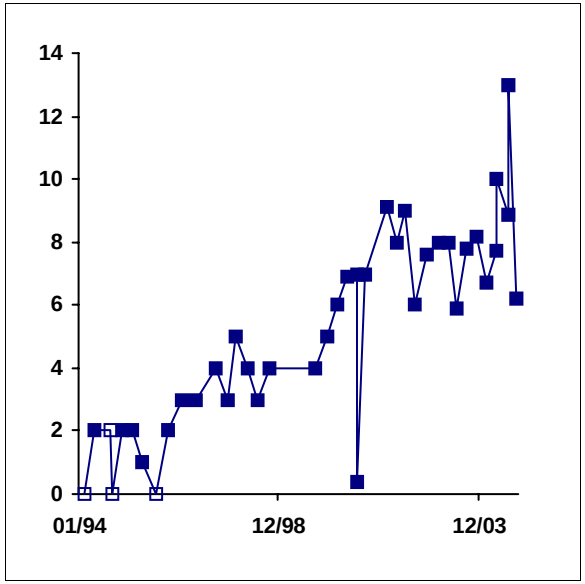

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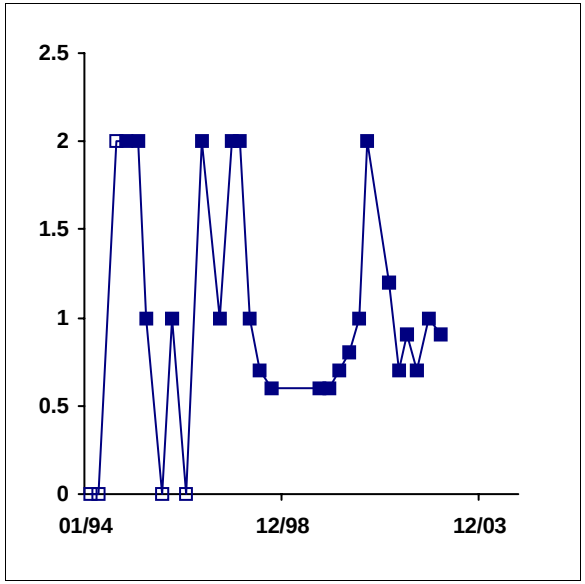

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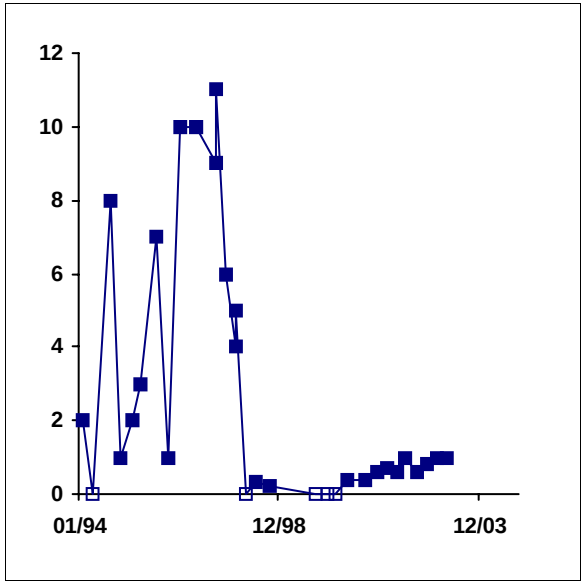
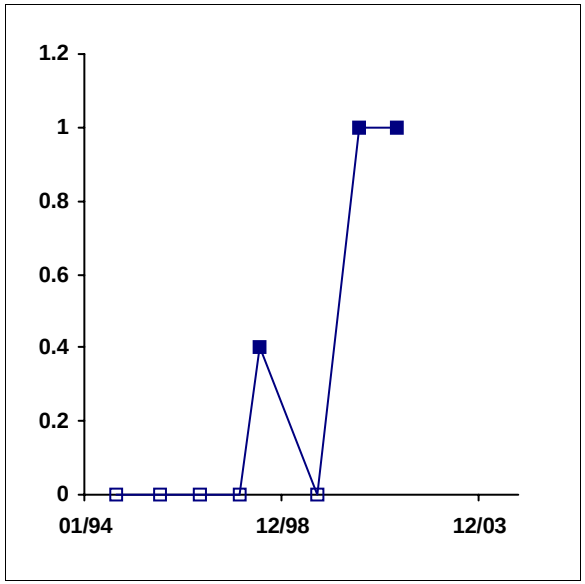


NH-C01-325

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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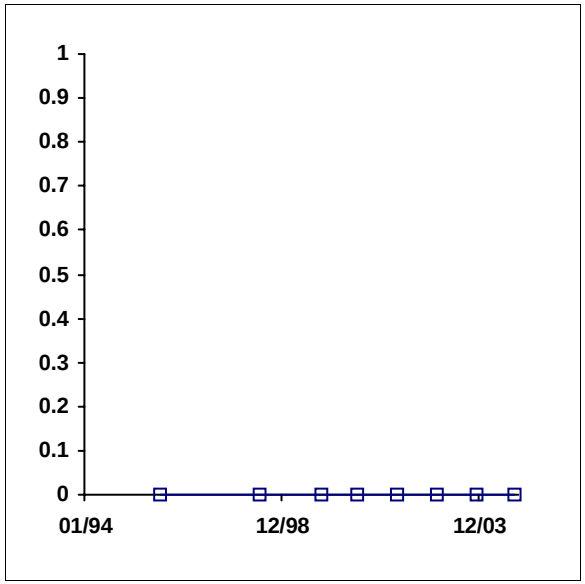

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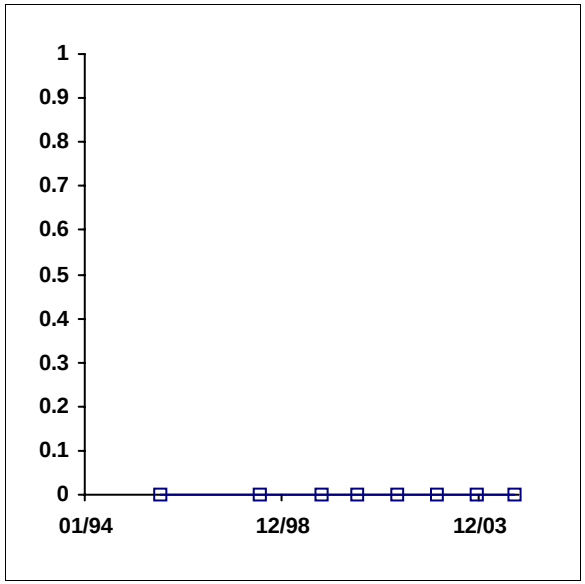

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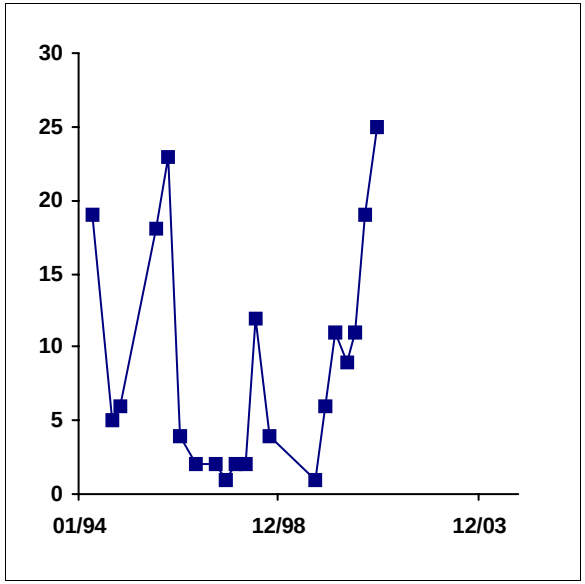

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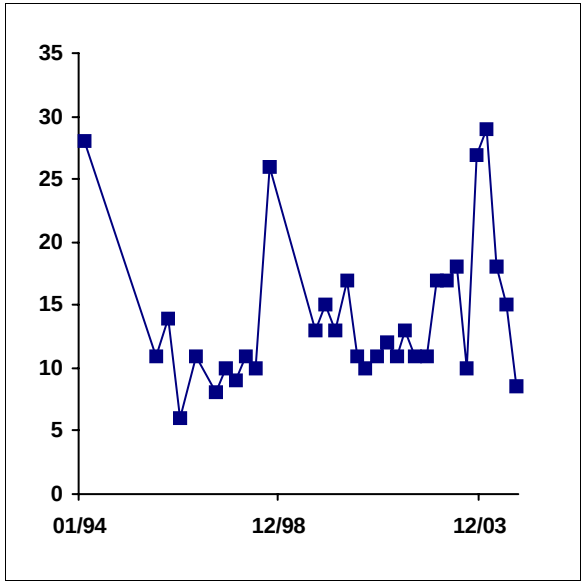

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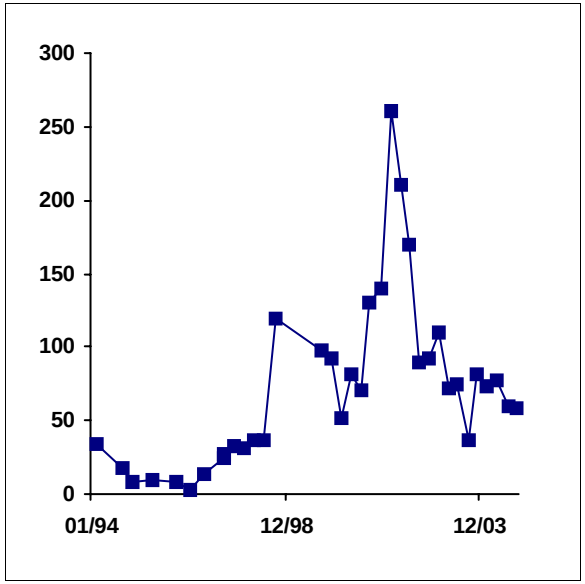

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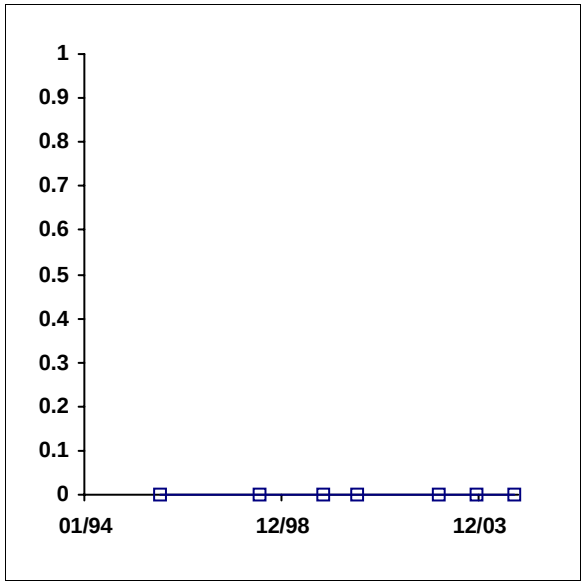
FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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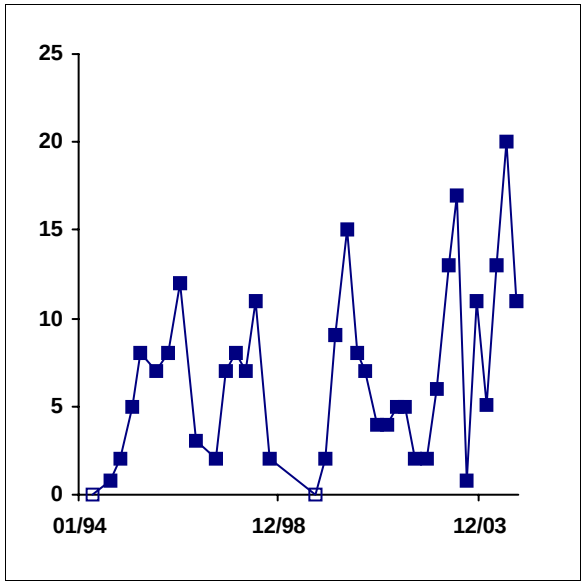

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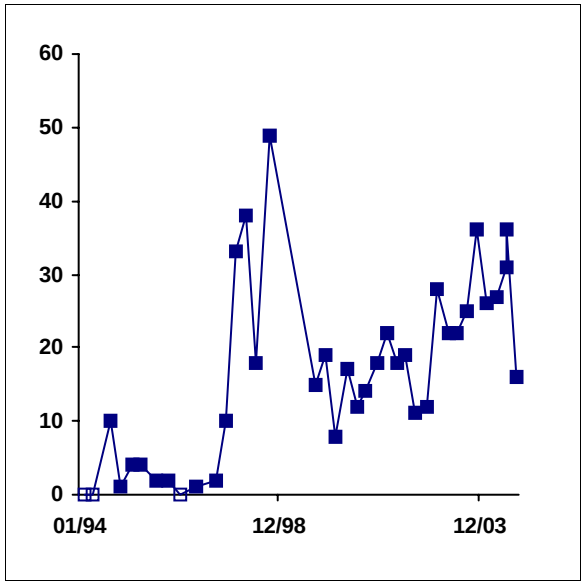

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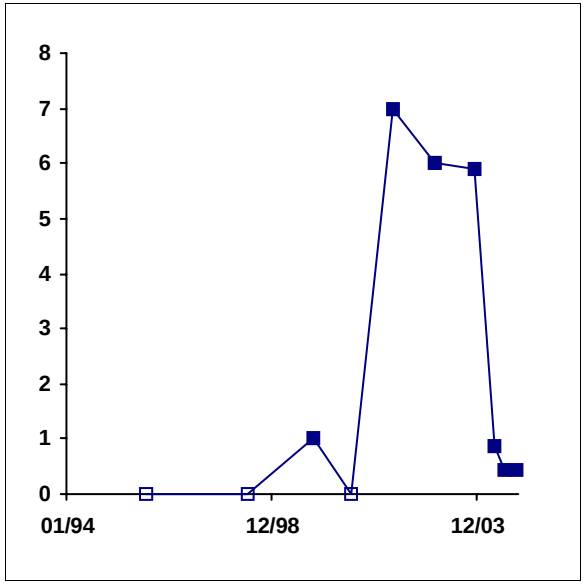

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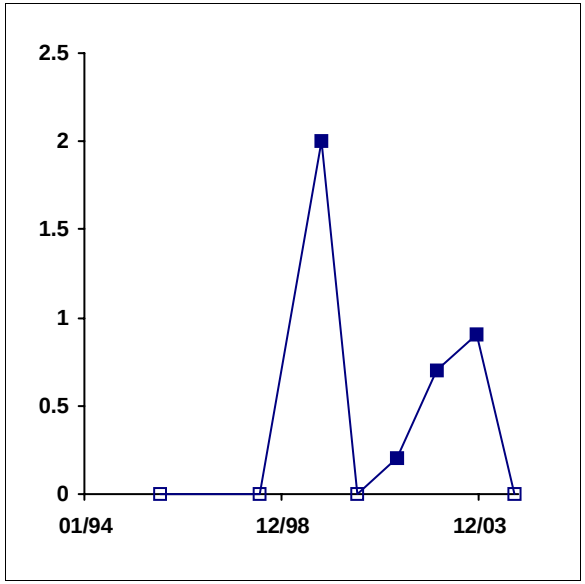

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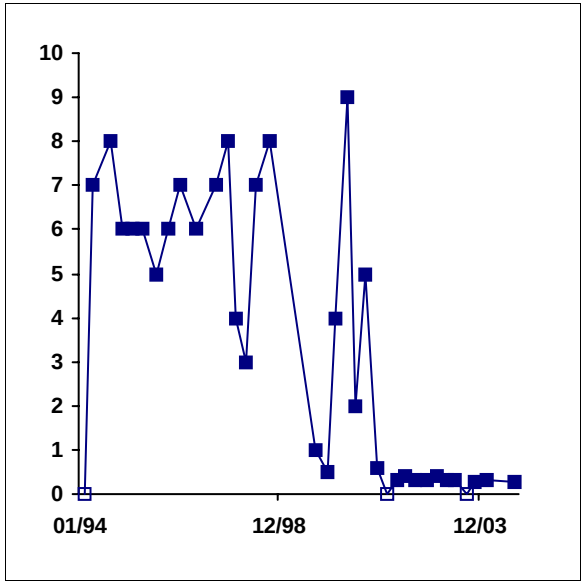

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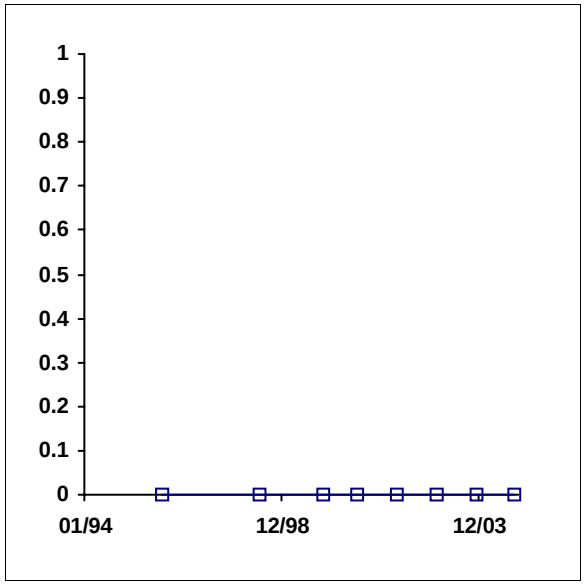
FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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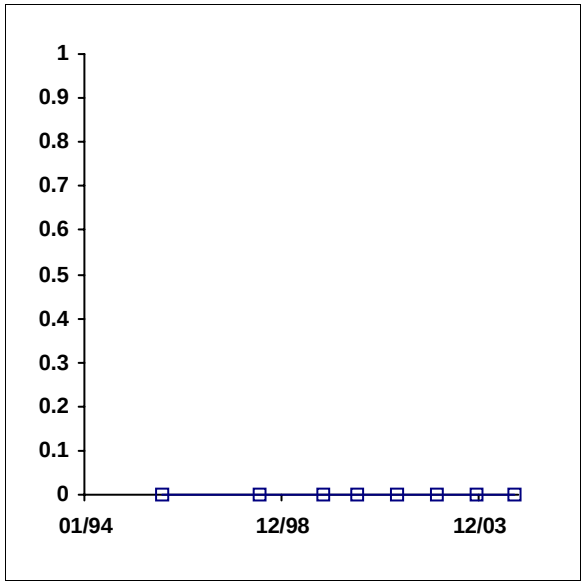

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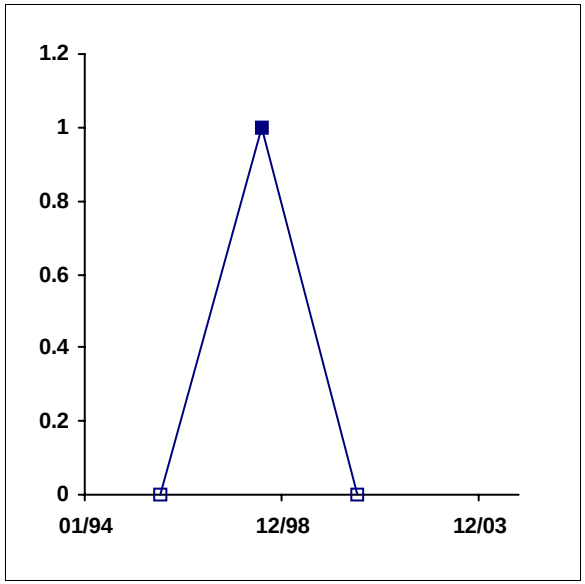

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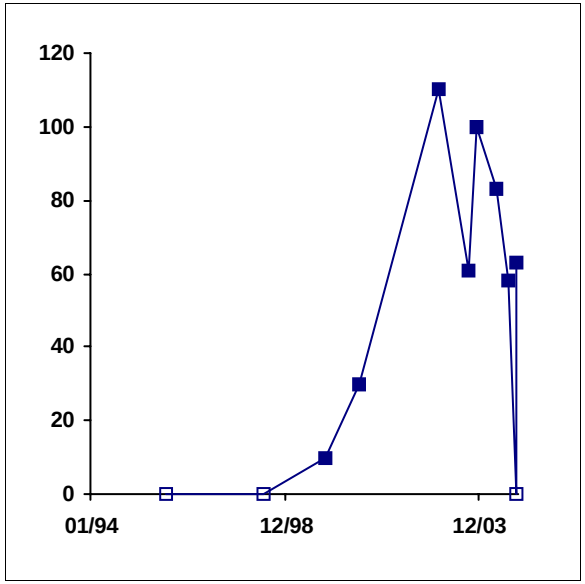

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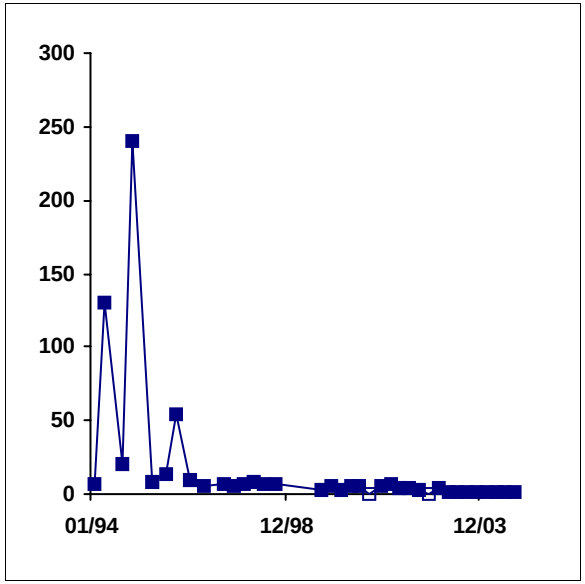

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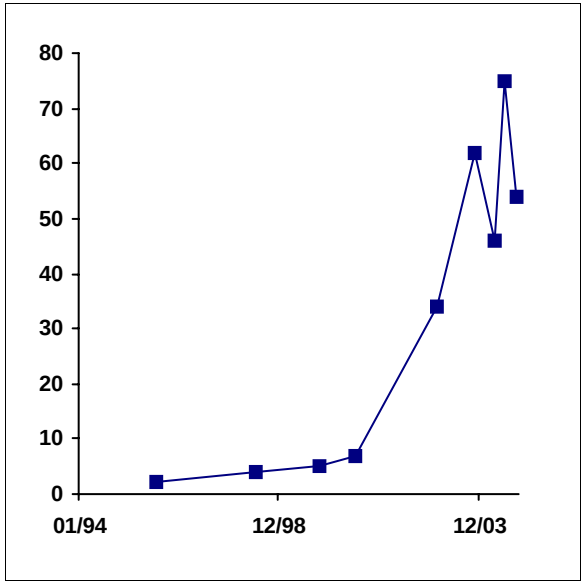

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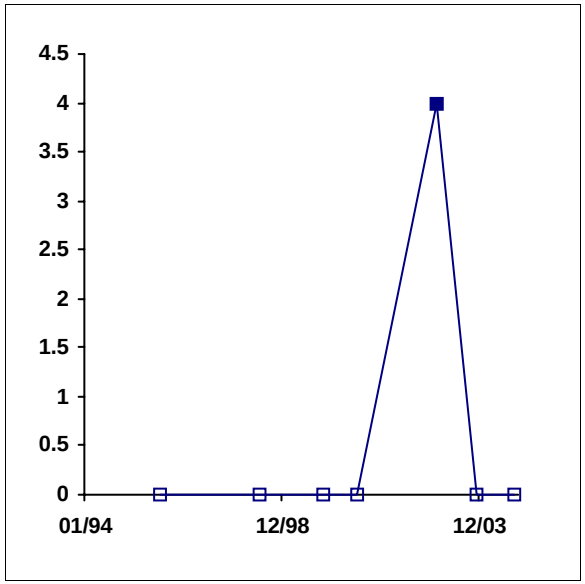
FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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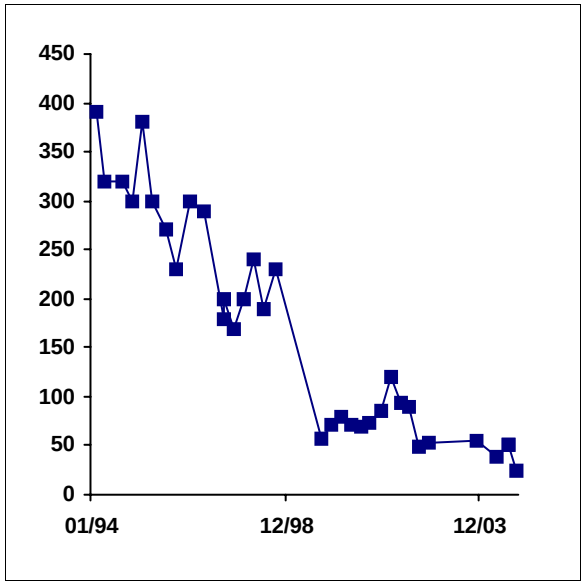

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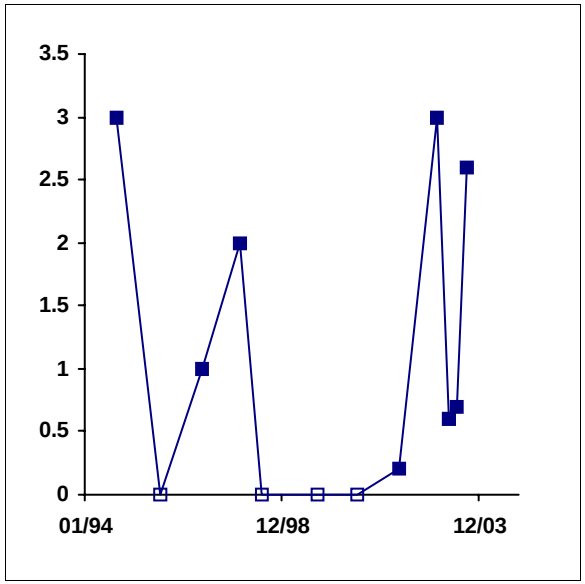

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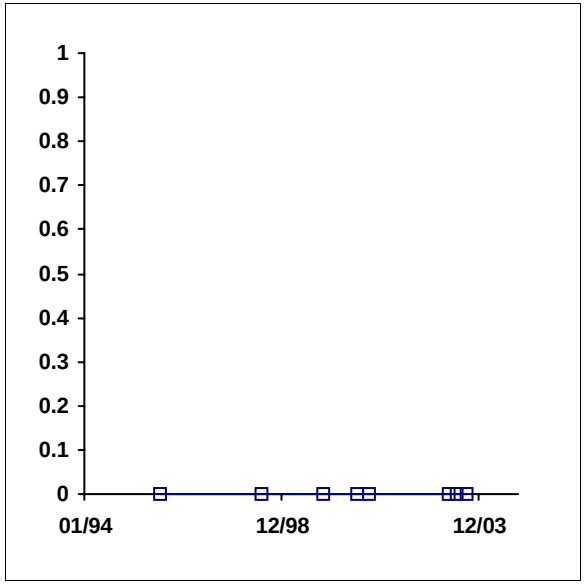

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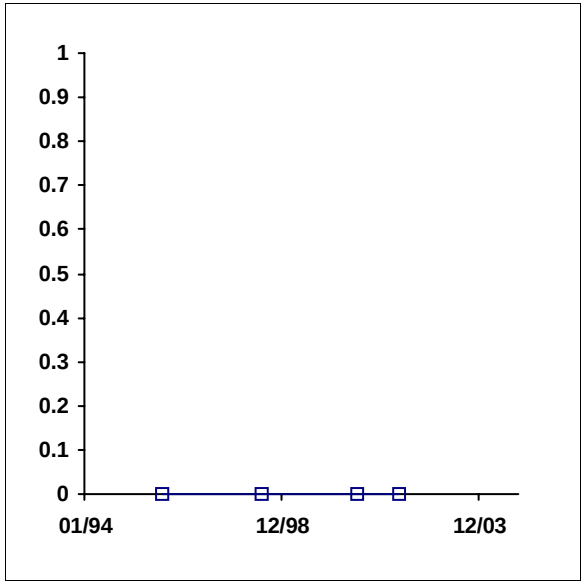

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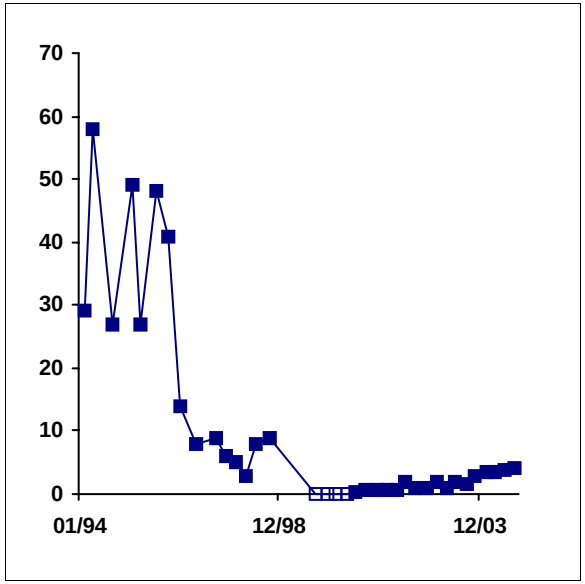
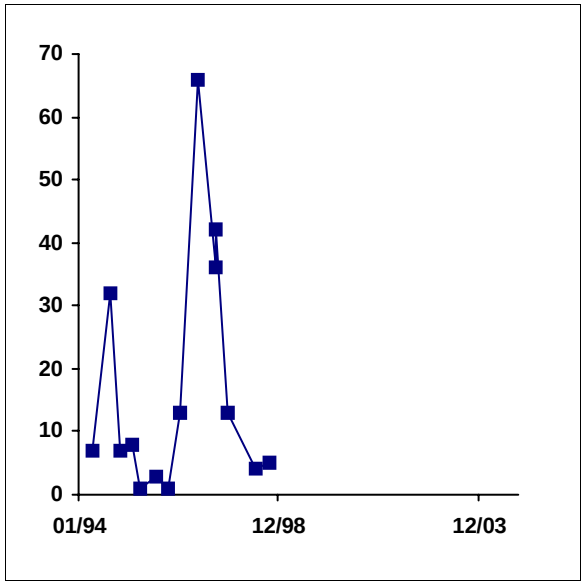


NH-VPB-05

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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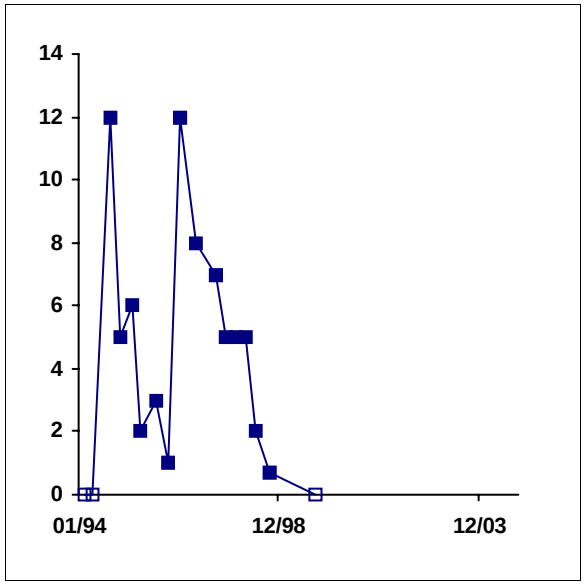

