TETRA TECH

P.N. 117-3008059

March 12, 2012

Joseph F. LeMay, P.E.
Office of Site Remediation & Restoration
USEPA Region 1
5 Post Office Square Suite 100
Boston, MA 02109-3912

RE: Assessment of Coordinated Groundwater Remedies Operable Unit One - Northeast Quadrant Wells G&H Superfund Site

Dear. Mr. LeMay:

As indicated in our January 17, 2012 letter, it recently came to our attention that the ground surface and measuring point elevations for groundwater monitoring wells UG8, UG9, UG10, UG11, UG12, UG13, UG14, UG15, UG16, UG17, UG18, UG19, UG20, G37S, G37D, G38S, G38D, G39S and G39D were surveyed relative to the NAVD88 vertical datum rather than the NGVD29 vertical datum, which is the vertical datum for the Site. To correct for this elevation datum error, a correction of adding 0.82 feet to the ground surface and measuring point elevations, as well as all groundwater elevations reported between June 2010 and September 2011 for the nineteen groundwater monitoring wells has been made. The datum correction affected the following portions of the above referenced report:

- Figure ES-3,
- Figures 10, 12, 36, 37, 39 and 40,
- Appendix D Tables D2 and D4, and
- Appendix E.

For affected potentiometric maps/sections, the water levels were changed to reflect the corrected measuring point elevations and the data were re-contoured. For your convenience, we have attached hard copy replacement pages for these portions of the report, as well as an updated pdf version of the entire report. The replacement pages are marked with "Rev. 1 (Jan-12)". Please contact Clayton Smith or Tim Cosgrave if you have any questions.

Sincerely,

Anne B. Sheehan
Senior Hydrogeologist

Enclosures

M:\DOCs\WRGrace\Woburn\2012\Datum Update\NE Quad\L02101040.docx

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December 17, 2010

Joseph LeMay
MA Superfund Section
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Five Post Office Square, Suite 100
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RE: Assessment of Coordinated Groundwater Remedies Operable Unit One - Northeast Quadrant Wells G & H Superfund Site

Dear. Mr. LeMay:

On behalf of UniFirst Corporation (UniFirst) and WR Grace & Co. (Grace), we are submitting the enclosed report: **Assessment of Coordinated Groundwater Remedies Operable Unit One - Northeast Quadrant of Wells G & H Superfund Site** (Report), prepared by Dr. B.H. Kueper and Dr. J. H. Guswa.

The Report has been prepared as a result of EPA comments (both the draft comments in EPA's May 2009 letters and EPA's recommendations in the Third Five-Year Review Report for Wells G&H Superfund Site, September 2009) concerning the coordinated response actions that Grace and UniFirst have implemented to meet the groundwater objectives established in the Consent Decree for their respective properties. The Report summarizes geologic and hydrogeologic conditions in a Conceptual Site Model, demonstrates that groundwater capture by the Grace and UniFirst pumping systems is now and has historically been meeting the objectives of the Record of Decision (ROD), and addresses EPA comments regarding persistent chlorinated volatile organic contamination in groundwater at and in the vicinity of the Grace and UniFirst properties and whether, after nearly two decades of operation and monitoring, it is now feasible to expedite groundwater cleanup to levels specified in the ROD.

Please contact Tim Cosgrave or Clayton Smith if you have any questions or would like to set up a meeting with your team to discuss the contents of the Report.

Sincerely,

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Waltham, MA 02452

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Assessment of Coordinated Groundwater Remedies

Operable Unit One -- Northeast Quadrant

Wells G & H Superfund Site

Woburn, MA

Prepared for:

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UniFirst Corporation
68 Jonspin Road
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Prepared by:

Dr. B.H. Kueper and Dr. J. H. Guswa

Submitted to:

U.S. Environmental Protection Agency
Region I

DECEMBER 17, 2010

Executive Summary

The coordinated groundwater remedies for the UniFirst Corporation (UniFirst) and W. R. Grace & Co.-CONN (Grace) properties have been operating continuously since September 30, 1992. The first groundwater remedies that the United States Environmental Protection Agency (EPA) approved, and that any party implemented at the Wells G&H Superfund Site (the "Wells G&H Site" or the “Site”), the coordinated UniFirst and Grace remedies, were the culmination of five years of investigatory and design work. EPA approved the coordinated groundwater remedies because they represented the most technically feasible and cost effective means to address the groundwater remediation objectives in the Consent Decree entered on October 9, 1991 in *United States v. Wildwood Conservation Corporation et al. (C.A. 91-11807-MA)* (the "Consent Decree"). The effectiveness of these remedies has been demonstrated in the numerous monthly, quarterly, and annual reports that UniFirst and Grace have submitted to EPA documenting the results of groundwater monitoring and sampling conducted over the course of 18 years of remedy operation. The monitoring and sampling reports were submitted as part of the EPA-approved Long Term Monitoring Plan.

This report was prepared as a result of comments received from EPA in 2009 concerning the effectiveness of the coordinated groundwater remedies. Those comments were provided first in draft letters dated May 14, 2009 addressed to each of the performing parties under the Consent Decree. Many of EPA’s comments were repeated, although in less detail, in the Third Five-Year Review Report for Wells G&H Superfund Site, Woburn, Middlesex County, Massachusetts, September 2009 (EPA, 2009a) (the "Third Five-Year Review Report") and in meetings between Grace, UniFirst and EPA.

The Grace and UniFirst properties are two of five Source Area Properties identified in the Consent Decree and the Record of Decision for the Site, signed by EPA on September 14, 1989 (the “ROD”). The properties are located in the Northeast Quadrant of the Site, as shown on Figure ES-1. The Northeast Quadrant was the focus of intensive large-scale hydraulic testing, including a 72-hour pumping test performed on extraction well UC22 in 1988 (the "72-hour pumping test") and a 30-day pilot test in 1991 (the "30-day pilot test"), and other data

collection activities conducted during five years of site characterization and remedial design investigations that culminated in EPA's approval of coordinated groundwater remedies for the Grace and UniFirst Source Area Properties. The remedial design investigation demonstrated that, through the principle of hydraulic superposition, the combined effect of pumping a 190-foot deep bedrock extraction well (UC22) on the UniFirst property and a group of unconsolidated deposits/shallow bedrock extraction (recovery) wells on the Grace property would create a large hydraulic capture zone that extended beyond the Grace and UniFirst properties into the Northeast Quadrant and would prevent further migration of contaminated groundwater from the properties into the Central Area of the Wells G&H Site.

The final design for the coordinated groundwater remedies for the UniFirst and Grace properties was approved by EPA in 1992. The systems were constructed and began operating on September 30, 1992. The UniFirst and Grace extraction and treatment systems have operated continuously since system start-up, except for brief periods of shutdown for system maintenance, modification or repair. The Grace recovery system also has undergone some system design changes such as the EPA-approved shut down and abandonment of six recovery wells (RW1 through RW6) in 2002, and the deepening of RW22 by approximately 50 feet to extend 20 feet into bedrock in 2010. Performance monitoring of the coordinated groundwater remedies also has been continuous since September 30, 1992. Data have been collected and submitted to EPA in accordance with the Long Term Monitoring Plans approved and implemented under the Consent Decree (USDOJ et al., 1991a). As stated in the Scope of Work (USDOJ et al., 1991b) (the "SOW") incorporated into the Consent Decree, the purpose of the data collected and reported annually to EPA under these Plans was to "demonstrate the hydraulic and chemical effectiveness and progress of the groundwater extraction and treatment system[s]." (SOW, P. 9.)

EPA's May 14, 2009 draft letters to UniFirst and Grace (EPA, 2009b; EPA, 2009c) as well as the Third Five-Year Review Report (EPA, 2009a) requested additional assessment of hydraulic capture. Specifically, EPA questioned the effectiveness of capture at the UniFirst and Grace property boundaries, the extent of capture beyond the properties, the rate of cleanup, and

whether there were sufficient data to evaluate these conditions. To address these questions, this report provides a detailed analysis of hydrogeologic conditions and groundwater quality in the vicinity of the UniFirst and Grace properties, and discusses the extraordinary amount of data that have been collected as part of the EPA-approved remedial design investigations and Long Term Monitoring Plans. The data demonstrate that the coordinated groundwater remedies for the UniFirst and Grace properties have successfully created a large hydraulic capture zone that extends well beyond the UniFirst and Grace property boundaries, thereby preventing further migration of contaminated groundwater from the UniFirst and Grace properties to the Central Area of the Wells G&H Site.

Figure ES-2 is a block diagram that schematically illustrates the hydraulic interaction of the coordinated groundwater remedies. The figure illustrates the large capture zone created by extraction well UC22, as well as the shallower hydraulic capture zone of the Grace recovery well system. Figure ES-3, which is based on water level data collected during 2010, illustrates the superimposed hydraulic effect of the coordinated groundwater remedies. These data provide documentation of the continued effectiveness of the UniFirst and Grace recovery systems in meeting the remedial objectives of the ROD.

The extensive capture zone created by pumping from UC22 results from the interconnected fracture network in the bedrock. Bedrock in the study area shown on Figure ES-1 generally consists of Paleozoic age diorite and gabbro with intrusive granites and granodiorites. Extensive state-of-the-practice field work has been conducted to characterize the bedrock. Several boring logs from cored holes within the study area note the presence of slickensides, fracture zones, brecciation, and fault gouge, all of which can be evidence of local scale faulting that is associated with enhanced fracturing. Observations associated with hydraulically active fractures include loss of drill return water; fracture surfaces coated with iron, manganese oxides, and calcite; silt and clay presence in fractures; and weathering of fracture surfaces. Table B2 (Appendix B) demonstrates that there are many hydraulically active fractures in bedrock, with spacing sometimes less than 1 foot. The spacing of the observed fractures is rarely greater than 10 feet. These data and observations demonstrate that the rock mass is

characterized by many fractures at relatively small spacing, as opposed to relatively few fractures separated by large blocks of unfractured rock. This fact, in conjunction with the fact that UC22 has a 175-foot long open interval, promotes a well-connected zone of capture in bedrock.

In addition to the fracture density, the fracture orientations promote a well-connected hydraulically active fracture network in bedrock. Observations in rock cores demonstrate that fracture orientation varies from 0 degrees to 90 degrees from vertical, with no apparent dominant orientation. These observations are consistent with the results of down-hole acoustic televiewer surveys demonstrating a random distribution of fracture strike and dip. The occurrence of high angle fractures (steeply dipping) is characteristic of crystalline rock and implies good connection with unconsolidated deposits and large vertical extent of capture associated with extraction wells located in bedrock.

The appropriateness of a groundwater extraction remedy to achieve remedial objectives in bedrock is supported by the fact that the historical pumping rate and drawdown from extraction well UC22 has successfully created an expansive area of groundwater capture. The ability to extract groundwater and achieve an expansive area of groundwater capture using UC22 is consistent with the overall moderate to high transmissivity of the bedrock, as evidenced by 129 bedrock hydraulic conductivity values that have been calculated on the basis of pumping tests, slug tests, and straddle packer hydraulic testing (Appendix C). Hydraulic aperture values calculated on the basis of hydraulic testing range from a low of 12 microns to a high of 1,103 microns with an average value of 214 microns.