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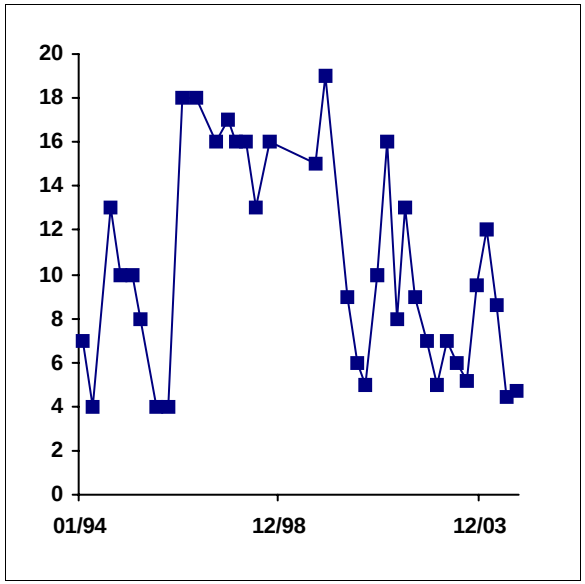

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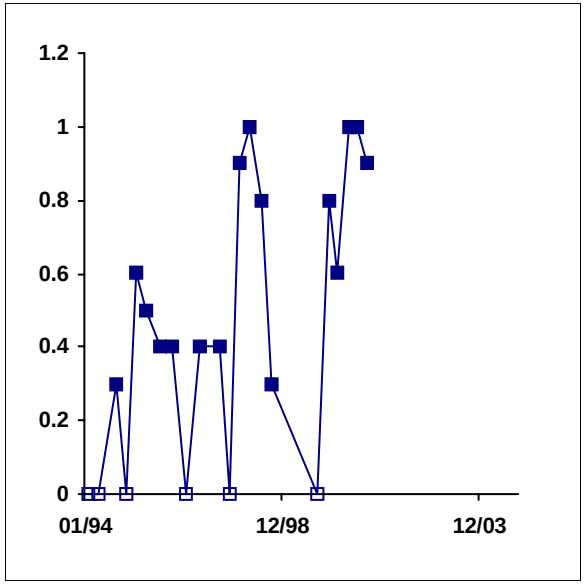

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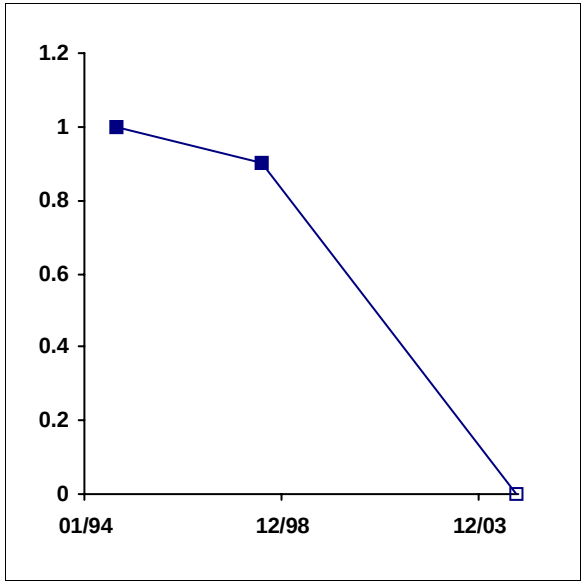

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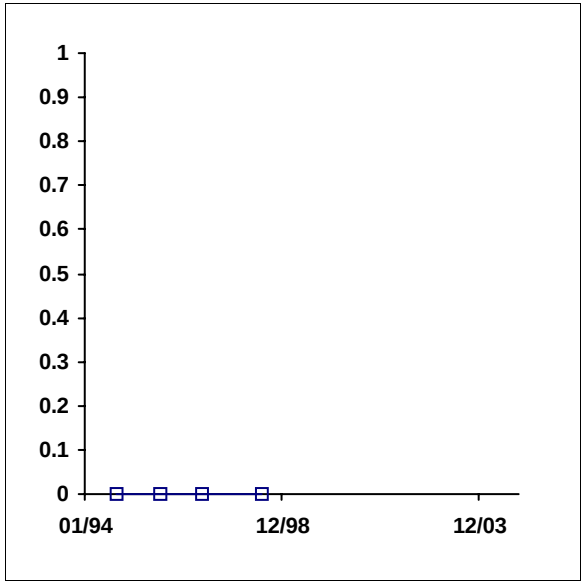
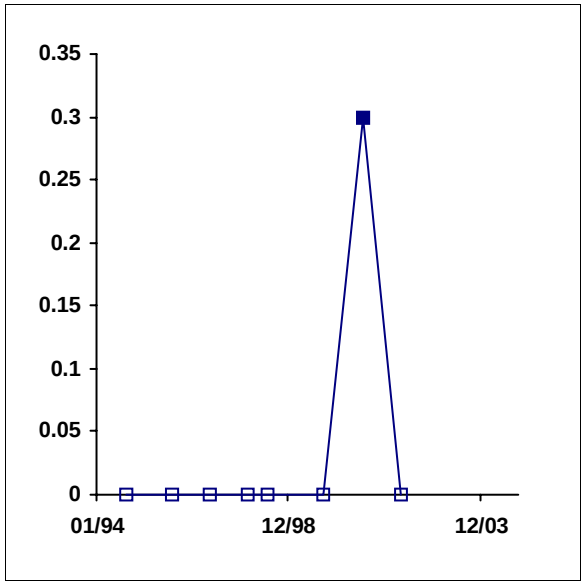


NH-VPB-11

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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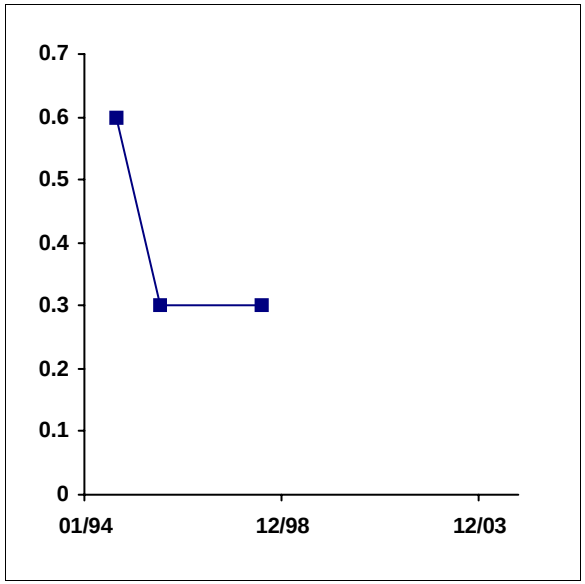

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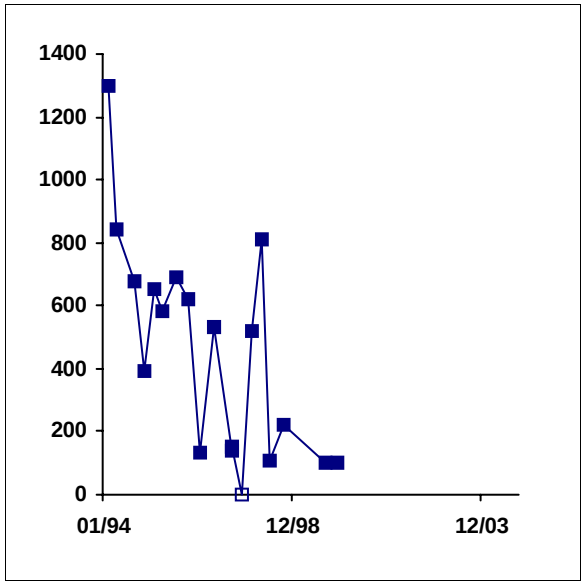

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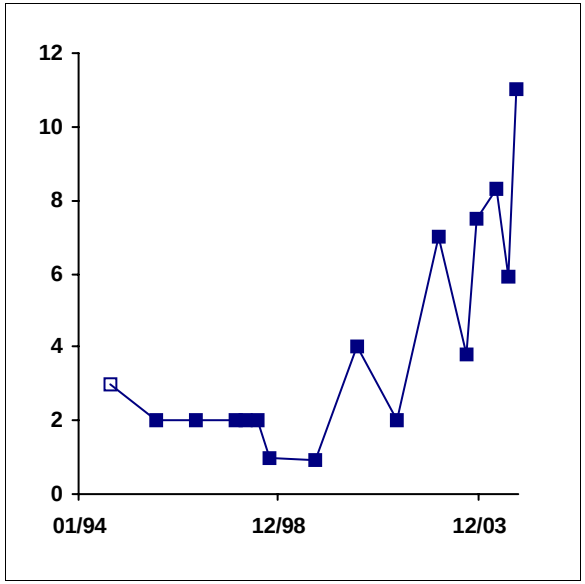

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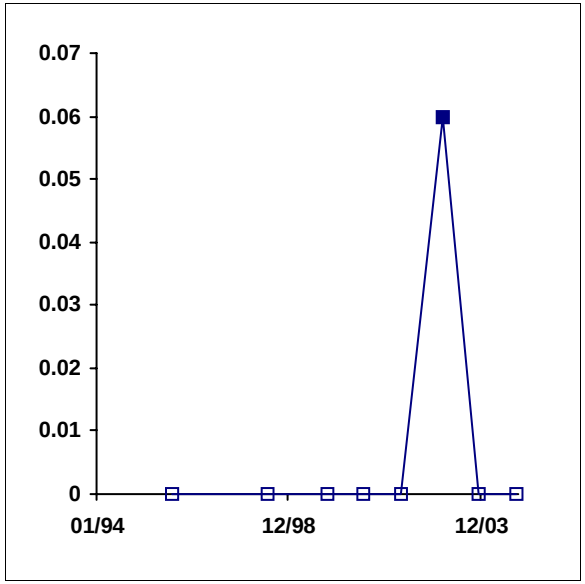

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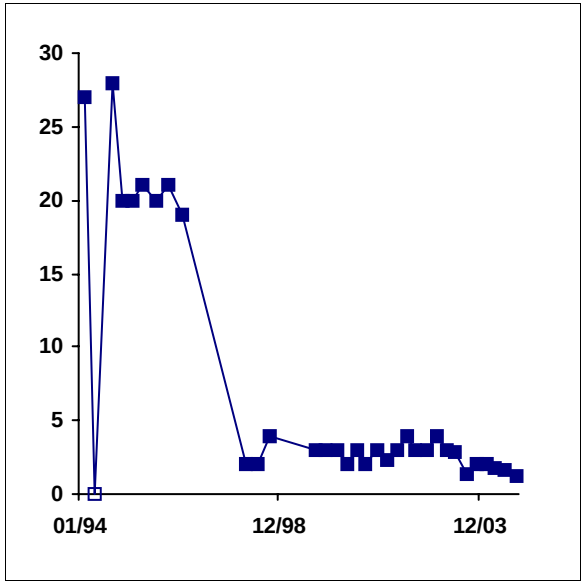
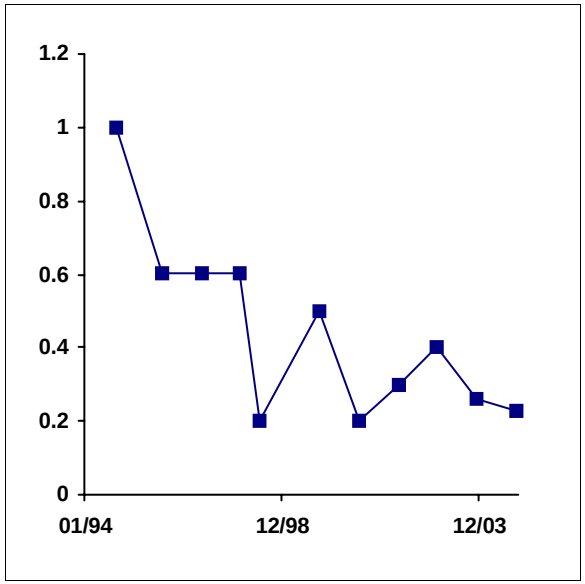


PO-C02-053

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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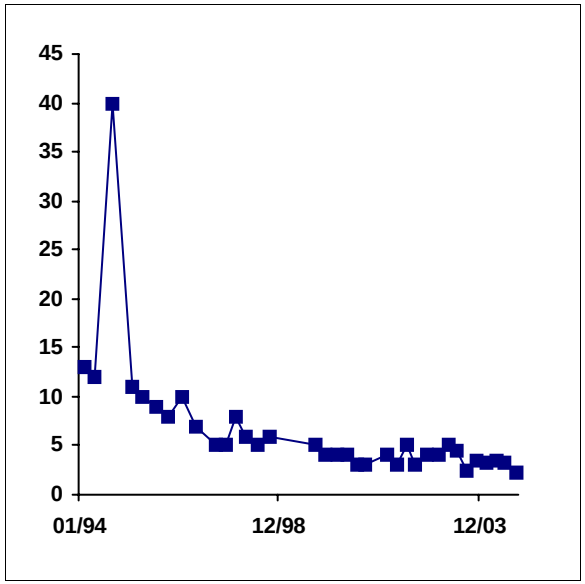

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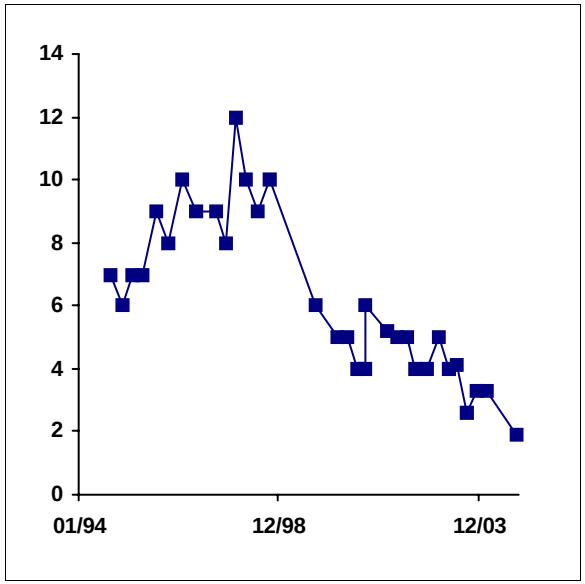

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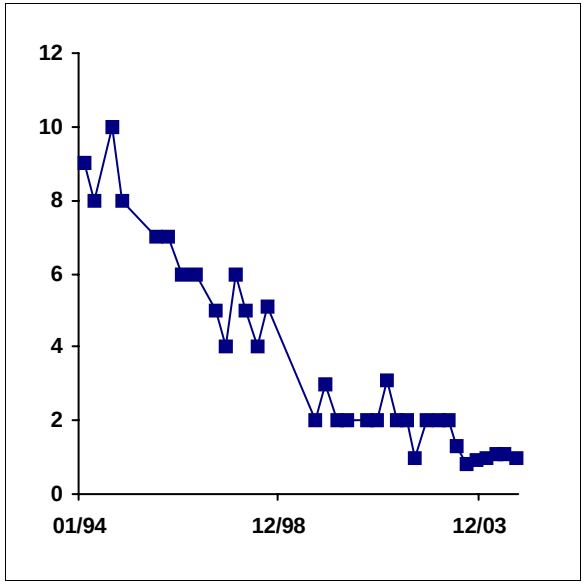

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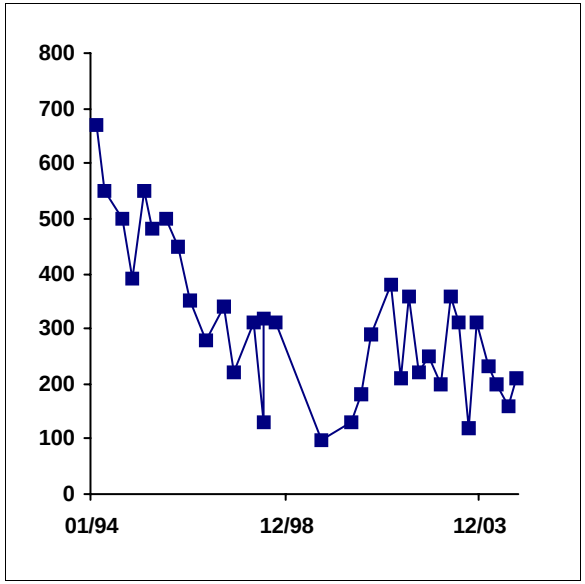

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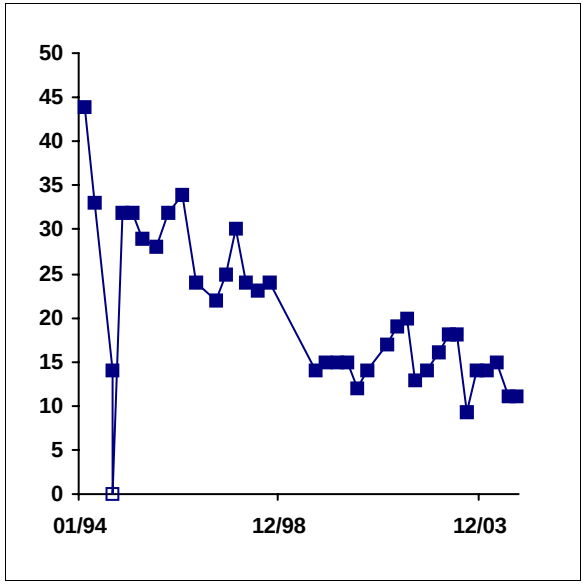
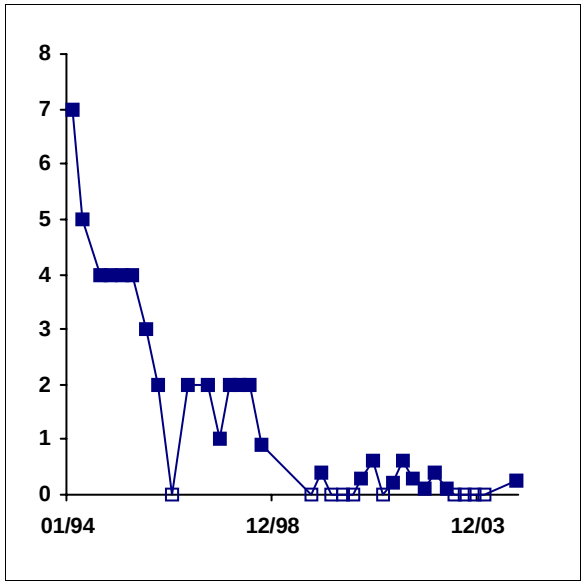
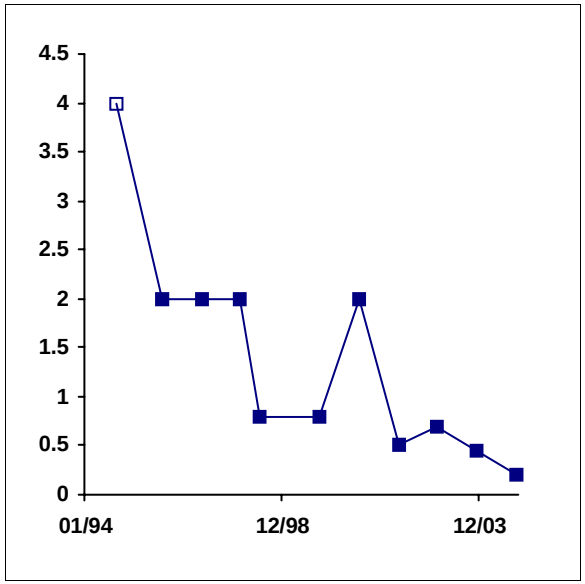


PO-VPB-03

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



PO-VPB-05



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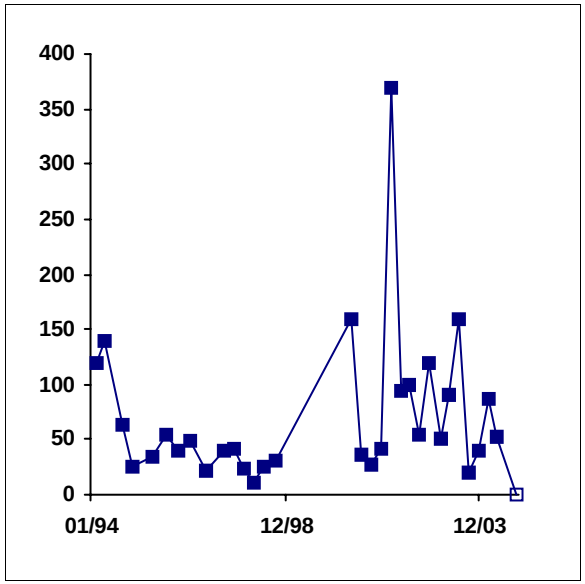

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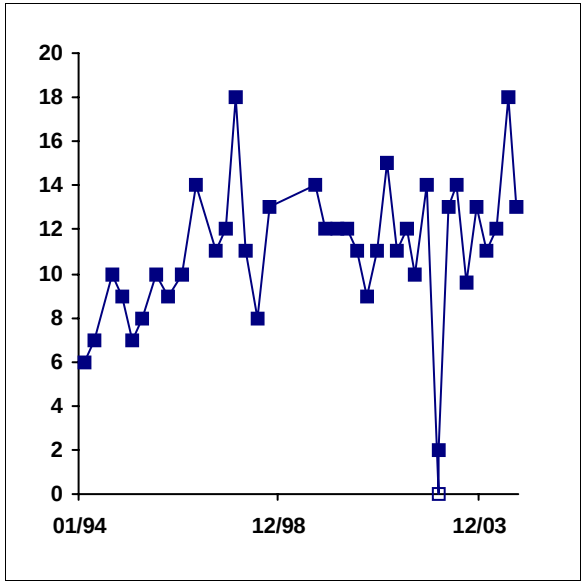

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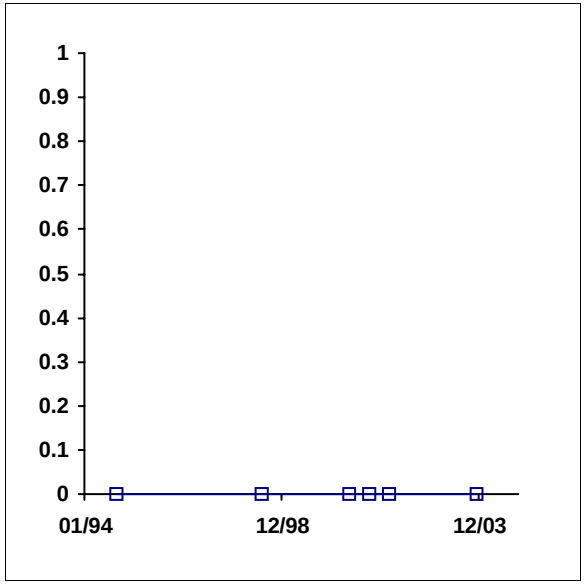

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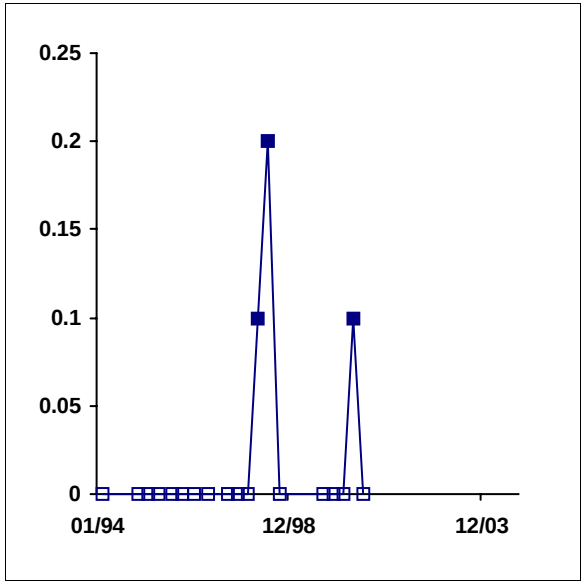
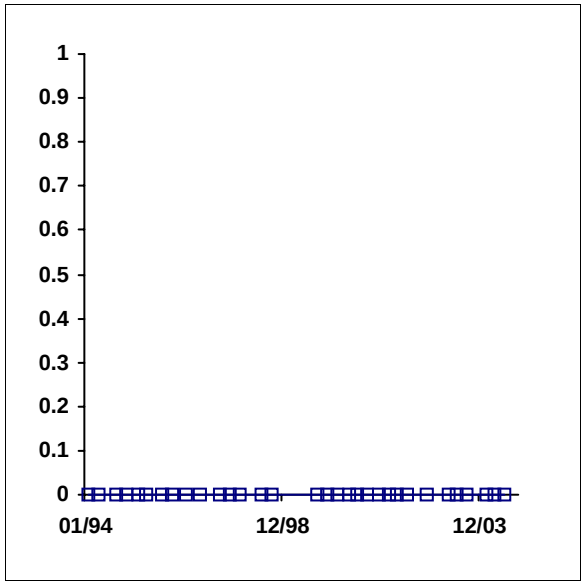


VD-VPB-01

FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



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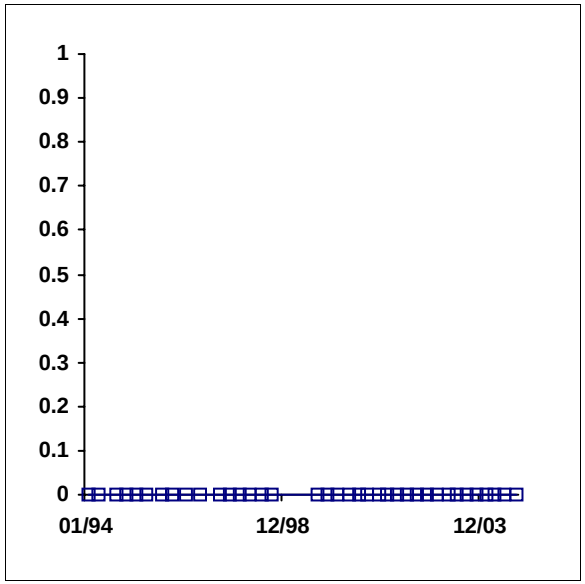

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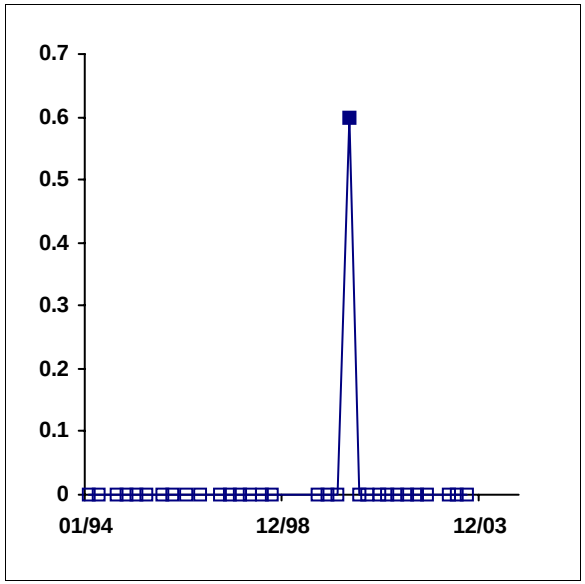
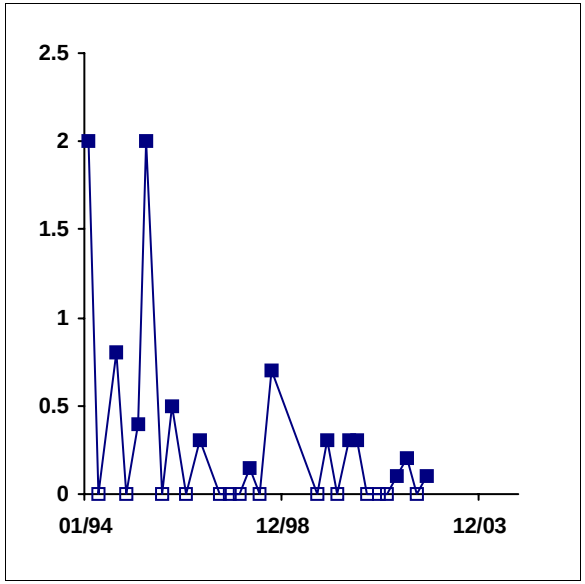
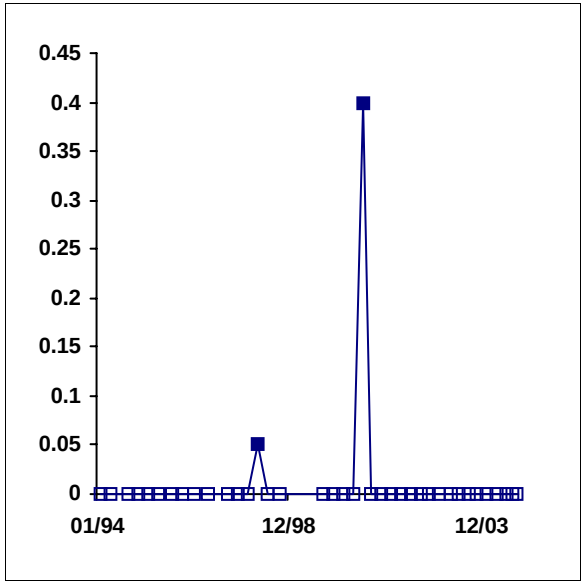