The water level drawdown in bedrock has created a vertical component of groundwater flow in the unconsolidated deposits, as can be seen by comparing water level elevations in the unconsolidated deposits to those in the upper 100 feet of bedrock (Figure ES-3). The unconsolidated deposits in the vicinity of the UniFirst and Grace properties consist of outwash and till deposits. A total of 173 estimates of unconsolidated deposits hydraulic conductivity, at a variety of scales, have been obtained by UniFirst and Grace as summarized in Appendix A of

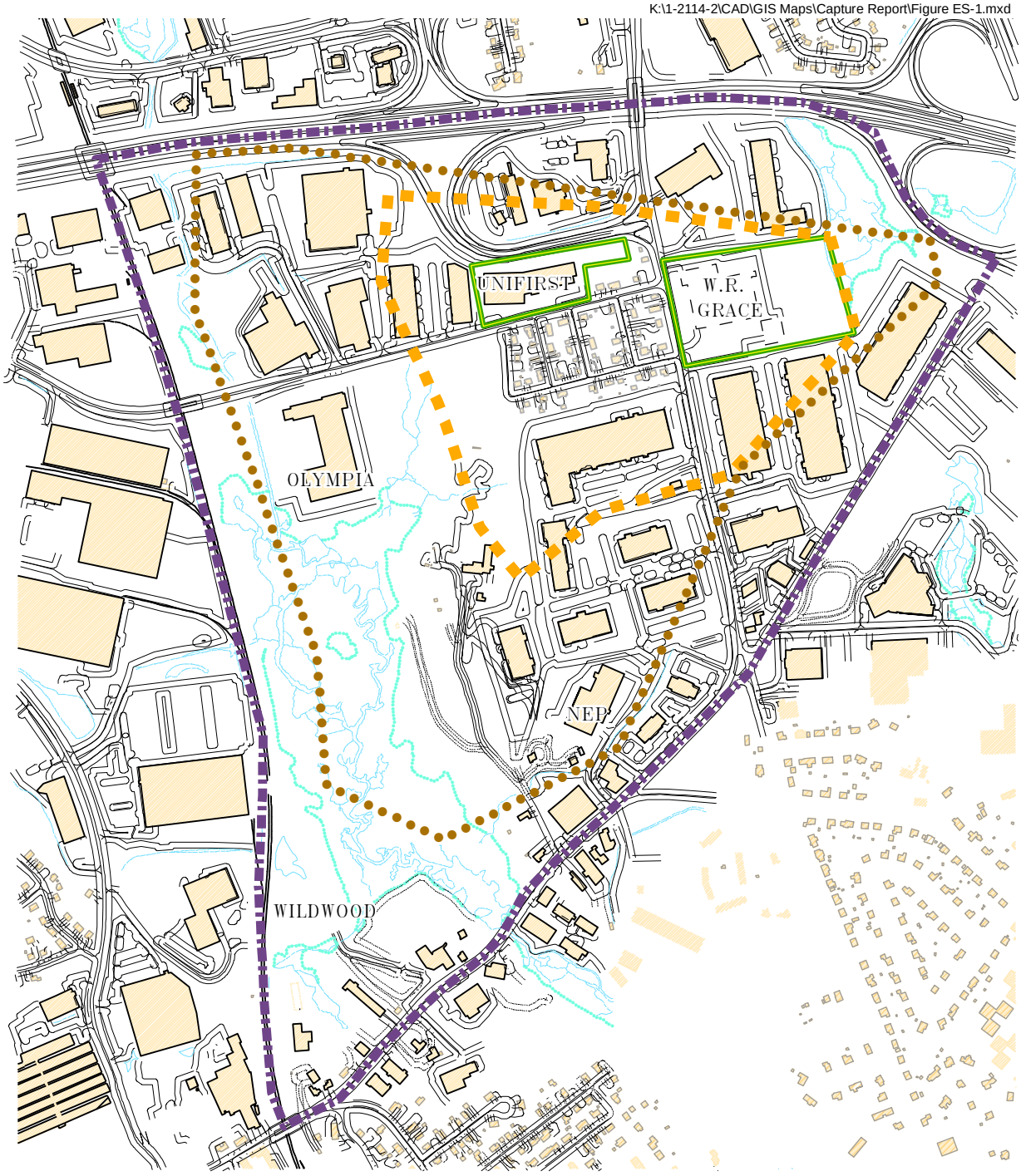
this report. Since operation of the coordinated groundwater remedies began, certain areas of the unconsolidated deposits on both the UniFirst and Grace properties have become de-saturated, and the water table has been lowered below the bedrock surface in those areas.

The area of capture associated with the Grace pumping system is estimated to be approximately one million square feet. This represents an area approximately 2.3 times as large as the Grace property footprint. The area of capture associated with the UniFirst pumping system is estimated to be 5.5 million square feet. This represents an area approximately 43 times as large as the UniFirst property footprint. The Grace pumping system has extracted a total of 66.5 million gallons of groundwater and 84.5 pounds of volatile organic compounds (VOCs) between September 30, 1992 and September 30, 2010. During the same time period, the UniFirst pumping system has extracted a total of 378 million gallons of groundwater and in excess of 2210 pounds of VOCs.

Additional lines of evidence that further substantiate the effective capture zone created by the UniFirst and Grace coordinated groundwater remedies are provided by the extensive water quality database accumulated over the 18 years of remedies operation. The water quality data demonstrate substantial reductions in contaminant concentrations in most off-property monitoring wells. In many cases contaminant concentrations in the off-property wells have declined from greater that 1000 µg/L to less than the cleanup levels specified in the ROD.

The analysis provided in this report, which is consistent with the approach suggested in the EPA document entitled “A Systematic Approach for Evaluation of Capture Zones at Pump and Treat Systems” (EPA, 2008), supports the conclusion that the coordinated groundwater remedies for the UniFirst and Grace properties have successfully created a large hydraulic capture zone that extends well beyond the boundaries of those properties, and have successfully prevented further migration of contaminated groundwater from the UniFirst and Grace properties to the Central Area of the Wells G&H Site

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure ES-1.mxd



Legend

- Grace and UniFirst Source Area Properties
- Northeast Quadrant
- Study Area
- Wells G & H Site
- Building
- Building
- Building-Grace- Demolished
- Building- Residential, Dewey
- Road
- Railway
- Stream
- Wetland

N

800 400 0 800

Feet

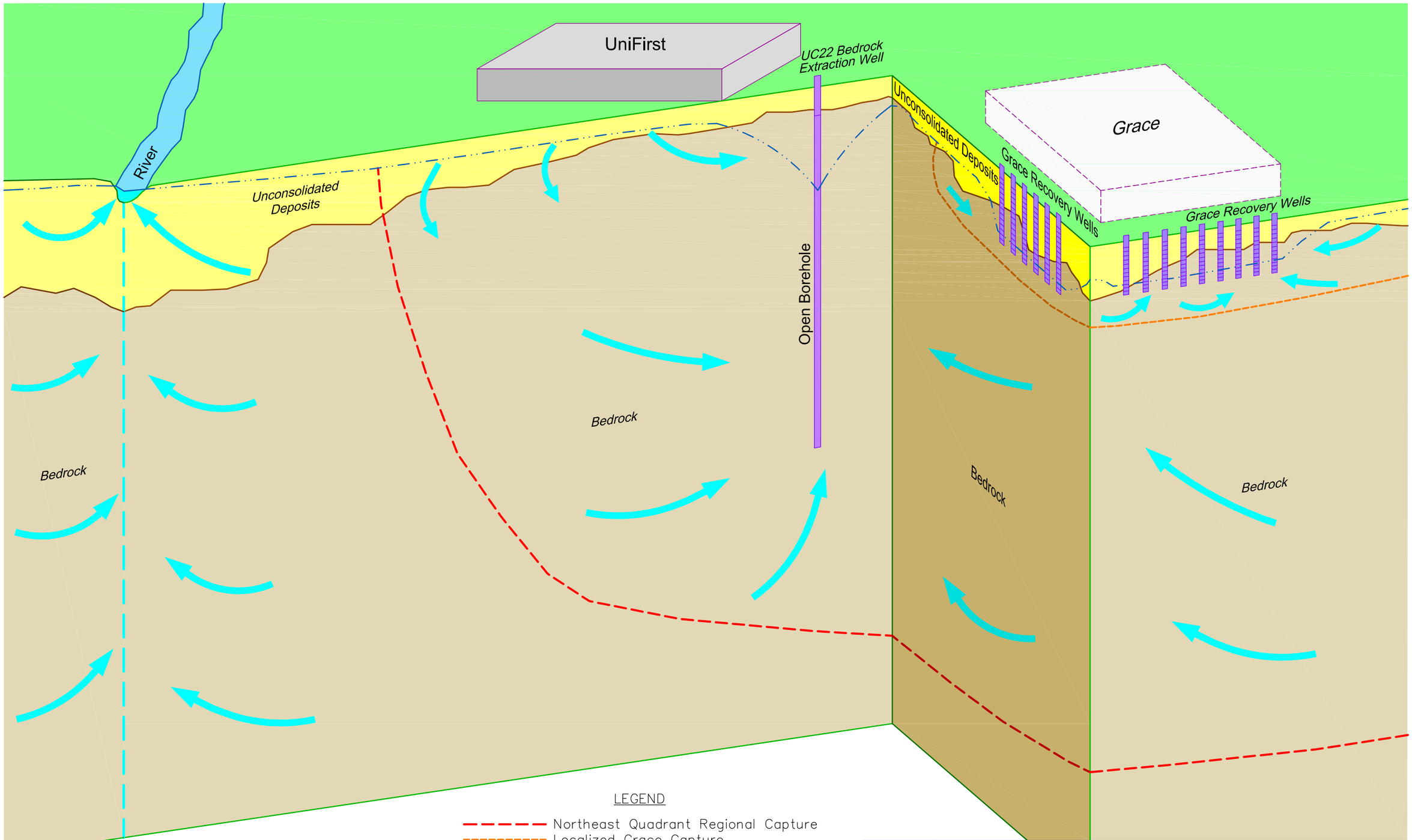
Source:
Project Control Companies, 1991 *Remedial Design for the Northeast Quadrant* Plate 1.

FIGURE ES-1 - NORTHEAST QUADRANT AREA DEFINITION
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: RTK Date: 10/25/10
Chk'd by: MBM Date: 10/25/10
Scale: 1" = 800' Project: 1-2114-2

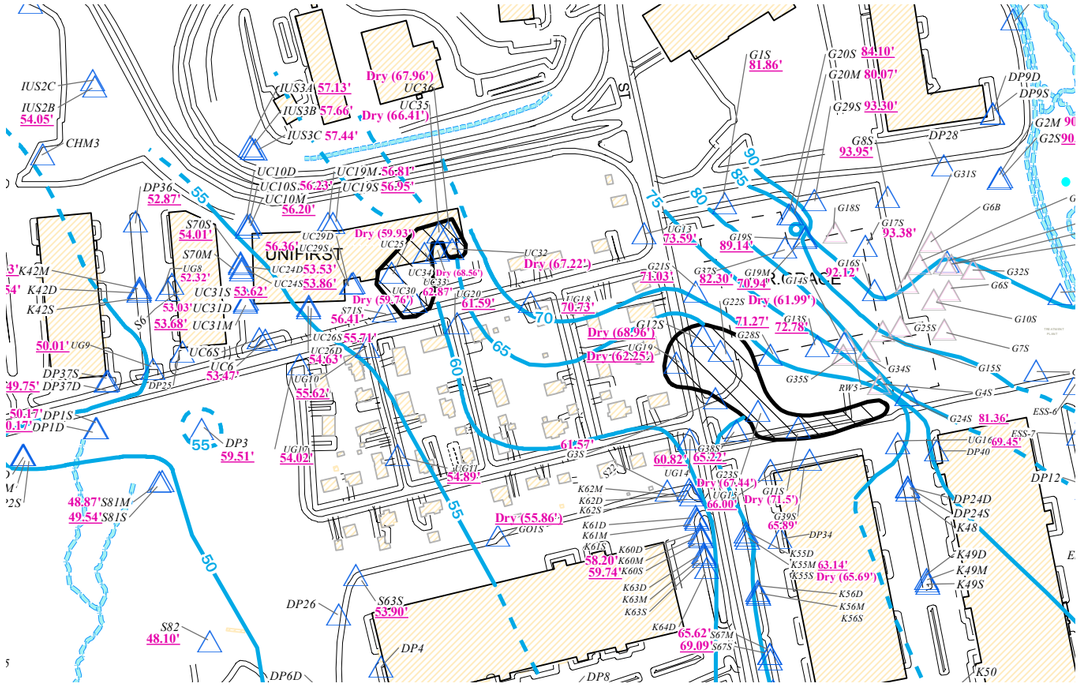


K:\1-2114-2\cad\CMODEL.dwg

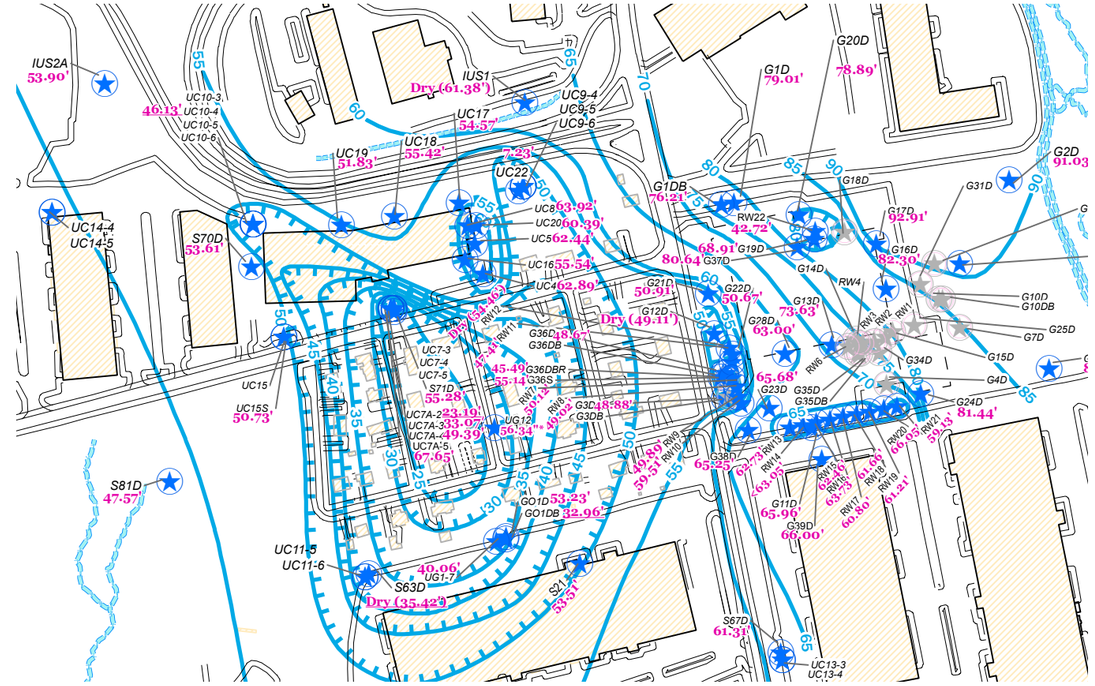
The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: TJK	Date: 11/30/10
Chk'd by: MBM	Date: 11/30/10
Scale: None	Project: 1-2114-2

FIGURE ES-2 - CONCEPTUAL SITE MODEL OF GROUNDWATER CAPTURE IN THE NORTHEAST QUADRANT WELLS G & H SITE, WOBURN, MASSACHUSETTS

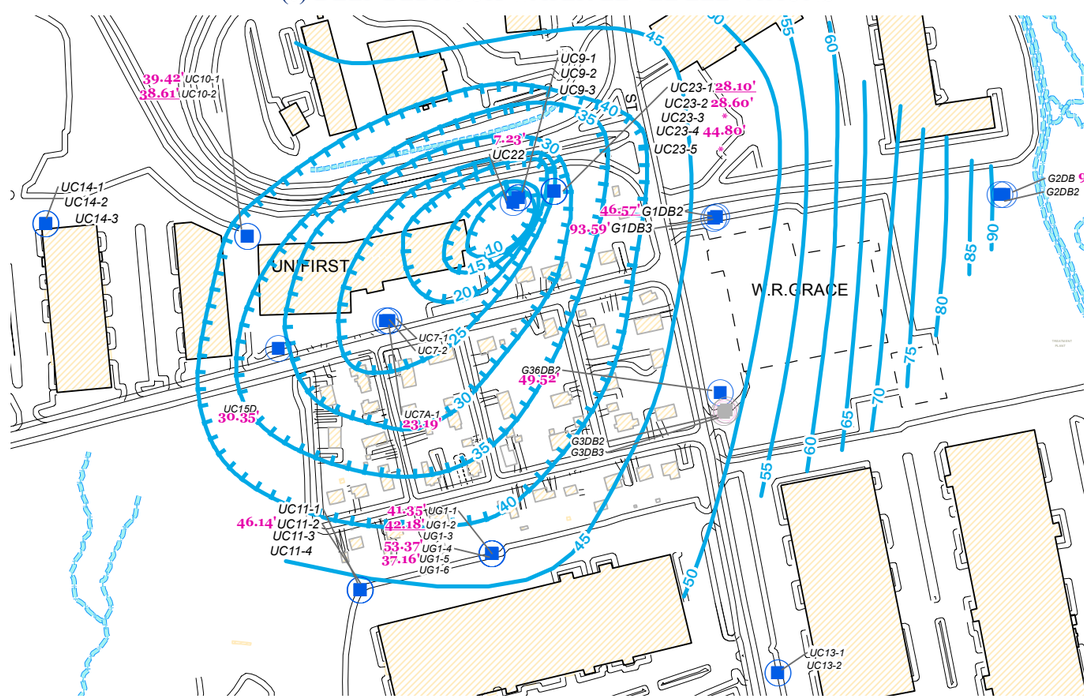


(a) UNCONSOLIDATED DEPOSITS WATER LEVEL ELEVATIONS



(b) UPPER 100 FEET OF BEDROCK WATER LEVEL ELEVATIONS

(c) DEEP BEDROCK WATER LEVEL ELEVATIONS



0 125 250 500

Scale in Feet

Rev. 1 (Jan-12)

Figure ES-3 - September 2010
Water Level Elevation Maps
Wells G & H Site
Woburn, Massachusetts

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 12/14/10
Reviewed by: MBM Date: 12/16/10

Scale: As Shown Project: 1-2114-2

C:\DATA\JohnsonGIS\ES3Fig\Capture Report Figure ES-3Test2.mxd

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1.0 – Introduction

1.1 – Background

The Wells G & H Superfund Site (the "Site") is a 330-acre area located in Woburn, Massachusetts. The Site includes the aquifer and land surrounding two former municipal drinking water wells known as Wells G and H, which are located adjacent to the Aberjona River. The wells were taken out of service by the City of Woburn in 1979, and they have not been used for water supply since then. Pumps were removed from the wells and the pump houses demolished sometime after completion of the 1985/1986 United States Geological Survey (USGS) pumping test. The boundaries of the Site are Route 128 (Interstate 95) to the north, Route 93 to the east, the Boston and Maine Railroad tracks to the west, and Salem and Cedar Streets to the south. The geographic boundaries of the Site are shown on Figure ES-1.

The Site is divided into three operable units (OUs): (1) five parcels referred to as the "Source Area properties" (OU-1); (2) the Central Area (OU-2); and (3) the Aberjona River Study (OU-3). The U.S. Environmental Protection Agency (EPA) has issued separate Records of Decision (ROD) in which it identified remedies selected for each of OU-1 (EPA, 1989) and OU-3 (EPA, 2006). As indicated in the OU-3 ROD, the Aberjona River, its sediments and adjacent wetland deposits (OU-3) are to be investigated and remediated as part of the Industri-Plex Superfund Site.

This report focuses on remedial actions that W.R. Grace & Company – Conn. (Grace) and UniFirst Corporation (UniFirst) have instituted under the Consent Decree entered by the court on October 9, 1991 in *United States v. Wildwood Conservation Corporation et al. (C.A. 91-11807-MA)* (USDOJ et al., 1991a) with respect to two of the five OU-1 Source Area properties. Those properties, known as the Grace and UniFirst Source Area properties, are located in the Northeast Quadrant of the Site (the "Northeast Quadrant"). The Northeast Quadrant is an area of approximately 70 acres located on the east side of the Aberjona River valley, extending to the south and west of the Grace and UniFirst properties. The approximate boundaries of the Northeast Quadrant are illustrated on Figure ES-1. More specifically, this report evaluates the coordinated response actions that Grace and UniFirst have implemented

in the Northeast Quadrant to meet the remedial objectives for groundwater at the Grace and UniFirst Source Area properties.

The September 14, 1989 ROD for the Source Area properties (OU-1) established the following remedial objectives for groundwater:

- Prevent further migration of contaminated groundwater from the Source Area properties to the Central Area;
- Limit the further migration of contaminated groundwater off-site from the Source Area properties;
- Restore groundwater in the saturated bedrock and unconsolidated deposits in the vicinity of the Source Area properties to drinking water quality; and
- Prevent public contact with contaminated groundwater above the cleanup levels.

(ROD, p. 30; SOW, p. 5).

To meet these objectives, the ROD concluded that groundwater extraction and treatment systems should be implemented at each Source Area property (ROD at 33). In the ROD, EPA acknowledged that, due to the presence of separate-phase chlorinated volatile organic compounds (VOCs) in bedrock (i.e., dense non-aqueous phase liquid, or DNAPL) at the Site, the groundwater remedy selected for OU-1 was expected to continue beyond 30 years (ROD at 18). EPA also acknowledged, "While the source areas will be pumped with the objective of achieving MCLs there is some uncertainty how effective the bedrock remediation will be. Therefore, some residual bedrock contamination may remain after the remediation period." (ROD at 38). EPA's April 25, 1991 Explanation of Significant Difference (ESD) provided for certain changes to the OU-1 groundwater remedy, including that groundwater extraction systems could be combined for the Grace and UniFirst Source Area properties, but the overall remedy remained fundamentally the same: extraction and treatment of groundwater at the Source Area properties (Third Five-Year Review Report for Wells G & H Superfund Site, Woburn, Middlesex

County, Massachusetts, September 2009 (EPA, 2009a)). By approving the design for a coordinated groundwater extraction system for the UniFirst and Grace properties, EPA anticipated that some contaminated groundwater in the bedrock beneath the Grace property could flow from the Grace property to the UniFirst extraction well, UC22.

Grace and UniFirst obtained EPA's approval to design and implement coordinated remedial actions to meet the groundwater objectives for their respective properties. Grace and UniFirst have been operating groundwater extraction and treatment systems on their properties since September 30, 1992. They were the first two parties to institute groundwater remedial actions at the Site. Details concerning the design, operation, and monitoring history for the systems are provided in the eighteen annual reports that Grace and UniFirst each have submitted to EPA. A summary description of the Grace and UniFirst extraction and treatment systems is provided in Section 3.2 of this report.

EPA has conducted three five-year reviews of remedial actions instituted to date at the Site. Prior to completing its third such review, EPA issued draft letters dated May 14, 2009 to each of the performing parties under the Consent Decree soliciting comments on a variety of issues. Many of those issues were referenced, although in less detail, in the Third Five-Year Review Report (EPA, 2009a).

Grace and UniFirst have been working cooperatively with EPA to address the issues raised in its third five-year review report. Grace and UniFirst have submitted and are carrying out workplans to conduct additional groundwater sampling in the Northeast Quadrant, and to conduct sub-slab soil vapor and indoor air sampling on the UniFirst property and in specific areas near each of the two properties. On a separate but related track, Grace and UniFirst also agreed to submit this report as a result of EPA comments in the Third Five-Year Review Report with regard to performance of the previously approved coordinated groundwater remedies operating on the Grace and UniFirst properties (US EPA, 2009a, Table 6, p. 61).

1.2 – Purpose of Report

This report has been prepared as a result of EPA comments concerning the coordinated response actions that Grace and UniFirst have implemented to meet the groundwater objectives established in the Consent Decree for their respective properties. Specifically, this report summarizes fundamental Site geologic and hydrogeologic conditions in a Conceptual Site Model (CSM), demonstrates that groundwater capture by the Grace and UniFirst pumping systems is now and has historically been meeting the objectives of the ROD, and addresses EPA comments regarding persistent VOC contamination in groundwater at and in the vicinity of the two Source Area properties and whether, after nearly two decades of operation and monitoring, it now appears feasible to expedite groundwater cleanup to drinking water quality.

The methodology adopted in this report follows EPA (2008) guidance for evaluation of capture zones at pump and treat systems. Specifically, the following has been performed:

- All available site characterization, water level elevation, water quality, and system performance data have been reviewed and considered;
- A CSM is presented that includes consideration of unconsolidated deposits heterogeneity, the hydraulic connection between unconsolidated deposits and bedrock, and groundwater flow in the interconnected discrete fracture network present in bedrock;
- The remedy objectives and site-specific target capture zone have been defined;
- Water level data have been interpreted, including the preparation of contoured water level elevation maps for unconsolidated deposits, upper 100 feet of bedrock, and deep bedrock and contoured water level cross sections;
- Calculations have been performed to estimate the size of the capture zone;
- Water quality concentration versus time trends for both unconsolidated deposits and bedrock monitoring wells have been evaluated;
- 18 years of extraction system performance data have been evaluated; and

- Converging lines of evidence have been used to assess the spatial extent of capture, which is compared to the remedial objectives for groundwater.

The UniFirst and Grace groundwater extraction systems are, in concert, meeting the capture objectives established in the ROD and the EPA-approved Remedial Design Investigation Report and Final Design (RDIRFD) (EPC, 1991) for the two properties and have significantly reduced contaminant concentrations in groundwater at and in the vicinity of the two Source Area properties. The pace of groundwater cleanup has been consistent with that predicted in the ROD and measured at other sites where DNAPL has been identified in crystalline bedrock. It is well recognized that the clean-up of fractured bedrock is technically challenging and that pump-and-treat is typically the most effective remedial technology in that it provides a continuous depletion of contaminant mass with time and prevents further plume expansion (EPA, 2003b; EPA, 1993; NRC, 1994).