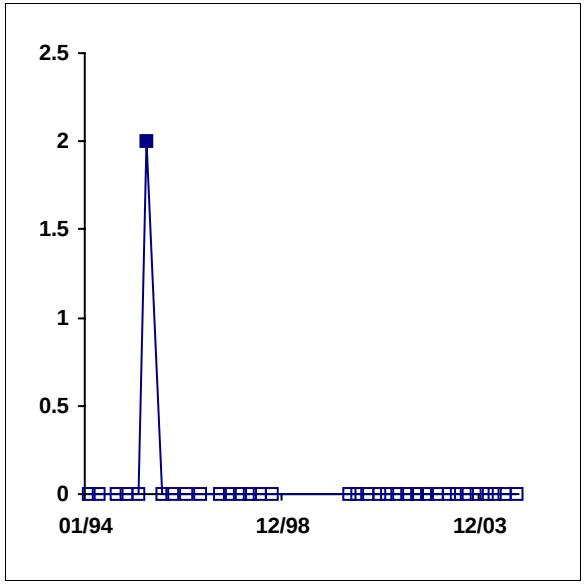
VD-VPB-04



VD-VPB-05

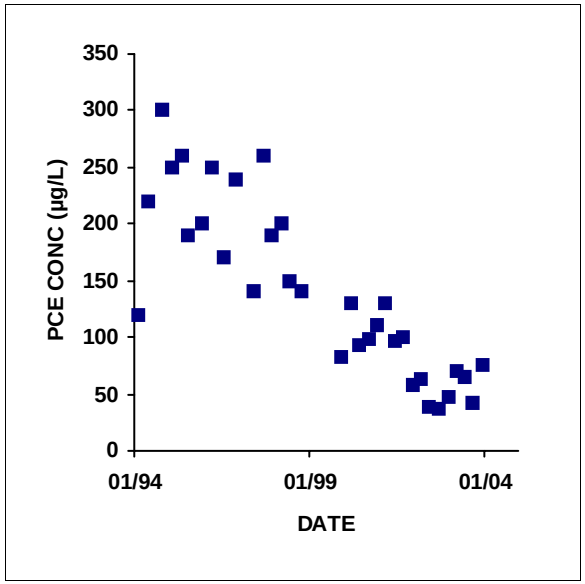


VD-VPB-06

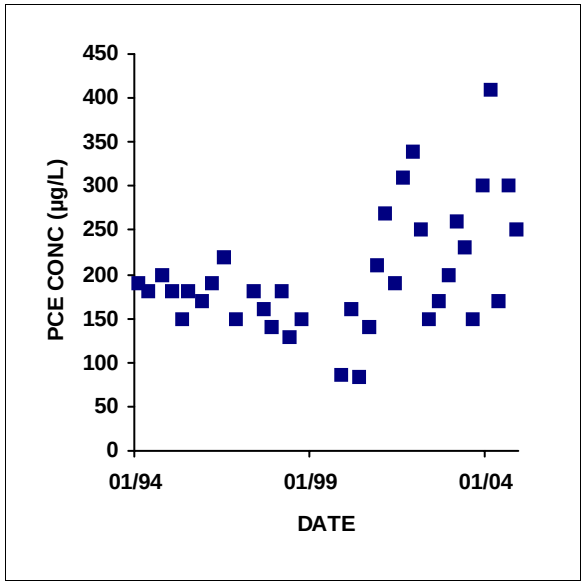


VD-VPB-07

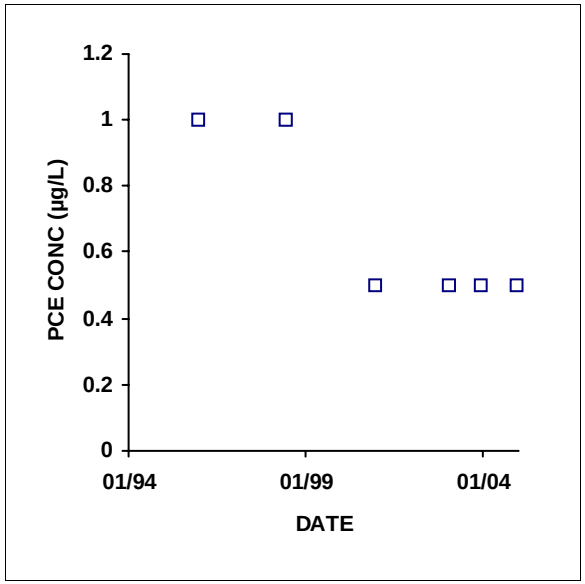
FIGURE 3-2 HISTORICAL CHEMICAL CONCENTRATIONS OF TCE FOR RI MONITORING WELLS



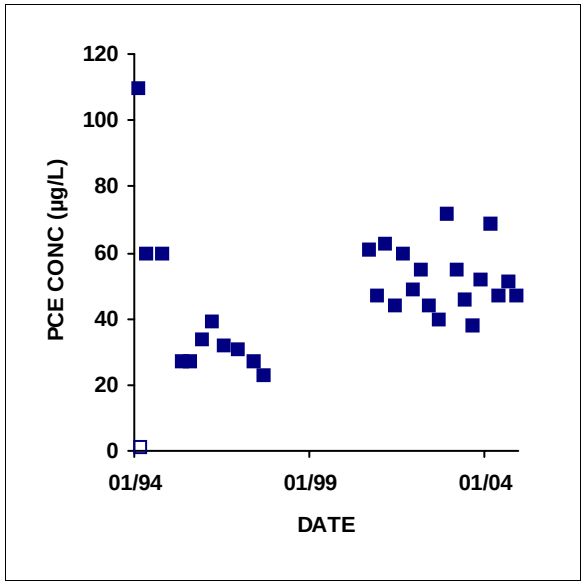
CS-C01-105



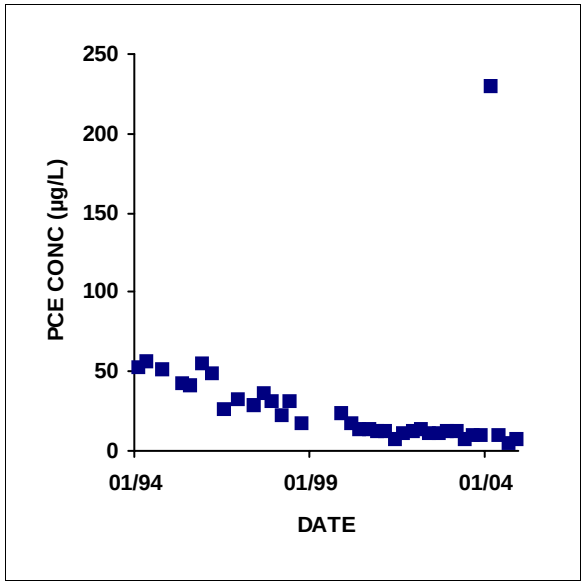
CS-C01-285



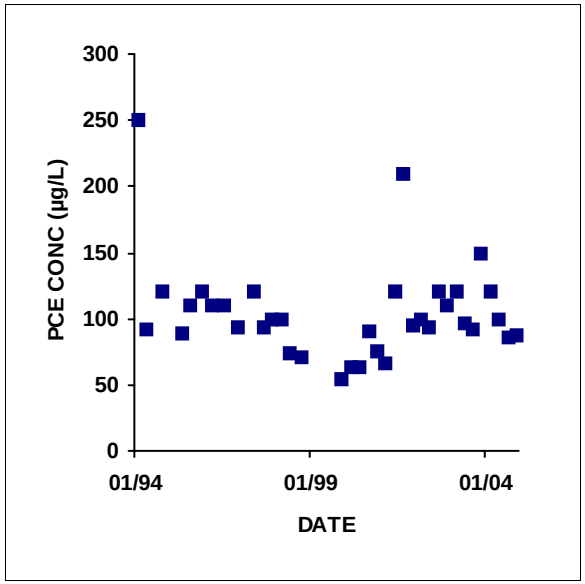
CS-C01-558



CS-C02-062



CS-C02-180



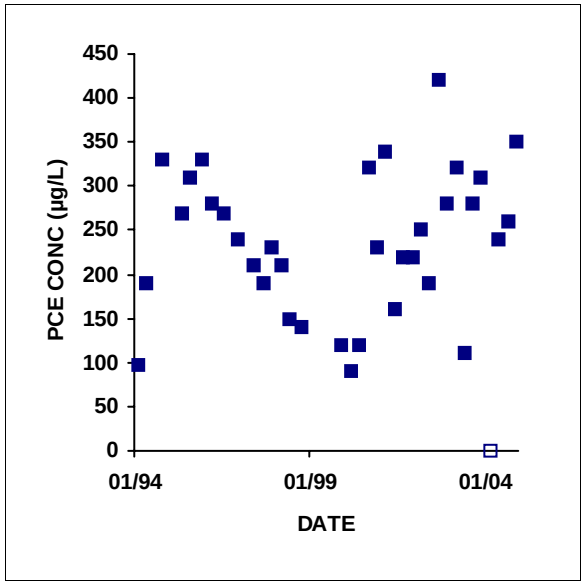
CS-C02-250

LEGEND

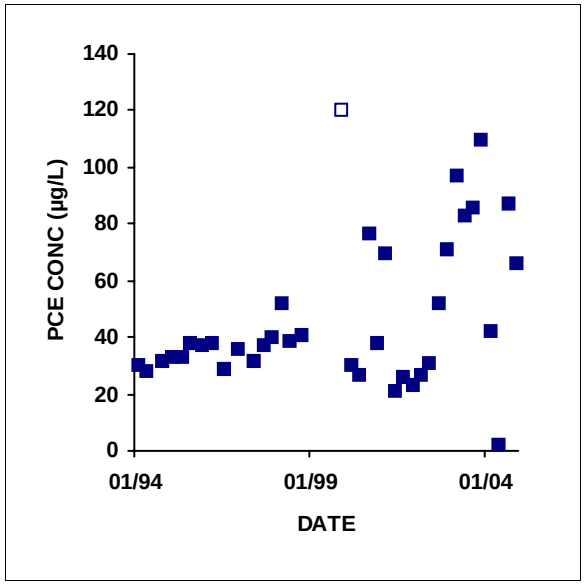
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

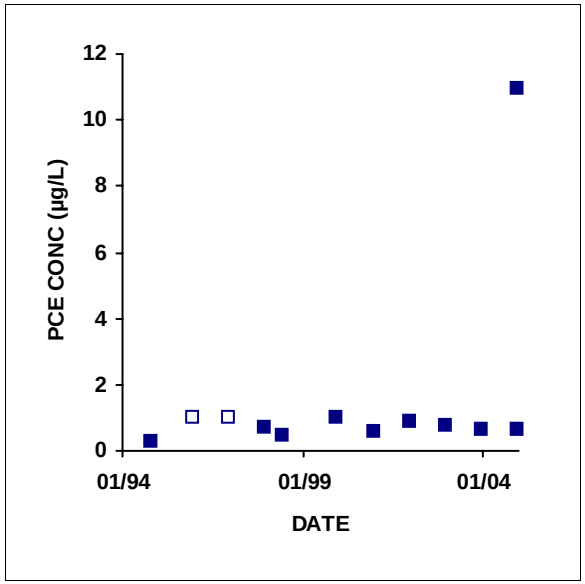
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



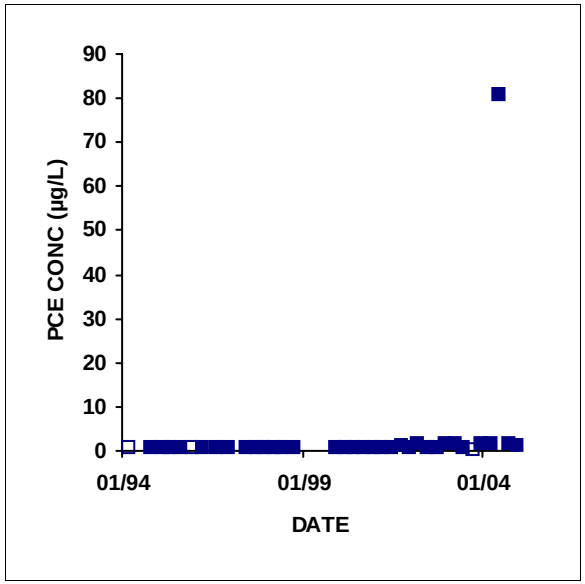
CS-C02-335



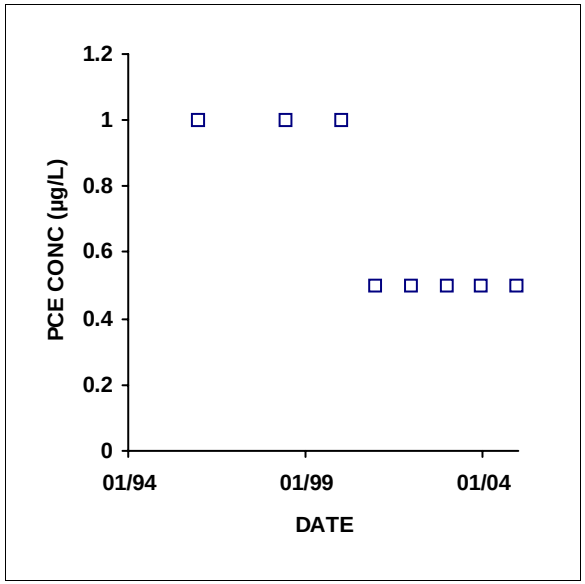
CS-C03-100



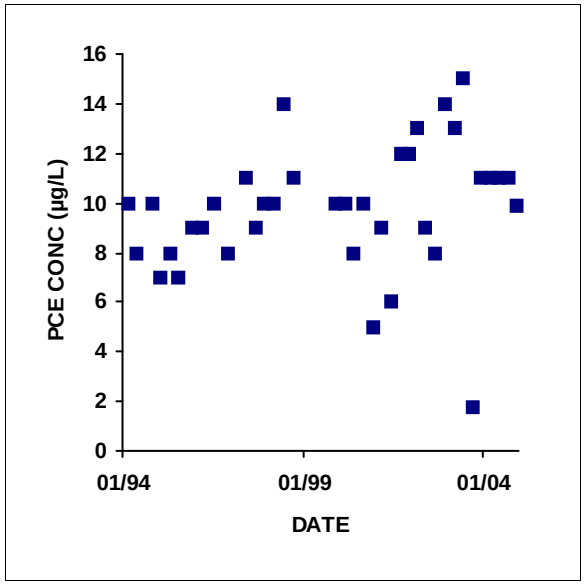
CS-C03-325



CS-C03-465



CS-C03-550



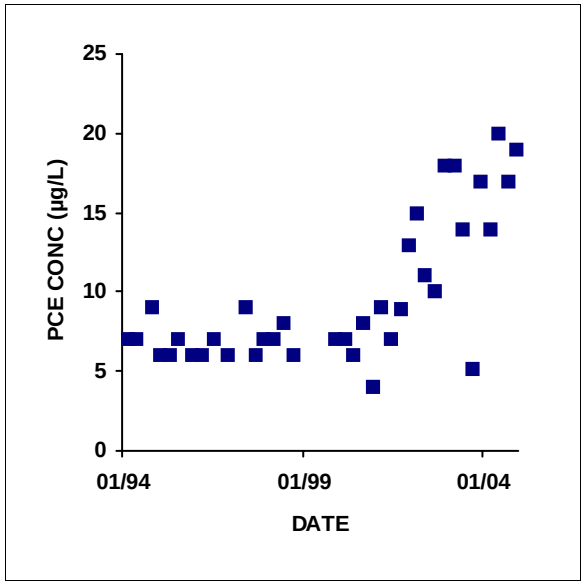
CS-C04-290

LEGEND

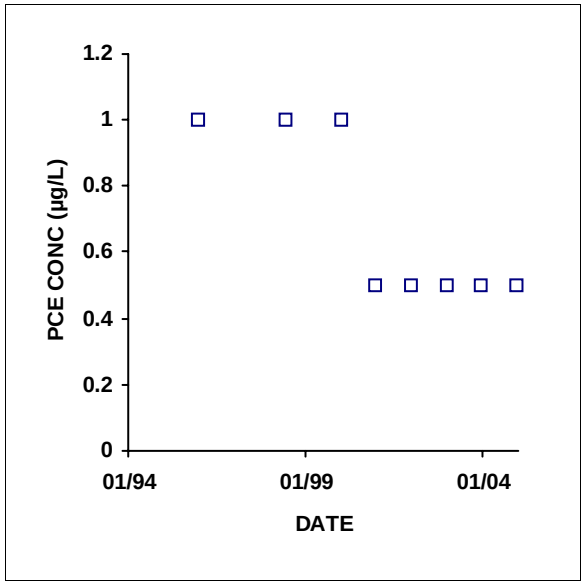
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

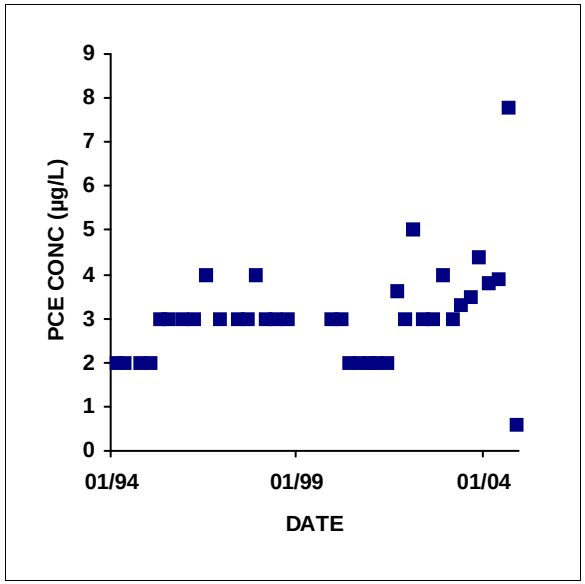
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



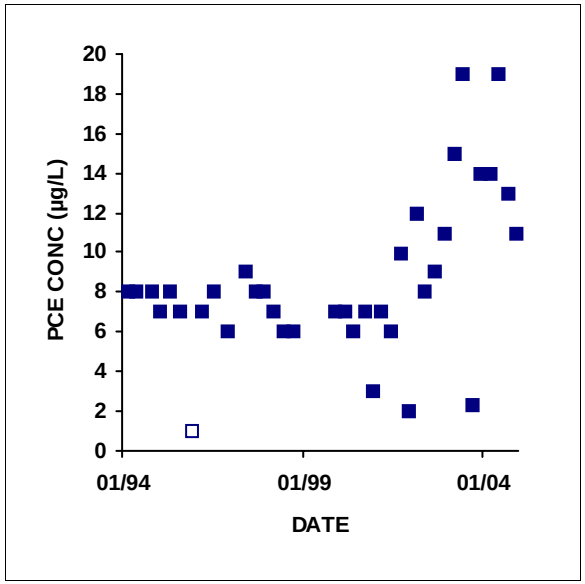
CS-C04-382



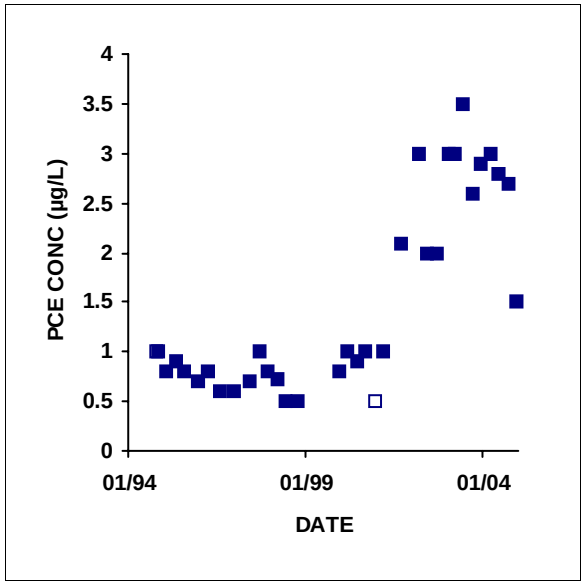
CS-C04-520



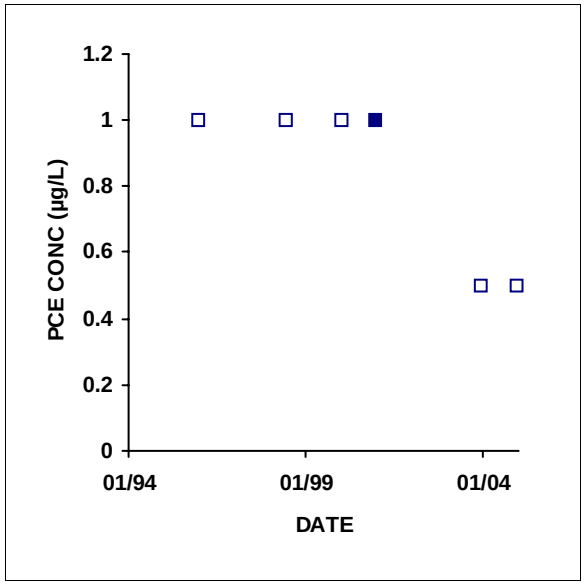
CS-C05-160



CS-C05-290



CS-C06-185



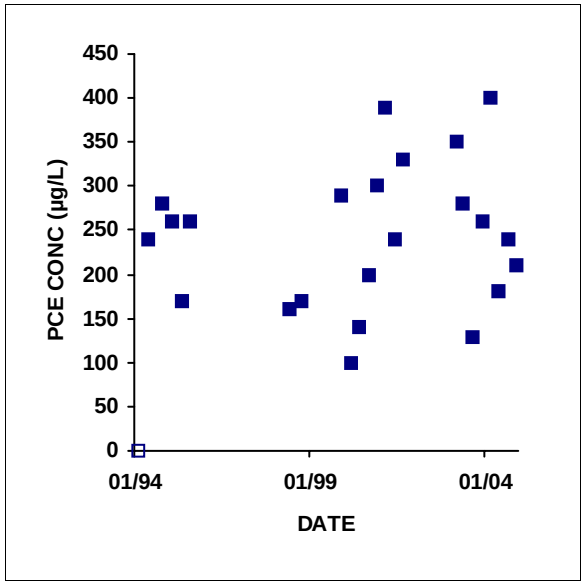
CS-C06-278

LEGEND

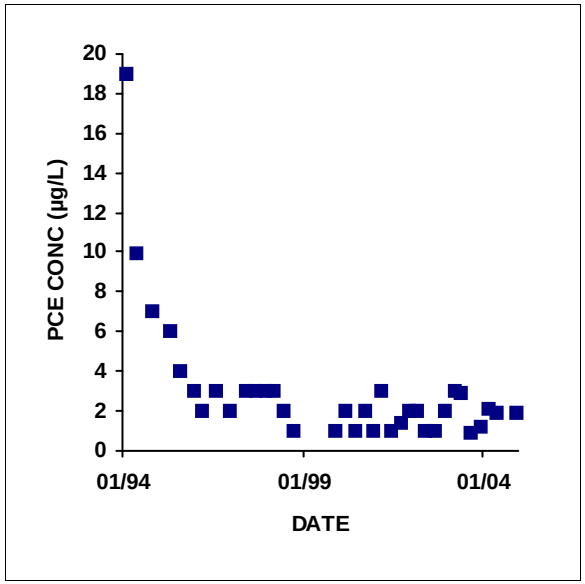
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

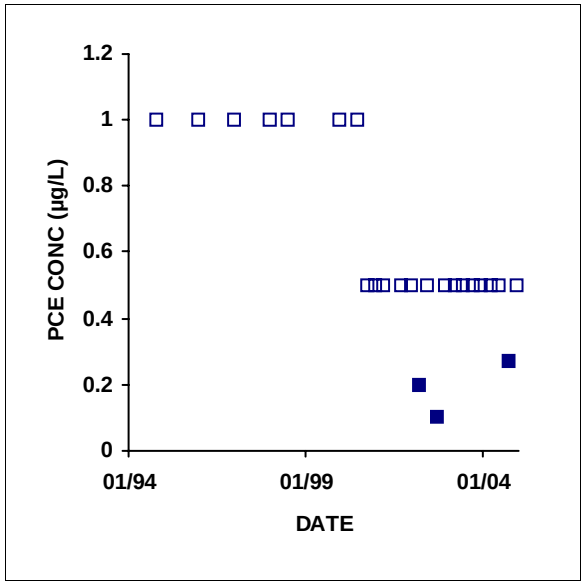
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



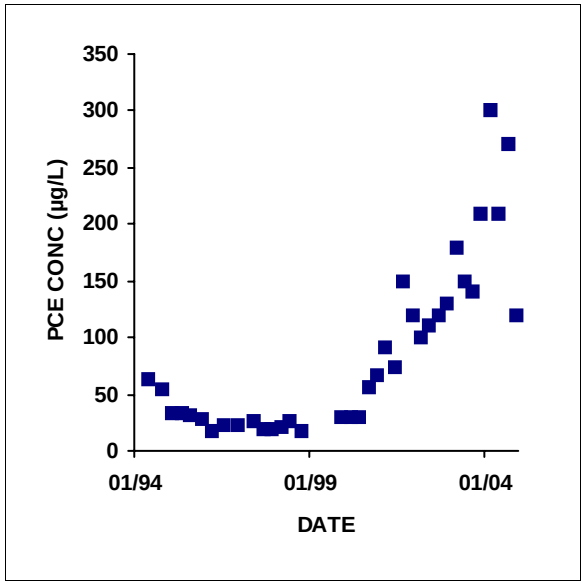
CS-VPB-01



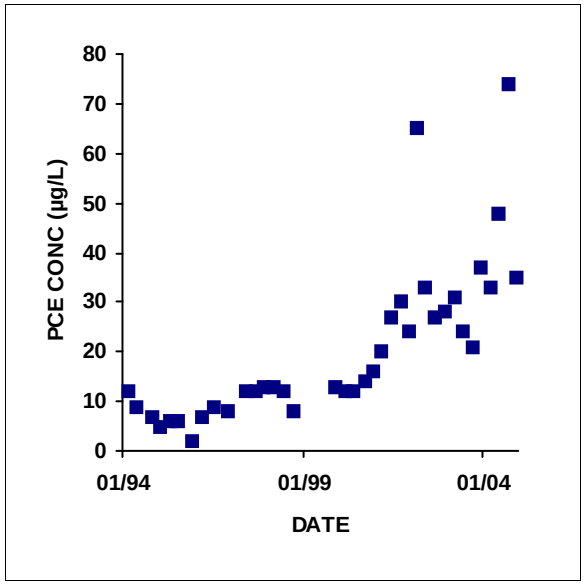
CS-VPB-02



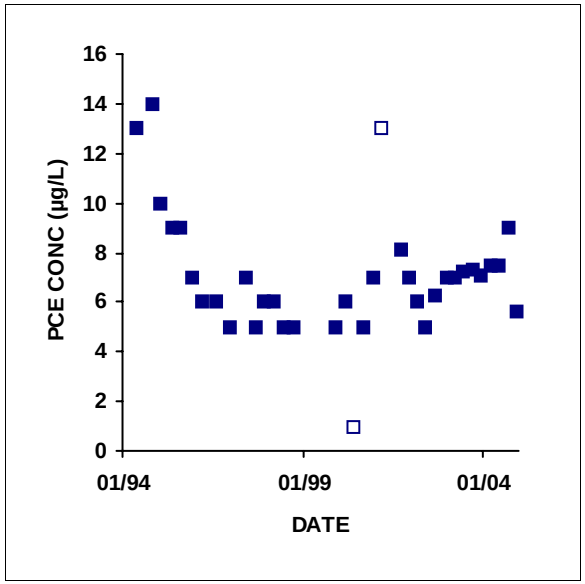
CS-VPB-03



CS-VPB-04



CS-VPB-05



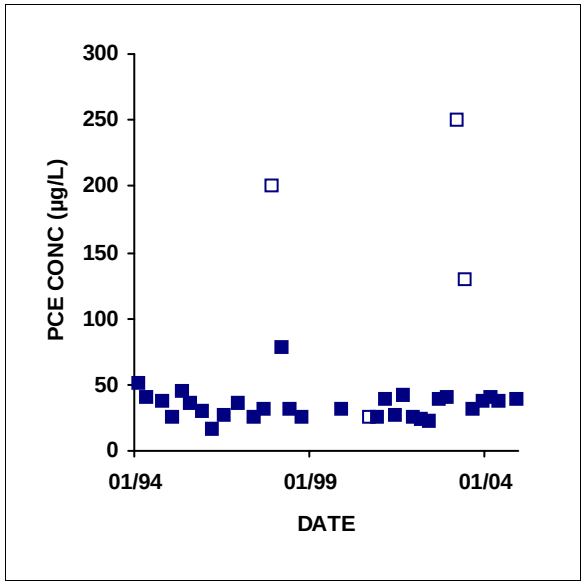
CS-VPB-06

LEGEND

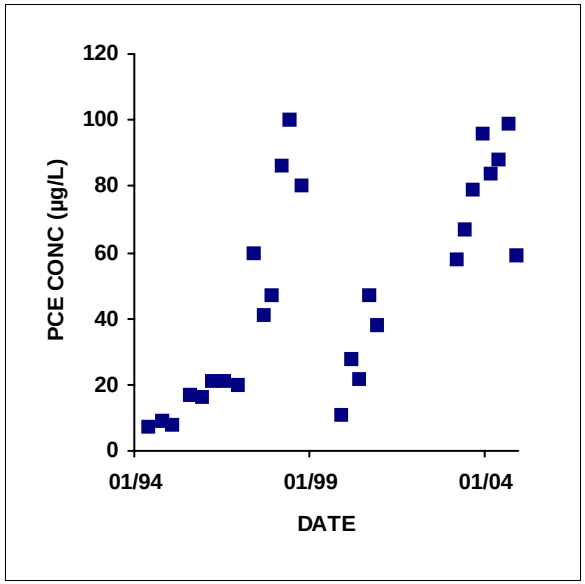
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

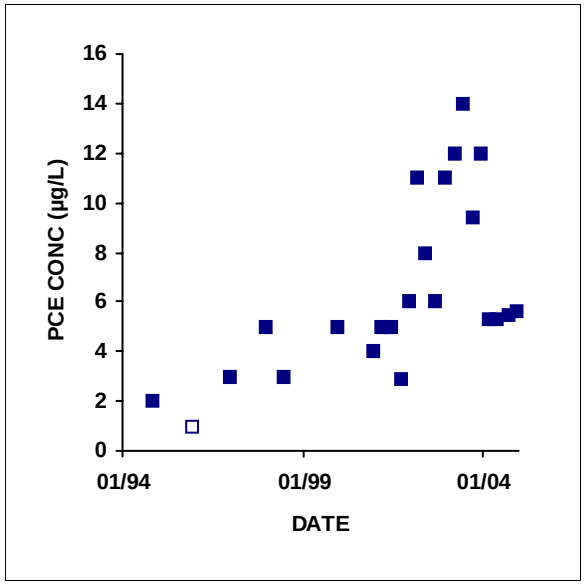
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