1.3 – Report Organization

Section 1 of this report provides an introduction including a brief summary of administrative context and a statement of the purpose of this report. Section 2 presents the CSM including discussions of regional setting and land use, site use/site history for the UniFirst and Grace properties, unconsolidated deposits and bedrock geology, the hydrogeology of unconsolidated deposits and bedrock, and VOC distributions in unconsolidated deposits and bedrock. Water quality evaluations focus on tetrachloroethylene (PCE) and trichloroethylene (TCE), which are the primary constituents of concern within the Northeast Quadrant groundwater. Section 3 of this report provides an assessment of capture associated with the UniFirst and Grace extraction systems. This assessment includes a statement of the remedy objectives, a description of system design and performance data, an evaluation of water level elevation data, and an evaluation of contaminant distributions in groundwater including the presentation of maps and concentration versus time plots for individual monitoring wells. The water level and water quality data are discussed in terms of unconsolidated deposits, the upper 100 feet of bedrock,

and deep bedrock (bedrock deeper than 100 feet below the top of bedrock). Data are considered for three primary time periods: prior to September 30, 1992 when operation of the extraction systems commenced; from October 1, 1992 through December 31, 2009; and 2010. These time periods were selected because they provide an assessment of groundwater data (i) prior to start-up of the UniFirst/Grace extraction systems (i.e., prior to September 30, 1992), (ii) during an 18 year period in which a variety of wells were sampled at different times and frequencies, and (iii) most recently measured conditions (i.e., 2010). Section 4 provides a discussion of feasible remediation goals for fractured bedrock sites, and Section 5 provides conclusions regarding the assessment of the coordinated groundwater remedies.

Several appendices have been included to summarize unconsolidated deposits hydraulic conductivity values (Appendix A), bedrock boring log observations and a Schmidt net summarizing the results of acoustic televiewer data (Appendix B), bedrock hydraulic conductivity and water level versus time plots for observation wells associated with the UC22 72-hour pumping test and the 30-day pilot test (Appendix C), unconsolidated deposits and bedrock water level data (Appendix D), well construction details (Appendix E), and VOC concentration data as well as PCE and TCE concentration versus time plots for unconsolidated deposits and bedrock monitoring wells (Appendix F).

2.0 – Conceptual Site Model

The Conceptual Site Model (CSM) makes use of figures, text and charts to describe geologic conditions, hydrogeologic conditions, groundwater chemistry, and solute transport processes. Characterization activities within the Northeast Quadrant have been ongoing since 1981. The CSM relies upon all available data that have been collected to date and makes frequent use of data summaries and citations to past investigations. The CSM provides a basis for assessing groundwater capture associated with the extraction systems operating at the UniFirst and Grace properties.

2.1 – Regional Setting and Land Use

The Northeast Quadrant is a portion of the Wells G & H Site, which covers approximately 330 acres in east Woburn, Middlesex County, Massachusetts. The Site, named for former wells G and H that were used for water supply by the City of Woburn between 1964 (Well G)/1967 (Well H) and 1979, extends from Interstate 95 (Route 128) to the north, Interstate 93 to the east, the Boston and Maine Railroad to the west, and Salem and Cedar Streets to the South. Wells G and H were located in the sand and gravel aquifer of the Aberjona River basin within the Mystic River watershed. Land use within the Site has included a mixture of light industry, commercial office space, industrial parks, agricultural, residential and recreational. Figure ES-1 shows the boundaries of the Northeast Quadrant and the Site, and Figure 1 illustrates the location of buildings, streets, surface drainage features, monitoring wells and extraction wells within the Site.

The Northeast Quadrant is located on the east side of the Aberjona River which flows from north to south near the Boston and Maine Railroad at the west side of the Site. The Aberjona River is very narrow near its intersection with Olympia Avenue and has wider wetland borders as it approaches Salem Street. The ground surface elevation decrease from the top of the valley along Washington Street near Interstate 95 south-westward to the Aberjona River at Salem Street is approximately 75 feet (Figure 2). Precipitation in the area averages approximately 42

inches per year (www.erh.noaa.gov/box/climate/pcpnbos.html). Surface water drainage in the Northeast Quadrant of the Site is generally west/southwest down the valley slope toward the Aberjona River.

2.1.1 – UniFirst

UniFirst Corporation is a uniform rental and cleaning service that began operations at 15 Olympia Avenue in 1965. The UniFirst property is approximately 3 acres in area and was undeveloped prior to 1965. Building A was constructed in November 1965, Building B was constructed in 1966 and Building C was constructed in 1978. In the late 1970s, the loading dock at the east end of the property was upgraded and enclosed. The current single story building encloses approximately 57,000 square feet (ft^2). All portions of the current building are slab-on-grade construction with concrete block walls. Since 1989, most of the building has been leased to Extra Space Storage, formerly known as Woburn Storage Depot. The leased space has been converted into storage units that are subleased individually to customers, and a small administration office located in the south central area of the building.

PCE was stored in the UniFirst building between 1966 and 1968, and between 1977 and 1982. Approximately five to six 55-gallon drums of PCE were utilized each year during the 1966 to 1968 time period. PCE was stored in a 5,000 gallon above ground tank during the 1977 to 1982 time period, immediately following which the tank was removed. The tank was located inside the eastern portion of the building and was filled via a pipe extending to the outside of the building.

The majority of the UniFirst property slopes gently to the west with approximately 10 feet of topographic relief from the eastern end of the building (elevation 80 feet National Geodetic Vertical Datum (NGVD)) to the western end of the building (elevation 70 feet NGVD). Steeper ground surface slopes occur locally in the northeastern portion of the property (Figure 2). Most

of the property is currently covered by asphalt and the storage building. Surface drainage is to storm drains located on the western portion of the property.

Investigations on the property related to soil and groundwater began in 1983 and have continued through to present. Investigations on the UniFirst property have included soil boring drilling, bedrock coring, monitoring well installation, test pit excavation, soil and groundwater sample collection and analysis, hydraulic testing, soil vapor testing, and construction of a groundwater extraction and treatment system. The groundwater remedy for the UniFirst property has operated continuously since September 1992. Construction activities included the installation of a 190-foot deep bedrock recovery well (UC22) and associated underground utilities, construction of a treatment plant in the eastern end of the building, and installation of treatment and control equipment.

2.1.2 – Grace

The Grace property is located in the northeast corner of the Site. The property is approximately 12.4 acres in area. The eastern 2.3 acres are wetlands that drain to Snyder Creek, which flows in a southerly direction and joins the Aberjona River south of Salem Street. The western 10.1 acres, which represent the formerly developed portion of the property, are gently sloping in a south-westerly direction. Land surface elevation ranges from approximately elevation 100 feet NGVD to 90 feet NGVD (Figure 2). Surface drainage of the property is primarily controlled by man-made structures. Two east-west oriented former agricultural drainage ditches collect surface drainage from the eastern portion of the property and direct it easterly toward the wetlands. The south drainage ditch, which was initially located adjacent to the southeastern edge of the former manufacturing buildings extends to Snyder Creek. A drainage ditch was also located along the northern property boundary. The north drainage ditch was replaced with a storm drain sometime during property development. Surface drainage from the western portion of the property is collected by storm drains located in the former parking lot near the southern property boundary and along the eastern side of Washington Street.

Prior to being developed in 1960 by Grace for manufacturing, the property was used for agricultural purposes. The property was developed by Grace in four phases. In 1960, a 50,000 ft^2 manufacturing building was constructed in the western portion of the property. A 22,000 ft^2 addition was added in 1966, and a 12,100 ft^2 warehouse was built in 1970. In 1974, a 14,300 ft^2 addition was added to the manufacturing building. Grace manufactured food packaging equipment in the manufacturing building from 1960 to 1987. Between 1960 and 1976 TCE was used to degrease and clean parts prior to painting and assembly. After manufacturing stopped in 1987, the buildings were used for storage. The manufacturing building and warehouse were demolished, in anticipation of property redevelopment, in 2006.

On-property investigations related to soil and groundwater began in 1983 and have continued through to present. Investigations included soil boring drilling, bedrock coring, monitoring well installation, test pit excavation, soil and groundwater sample collection and analysis, surface and borehole geophysical surveying, hydraulic testing, testing of sewer and storm drainage lines, and pilot testing of a groundwater extraction and treatment system. The groundwater extraction and treatment system on the Grace property was constructed in 1992 and has operated continuously since September 1992. Construction activities included the installation of recovery wells and underground utilities, construction of a 920 ft^2 treatment plant building in the southeastern corner of the property, and installation of treatment and control equipment. The treatment plant building is now the only building remaining on the property.

2.2 – Geology

2.2.1 – Unconsolidated Deposits Geology

Unconsolidated deposits within the Site area are the result of Pleistocene glaciations and can be divided into till, outwash and recent swamp deposits. Till deposits consist of either lodgement till lying directly on bedrock, or ablation till situated above the lodgement till. The lodgement till generally consists of a mixture of sand, silt, clay, gravel, cobbles and boulders and is typically very dense as a result of the pressure exerted by the weight of the overlying glacier.

The lodgement till is generally encountered in the upland areas of the bedrock valley. The ablation till, released from the glacier as it melted, is typically more sandy and less dense than the lodgement till.

Outwash deposits, deposited from meltwater streams, are most pronounced in the central portion of the Site. The outwash deposits consist of inter-bedded sand, gravel, cobbles and silt. Discontinuous swamp deposits (peat) exist in the immediate vicinity of the Aberjona River. The peat layers generally vary in thickness from 2 feet to 7 feet, but have been observed to be up to 26 feet thick at well S89. Unconsolidated deposits thickness within the study area varies from 0 feet where bedrock outcrops to over 100 feet at various locations along the axis of the glacially formed bedrock valley. Figure 3 presents unconsolidated deposits thickness measurements for the Site, illustrating that unconsolidated deposits thickness is spatially variable, but is generally thinnest on the flanks of the bedrock valley and generally thickest in the vicinity of the Aberjona River.

Unconsolidated deposits thickness at the UniFirst property varies from approximately 4 feet at the eastern end of the onsite building to 77 feet near the western end of the building. The increase in unconsolidated deposits thickness to the west beneath the UniFirst property is the result of the sloping nature of the bedrock surface along the eastern portion of the bedrock valley. Fill on the UniFirst property is generally described as a tan to brown sand and gravel with a minor silt-sized fraction. The contact of the fill with the underlying till is difficult to distinguish, likely because much of the fill was derived from similar deposits on the property. Ablation till is present beneath the eastern portion of the building, and consists of a poorly-sorted mixture of silt, sand, and gravel with boulders. Approximately 1.5 feet of lodgement till has been observed beneath the ablation till and above the bedrock at some locations; however, it is not consistently present across the property. The lodgement till beneath the UniFirst property is dense and has a coarse to fine sand and gravel grain size distribution with little silt.

Unconsolidated deposits thickness at the Grace property varies from 19 feet along the southern boundary of the property to 63.5 feet in the northern portion of the property (Figure 3). Unconsolidated deposits generally consist of ablation till overlying lodgement till. The ablation till is generally dense fine to coarse sand with gravel and silt. The lodgement till is very dense silty fine to coarse sand, with clay, gravel, cobbles and boulders. The ablation till ranges from 0 to approximately 20 feet in thickness, with the thickest deposits beneath the southern portion of the Grace property. The lodgement till ranges from approximately 20 feet thick beneath the southern portion of the property to approximately 60 feet thick in the area of recovery well RW22.

2.2.2 – Unconsolidated Deposits Hydraulic Conductivity

The hydraulic conductivity of unconsolidated deposits at the Site is spatially variable with generally high values associated with the outwash deposits and low values associated with the till deposits. The largest-scale measurement of unconsolidated deposits hydraulic conductivity is associated with a pumping test performed using Wells G and H. The USGS performed a 30-day constant rate pumping test using unconsolidated deposits Wells G and H from December 4, 1985 to January 3, 1986 (USGS, 1987). Wells G and H were pumped at 700 gallons per minute (gpm) and 400 gpm, respectively, and water level monitoring was carried out in 127 wells at 72 locations as well as in 10 stream bed piezometers. Stream flow was also measured throughout the test at five temporary gauging stations. The area of influence, defined as exhibiting greater than 1 foot of drawdown, extended from approximately 1100 feet north of Well H to 1200 feet south of Well G (approximately 3000 feet long) and was approximately 1700 feet wide at the midpoint between Wells G and H. No measureable effects of pumping were observed beyond 500 feet east of Wells G and H. The calculated hydraulic conductivity of the outwash deposits varied from 4.41E-02 centimeters per second (cm/s) to 1.24E-01 cm/s in the vicinity of Well G, and from 4.59E-02 cm/s to 7.59E-02 cm/s in the vicinity of Well H. These values of hydraulic conductivity are equivalent to those for a medium to coarse sand. Calculated storativity varied from 0.16 to 0.20. Drawdown was observed in bedrock during the

USGS pumping test, indicating that the unconsolidated deposits and bedrock are hydraulically connected.