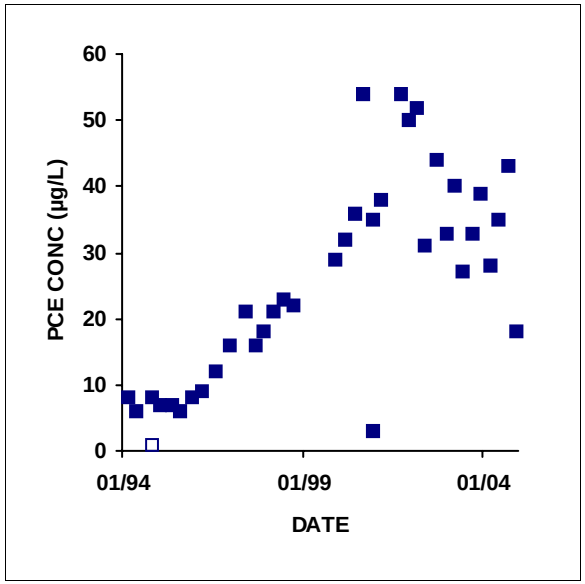
CS-VPB-07



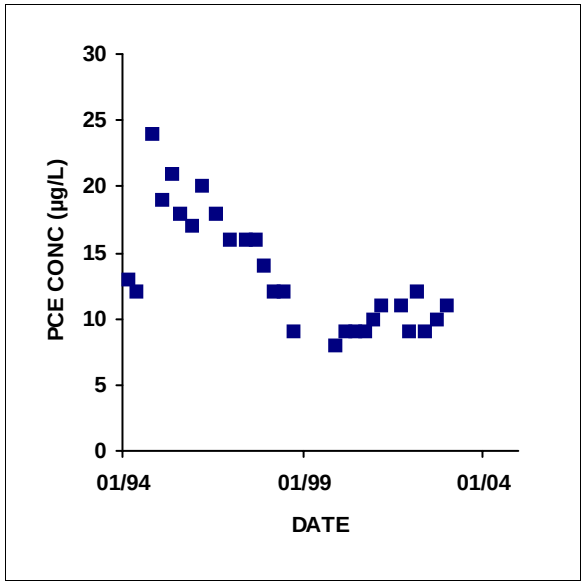
CS-VPB-08



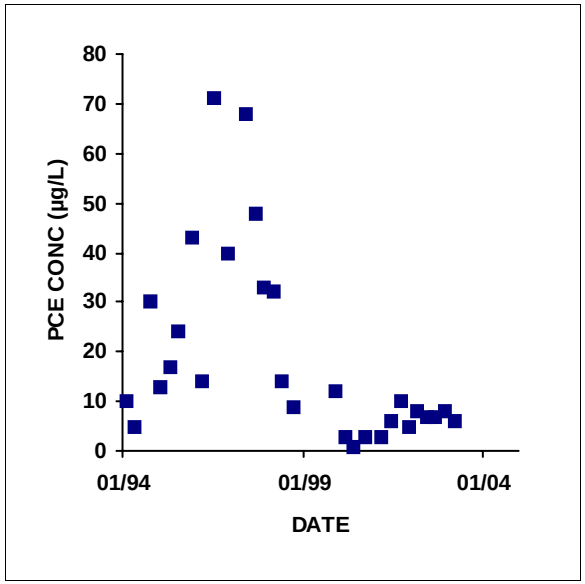
CS-VPB-09



CS-VPB-10



CS-VPB-11



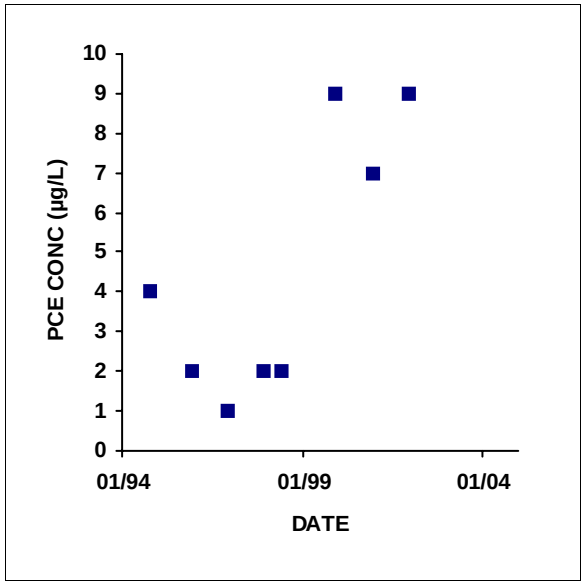
NH-C01-325

LEGEND

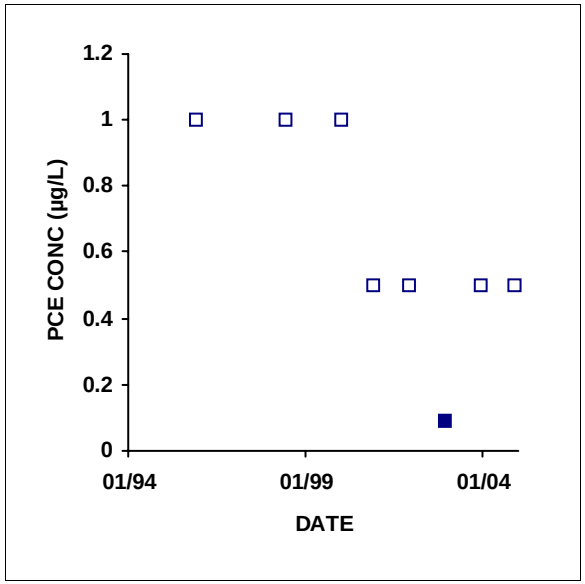
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

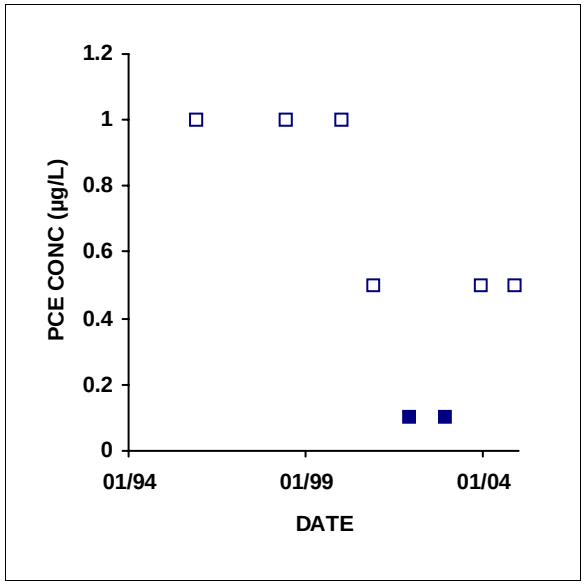
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



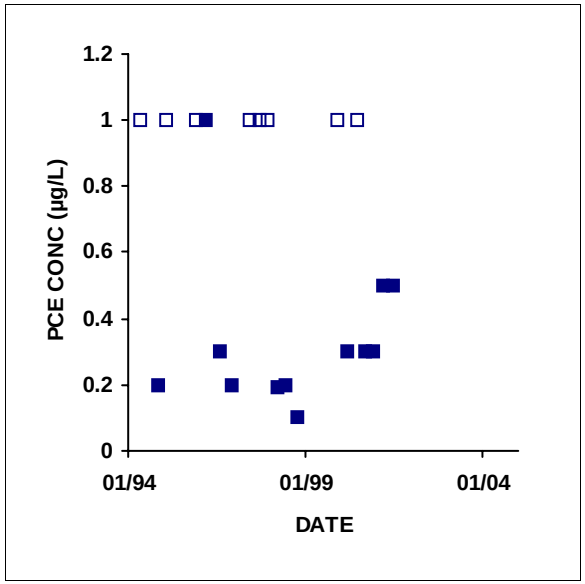
NH-C01-450



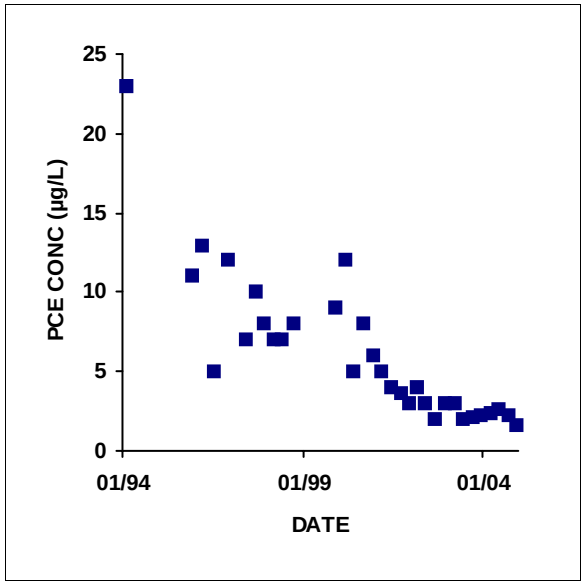
NH-C01-660



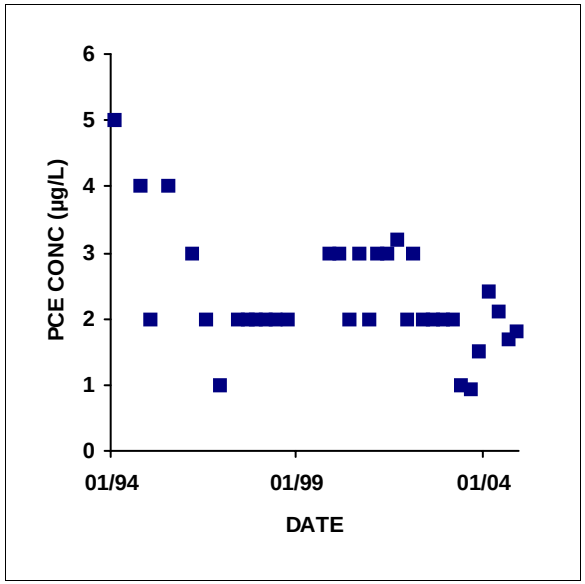
NH-C01-780



NH-C02-220



NH-C02-325



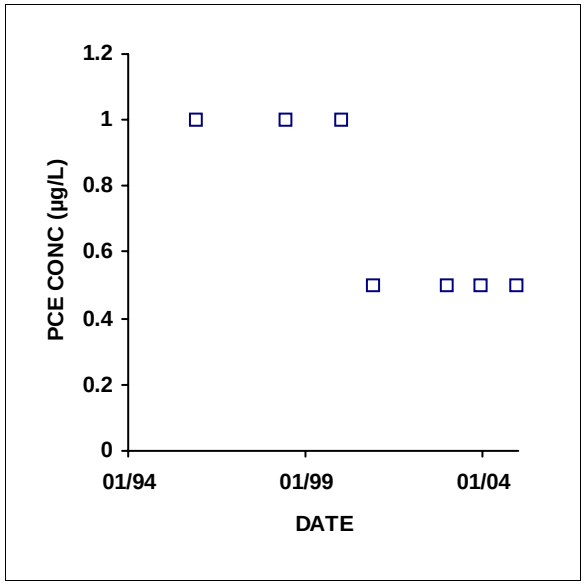
NH-C02-520

LEGEND

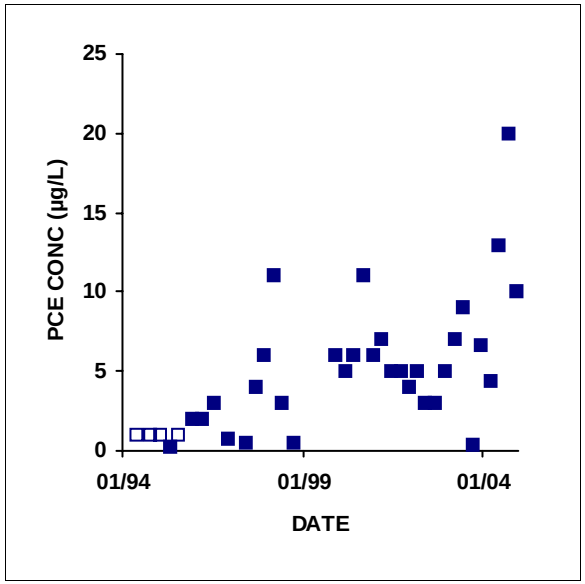
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

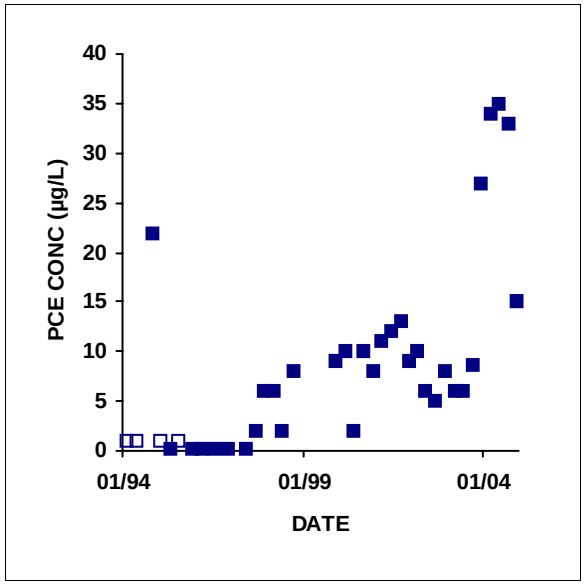
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



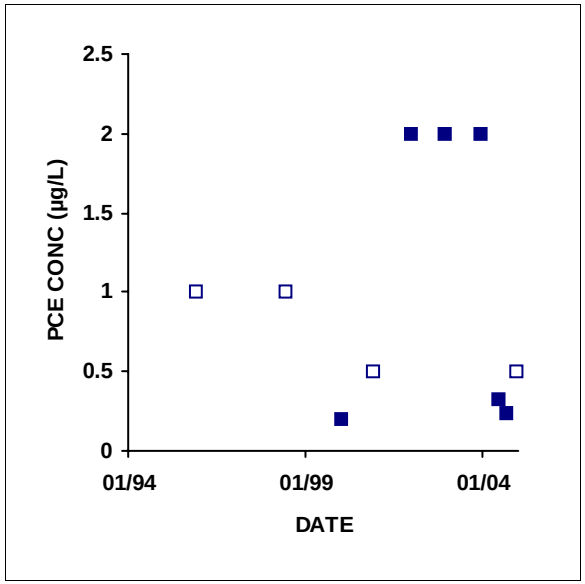
NH-C02-681



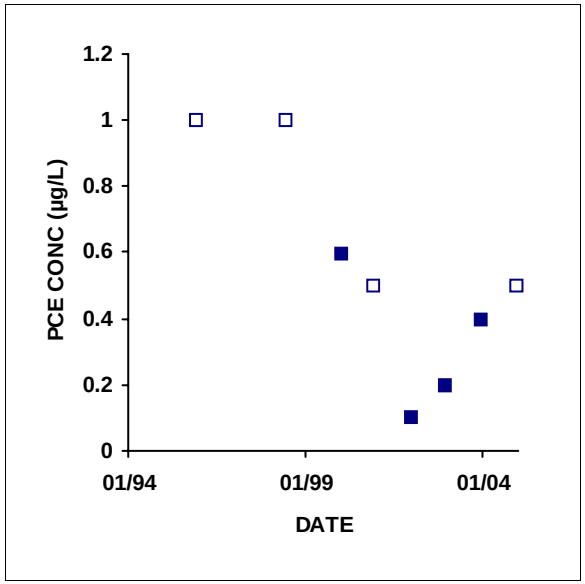
NH-C03-380



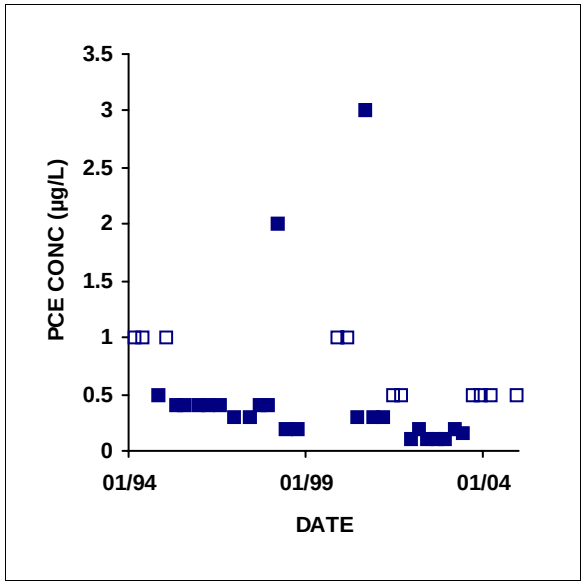
NH-C03-580



NH-C03-680



NH-C03-800



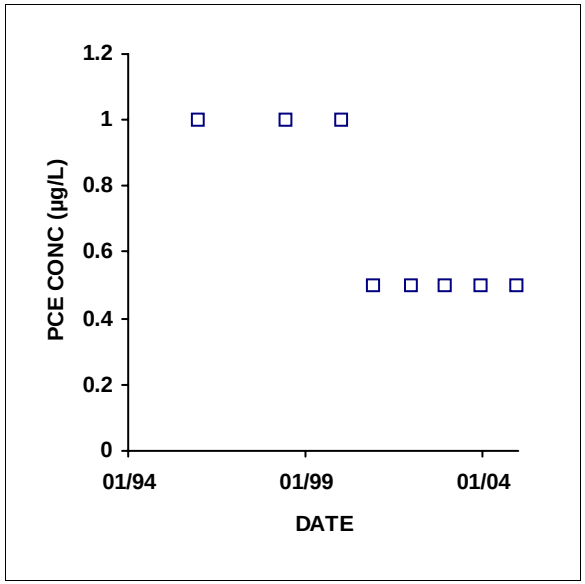
NH-C04-240

LEGEND

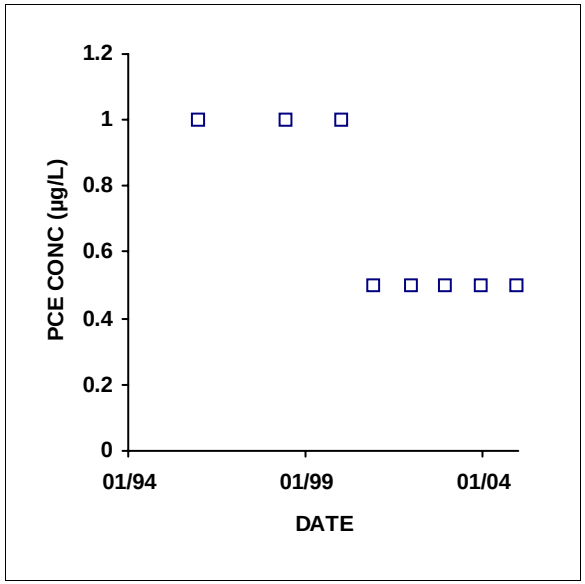
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

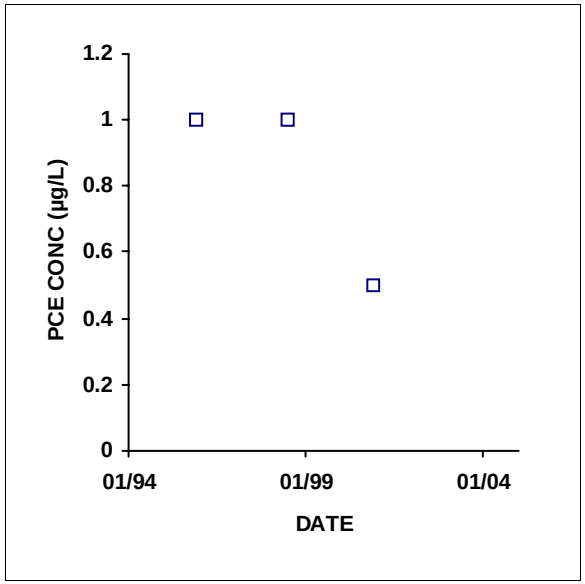
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



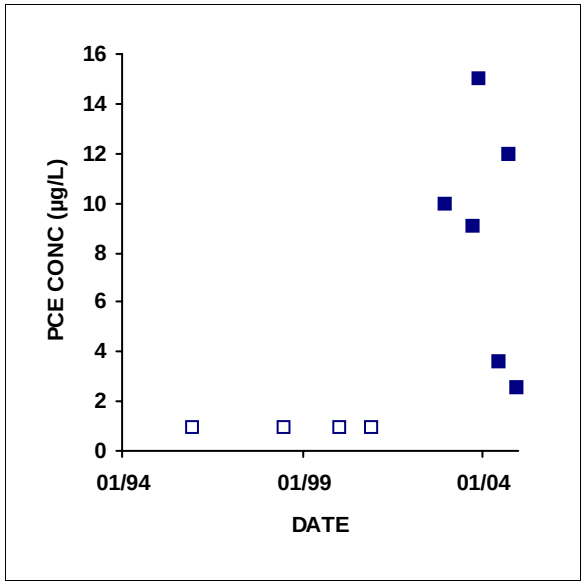
NH-C04-375



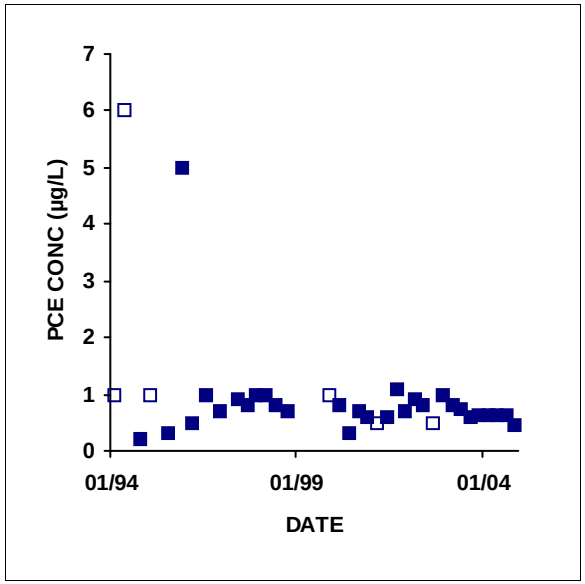
NH-C04-560



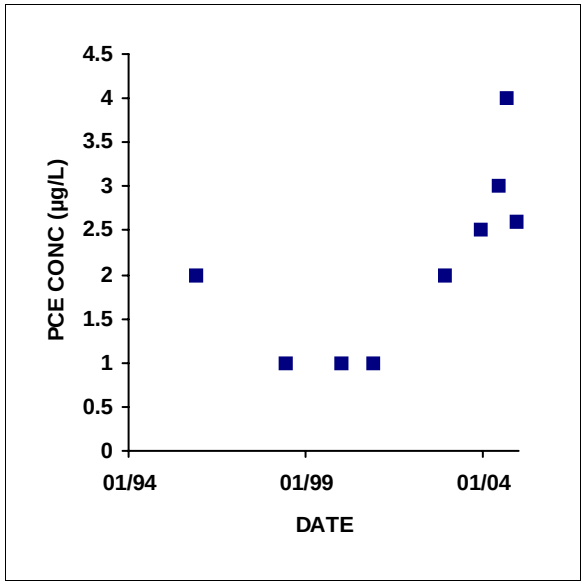
NH-C05-320



NH-C05-460



NH-C06-160



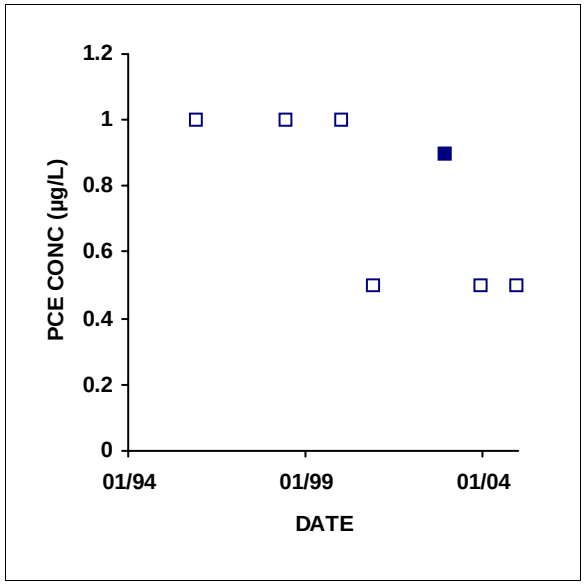
NH-C06-285

LEGEND

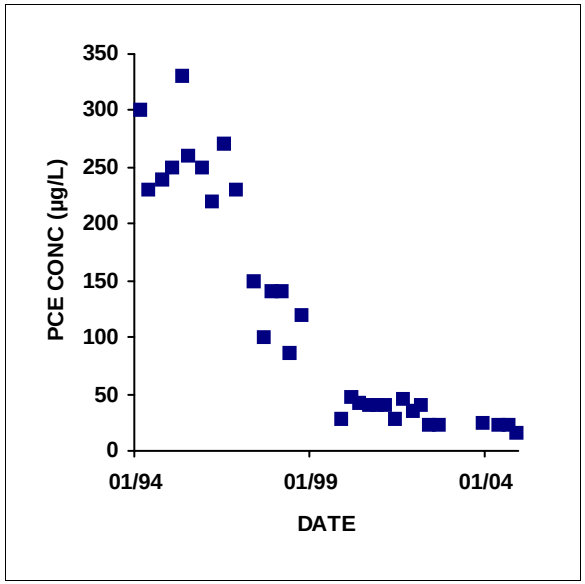
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

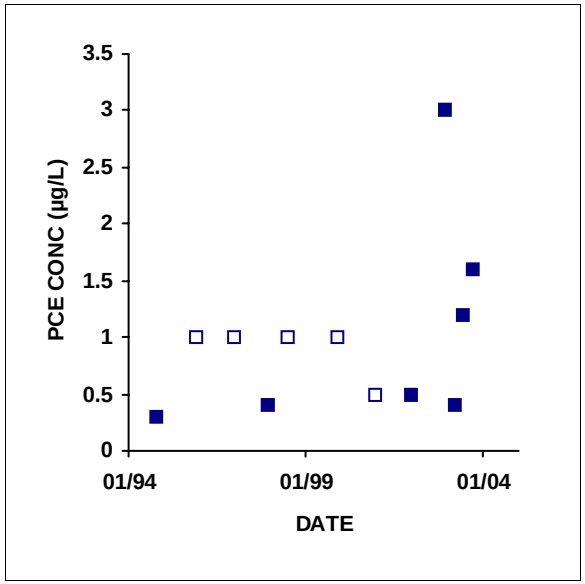
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



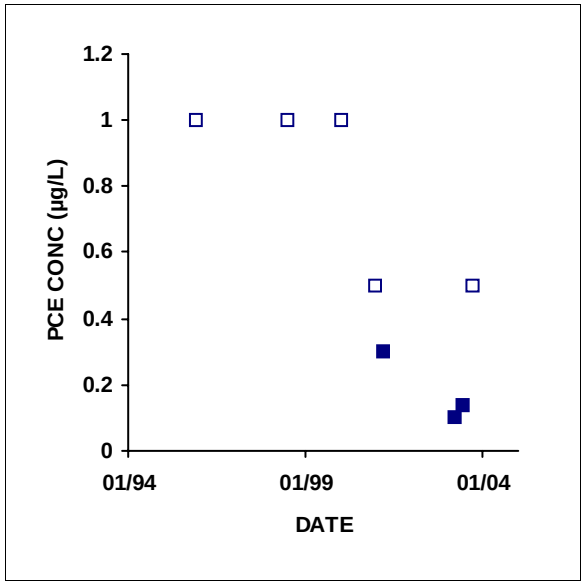
NH-C06-425



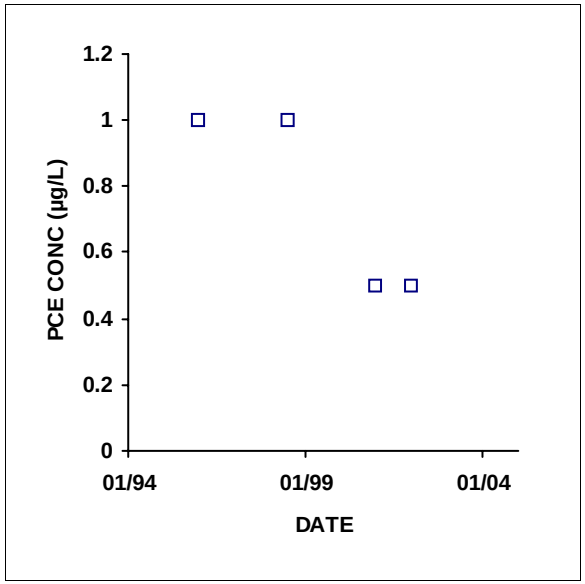
NH-VPB-01



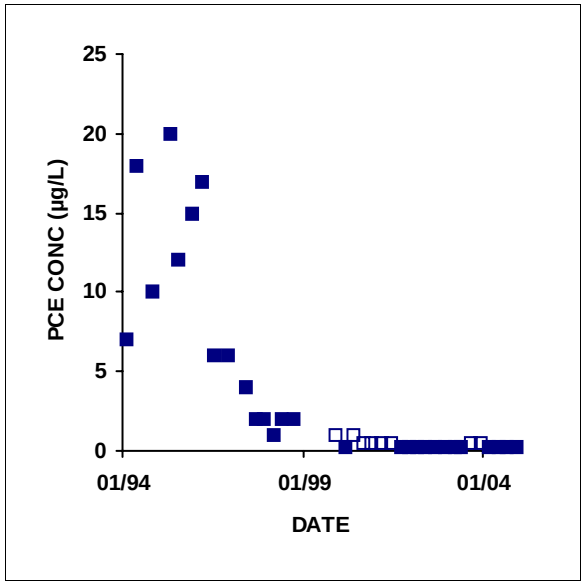
NH-VPB-02



NH-VPB-03



NH-VPB-04



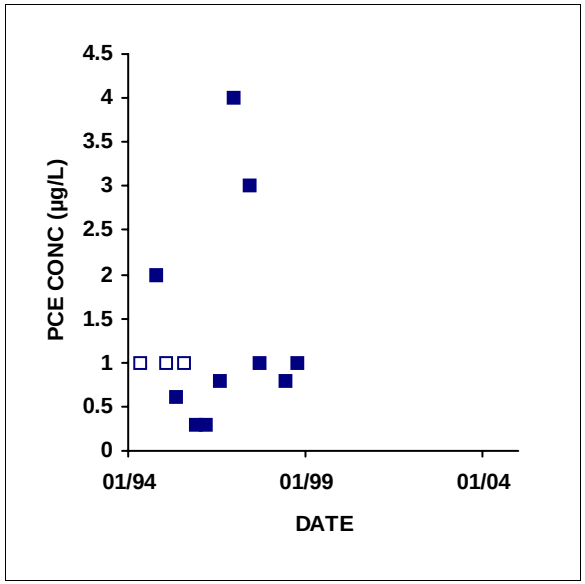
NH-VPB-05

LEGEND

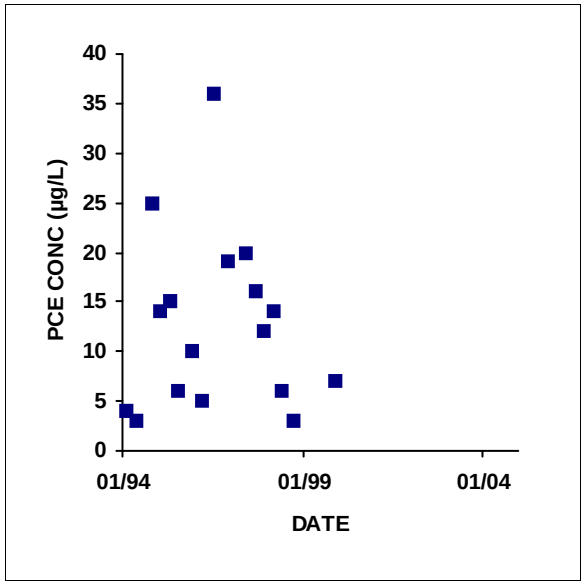
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