ENSR (1994) provided laboratory-scale hydraulic conductivity values measured on unconsolidated deposits samples obtained from the UniFirst property. These hydraulic conductivity values, along with measured fraction organic carbon, are presented in Table A1 (Appendix A). The hydraulic conductivity values range from a low of 2.08E-05 cm/s to a high of 4.11E-04 cm/s. The values are reflective of fine-grained till deposits. The fraction organic carbon values are generally low, indicating that sorption of VOCs is likely low to moderate.

GeoTrans and RETEC (1994) provide a summary of unconsolidated deposits hydraulic conductivity values derived from a variety of methods including rising-head slug tests, falling-head slug tests, pumping tests, and grain-size distribution measurements. These hydraulic conductivity values are presented in Table A2 (Appendix A). The hydraulic conductivity values range from a low of 1.0E-07 cm/s to a high of 1.0E-01 cm/s. The wide range of values reflects the variability of unconsolidated deposits geology, with the highest values generally reflective of coarse-grained outwash deposits.

Appendix A includes a total of 173 estimates of unconsolidated deposits hydraulic conductivity. In conjunction with the four values provided by the USGS pumping test using Wells G and H, this data set includes a total of 177 estimates of unconsolidated deposits hydraulic conductivity at a variety of scales.

2.2.3 – Bedrock Geology

Bedrock beneath the study area generally consists of Paleozoic age diorite and gabbro with intrusive granites and granodiorites. Diorite is an igneous (crystalline) rock typically containing plagioclase, biotite, hornblende and/or pyroxene minerals. Gabbro is an igneous rock typically containing pyroxene, plagioclase, amphibole and olivine minerals. The bedrock beneath the study area has been mapped as consisting of both the Salem Gabbrodiorite (bluish grey in colour) and the Dedham Granodiorite (greyish pink in colour). The Salem Gabbrodiorite is

typically found under the deeper unconsolidated deposits of the Aberjona River valley floor while the Dedham Granodiorite is typically found at higher elevations within the valley.

Bedrock in the area of the Site was scoured during Pleistocene glaciations to form a bedrock valley. The bedrock valley is deepest beneath the Aberjona River where the bedrock elevation is deeper than -100 feet NGVD. The highest bedrock elevations are northwest of the intersection of Washington Street and Route 128, where the bedrock elevation is greater than +150 feet NGVD. Figure 4 presents a top of bedrock elevation map demonstrating that the bedrock valley generally trends north-south beneath the Site. The deepest part of the bedrock valley occurs in the southern half of the Site, west of the New England Plastics property. The variability in the top of bedrock elevation throughout the Site stems from differential amounts of scouring during glaciations.

Bedrock elevation beneath the UniFirst property varies from a high of approximately 70 feet NGVD on the eastern end of the property to a low of approximately 0 feet NGVD on the western end of the property. The bedrock surface beneath the UniFirst property slopes to the west at a greater rate than does the ground surface, resulting in a westward thickening wedge of unconsolidated deposits beneath the property. Bedrock elevation beneath the Grace property, as determined prior to the most recent redevelopment activities there, varies from a high of approximately 77 feet NGVD to a low of approximately 33 feet NGVD. The bedrock surface at the Grace property exhibits its lowest elevation in the north-central portion of the property with rising slopes to the north, east, south and west.

Bedrock borings that were cored, as opposed to being drilled without sampling, provide observations of features such as evidence of faulting and fractures in the obtained core. Several boring logs from cored holes within the Northeast Quadrant cite the presence of slickensides, fracture zones, brecciation and fault gouge, all of which can be evidence of local scale faulting. Examples of such observations are summarized in Table B1 (Appendix B). Table B1 demonstrates that there are numerous depths within several borings where evidence of faulting, associated with enhanced fracturing, has been observed.

Bedrock boring logs from the Site typically report the presence of numerous fractures including evidence of hydraulically active fractures that can be distinguished from mechanical breakage of the core. Observations associated with hydraulically active fractures include loss of drill return water; fracture surfaces coated with iron, manganese oxides, and calcite; silt and clay presence in fractures; and weathering of fracture surfaces. Examples of such observations are summarized in Table B2 (Appendix B). Table B2 demonstrates that there are many hydraulically active fractures in bedrock, with spacing as little as less than 1 foot. The spacing of the observations is rarely greater than 10 feet. This demonstrates that the rock mass is characterized by many fractures at relatively small spacing, as opposed to relatively few fractures separated by large blocks of unfractured rock.

Bedrock boring logs from the study area report a variety of fracture dips as summarized in Table B3 (Appendix B). Table B3 demonstrates that fracture orientation varies from 0 degrees to 90 degrees from vertical, with no apparent dominant orientation. The occurrence of high angle fractures (steeply dipping) is characteristic of crystalline rock and implies good connection with unconsolidated deposits and good vertical extent of capture associated with extraction wells located in bedrock. As discussed by Hansen et al. (1999), 'high-angle fractures provide vertical pathways for groundwater to enter the bedrock, interconnections between low-angle fractures, and, subsequently, pathways for water flow within the bedrock along fracture planes.'

The relatively random and widespread nature of fracture dips is supported by down-hole acoustic televiewer (ATV) results presented by COLOG (undated report). A Schmidt net summarizing fracture strike and dip based on ATV results is presented in Appendix B following Table B3. The Schmidt net presents the results of 260 fracture detections in borings UC11, UC12, UC13, NEP3 and UG1. The Schmidt net clearly shows a random distribution of fracture strike and dip, consistent with the core observations summarized in Table B3.

The information summarized in Appendix B demonstrates that the bedrock beneath the Site is highly fractured, providing evidence that groundwater flow takes place through a well

connected network (i.e., high degree of interconnectedness) of fractures and fracture zones that do not have any one dominant orientation. The fracture network was likely enhanced by several episodes of local faulting. Numerous high and low angle fractures exist, providing for hydraulic connection between unconsolidated deposits and bedrock. The techniques used to assess fracture orientation (bedrock coring and downhole ATV) are state-of-the-practice.

2.2.4 – Bedrock Hydraulic Conductivity

The bulk hydraulic conductivity of bedrock beneath the Site has been measured on several occasions. Gaudet (1988) performed type curve analysis using results from the 72-hour pumping test during which well UC22 was pumped at a rate of 20 gpm. Drawdown versus time data from observation well UC7A (ports 1, 2, and 3) was considered using the calculation procedures outlined in Kruseman and de Ridder (1983) and Gringarten (1982). Observation well UC7A is located approximately 375 feet southwest of UC22. Four specific cases were addressed: (i) that bedrock behaves as an equivalent homogeneous porous medium; (ii) that bedrock contains a single vertical fracture; (iii) that bedrock contains a single horizontal fracture; and (iv) that bedrock can be represented as a heterogeneous dual porosity system.

The Gaudet calculations are tabulated in Table C1 and reproduced within Appendix C. The result for the case of a single vertical fracture is expressed in terms of K_m, the rock matrix hydraulic conductivity. The other six values range from a low of 2.18E-04 cm/s to a high of 4.12E-04 cm/s. The seven values are relatively similar to each other, indicating good reproducibility and that no specific calculation method is more representative of bedrock fracturing than the others. Gaudet (1988) calculated the bedrock storativity to range from 1.1E-05 to 1.6E-05 on the basis of the 72-hour pumping test performed using UC22. These low values of storativity are typical of fractured crystalline rock and indicate that water levels within the rock mass will respond quickly to pumping.

GeoTrans (1992, 1994) presents bulk bedrock hydraulic conductivity values calculated on the basis of straddle packer hydraulic testing performed in boreholes G2DB, G2DB2, G35DB, and

G36DB3. The 24 bulk hydraulic conductivity values presented by GeoTrans (1992, 1994) on the basis of straddle packer hydraulic testing are summarized in Table C2 of Appendix C and range from a low of less than 4.6E-08 cm/s to a high of 7.9 E-04 cm/s.

A total of 32 straddle packer hydraulic tests were performed in borehole G2DB2 from depths of 31.5 feet below ground surface (bgs) to 349 feet bgs (total profile length of 317.5 feet) using a packer spacing of approximately 10 feet. Four tests, at a variety of depths, provided data above the lower limit of testing which corresponded to a water loss of 0.3 gallons or less over 15 minutes. In addition to the four responsive intervals, it was noted that the interval from 208.5 feet bgs to 219 feet bgs was heavily fractured and could not be tested.

A total of two bulk bedrock hydraulic conductivity values are presented for G35DB at depths from 47 feet bgs to 66 feet bgs (total profile length of 19 feet) based on hydraulic testing results using a packer spacing of approximately 10 feet, and 17 hydraulic conductivity values are presented for G36DB3 at depths from 38 feet bgs to 236 feet bgs (total profile length of 198 feet) based on hydraulic testing results using a packer spacing of approximately 10 feet.

GeoTrans (1994) also presents bulk bedrock hydraulic conductivity values calculated on the basis of slug tests performed in 41 bedrock wells. In many cases, the hydraulic data from an individual test were interpreted using more than one method. Table C3 (Appendix C) summarizes the resulting hydraulic conductivity values which range from a low of 1.3E-06 cm/s to a high of 3.6E-02 cm/s.

Moore (2010) summarizes bulk bedrock hydraulic conductivity values obtained from both the 30-day pilot test (50 gpm flowrate) and the 72-hour pumping test (20 gpm flowrate) performed using extraction well UC22 on the UniFirst property. Table C4 (Appendix C) presents the resulting 26 bulk bedrock hydraulic conductivity values which range from a low of 7.2E-05 cm/s to a high of 1.4E-03 cm/s. All values were arrived at using the Theis method (Theis, 1935) assuming an aquifer thickness of 400 feet. The Theis method will over-estimate hydraulic conductivity in unconfined and semi-confined flow systems because it does not consider the effects of delayed-yield from storage, or confining bed leakage. The drawdown – time plots

associated with the 26 values of hydraulic conductivity listed in Table C4 are provided as part of the supplemental material presented in Appendix C. The drawdown – time plot for UC22 (Appendix C) displays a delayed yield effect (flattening of the drawdown curve following an initial period of water level decline, followed by subsequent water level decline), indicating that unconsolidated deposits groundwater was flowing into bedrock during the test. This demonstrates a hydraulic connection between unconsolidated deposits and bedrock and demonstrates that the bedrock is part of an unconfined flow system.

In summary, Appendix C presents a total of 129 bedrock hydraulic conductivity values that have been calculated on the basis of pumping tests, slug tests, and straddle packer hydraulic testing. As depicted in Table C3, some of the hydraulic tests (e.g., slug tests) resulted in more than one calculation of hydraulic conductivity given that different interpretation methods were employed. Appendix C does not summarize the hydraulic tests that yielded data below the lower limit of testing, or the results from wells not responsive during pumping tests. This information can be found in other documents, such as GeoTrans (1992, 1994). It should be noted, however, that hydraulic test results yielding data below the lower limit of testing and wells not responsive during pumping tests do not imply that those locations are necessarily void of permeability. As discussed later in this report, relatively low bulk rock hydraulic conductivity values do not preclude the presence of permeable fractures.

Figure 5 presents the 129 hydraulic conductivity values provided in Appendix C as a function of depth below top of rock to the measurement interval midpoint. Figure 5 illustrates that the greatest variability of hydraulic conductivity is associated with the smaller scales of measurement. Stated otherwise, the packer- and slug test-derived hydraulic conductivity values span a wider range than do the pumping test-derived values. This is typical of hydraulic conductivity values obtained from different scales of testing. The pumping test-derived values provide the most meaningful measure of the bedrock hydraulic conductivity at the large scale, and are particularly useful in evaluating capture associated with UC22 given that it has an open interval spanning 175 feet of bedrock. The arithmetic mean of the presented pumping test-derived bulk bedrock hydraulic conductivity values is 2.8E-04 cm/s. The arithmetic mean

of the presented packer test-derived and slug test-derived bulk bedrock hydraulic conductivity values are 8.6E-05 cm/s and 1.7E-03 cm/s, respectively.

Figure 5 illustrates that hydraulic conductivity is generally greater in the upper 20 feet of bedrock as compared to deeper depths, consistent with weathering at nearer surface elevations in bedrock. However, Figure 5 also reflects the fact that the arithmetic mean hydraulic conductivity calculated on the basis of slug testing is higher than that calculated using pumping test and straddle packer test results because the slug testing was performed primarily in shallow bedrock wells completed, at least in part, in weathered bedrock. Below approximately 20 feet, there does not appear to be any obvious trend in hydraulic conductivity values with depth. Overall, however, the entire bedrock mass has moderate to high hydraulic conductivity at all depths as reflected by the mean of the pumping test-derived values. Consistent with the bedrock geology data discussion in Section 2.2.3, these hydraulic conductivity data demonstrate a high degree of interconnectedness within the bedrock system beneath the Site, not a system of high conductivity zones separated by tight or massive unfractured bedrock zones.