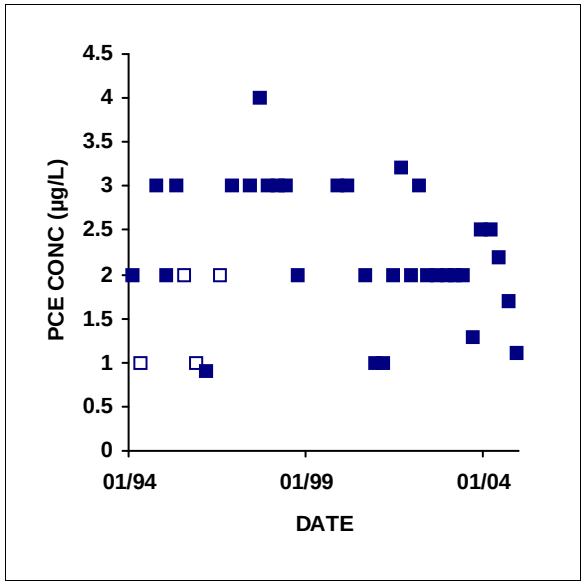
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



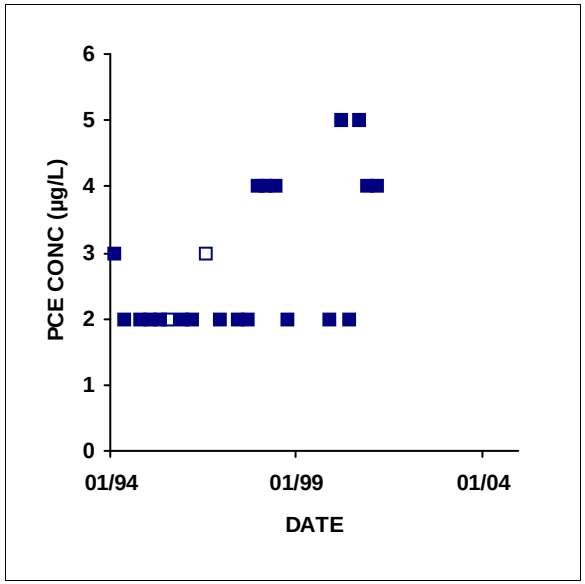
NH-VPB-06



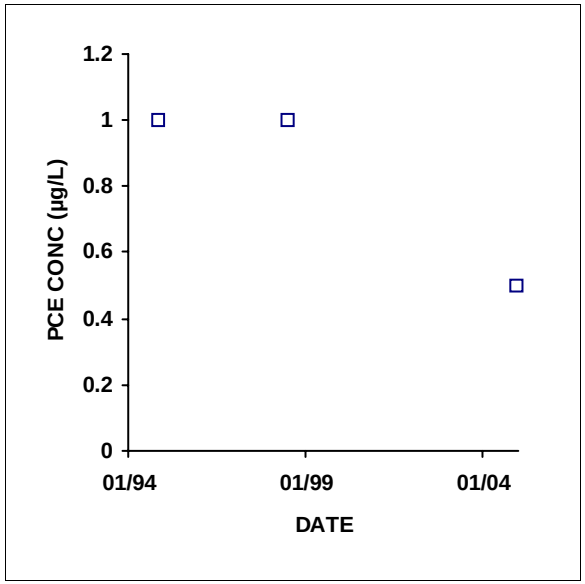
NH-VPB-07



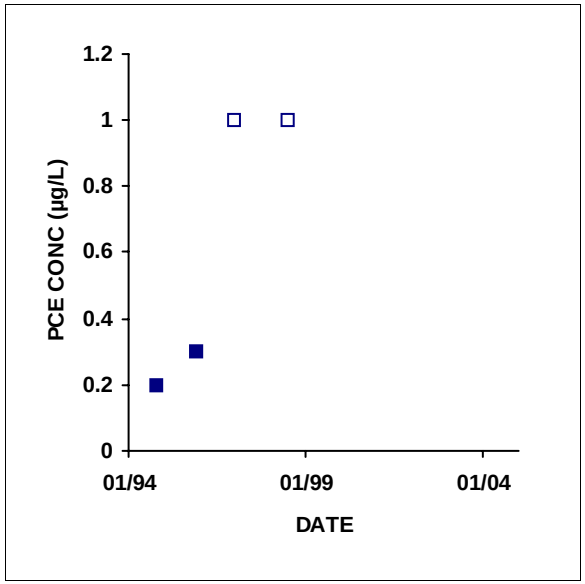
NH-VPB-08



NH-VPB-09



NH-VPB-10



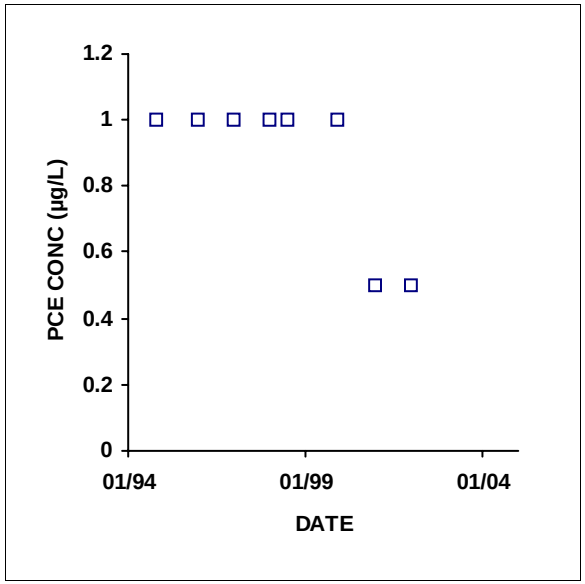
NH-VPB-11

LEGEND

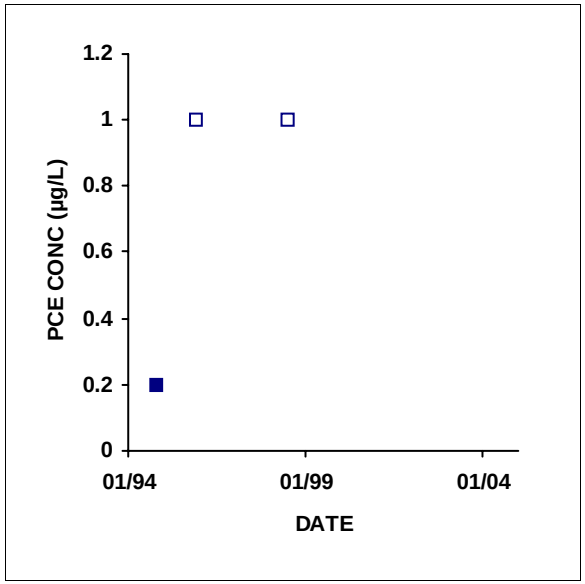
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

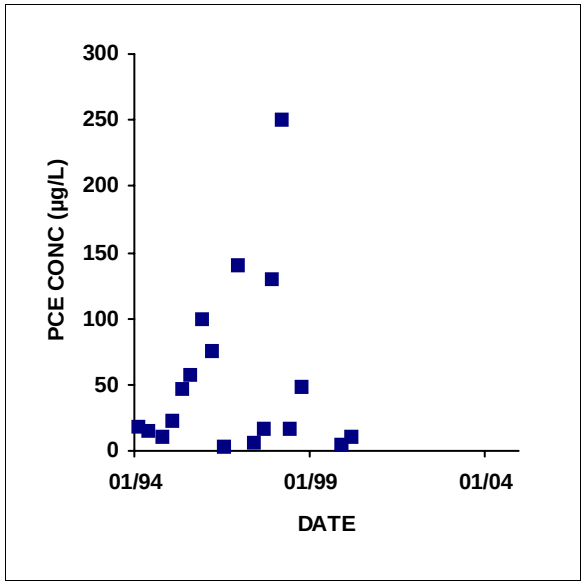
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



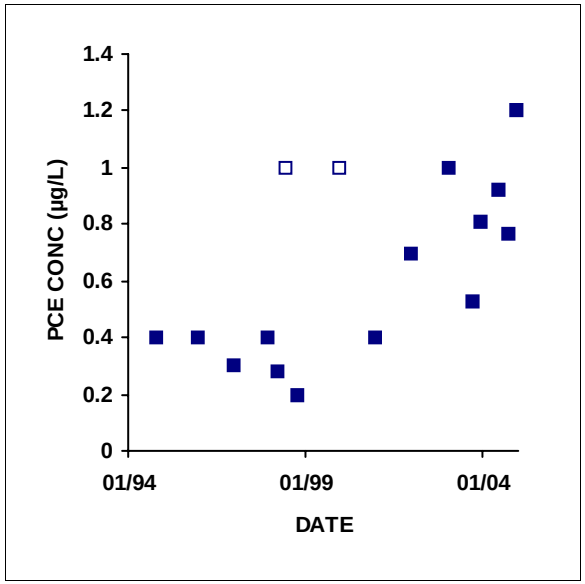
NH-VPB-12



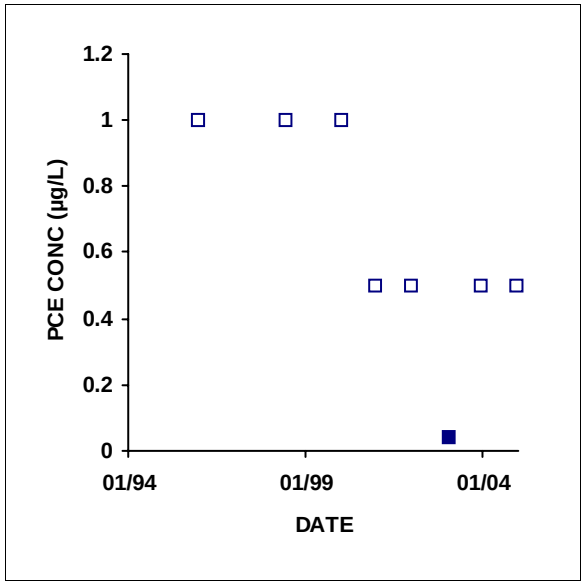
NH-VPB-13



NH-VPB-14



PO-C01-195



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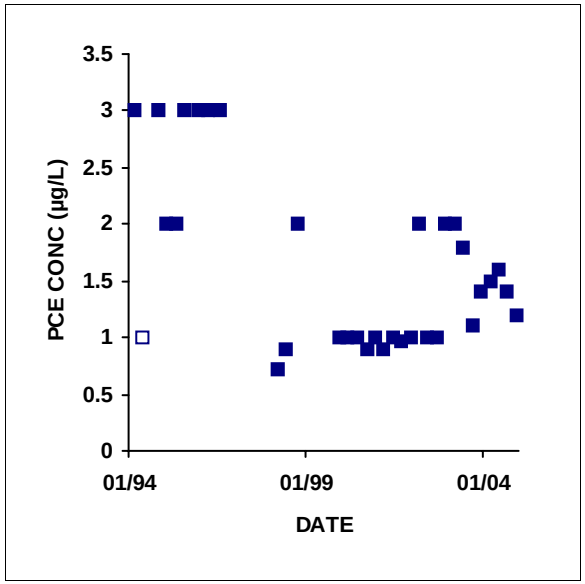


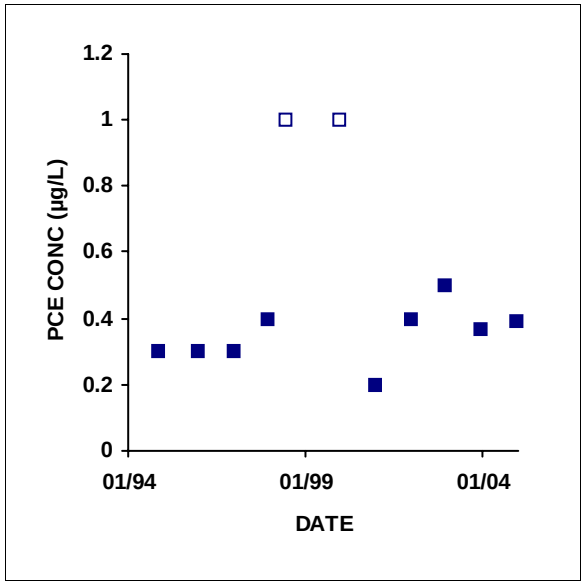
PO-C02-053

LEGEND

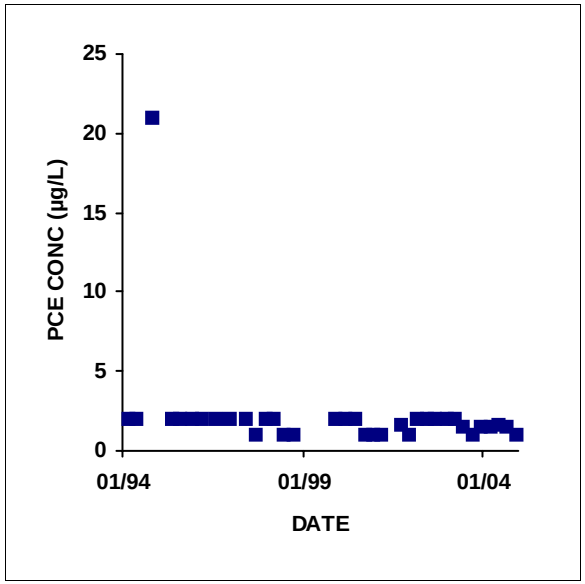
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

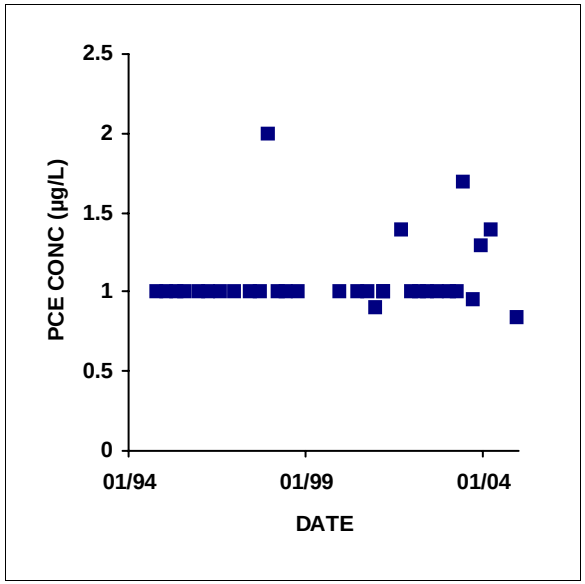
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



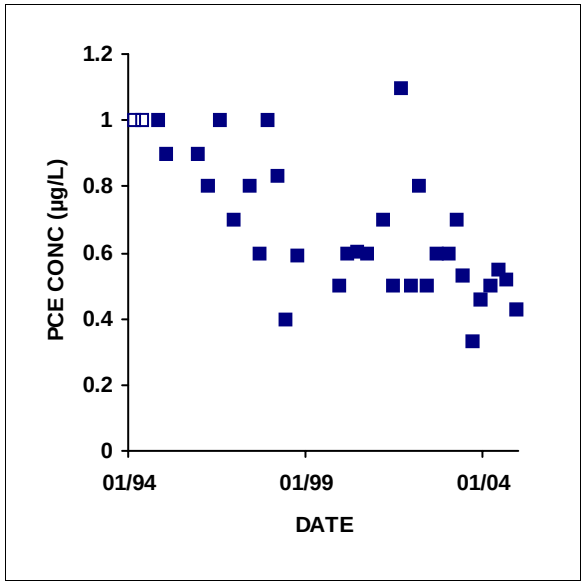
PO-C02-205



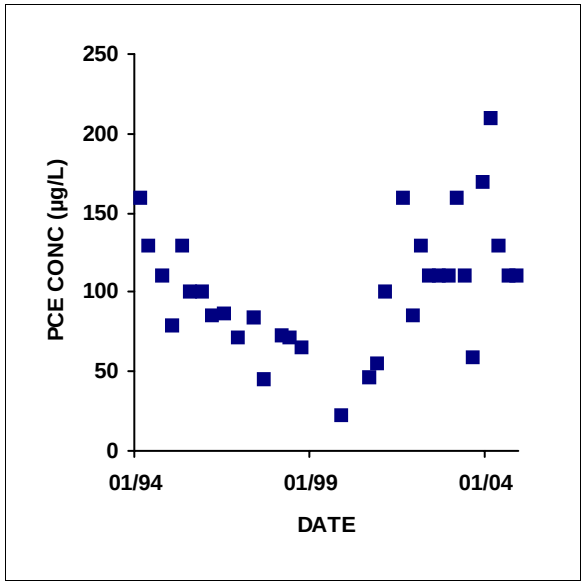
PO-C03-182



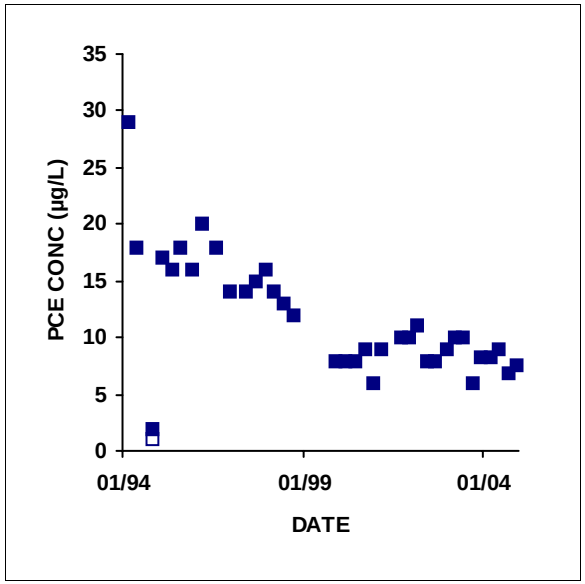
PO-C03-235



PO-VPB-01



PO-VPB-02



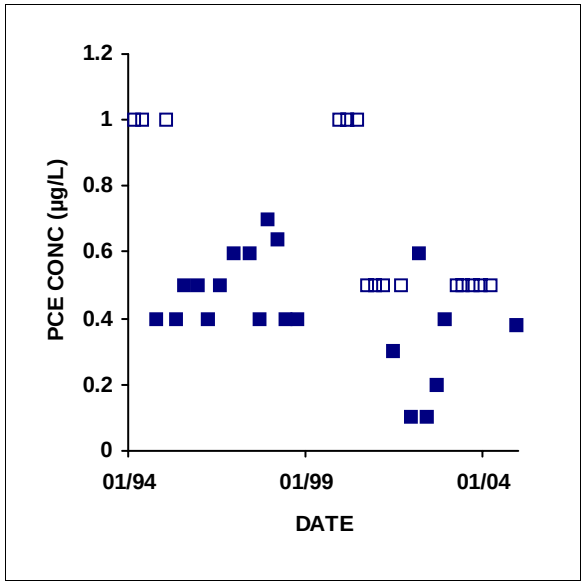
PO-VPB-03

LEGEND

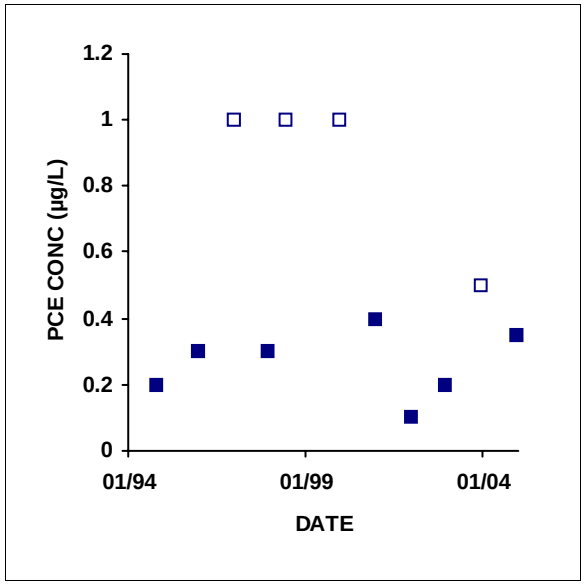
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

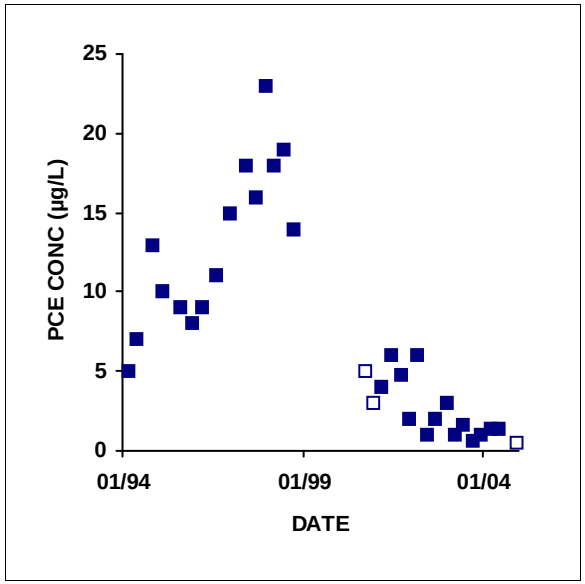
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



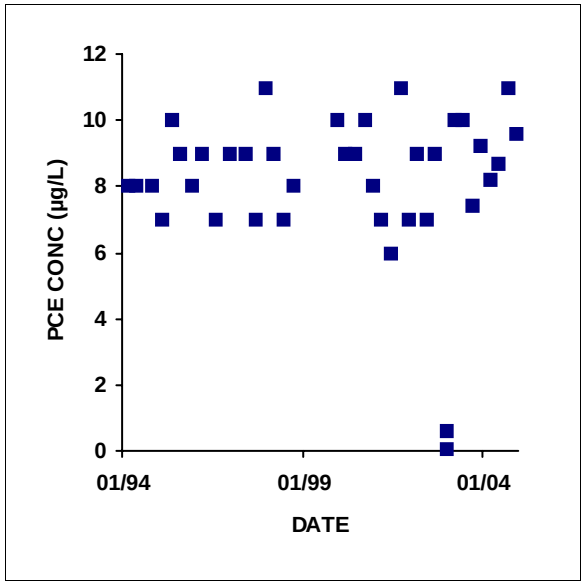
PO-VPB-05



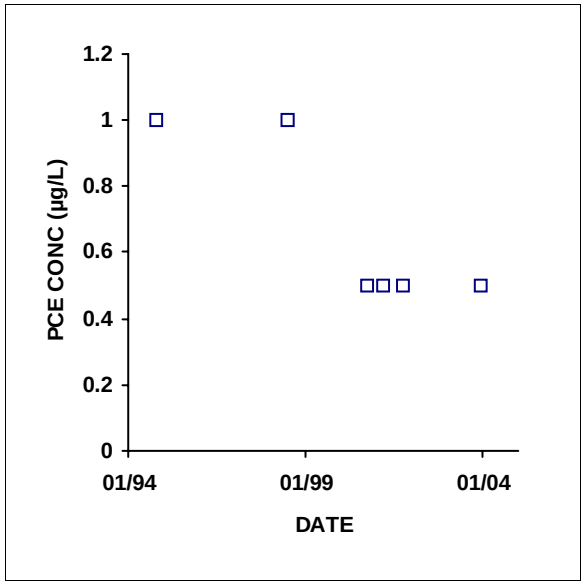
PO-VPB-06



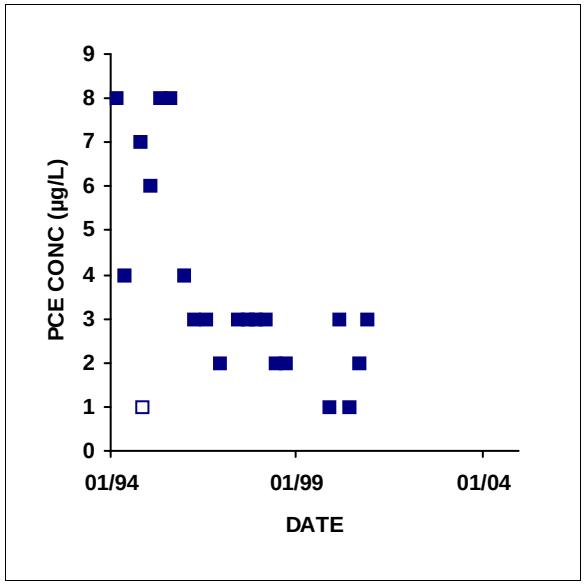
PO-VPB-07



PO-VPB-08



PO-VPB-10



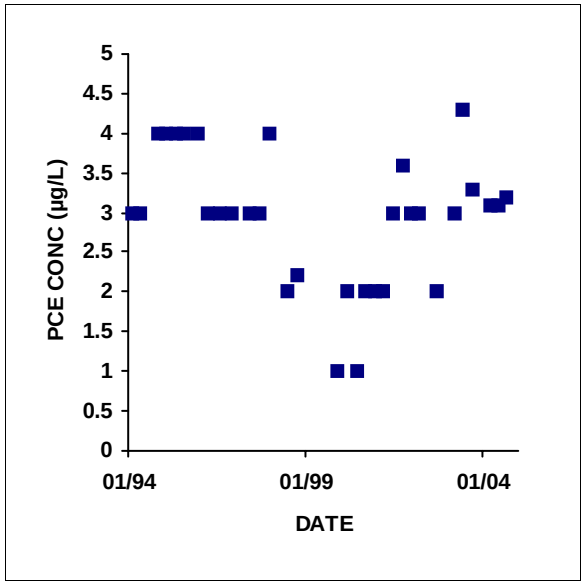
VD-VPB-01

LEGEND

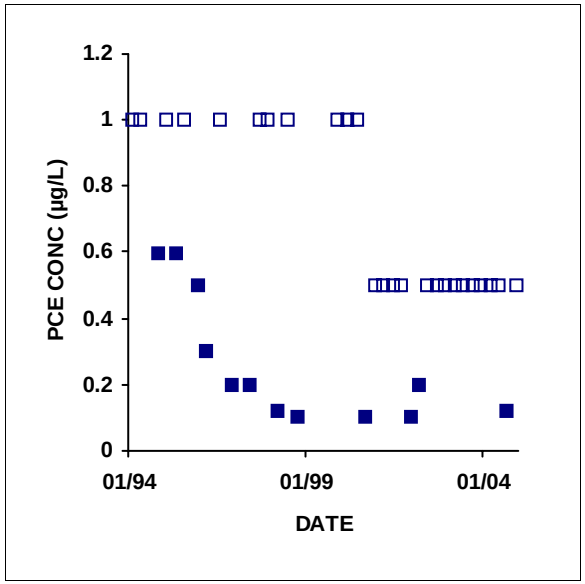
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

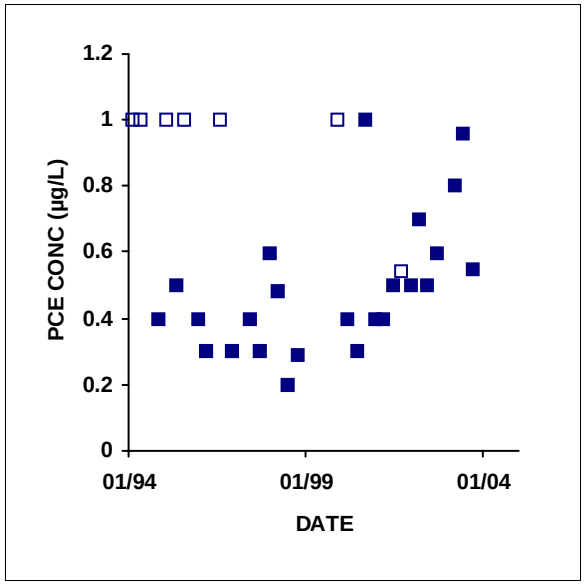
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



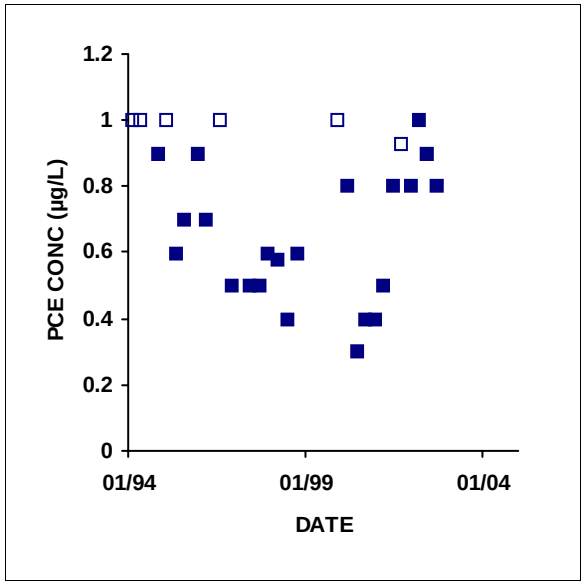
VD-VPB-02



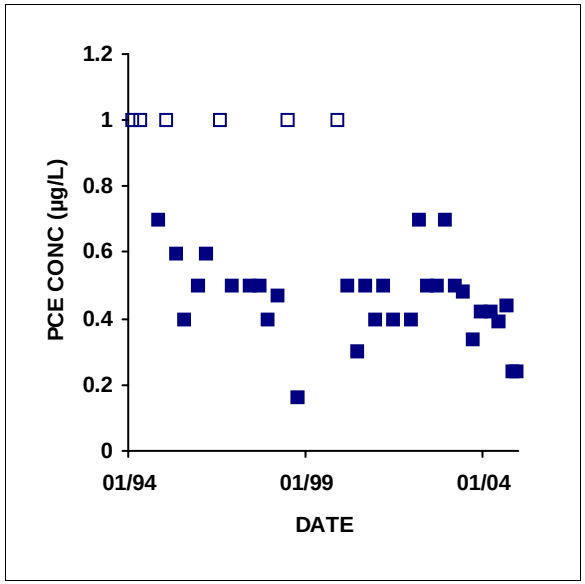
VD-VPB-03



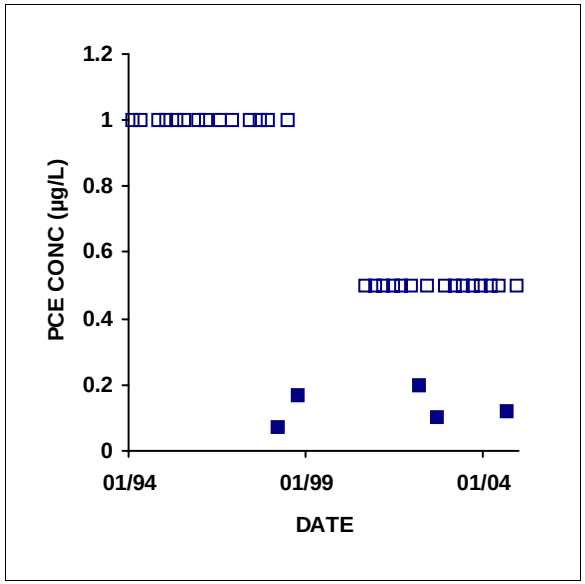
VD-VPB-04



VD-VPB-05



VD-VPB-06



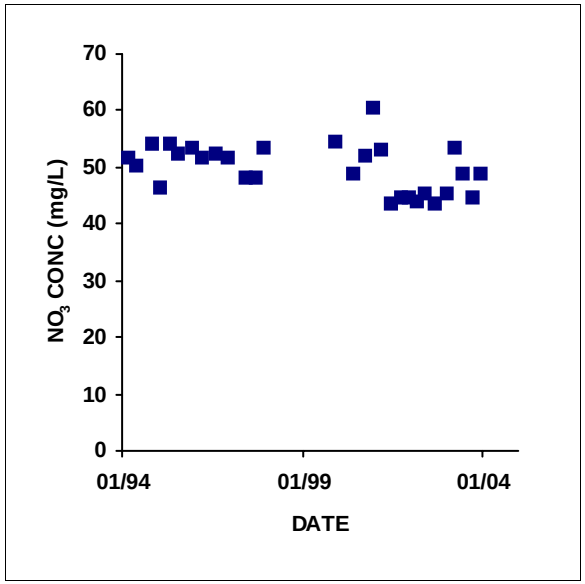
VD-VPB-07

LEGEND

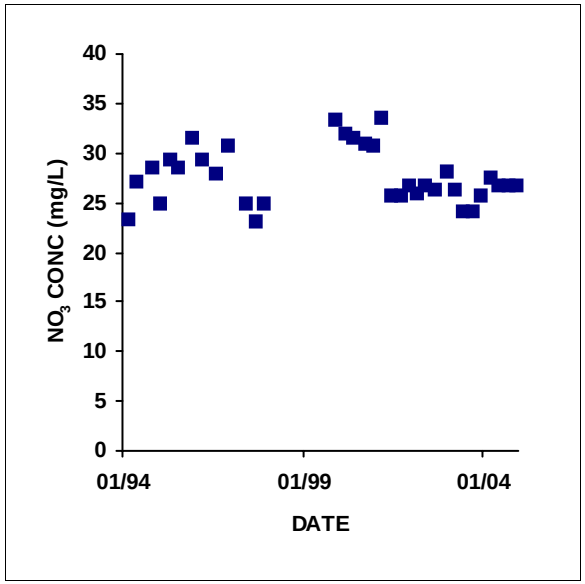
■ **PCE Concentration** □ **PCE Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