Figure 6 presents a histogram illustrating the distribution of bulk bedrock hydraulic conductivity values. Figure 6 displays an approximately log-normal distribution of hydraulic conductivity values with a slight skew towards higher values. The most frequently encountered values are between 1.0E-04 cm/s and 1.0E-03 cm/s. These are relatively high values of bulk bedrock hydraulic conductivity, consistent with the fact that UC22 can easily pump at a rate of 50 gpm.

In addition to Moore (2010), Johnson (1994) summarizes bulk bedrock hydraulic conductivity values calculated on the basis of both the 30-day pilot test and the 72-hour pumping test performed on bedrock well UC22. Approximately 26 hydraulic conductivity values were calculated using drawdown – time responses from a variety of observation wells monitored during the 30-day pilot test, and approximately five hydraulic conductivity values were calculated using drawdown – time responses from a variety of observation wells monitored during the 72-hour pumping test. The analysis utilized the Theis method and focussed on those

observation wells that responded significantly to pumping. Because the Theis method assumes confined conditions, the hydraulic conductivity values presented by Johnson (1994) should be viewed as possibly being biased high.

Johnson (1994) plots the resulting 31 hydraulic conductivity values on a polar plot (rose diagram) to assess whether the magnitude of hydraulic conductivity correlates with compass direction from UC22. Inspection of the polar plot (reproduced in Appendix C as Figure C1) demonstrates that the majority of hydraulic conductivity values fall between 1.0E-04 cm/s and 1.0E-03 cm/s, and that there does not appear to be any obvious correlation between the magnitude of hydraulic conductivity and compass direction from UC22. It should be noted, however, that observation wells associated with the UC22 pumping tests were located in an approximately 180 degree arc around the well, as opposed to a monitoring network that would have spanned a full 360 degrees around the pumping well. Nevertheless, the presented data do demonstrate that although the hydraulic conductivity of the bedrock is spatially variable, it is constrained to a relatively narrow range (one order of magnitude) when considering those wells that responded significantly to pumping. The data also demonstrate that there is no specific depth, zone, or directional component to the higher hydraulic conductivity values in bedrock.

In summary, bedrock in the Northeast Quadrant is well characterized with respect to hydraulic conductivity. Hydraulic conductivity values have been calculated on the basis of pumping tests, straddle packer hydraulic tests, and slug tests. Hydraulic conductivity estimates are available at a variety of locations, depths and scales of interest. The hydraulic conductivity data demonstrate that the bedrock has moderate to high transmissivity and that there are no massive unfractured zones lacking hydraulic conductivity. The scale of the pumping interval in UC22 (175-foot open hole) is much larger than the fracture spacing, implying that the drawdown in the well will induce flow throughout the interconnected fracture network and throughout the zones of varying hydraulic conductivity.

2.2.5 Fracture Aperture

Fracture mechanical aperture refers to the physical size of the opening between adjacent fracture walls. The mechanical aperture is spatially variable within any rough-walled fracture, and as a result fracture aperture is often expressed in terms of the hydraulic aperture. The hydraulic aperture is the equivalent parallel plate aperture that results in the same rate of flow as the real, rough-walled fracture. Since groundwater flow in fractured bedrock occurs through discrete fractures, it is instructive to assess the size of the hydraulic aperture. The hydraulic aperture can in turn be used to calculate groundwater velocity, groundwater flux, and groundwater flow rate in an individual fracture. The bulk bedrock hydraulic conductivity data discussed above can be used to estimate the hydraulic aperture using the following equation (de Marsily, 1986):

$$e = \left(\frac{K_b L 12 \mu}{n \rho g} \right)^{1/3} \qquad (1)$$

where e is the fracture hydraulic aperture, K_b is the bulk bedrock hydraulic conductivity, L is the length of the test interval, μ is the viscosity of the groundwater, ρ is the density of the groundwater, n is the number of hydraulically active fractures in the test interval, and g is acceleration attributable to gravity.

The above equation was used to calculate hydraulic apertures for each of the 96 straddle packer hydraulic tests and slug tests performed in bedrock. The straddle packer hydraulic tests and slug tests provide local-scale measurements of hydraulic conductivity and are therefore suitable for calculation of hydraulic aperture. It was assumed that each test interval contained at least one hydraulically active fracture. This calculation procedure yielded hydraulic apertures ranging in width from a low of 12 microns to a high of 1103 microns, with an average value of 214 microns.

Figure 7 presents a plot of fracture hydraulic aperture versus depth below top of bedrock. The largest fracture apertures are generally encountered in the upper 20 feet of bedrock, consistent with weathering. A range of aperture values exist for all depths, however, as expected in any

bedrock formation. Figure 8 presents a histogram illustrating the distribution of fracture hydraulic aperture. The histogram approximates a gamma distribution (or possibly log-normal), as is often the case for fracture hydraulic aperture.

The calculated fracture apertures plotted in Figure 7 can be used to estimate fracture hydraulic conductivity (K_f) using the following equation (de Marsily, 1986):

$$K_f = \frac{e^2 \rho g}{12\mu} \qquad (2)$$

Applying equation (2) provides fracture hydraulic conductivity values ranging from 1.2E-02 cm/s to 99 cm/s with an average value of 6.6 cm/s. The fracture hydraulic conductivity values are substantially higher than the bulk bedrock hydraulic conductivity values (range of K_b for the 96 values is 4.6E-08 cm/s to 3.6E-02 cm/s with an average value of 1.3E-03 cm/s) because of the fact that the bedrock matrix is assumed to contribute no conductivity to the bedrock mass. This assumption is justified given the crystalline nature of the Northeast Quadrant bedrock.

The fracture hydraulic conductivities are substantial in magnitude and demonstrate that fractures within the study area can transmit substantial quantities of water. The flowrate of groundwater through a fracture is proportional to the aperture cubed, and that the velocity of groundwater through a fracture is proportional to the aperture squared. It follows that the fractures can also transmit substantial quantities of contaminant mass in response to pumping of the bedrock. The lowest value of bulk bedrock hydraulic conductivity measured by the straddle packer and slug tests (4.6E-08 cm/s) corresponds to fracture hydraulic conductivity of 1.2E-02 cm/s, which is equivalent to that of a medium-grained sand. It is also important to remember that hydraulic tests yielding results below the lower limit of testing do not necessarily correspond to a lack of hydraulically active fractures within the test interval.

2.3 Hydrogeology

Groundwater flow at the Site occurs in both the unconsolidated deposits and bedrock, and between the unconsolidated deposits and bedrock. Saturated groundwater conditions are absent in unconsolidated deposits at some of the higher elevation regions of the Site where bedrock is encountered at shallow depths beneath ground surface. The unconsolidated deposits and bedrock flow systems are not separate regimes, but rather are interconnected as evidenced by a variety of facts including:

- Drawdown was observed in bedrock during the USGS pumping test performed using unconsolidated deposits wells G and H;
- Drawdown is observed in unconsolidated deposits in response to pumping bedrock extraction well UC22;
- Bedrock is permeable at all depths, including the very shallow horizon that is in contact with unconsolidated deposits, as evidenced by hydraulic testing results;
- The top of bedrock is fractured and includes high angle fractures, as evidenced by observations in core obtained from drilling; and
- Organic compounds historically released to unconsolidated deposits, such as PCE and TCE, have migrated via unconsolidated deposits into bedrock.

2.3.1 Unconsolidated Deposits Hydrogeology

Groundwater flow in unconsolidated deposits throughout the Site prior to activation of the Grace and UniFirst pumping systems was generally directed towards the Aberjona River, which acts as a regional sink. Figure 9 presents an unconsolidated deposits water level map depicting measurements taken in May 1992 prior to activation of bedrock extraction well UC22 and activation of the Grace pumping system. Figure 9 demonstrates the presence of a regional water level high in the northeast portion of the Grace property. A groundwater divide exists in the unconsolidated deposits on the Grace property. The divide is caused by the presence of Snyder Creek. Snyder Creek is a localized groundwater discharge boundary for the

unconsolidated deposits groundwater on the eastern portion of the Grace property. Groundwater from beneath the former manufacturing building located on the Grace property flowed to the southwest toward the Aberjona River valley. The horizontal component of the hydraulic gradient beneath the former manufacturing building reflected by the data plotted in Figure 9 is approximately 0.05. Groundwater flow in unconsolidated deposits on the UniFirst site was oriented west-southwest with a horizontal component of the hydraulic gradient of approximately 0.03.

Figure 9 demonstrates that prior to the activation of the Grace and UniFirst pumping systems, the watertable at both the Grace and UniFirst properties was located in the unconsolidated deposits. Up to 50 feet of saturated unconsolidated deposit thickness existed in the north central portion of the Grace property, and up to 50 feet of saturated unconsolidated deposit thickness existed in the northwest portion of the UniFirst property. The water levels depicted in Figure 9 are consistent with an unconsolidated deposits flow system dominated by topography and the presence of a regional sink (Aberjona River). An anomalously high water level (82.79 feet NGVD) appears to be present at location S22. The data utilized to construct Figure 9 are presented in Table D1 (Appendix D).

Figure 10 presents an unconsolidated deposits water level map depicting measurements taken in September 2010 while both the Grace and UniFirst pumping systems were operational. As with the 1992 data set presented in Figure 9, a regional water level high exists in the northeast portion of the Grace property and regional groundwater flow is generally towards the Aberjona River. However, operation of the Grace and UniFirst pumping systems has clearly created local reversals of groundwater flow towards the extraction wells. Figure 10 depicts a large zone of flattened hydraulic gradient southwest of the Grace pumping system as compared to the non-pumping conditions depicted in Figure 9. Unconsolidated deposits water levels on the Grace property in the vicinity of extraction wells are significantly lower than those under non-pumping conditions. Figure 10 illustrates the portion of the Grace property where the water table has been lowered into the bedrock, and the unconsolidated deposits have been dewatered.

Comparison of Figures 9 and 10 demonstrates that unconsolidated deposit water levels on the eastern portion of the UniFirst property are approximately five to ten feet lower compared to non-pumping conditions (on the basis of drawn contours), despite the fact that groundwater beneath the UniFirst property is being pumped only from a bedrock extraction well. Certain portions of the unconsolidated deposits on the eastern end of the UniFirst property remain unsaturated throughout most of the year as a result of pumping. Specifically, unconsolidated deposits wells UC34, UC35, and UC36 are typically dry (as depicted on Figure 10) and unconsolidated deposits wells UC32 and UC33 are sometimes dry. The portion of the UniFirst property where the water table has been lowered into the bedrock, and the unconsolidated deposits are dry, is also shown on Figure 10.

Further details regarding the Grace and UniFirst pumping systems, including extraction well screen intervals, flow rates and extent of capture are discussed in Section 3 of this report. The data utilized to construct Figure 10 are presented in Table D2 (Appendix D).

2.3.2 Bedrock Hydrogeology

Groundwater flow in bedrock throughout the Site occurs through a network of interconnected fractures. As discussed in Section 2.2.5 of this report, even relatively small aperture fractures can have appreciable hydraulic conductivity. The presence of such fractures often cannot be detected using hydraulic testing methods. This stems from the fact that a hydraulic test performed with a straddle packer assembly, for example, measures the bulk hydraulic conductivity of the bedrock, which comprises both the rock matrix hydraulic conductivity and the fracture hydraulic conductivity. Since the length of rock matrix between the packers is much greater than the fracture aperture, the hydraulic test response is dominated by the presence of the rock matrix. In crystalline bedrock, the matrix hydraulic conductivity is very low. Hydraulic testing responses below the lower limit of testing, therefore, do not necessarily correspond to an absence of fractures. Also of note is the fact that fracture aperture is spatially variable within the plane of any fracture. A hydraulic testing result that reveals the presence of

a large aperture fracture intersecting the borehole does not imply that the fracture retains its large aperture at distances from the borehole. Conversely, a hydraulic testing result at or below the lower limit of testing indicating a very small aperture fracture intersecting the borehole does not imply that the fracture maintains such a small aperture distant from the borehole. It is therefore important that numerous measurements of bedrock hydraulic conductivity be carried out, as is the case for this Site, to properly characterize a hydrogeologic system with respect to hydraulic conductivity and groundwater flow. The Wells G & H Site can be considered a data rich site in this respect given the number of bedrock hydraulic conductivity measurements that have been carried out, and given the fact that these have been carried out at a number of different scales (see Sections 2.2.4 and 2.2.5 as well as Figures 5 through 8). The bedrock hydrogeology system beneath the Site is well characterized and understood.