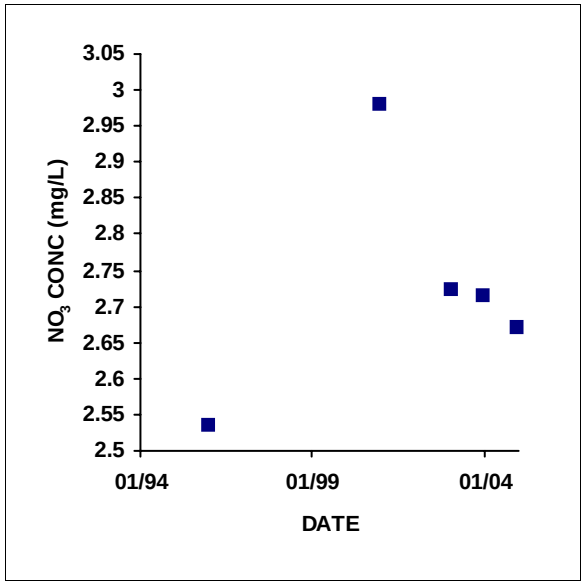
FIGURE 3-3 HISTORICAL CHEMICAL CONCENTRATIONS OF PCE FOR RI MONITORING WELLS



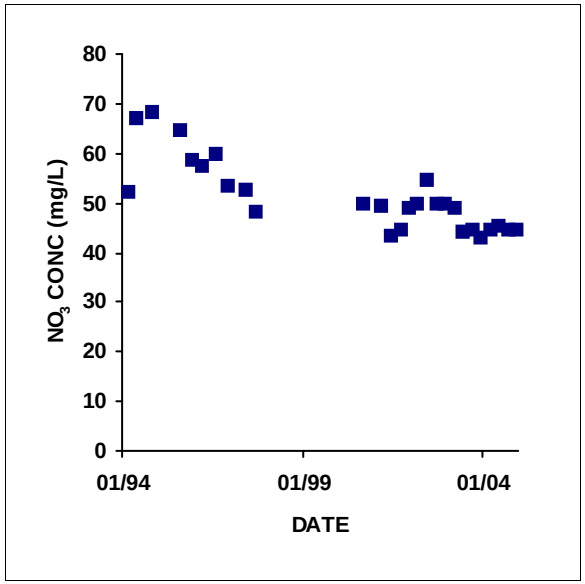
CS-C01-105



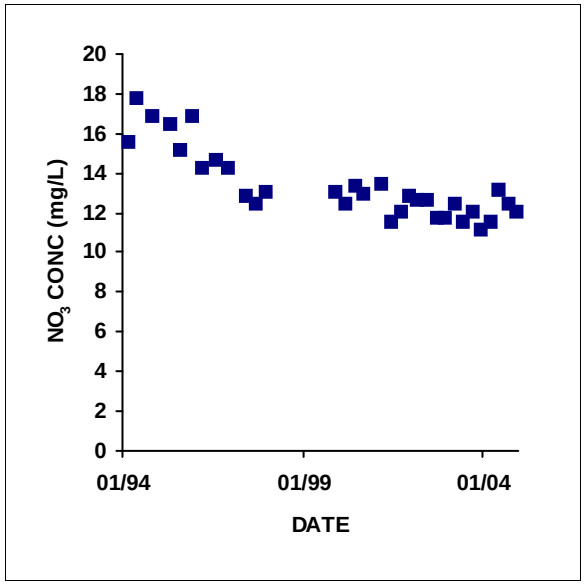
CS-C01-285



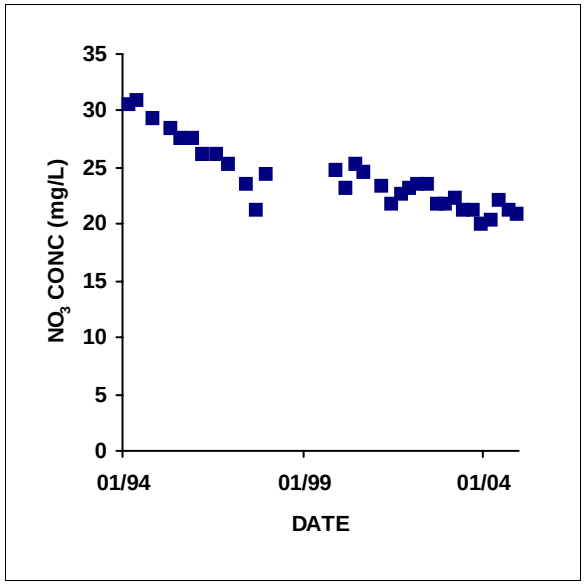
CS-C01-558



CS-C02-062



CS-C02-180



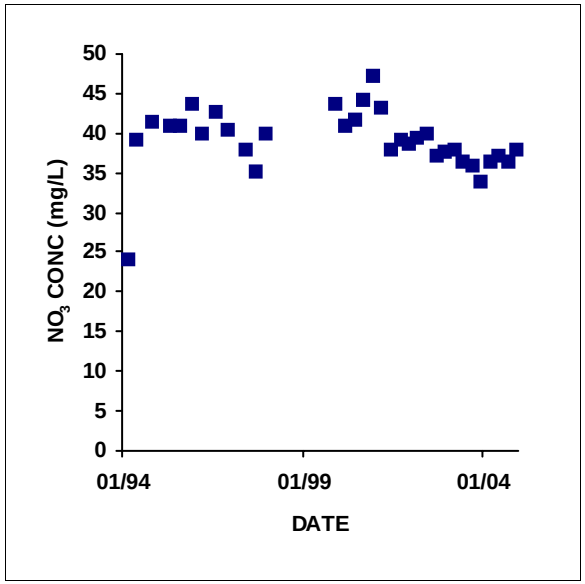
CS-C02-250

LEGEND

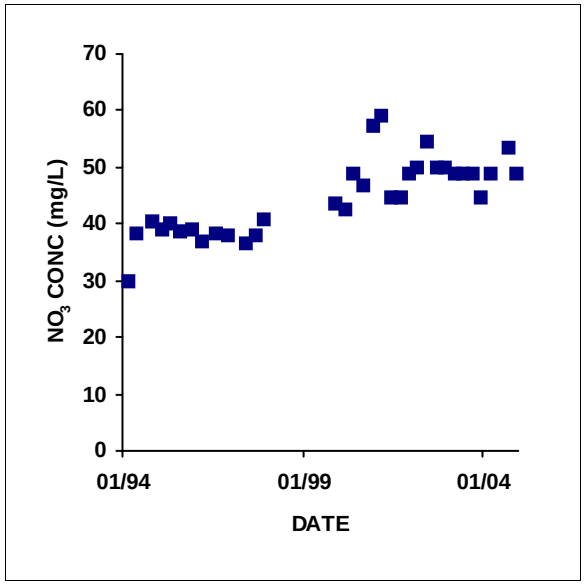
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

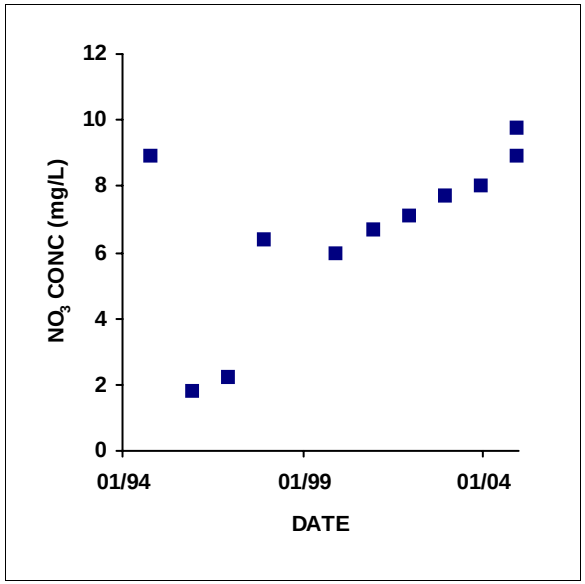
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



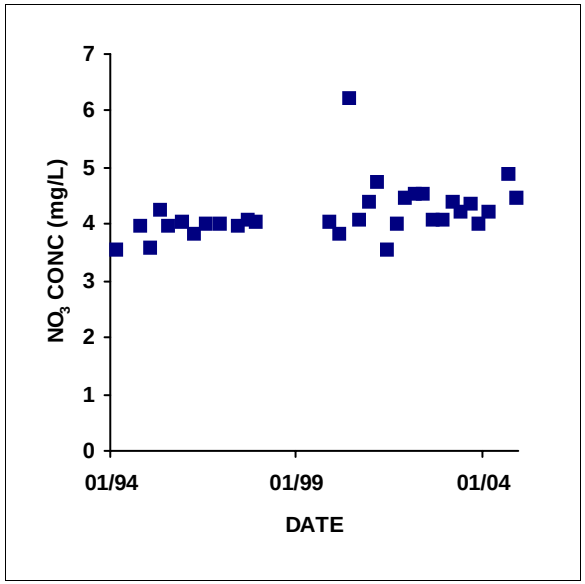
CS-C02-335



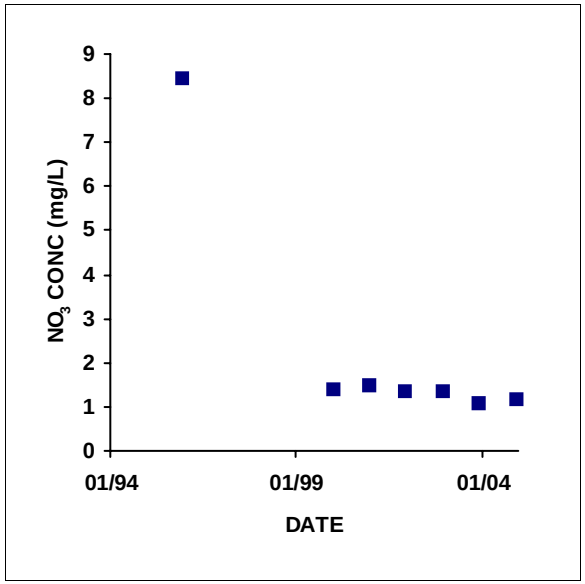
CS-C03-100



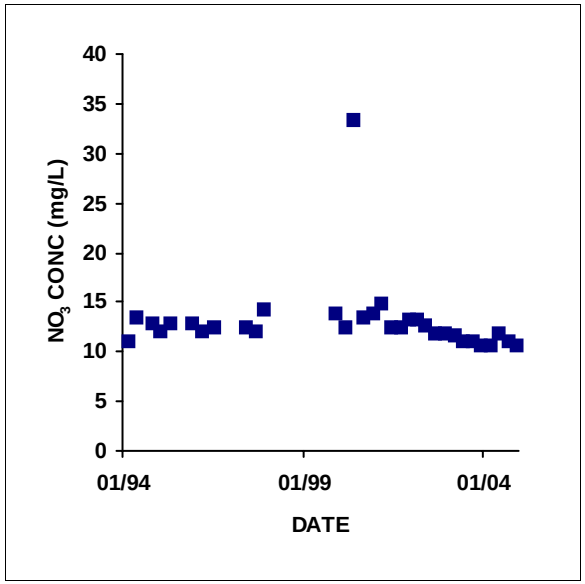
CS-C03-325



CS-C03-465



CS-C03-550



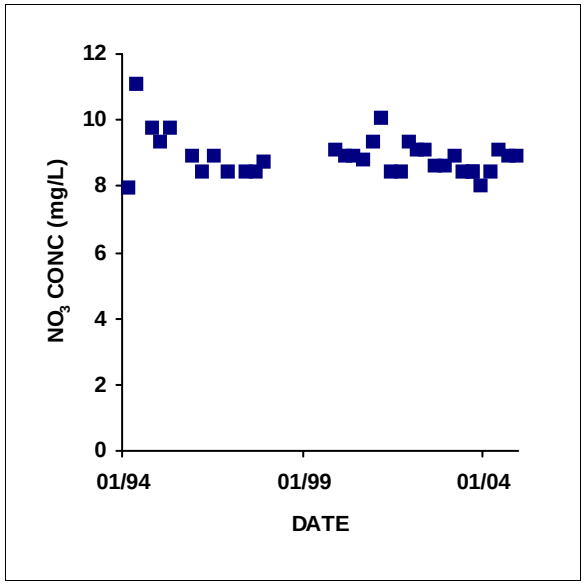
CS-C04-290

LEGEND

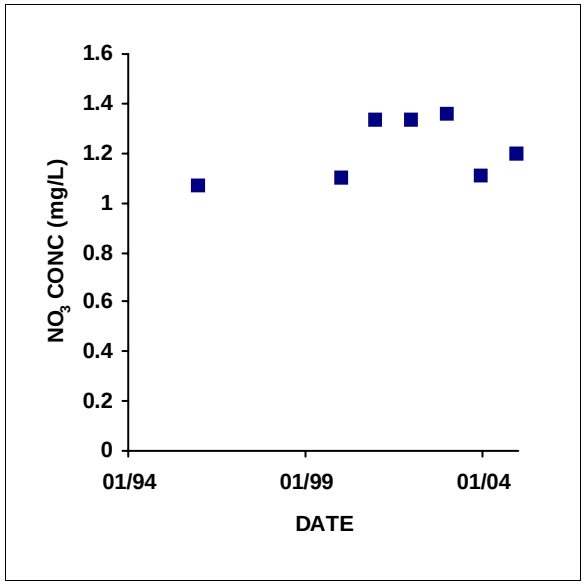
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

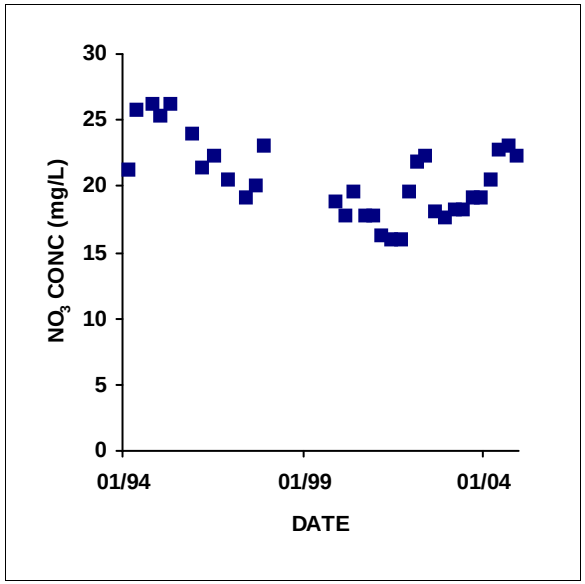
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



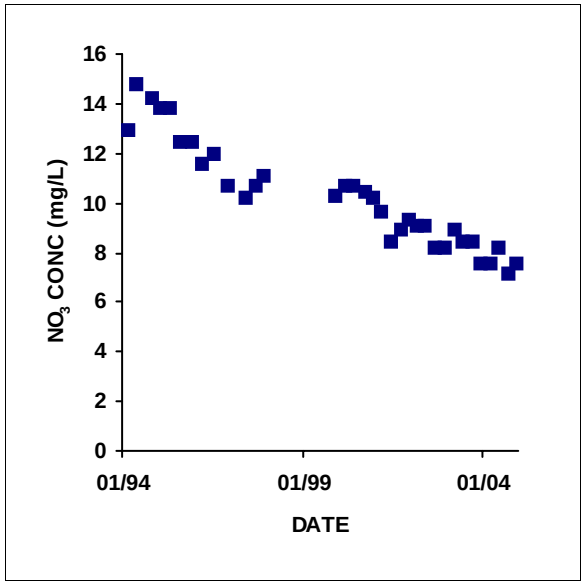
CS-C04-382



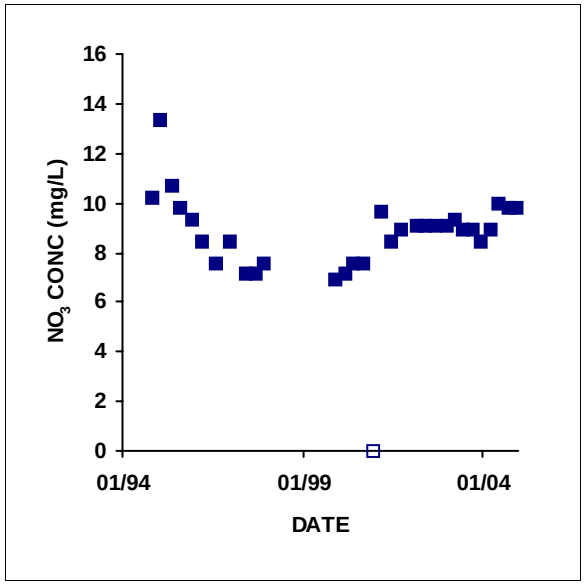
CS-C04-520



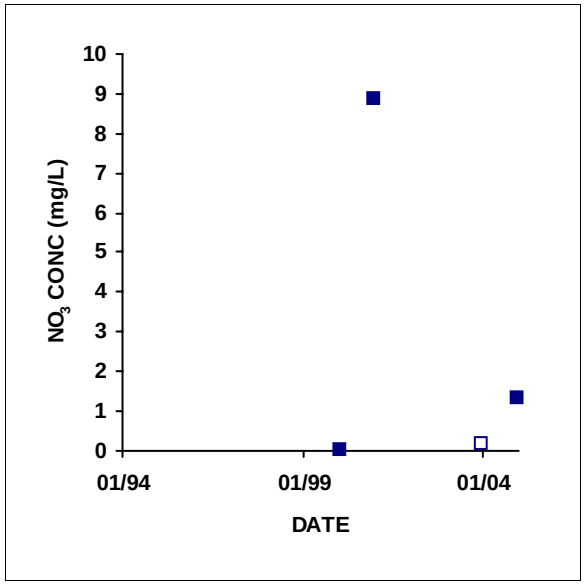
CS-C05-160



CS-C05-290



CS-C06-185



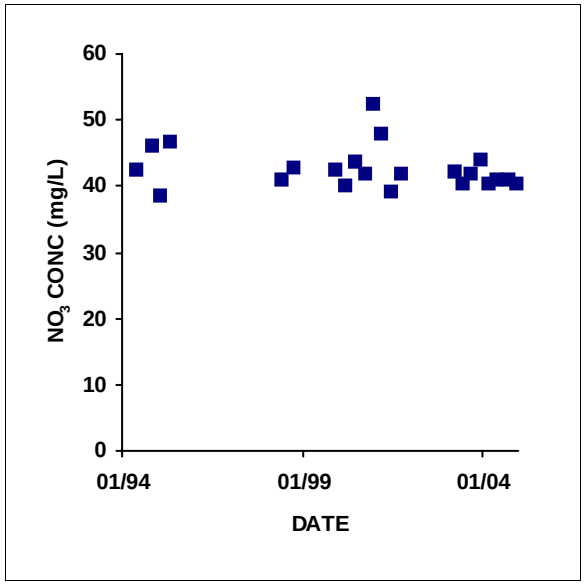
CS-C06-278

LEGEND

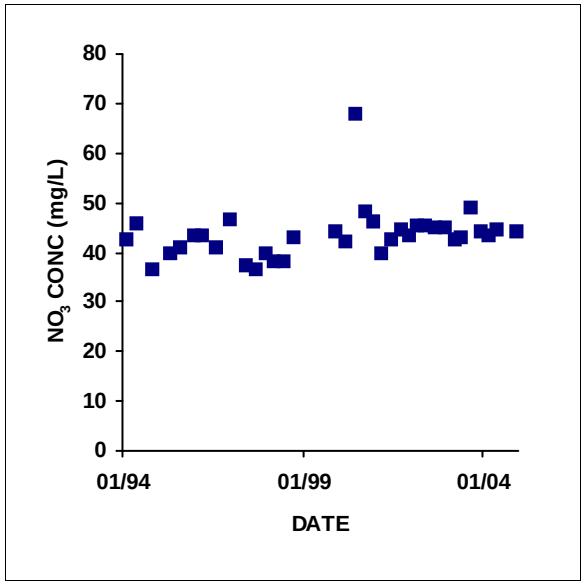
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

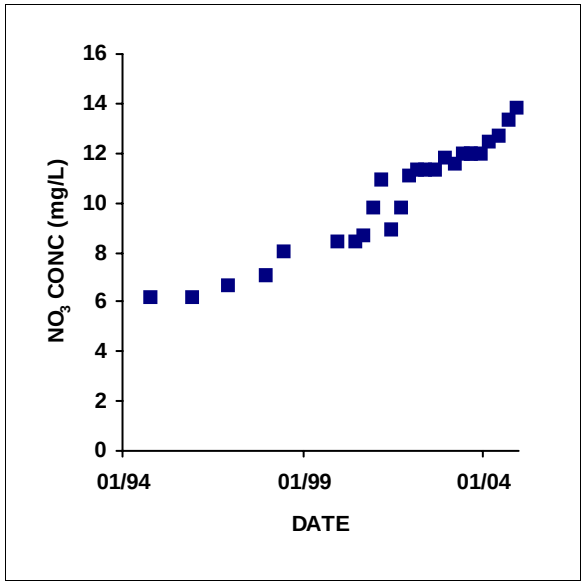
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



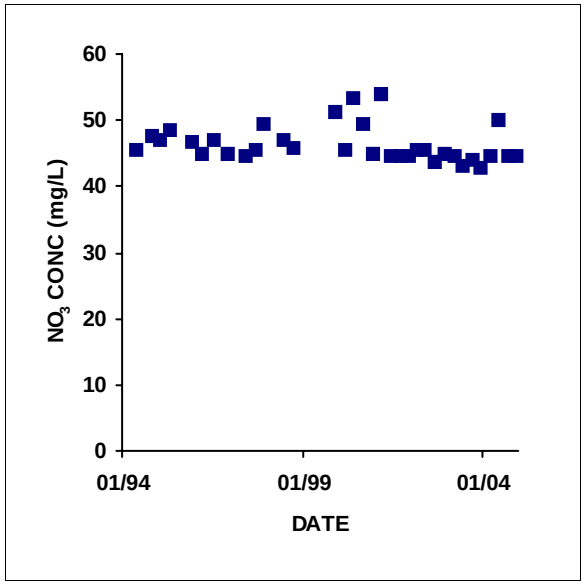
CS-VPB-01



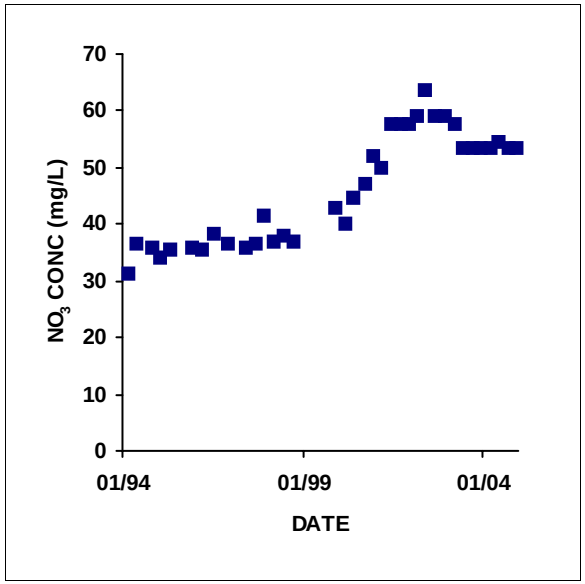
CS-VPB-02



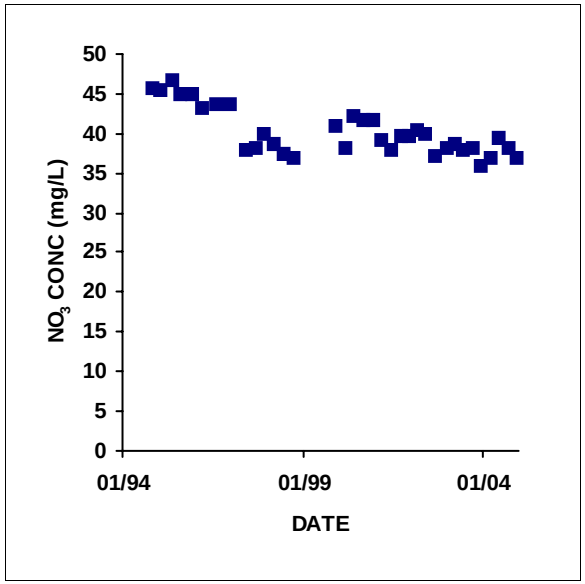
CS-VPB-03



CS-VPB-04



CS-VPB-05



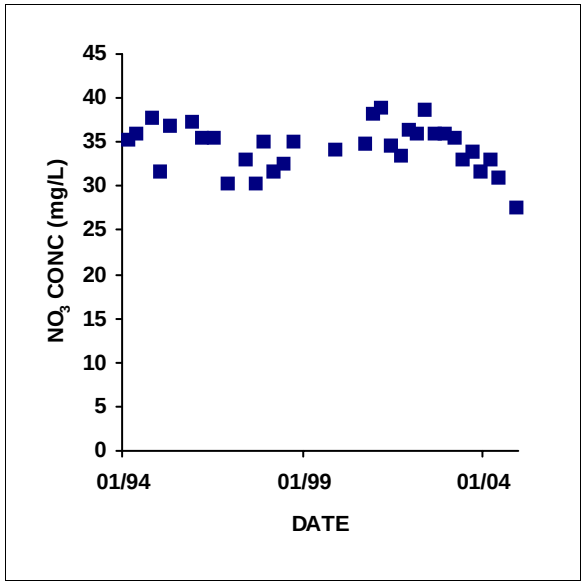
CS-VPB-06

LEGEND

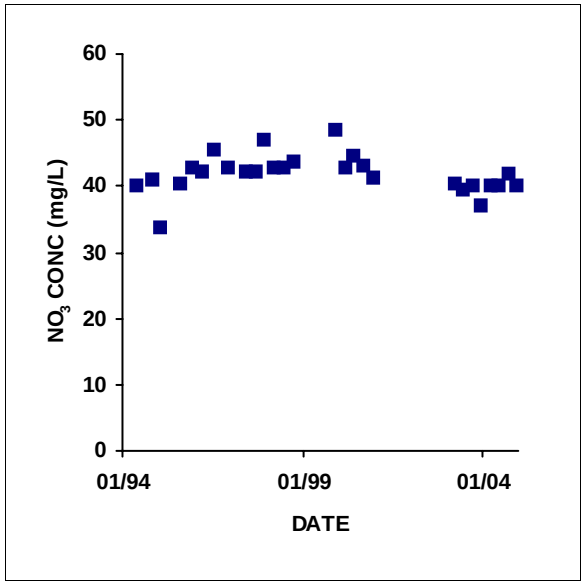
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



CS-VPB-07



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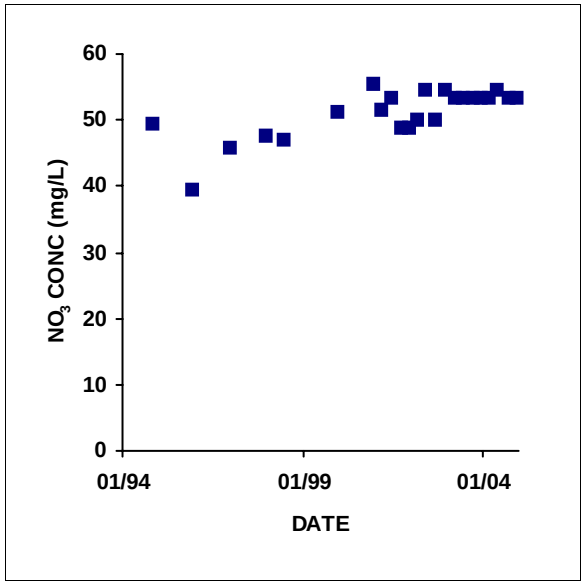
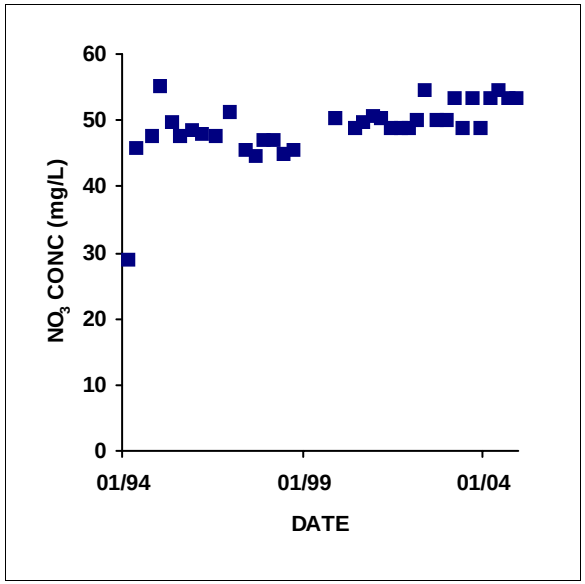
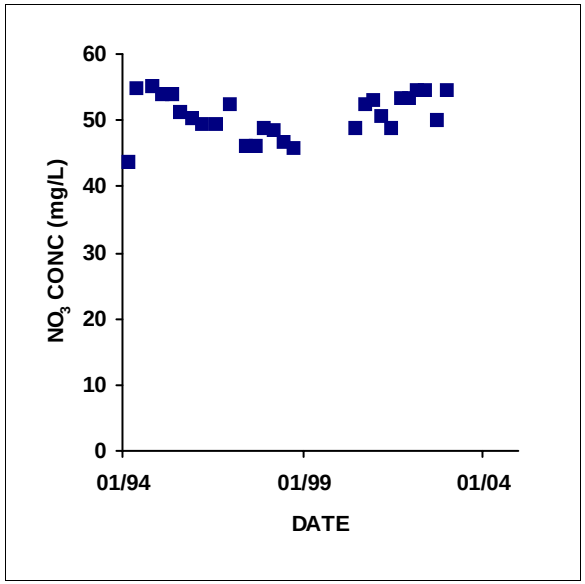