Figure 11 presents a water level elevation map for the upper 100 feet of bedrock depicting measurements taken in May 1992 prior to activation of the Grace and UniFirst pumping systems. The monitoring points utilized to construct Figure 11 correspond to those wells with screen midpoints occurring at depths of less than 100 feet below the top of bedrock. Figure 11 reflects primarily southwest groundwater flow throughout the Northeast Quadrant. Of note is the fact that well cluster UC7A (south of UniFirst building) reflects an upward component of groundwater flow. Specifically, the water level elevation in UC7A-4 (59.21 feet) is less than that in UC7A-3 (60.35 feet), which in turn is less than that in UC7A-2 (61.65 feet). The elevations of monitoring points UC7A-4, UC7A-3, and UC7A-2 are +30 feet NGVD, -6 feet NGVD and -33 feet NGVD, respectively. Higher water levels are measured in deeper wells, thereby demonstrating an upward hydraulic gradient and vertically upward component of flow. An upward component of flow in bedrock at this location is consistent with the presence of a bedrock valley in-filled with permeable sediments towards the Aberjona River. The in-filled bedrock valley sediments act as a drain (sink) for bedrock groundwater. The magnitude of the upward hydraulic gradient (creating an upward component of flow) at UC7A is approximately 0.04. The data utilized to construct Figure 11 are presented in Table D3 (Appendix D).

Figure 12 presents a water level elevation map for the upper 100 feet of bedrock depicting measurements taken in September 2010 while the Grace and UniFirst pumping systems were active. Comparison of Figures 11 and 12 demonstrates that pumping from the Grace and UniFirst pumping systems has created a substantial shift in groundwater flow directions within the upper 100 feet of bedrock, with significant water level depressions at both UC22 and the UC7A cluster as well as in the vicinity of the Grace recovery wells.

Of note at the UniFirst property is the fact that the vertical component of the hydraulic gradient at the UC7A location is downward under pumping conditions, while the data presented on Figure 11 illustrate that it was upwards under non-pumping conditions. The downward component of the hydraulic gradient at the UC7A location under pumping conditions (September 2010 data) is approximately 0.45. The downward hydraulic gradient at UC7A is caused by groundwater extraction from well UC22.

Figure 12 gives the impression that there are two separate regions of low water levels in shallow bedrock, one near well UC7A and the other near extraction well UC22. Given that the pumping is occurring at UC22, these two regions of low water levels must be connected and not isolated from each other by a zone of higher water levels at the east end of the UniFirst building near UC4. The appearance of the 23.19 feet NGVD water level at UC7A-2 and the 7.23 feet NGVD water level at UC22 being separated stems from the fact that the monitoring points at the east end of the UniFirst building are all relatively shallow in elevation, and thus display higher water levels than UC7A-2 and UC22 because they are located in the upper part of a downward flowing system. The elevation (midpoint) of monitoring points UC17, UC8, UC20, UC5, UC16, and UC4 ranges from a low of 52.65 feet NGVD (UC17) to a high of 59.95 feet NGVD (UC8). These monitoring points are relatively shallow compared to other monitoring wells within the upper 100 feet of bedrock.

Figure 13 presents a deep bedrock water level map depicting water level measurements taken in May 1992 prior to activation of the Grace and UniFirst pumping systems. Monitoring points are classified as falling into deep bedrock if the midpoint of the measurement interval is deeper

than 100 feet below the top of bedrock. Figure 13 reflects a west to southwest component of groundwater flow consistent with bedrock topography and the presence of permeable sediments filled into the bedrock valley. The data utilized to construct Figure 13 are presented in Table D5 (Appendix D).

Figure 14 presents a deep bedrock water level elevation map constructed using water level elevation measurement obtained in September 2010 during operation of the Grace and UniFirst pumping systems. Figure 14 depicts a water level depression beneath the UniFirst property created by the pumping of UC22. Groundwater flow in deep bedrock converges toward UniFirst extraction well UC22 from all directions. The data utilized to construct Figure 14 are presented in Table D6 (Appendix D). Although the screen midpoint of UC22 is located within the upper 100 feet of bedrock, data from this well have been included on Figure 14 (deep bedrock) as well as Figure 12 (upper 100 feet of bedrock) because UC22 is an extraction well that extends 81 feet into the upper part of the deep bedrock zone. The hydraulic head within UC22 is constant along its 175-foot open interval length and it therefore has a significant effect on bedrock water levels in both shallow and deep bedrock. The fact that UC22 has a 175-foot long open interval promotes connectivity of groundwater flow within the fracture network.

2.4 Aqueous Phase Plume Distribution

The primary contaminants of concern (COCs) in groundwater within the Northeast Quadrant study area are PCE and TCE. PCE and TCE are both chlorinated solvents that are sparingly soluble in water and are classified as DNAPLs in their non-dissolved form. DNAPLs are denser than water and depending on the volume of DNAPL released have the potential to migrate to significant distances below the watertable. Once present below the watertable, DNAPLs will slowly dissolve into flowing groundwater giving rise to aqueous phase contamination.

Based on the history of solvent usage at the UniFirst and Grace properties, it is reasonable to conclude that PCE and TCE in DNAPL form are no longer migrating in unconsolidated deposits or bedrock. This statement stems from the fact that both PCE and TCE are significantly denser

than water (Table 1) and have low viscosity (Table 1). High density, low viscosity DNAPLs such as PCE and TCE stop migrating in the subsurface much sooner than low density, high viscosity DNAPLs such as creosote and coal tar (Gerhard et al., 2007). Chlorinated solvents have not been utilized at the UniFirst property since 1982, and their use was reportedly discontinued at the Grace property in 1976.

Table 1 – Physical and Chemical Properties of PCE and TCE (Pankow and Cherry, 1996)

Property	PCE	TCE
Density (grams per millilitre)	1.63	1.46
Viscosity (centistokes)	0.54	0.39
Aqueous Solubility (milligrams per litre	200	1100
Organic Carbon Partition Coefficient (millilitres per gram	364	126
Henry's Constant (atm-m^3/mol)	0.0174	0.00937

2.4.1 – Processes Influencing Fate and Transport of Contaminants of Concern

The transport of PCE and TCE dissolved in groundwater (aqueous phase PCE and TCE) is subject to advection, dispersion, sorption, matrix diffusion, and biodegradation. Advection refers to the bulk movement of solute (i.e., the aqueous phase PCE and TCE) in flowing groundwater. In permeable systems such as the unconsolidated deposits and bedrock at the Site, advection is the dominant transport mechanism. Water level contour plots (e.g., Figures 9 through 14) can be relied upon to determine the direction of advection, which is always from regions of higher water level to regions of lower water level. In the simplest of cases, advection takes place perpendicular to the water level contours. In most naturally occurring systems, however, some

degree of anisotropy in hydraulic conductivity will exist such that the direction of advection is not necessarily perpendicular to the water level contours. The degree of anisotropy can be difficult to quantify precisely, but this is typically not necessary in systems having a mature plume since the location and orientation of the contaminated groundwater reflects the influence of anisotropy on advective transport.

All plumes subject to advection are also subject to dispersion, which is a dilution mechanism attributable to velocity variations. In unconsolidated deposits, dispersion stems from velocity variations at the pore scale (local scale dispersion) and at the scale of bedding structures (macro dispersion). In bedrock, dispersion stems from velocity variations within a single fracture (local scale dispersion) and at the scale of the fracture network (macro dispersion). Macro dispersion within the fracture network stems from mixing at fracture intersections as well as differential rates of advection among fractures.

The manifestation of dispersion in groundwater flow systems is that the aqueous-phase concentrations at the leading and transverse edges of the plume will exhibit a gradual decrease towards lower concentrations. Similarly, concentration breakthrough curves (concentration versus time curves) will show gradual increases and decreases in concentration, rather than plug flow behaviour, which would occur if advection were the only transport mechanism. Dispersion also causes all plumes derived from a constant strength source to eventually reach a steady-state length (i.e., condition of plume stability). In this context, the plume is defined by some specified concentration contour. This concentration contour does not expand once the plume has reached its steady-state length, despite the fact that contaminated groundwater continues to flow from the source area. A further important manifestation of dispersion is that a contracting plume will be subject to dispersion at its trailing (contracting) edges. This implies that a contracting plume will shrink at a rate slower than that calculated by advection alone.

In addition to advection and dispersion, many organic compounds are subject to adsorption to grain surfaces and fracture walls. Adsorption represents partitioning between the aqueous and solid phases. The manifestation of adsorption is that the solute will migrate at a slower velocity

than the groundwater. This process is referred to as retardation, and is quantified by a retardation factor (*R*) as follows:

$$R = \frac{v_g}{v_c} \tag{3}$$

where v_g is the average linear groundwater velocity, and v_c is the contaminant (i.e., solute) velocity. The retardation factor therefore represents the ratio of groundwater to contaminant velocity (in the context of advection). For conservative solutes, defined as those not subject to adsorption, the retardation factor equals unity. For non-conservative solutes in porous media, the retardation factor can be approximated using (Fetter, 1998):

$$R = 1 + \frac{\rho_b}{\phi} K_{oc} f_{oc} \tag{4}$$

where ρ_b is the dry bulk density of the porous medium, ϕ is the porosity of the porous medium, K_{oc} is the contaminant-specific organic carbon partition coefficient, and f_{oc} is the fraction organic carbon of the porous medium.

The retardation factor for PCE in unconsolidated deposits at the Site can be estimated using f_{oc} = 0.00035 (average of 12 site-specific measurements summarized on Table A1, Appendix A), K_{oc} = 364 ml/g (Table 1), ϕ = 0.25 (estimated as typical of unconsolidated deposits), and ρ_b = 2.03 g/cc (consistent with ϕ = 0.25). These values result in *R* = 2.03, which is a relatively low value compared to many other sites where PCE is present in unconsolidated deposits. The relatively low retardation factor for PCE stems from the low values of measured f_{oc}. The retardation factor for TCE calculated using the above porous media parameters and K_{oc} = 126 ml/g (Table 1) is 1.36.

For bedrock fractures, the retardation factor is difficult to quantify given the need for the distribution coefficient, which is typically not measured. For the crystalline rock of interest here, however, it is expected that the walls of the fractures will be relatively void of organic carbon and thus assuming little to no adsorption of PCE and TCE in the bedrock is reasonable.

In addition to advection, dispersion and adsorption, solute plumes in fractured bedrock can be subject to matrix diffusion. Matrix diffusion refers to the diffusive transfer of solute across the fracture walls into the bedrock matrix. In bedrock types having significant matrix porosity, the majority of the contaminant mass will eventually be stored in the bedrock matrix, not the fractures. Matrix diffusion results in the attenuation (slowing) of plume migration in fractured bedrock during the plume expansion stage because of the continued transfer of solute from the fractures to the bedrock matrix (Lipson et al., 2005). During remediation using pump-and-treat, matrix diffusion can be a time-limiting factor because the solute must back-diffuse from the bedrock matrix into the bedrock fractures before it can be removed by pumping (West and Kueper, 2010).

The crystalline nature of the bedrock at the Wells G & H Site implies that the matrix porosity will be relatively low. High matrix porosity is typically associated with sedimentary rocks such as sandstone and limestone. It is reasonable to conclude that a small amount of matrix diffusion is occurring at the Site, but that it is not the dominant process influencing solute transport in bedrock. Diffusion into and out of local fine grained lenses (e.g., clay, silt) in unconsolidated deposits, however, can significantly impact the rate of contaminant transport in groundwater and the rate of diffusive transport in the unsaturated unconsolidated deposits.

Biodegradation is an additional process that can influence the rate of contaminant transport in unconsolidated deposits and bedrock. Biodegradation of PCE and TCE typically occurs under anaerobic conditions with the degradation of PCE resulting in the formation of TCE, the degradation of TCE resulting in the formation of cis–1,2-dichloroethylene (DCE), the degradation of DCE resulting in the formation of vinyl chloride (VC), and the degradation of VC producing ethene. The manifestation of biodegradation is that a shorter steady-state plume length will form, concentrations within the plume will generally be lower, and remediation using pump-and-treat will progress quicker than in the absence of biodegradation. Examination of water quality data demonstrates that the primary COCs in the Northeast Quadrant groundwater are PCE and TCE, but that DCE and VC are present as well indicating that biodegradation of PCE and TCE is occurring in some areas of the Northeast Quadrant. Any

biodegradation products of PCE and TCE will also be captured and treated by the existing UniFirst and Grace recovery systems.