CS-VPB-09



CS-VPB-10



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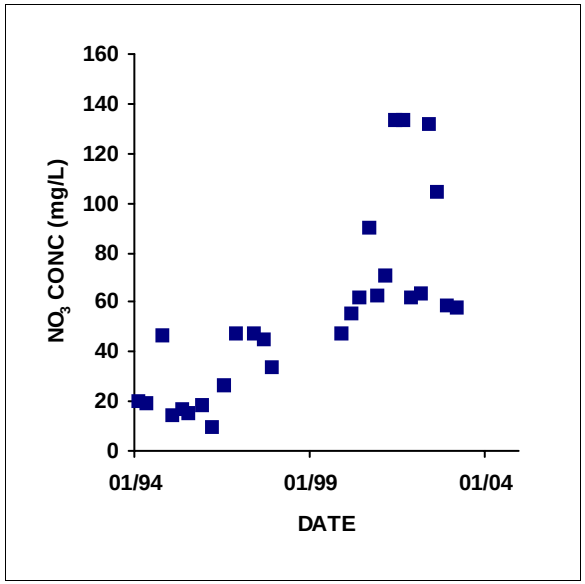


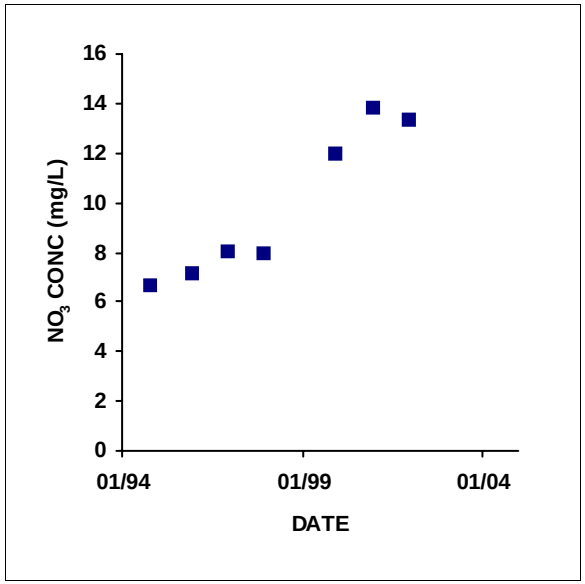
NH-C01-325

LEGEND

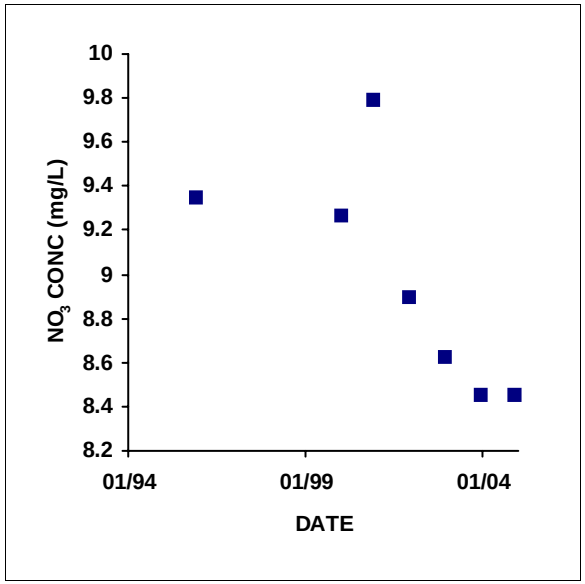
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

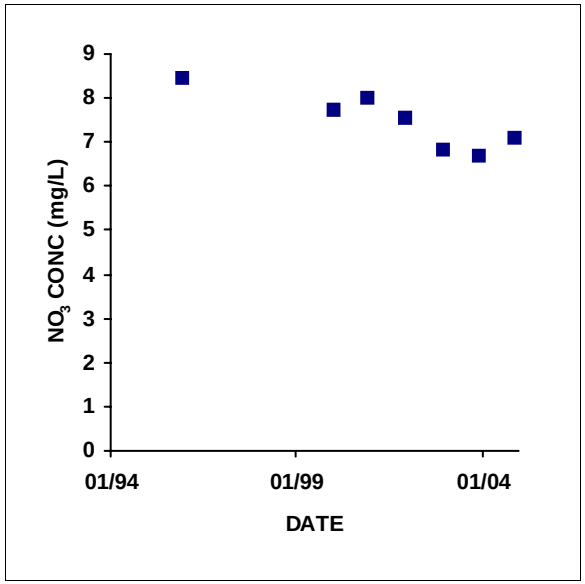
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



NH-C01-450



NH-C01-660



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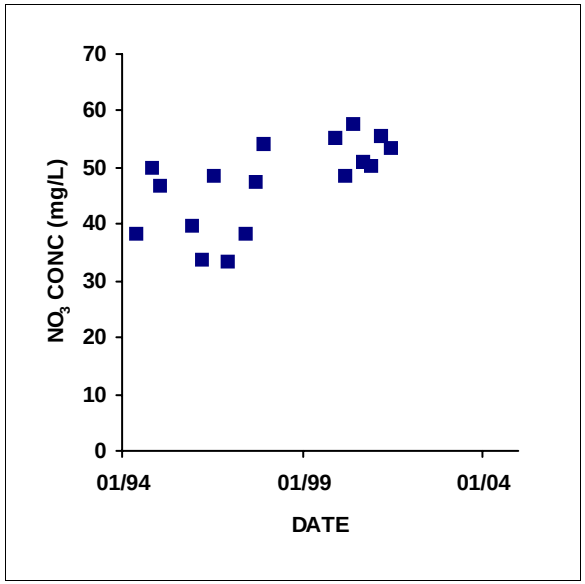
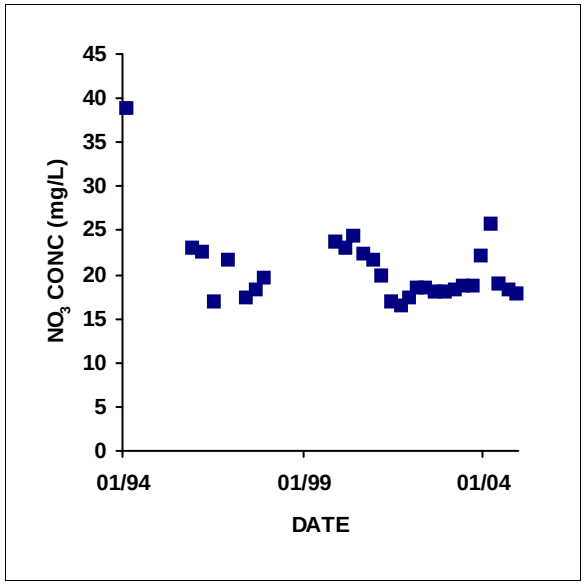


NH-C02-220



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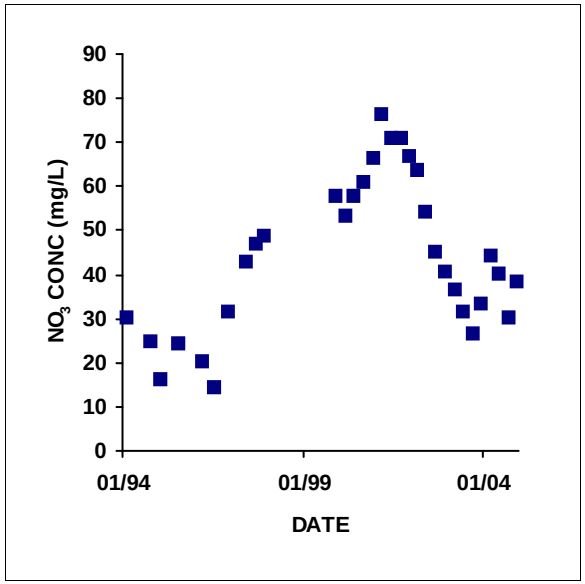


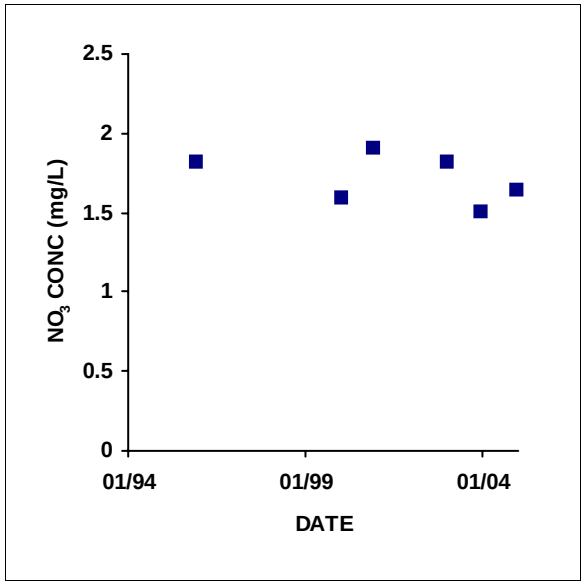
NH-C02-520

LEGEND

■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



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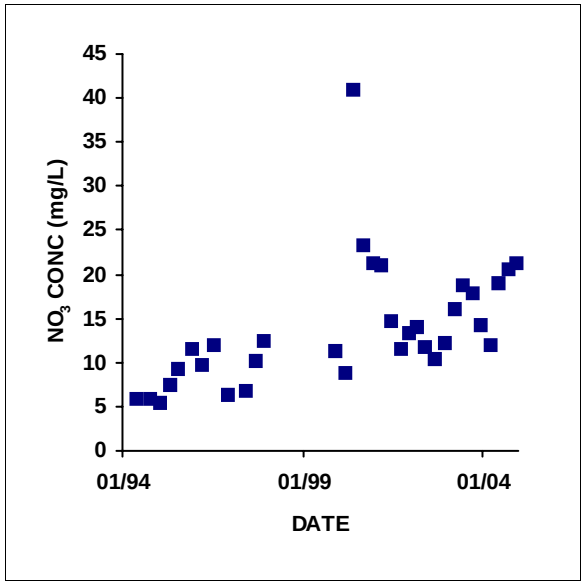
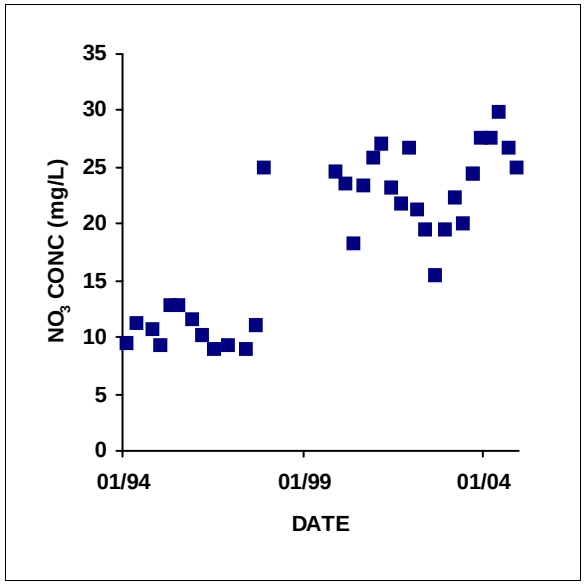


NH-C03-380



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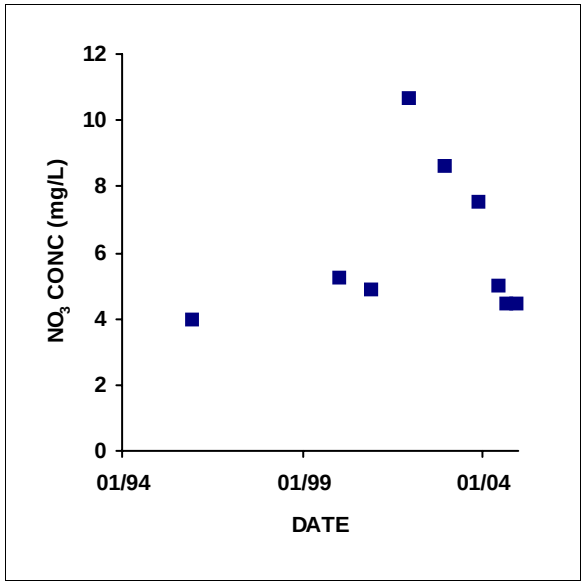
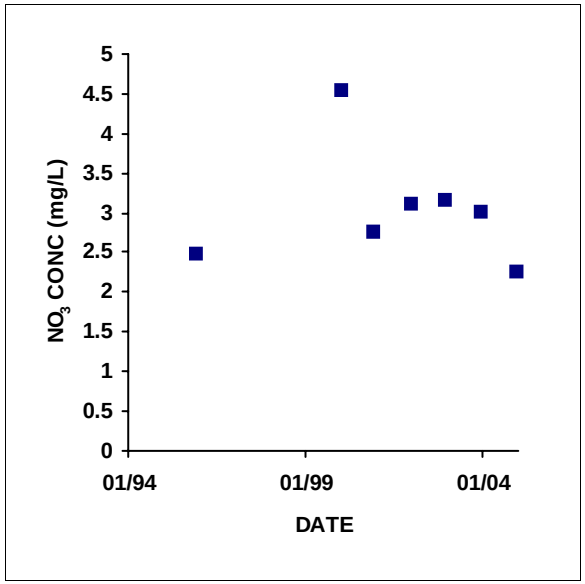


NH-C03-680



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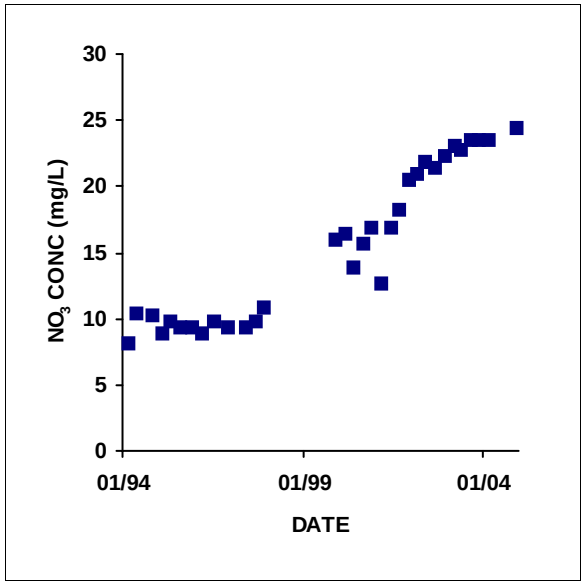


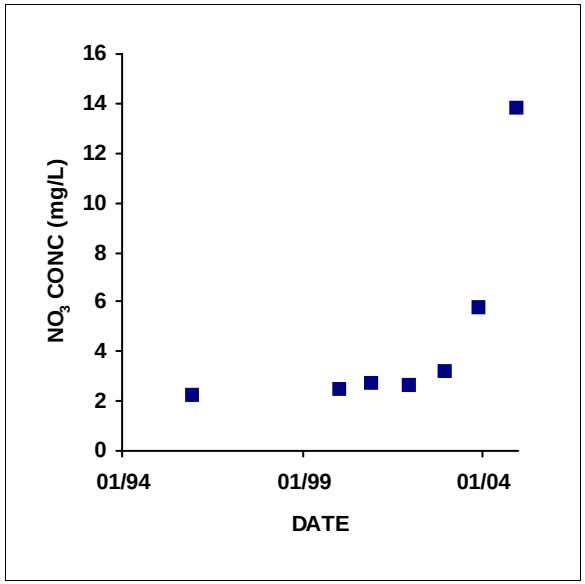
NH-C04-240

LEGEND

■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



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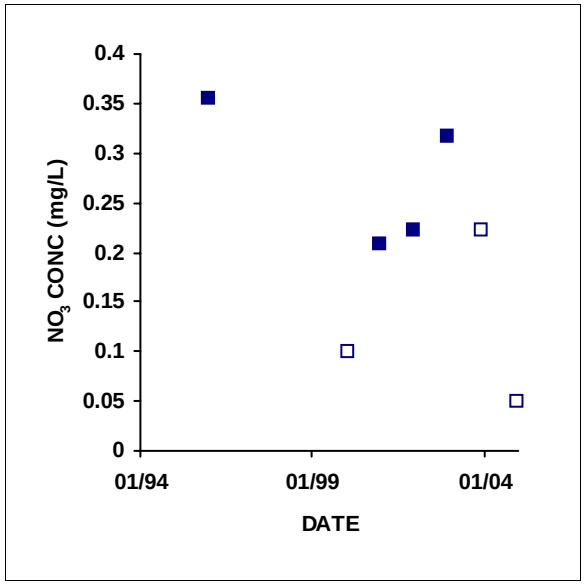

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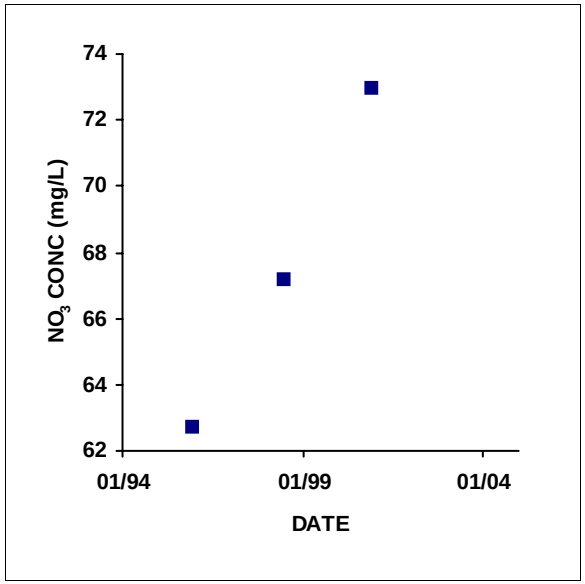
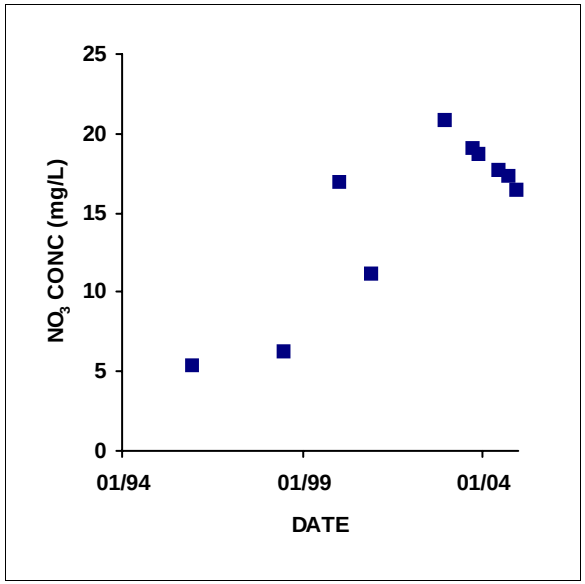
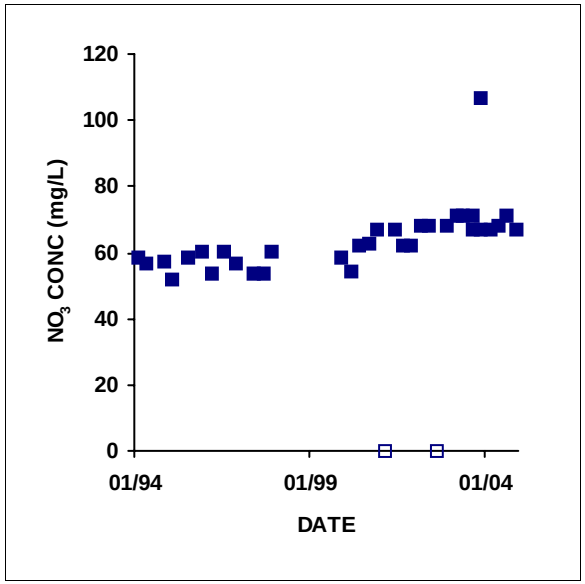


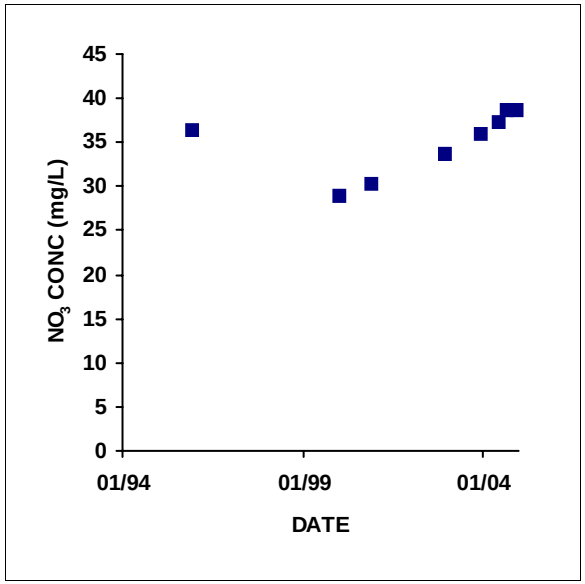
NH-C05-320



NH-C05-460



NH-C06-160



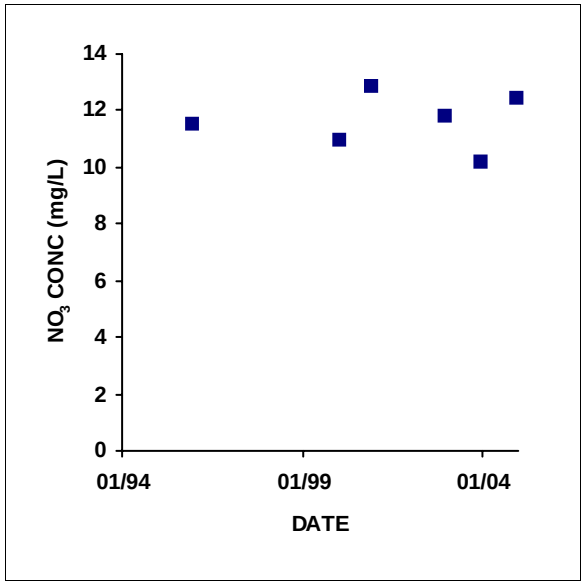
NH-C06-285

LEGEND

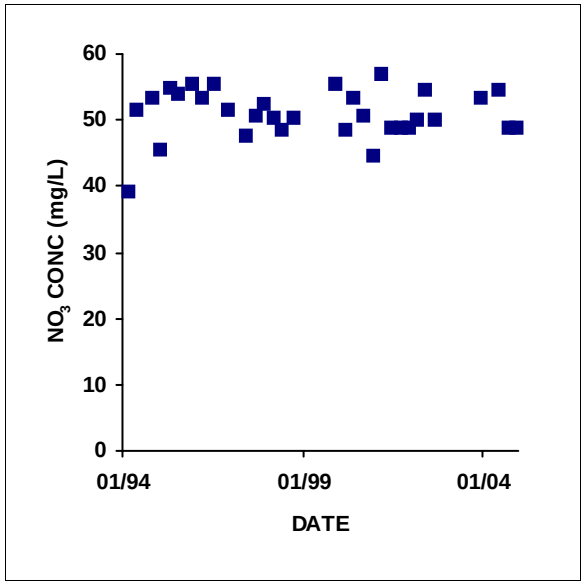
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

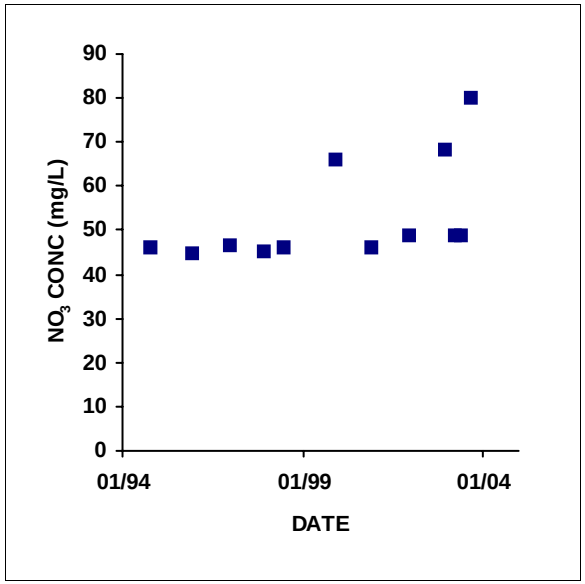
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



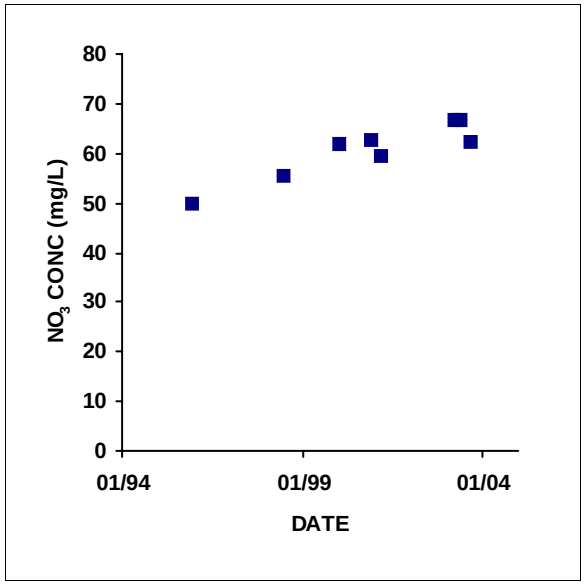
NH-C06-425



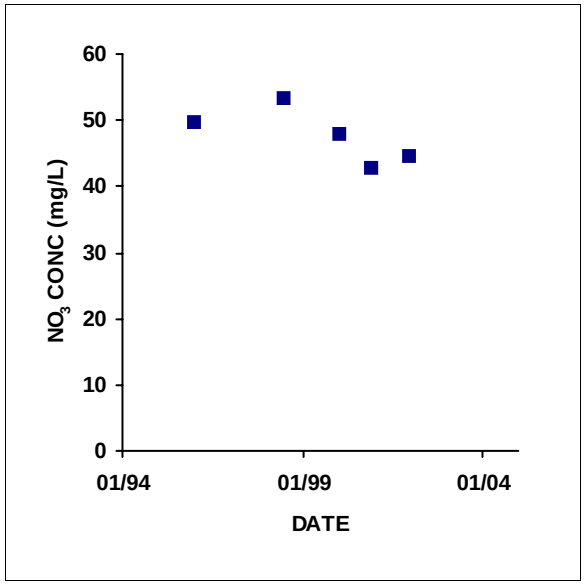
NH-VPB-01



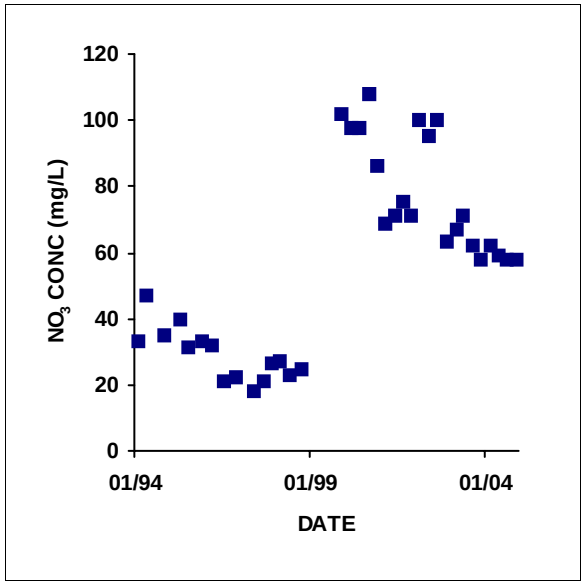
NH-VPB-02



NH-VPB-03



NH-VPB-04



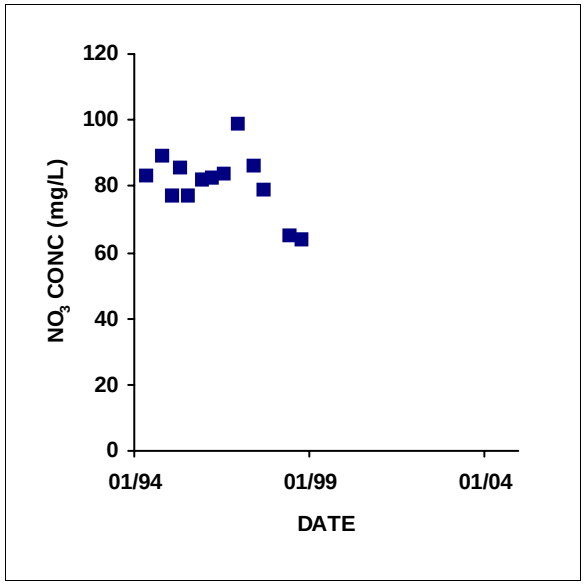
NH-VPB-05

LEGEND

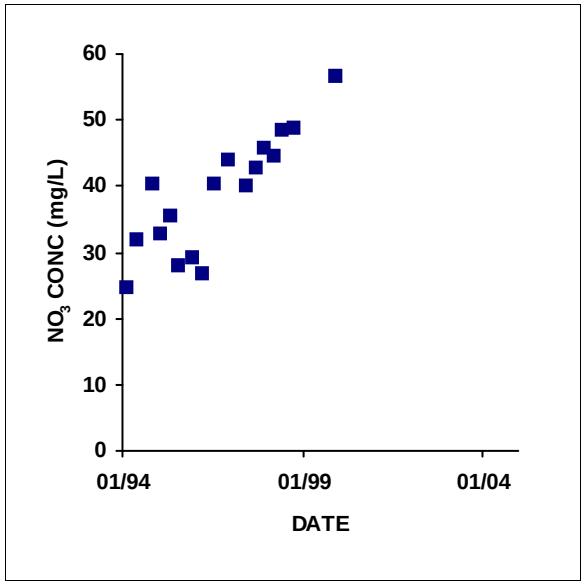
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

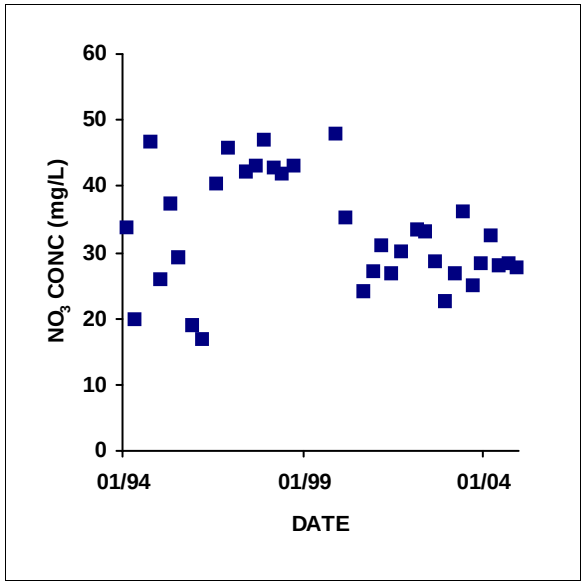
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



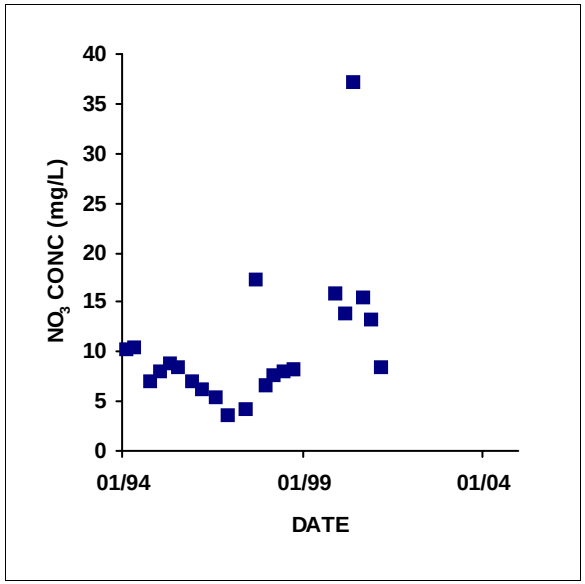
NH-VPB-06



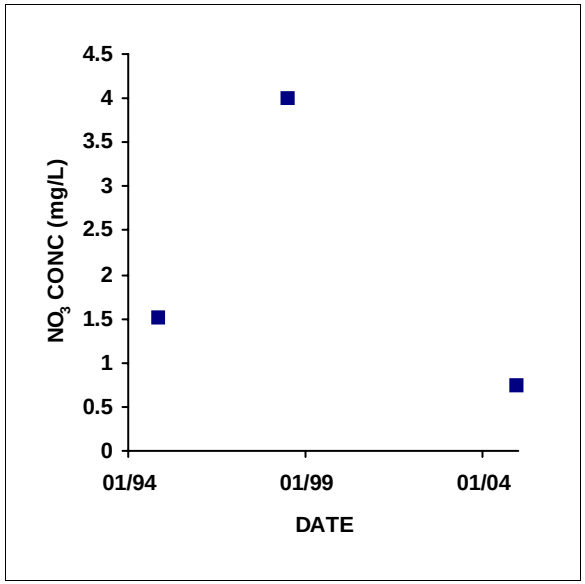
NH-VPB-07



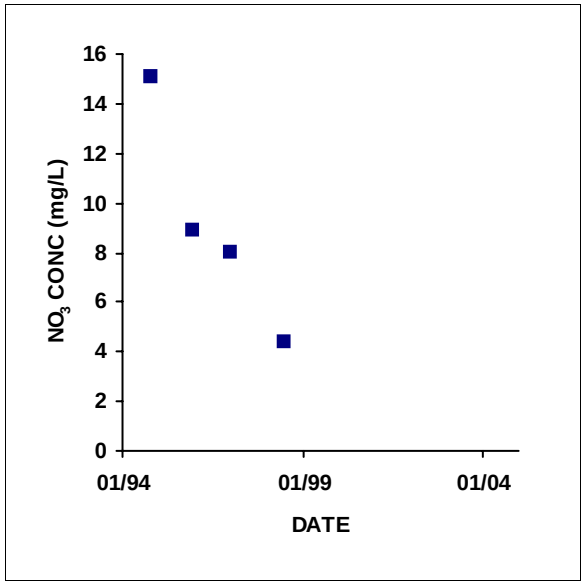
NH-VPB-08



NH-VPB-09



NH-VPB-10



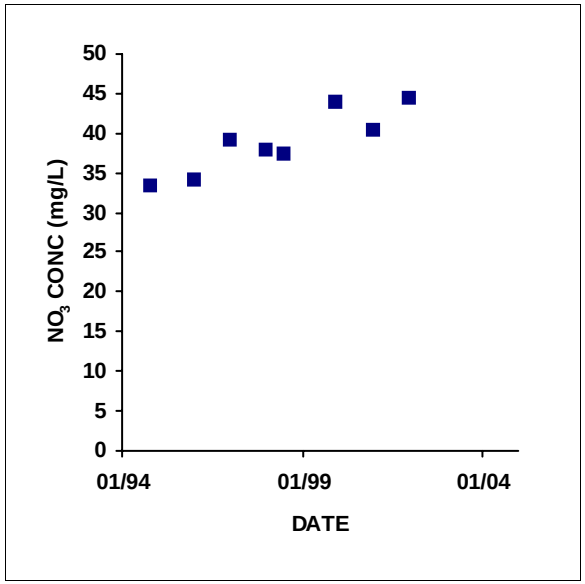
NH-VPB-11

LEGEND

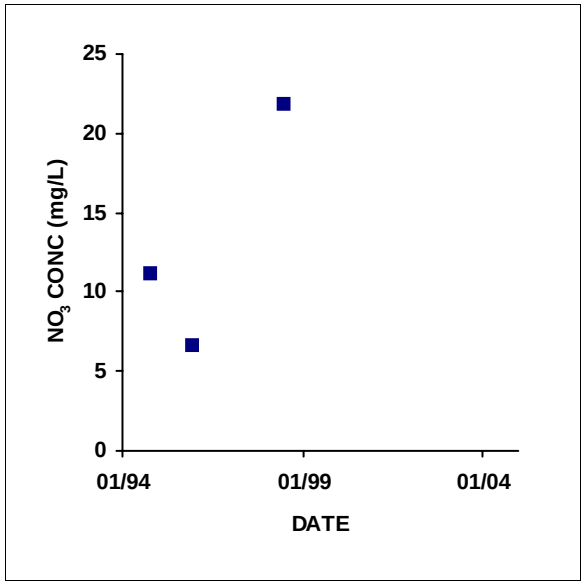
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

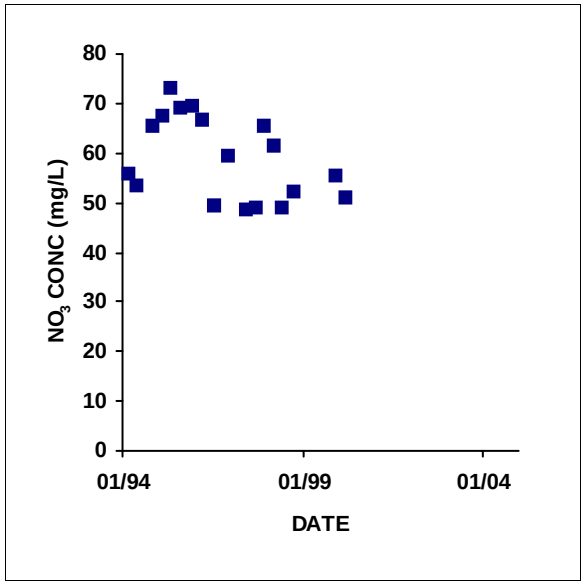
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



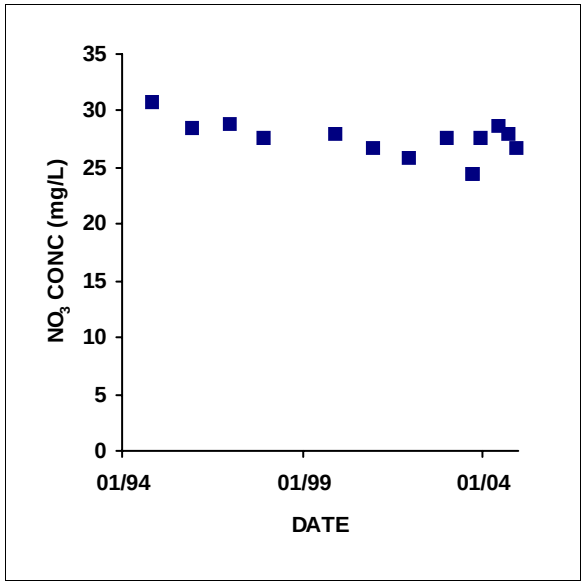
NH-VPB-12



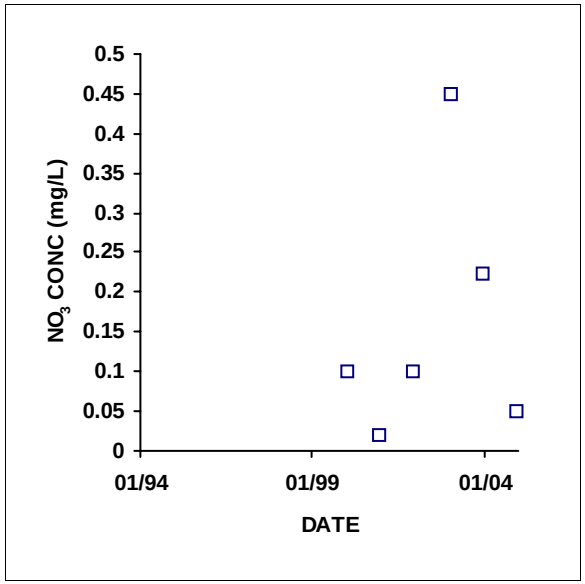
NH-VPB-13



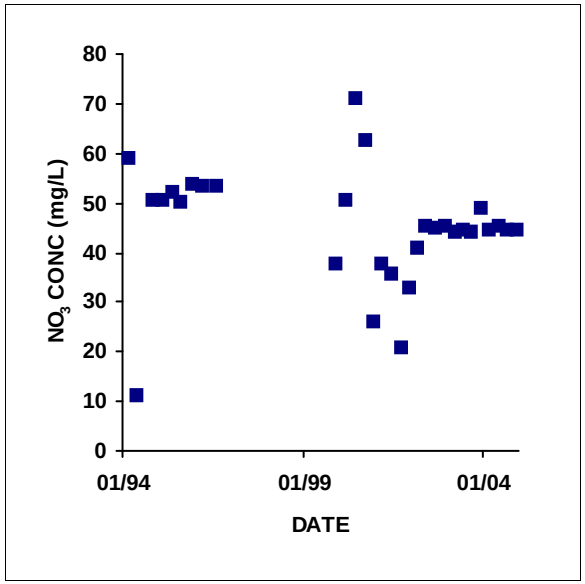
NH-VPB-14



PO-C01-195



PO-C01-354



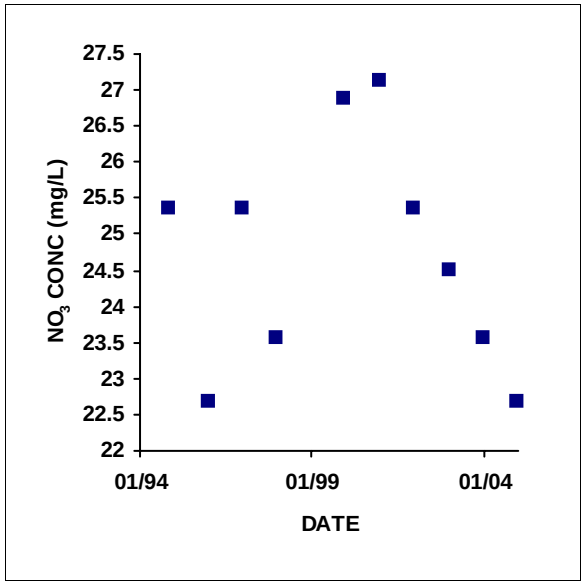
PO-C02-053

LEGEND

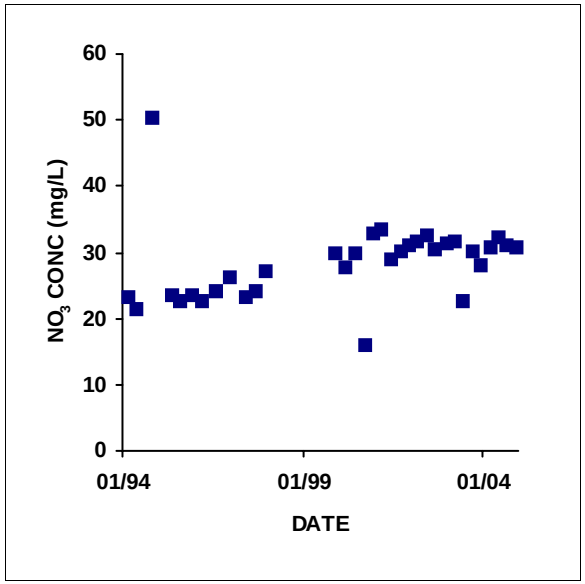
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

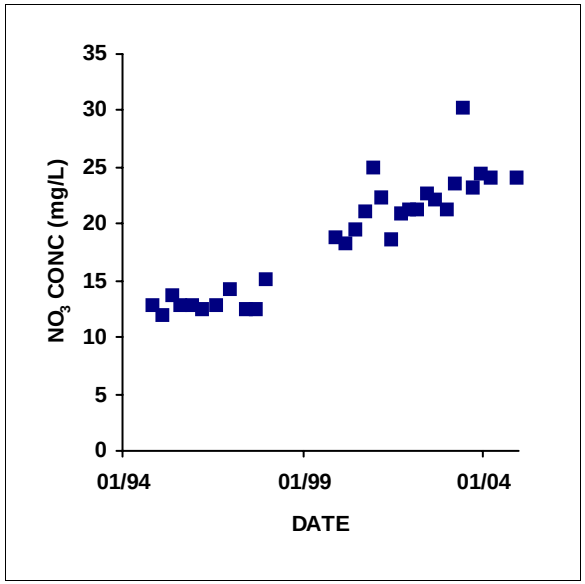
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



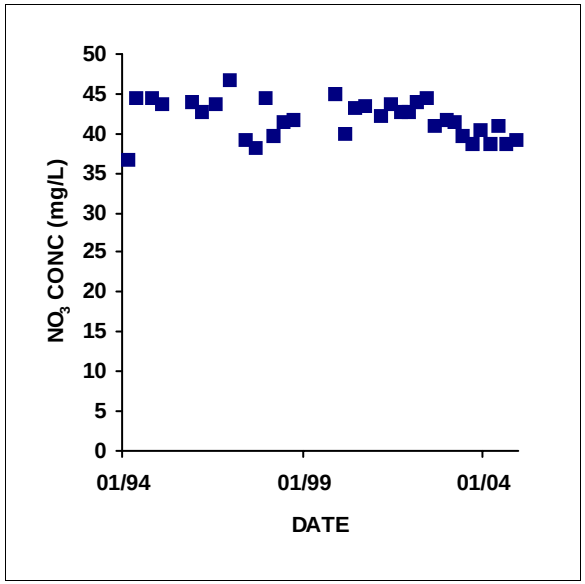
PO-C02-205



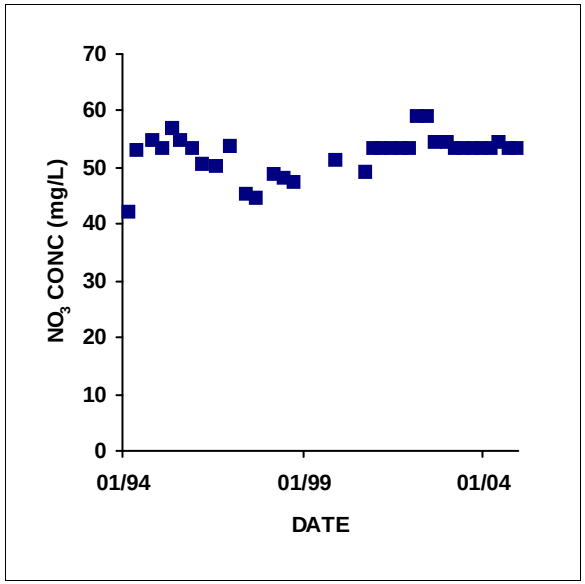
PO-C03-182



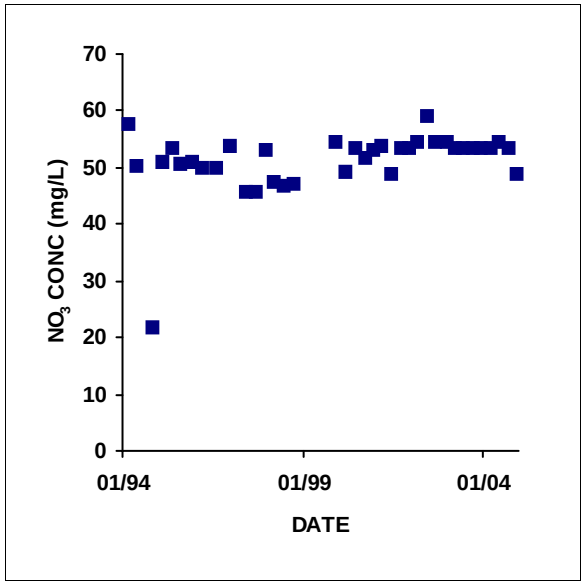
PO-C03-235



PO-VPB-01



PO-VPB-02



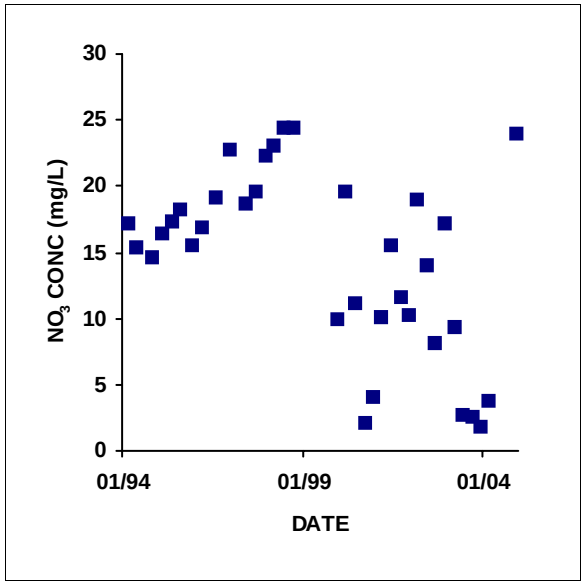
PO-VPB-03

LEGEND

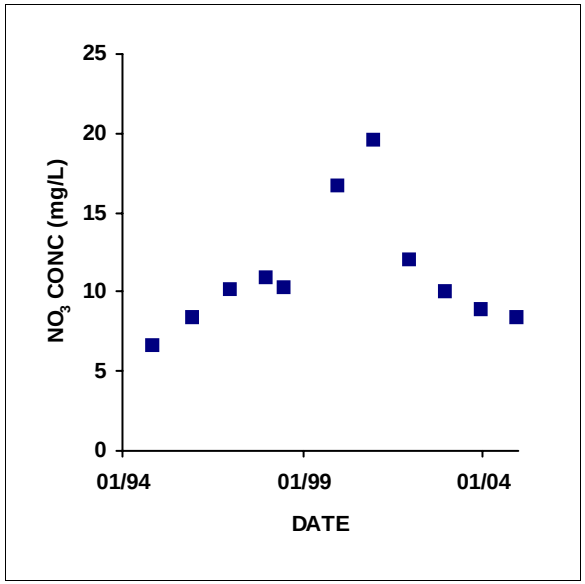
■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

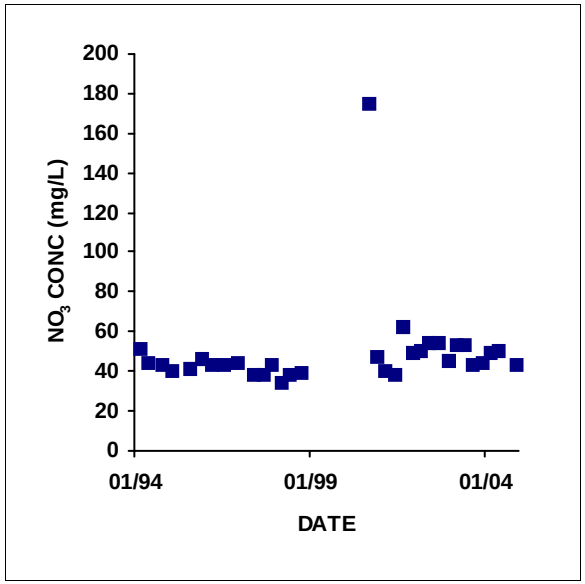
FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



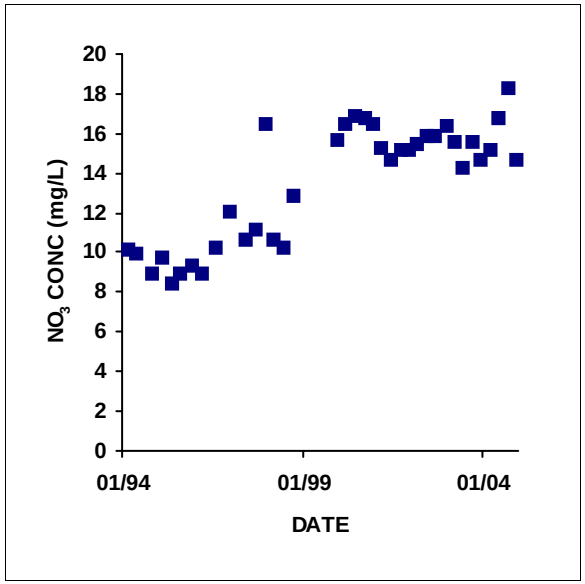
PO-VPB-05



PO-VPB-06



PO-VPB-07



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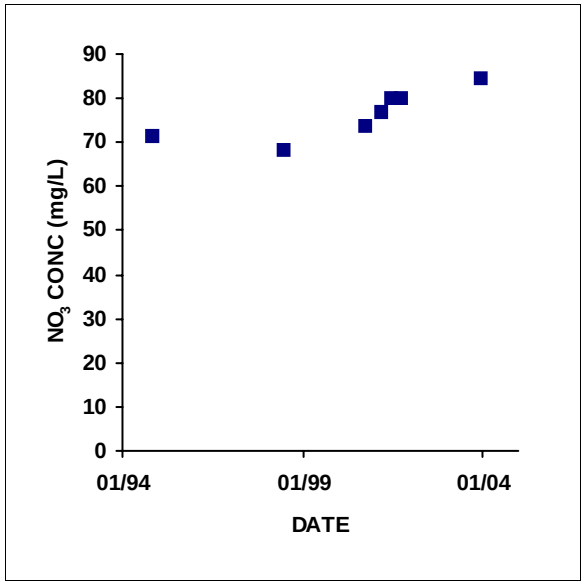

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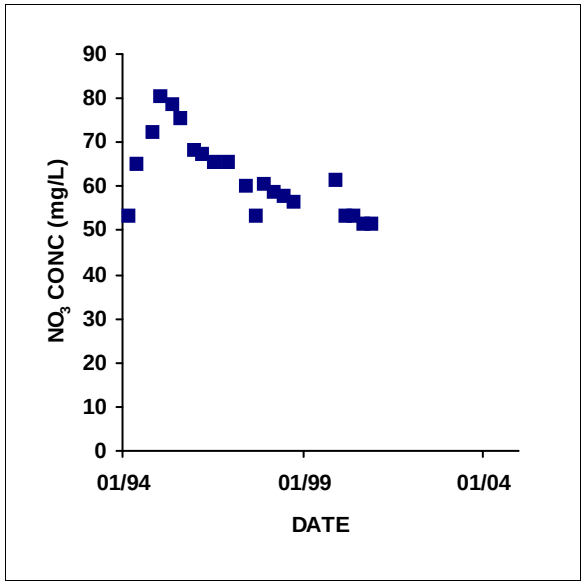


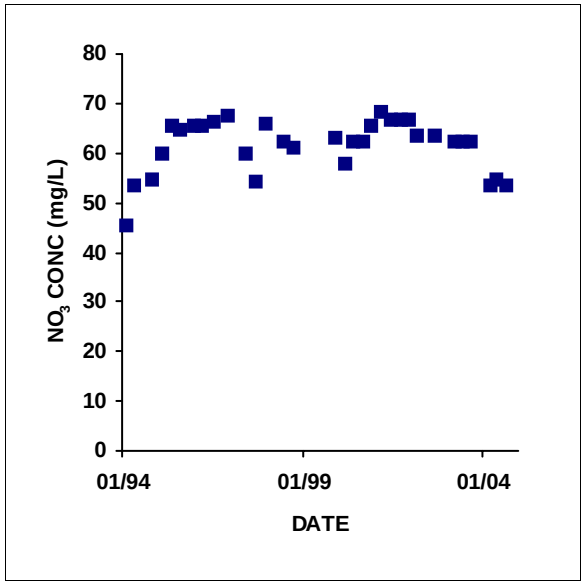
VD-VPB-01

LEGEND

■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS



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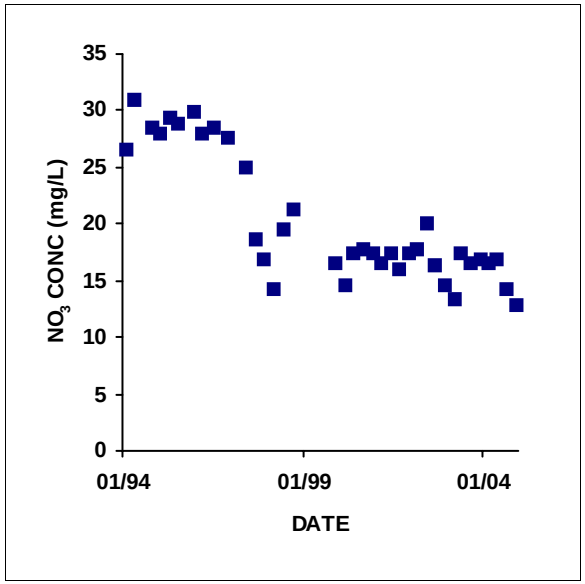

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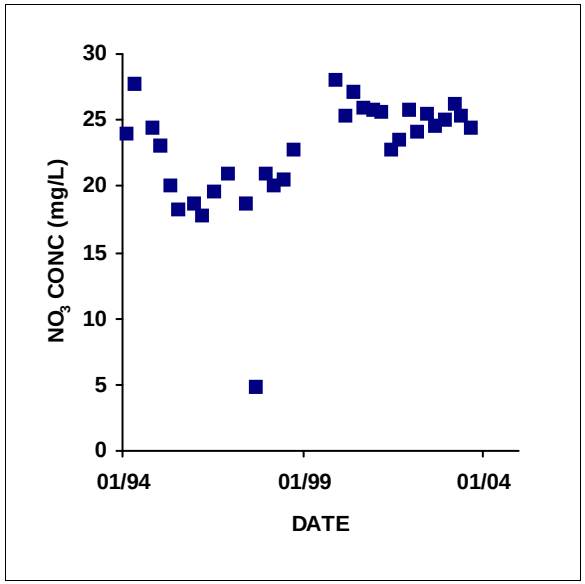

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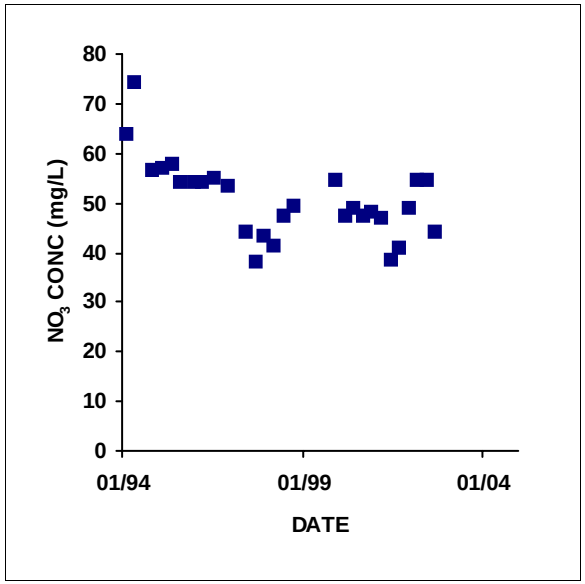

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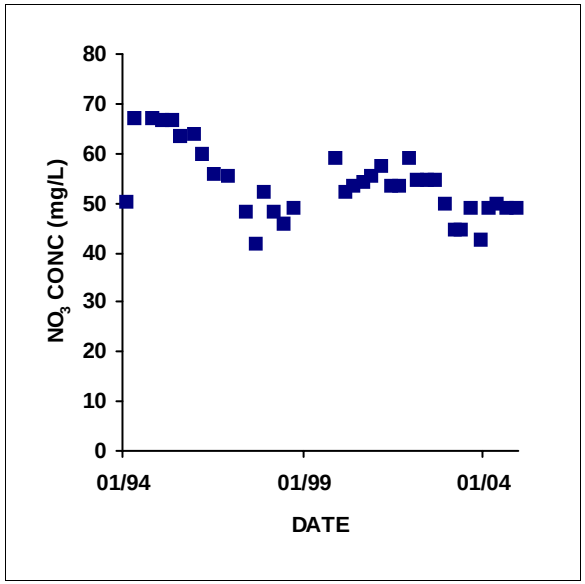

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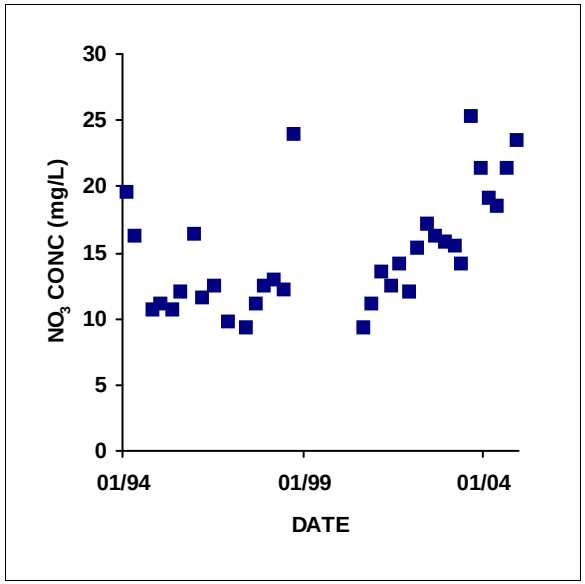

VD-VPB-07

LEGEND

■ **NO_3 Concentration** □ **NO_3 Non-Detection**

Note: Non-Detection results are plotted at the detection limit.

FIGURE 3-4 HISTORICAL CHEMICAL CONCENTRATIONS OF NITRATE FOR RI MONITORING WELLS

SECTION 4.0

References

CH2M HILL. 1991. *Recommended RI Well Monitoring Program, San Fernando Valley Basin.* August.

E2 Consulting Engineers. 1999a. *Revised Sampling and Analysis Plan for San Fernando* Groundwater *Monitoring Program, San Fernando Valley Basin, Burbank, Glendale, North Hollywood and Los Angeles, California*. October.

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