2.4.2 – Unconsolidated Deposits Plume Distribution

Figure 15 presents the distribution of PCE and TCE in unconsolidated deposits groundwater in the vicinity of the UniFirst and Grace properties based upon sample results obtained during September 2010. If a particular well had been sampled more than once during the year, the most recent concentration value was selected for use in constructing the figure. Figure 15 includes wells screened exclusively in unconsolidated deposits, and monitoring wells that are screened across the unconsolidated deposits-bedrock contact. Figure 15 illustrates that concentrations of PCE and TCE in unconsolidated deposits samples are less than the ROD-specified cleanup goals at most of the sampling locations. PCE concentrations exceeded the cleanup goals at only 13 of 41 sampling locations, and TCE concentrations exceeded the cleanup goals at only 6 of 41 sampling locations. Only 6 of the 13 PCE sampling locations and none of the TCE sampling locations with concentrations greater than the cleanup goals were from off-property locations. See also Figures 56 and 59.

Figure 16 presents the distribution of PCE and TCE in unconsolidated deposits groundwater across the Wells G & H Site based on sample results obtained prior to commencement of the Grace and UniFirst extraction systems; that is, data collected prior to September 30, 1992. Figure 16 includes wells screened exclusively in unconsolidated deposits, and monitoring wells that are screened across the unconsolidated deposits-bedrock contact. If a particular well had been sampled more than once prior to 1992, the maximum concentration value was selected for use in constructing the figure.

Figure 16 illustrates that the highest historical concentrations on the UniFirst property occurred south of the building in the vicinity of monitoring wells UC6, UC7-5, and S71. This is the same area exhibiting the highest current day concentrations. However, the current day concentrations (Figure 15) are significantly lower than the historical ones, reflecting a

contracting plume. The temporal variation of VOC concentrations will be discussed further in Section 3. The area of highest impact on the UniFirst property is in the vicinity of monitoring point UC8 where DNAPL has been observed historically. Figure 16 illustrates that the highest historical impacts on the Grace property occurred at monitoring location G19S, while the highest current day impacts are at well G19M. However, the current day impacts (Figure 15) are significantly lower than the historical ones.

The overall highest impacts illustrated on Figure 16 occur in the western portion of the Wells G&H Site near the Aberjona River in the vicinity of monitoring locations S78S, BOW14, BOW13, and BSSW6. Historical concentrations of PCE and TCE at these monitoring locations are significantly higher than historical concentrations at hydraulically upgradient locations, indicative of local historical sources of both PCE and TCE in the immediate vicinity of the Aberjona River.

Figure 17 presents the distribution of PCE and TCE in unconsolidated deposits groundwater across the Wells G&H Site based on sample results obtained between 1992 and 2009. Figure 17 includes wells screened exclusively in unconsolidated deposits, as well as monitoring wells that are screened across the unconsolidated deposits-bedrock contact. If a well had been sampled more than once during this period, the most recent sample result was utilized to construct the figure. Figure 17 was prepared in recognition of the fact that certain wells were not sampled in 2010. Figures 15 and 17 together provide a depiction of recent PCE and TCE distributions in unconsolidated deposits groundwater, but it should be recognized that the various data points utilized to construct Figure 17 may vary in time by several years, and may precede the data shown on Figure 15 by more than 15 years.

2.4.3 – Bedrock Plume distribution

Figure 18 presents the distribution of PCE and TCE in bedrock groundwater in the vicinity of the UniFirst and Grace properties based upon sample results obtained during 2010. If a particular well had been sampled more than once during the year, the most recent concentration value

was selected for use in constructing the figure. The highest concentrations of PCE and TCE at the UniFirst property are observed in shallow bedrock at monitoring well UC8 located at the east end of the building. DNAPL has historically been detected in this well. The highest concentration of PCE detected in a well on the Grace property (30 µg/L) is in monitoring well G38D, which is located in the southwest corner of the Grace property. The highest concentration of TCE at the Grace property (220 µg/L) is observed in the northern portion of the property at monitoring well G19D and recovery well RW22. Well RW22 was recently deepened to extend 20 feet into bedrock.

Figure 19 presents the distribution of PCE and TCE in bedrock groundwater across the Wells G&H Site based on sample results obtained prior to commencement of the Grace and UniFirst extraction systems (i.e., data prior to September 30, 1992). If a particular well had been sampled more than once prior to 1992, the maximum concentration value was selected for use in constructing the figure. Figure 19 illustrates that the highest historical impact on the UniFirst property occurred in shallow bedrock at monitoring well UC8 located at the east end of the building near where prior PCE storage occurred. The highest historical impact on the Grace property occurred in monitoring well G15D located within the south drainage ditch near the southeast corner of the former manufacturing building.

Figure 20 presents the distribution of PCE and TCE in bedrock groundwater throughout the Wells G & H Site based on sample results obtained between 1992 and 2009. If a well had been sampled more than once during this period, the most recent sample result was utilized to construct the figure. Figure 20 was prepared in recognition of the fact that certain wells were not sampled in 2010. Figures 18 and 20 together provide a depiction of recent PCE and TCE distributions in bedrock groundwater, but it should be recognized that the various data points utilized to construct Figure 20 may vary in time by several years and may precede the data shown on Figure 18 by more than 15 years.

Figures 18 through 20 illustrate that PCE and TCE concentrations in bedrock groundwater have been decreasing since the start-up of the Grace and UniFirst pumping systems. As will be

discussed in more detail later in this report, the vast majority of wells are displaying decreasing concentrations as a function of time, with many wells currently exhibiting non-detect levels.

The data presented and discussed in the preceding section demonstrate that the geologic and hydrogeologic systems and the distribution of aqueous-phase contaminants at the Site are well characterized and understood. This well-defined CSM supports the capture assessment and conclusions presented in the following section.

3.0 – Assessment of Capture

3.1 – Groundwater Remedy Objectives

The ROD specified the following remedial objectives for groundwater at the five Source Area properties within OU-1 of the Wells G&H Site (ROD, p. 30; SOW, p. 5):

- Prevent further migration of contaminated groundwater from the Source Area properties to the Central Area;
- Limit the further migration of contaminated groundwater off-site from the Source Area properties;
- Restore groundwater in the saturated bedrock and unconsolidated deposits in the vicinity of the Source Area properties to drinking water quality; and
- Prevent public contact with contaminated groundwater above the cleanup levels.

In approving the design for coordinated groundwater extraction systems for the UniFirst and Grace properties, EPA accepted a minor modification to the ROD objectives and anticipated that some contaminated groundwater in the bedrock beneath the Grace property would flow from the Grace property to the UniFirst extraction well UC22.

The target cleanup levels specified by the ROD are the Maximum Contaminant Levels (MCLs) promulgated under the Safe Drinking Water Act. The ROD lists the cleanup levels for groundwater as follows (ROD, Table 7):

Table 2 – Groundwater Cleanup Levels

Compound	Cleanup Level (µg/L)
Chloroform	100
1,1-Dichloroethane	5
1,2-Dichloroethane	5
1,1-Dichloroethene	7

1,1,1-Trichloroethane	200
Tetrachloroethene (PCE)	5
Trichloroethene (TCE)	5
Trans-1,2-Dichloroethene	70
Vinyl Chloride (VC)	2

The groundwater capture assessment presented here focuses on the UniFirst and Grace properties. This report does not address the ROD-specified groundwater remedial objectives for the other three Source Area properties identified by EPA within OU-1.

The UniFirst groundwater extraction system was designed to create a hydraulic barrier to prevent off-property migration of contaminated groundwater in unconsolidated deposits, shallow bedrock and deep bedrock, and to reduce the concentrations of the COCs in the groundwater beneath the property ultimately to less than the ROD-specified cleanup levels (Table 2). The bedrock capture zone for the UniFirst extraction system is very large, extending horizontally off the UniFirst property in all directions. The Grace groundwater extraction system was designed to create a hydraulic barrier to prevent off-property migration of contaminated groundwater in unconsolidated deposits and shallow bedrock (allowing any contaminants in the deeper bedrock to flow into the capture zone of the UniFirst extraction system), and to reduce the concentrations of the COCs in the groundwater beneath the property ultimately to less than the ROD-specified cleanup levels (Table 2). The EPA-approved design of the Grace property recovery well system specified that 19 of the 22 recovery wells on the Grace property would be completed with well screens that extended 15 feet into bedrock, one well would be completed with a well screen that extended 50 feet into bedrock and two wells would be screened only in the unconsolidated deposits. There was no depth below the bedrock surface specified to define the shallow bedrock zone for which capture was to be achieved by the Grace recovery wells.

3.2 – Groundwater Extraction Systems

3.2.1 – Grace Property

The groundwater extraction system at the Grace property initially consisted of 22 recovery wells arranged in four areas. Figure 21 shows the locations of the Grace recovery and monitoring wells. Recovery wells RW1 through RW6 comprised what is referred to as Area 1 and were located along the southern side of the main building in the portion of the former south drainage ditch where TCE was reportedly discharged. Area 2, which is located on the southern portion of the Washington Street property boundary, includes recovery wells RW7 through RW12. Area 3, which is located along the western portion of the southern property boundary, includes recovery wells RW13 through RW21. Area 4, which is located on the north side of the main building in a suspected TCE release location, includes one recovery well, RW22.

All recovery wells on the Grace property, with the exception of RW4, RW5 and RW22, were completed with 20 feet of well screen. The screens for these 19 wells (RW1 – RW3 and RW6 - RW21) were set in the upper 15 feet of bedrock and the bottom five feet of the unconsolidated deposits. Recovery well RW4 was constructed with a 50-foot long open interval in the upper bedrock and RW5 was constructed with a 5-foot long screen at the bottom of the unconsolidated deposits. Recovery well RW22 is a 4-foot diameter caisson-type well, originally installed in a larger diameter borehole open only in the upper 30 feet of the unconsolidated deposits. The RW22 borehole is nine feet in diameter from the ground surface to a depth of 13 feet. From a depth of 13 feet to a depth of 30 feet the borehole is seven feet in diameter. Well RW22 has recently been modified by drilling an 8-inch diameter borehole through the bottom of the caisson to a depth of 79 feet, which is approximately 20 feet below the bedrock surface. A 4-inch diameter well screen was installed from a depth of 24 to 79 feet below land surface, and the annular space was filled with a filter pack. The modifications were made in response to an EPA request to enhance the performance of RW22.

Pumping of the Area 1 recovery wells ceased in 1997 because of the low rate of mass removal from the Area 1 wells. As approved by EPA, the Area 1 wells were permanently abandoned by

grouting in 2002. Because of the low hydraulic conductivity of the unconsolidated deposits and shallow bedrock beneath the Grace property, the combined pumping rate of the Grace recovery wells is low. The long-term average pumping rate since the system began operations is 7 gpm. In the 18 years of operation the average annual pumping rate has ranged from 4.5 to 8.7 gpm.

The original Grace treatment system included particulate filtration and ultraviolet / chemical oxidation (UV/OX) to destroy the chlorinated organic contaminants. As a result of the reduction in VOC concentrations in the treatment system influent and to reduce energy consumption, the UV/OX treatment unit was removed and replaced with granular activated carbon filters in 2002. The treated water is discharged to Snyder Creek east of the treatment plant building.

Figure 22 and Table 3 summarize the cumulative volume of water extracted and the cumulative mass of VOCs removed by the Grace extraction and treatment system since start-up in 1992. Figure 22 illustrates a relatively linear increase in the volume of groundwater extracted over time, consistent with continuous operation of the system. The cumulative volume of groundwater extracted between September 1992 and September 2010 is 66.5 million gallons. The average annual system extraction rate for the past thirteen years (following cessation of pumping from Area 1 wells in 1997) has ranged from 4.5 gpm to 8.6 gpm, and averaged 7.1 gpm.

Given that the groundwater system is unconfined, an estimate of the capture zone area can be arrived at by dividing the average system extraction rate (7.1 gpm average last 13 years to 2010) by the amount of annual recharge reaching the watertable. Adopting an annual recharge (reaching the watertable following evapotranspiration) of 0.5 feet/year, the estimated steady-state capture zone area is approximately 998,000 ft^2. This represents an area approximately 2.3 times as large as the Grace property footprint. This calculation demonstrates that the Grace extraction system is preventing off-site migration of contaminated groundwater in shallow bedrock and unconsolidated deposits. This calculation also suggests that even if the

annual recharge rate for the Grace property were as much as 1.0 feet per year, the steady-state capture area of the Grace recovery system would still be larger than the footprint of the Grace property. An average total system extraction rate of approximately 7.1 gpm can offset annual recharge rates (over the footprint of the Grace property) of as much as 1.15 feet/year.

Table 3 – Summary of Water Pumped and VOC Mass Removed by the Grace Property Treatment System

Year	Average Flow Rate (gpm)	Average Yearly Influent Total VOC Concentration (µg/L)	Estimated VOCs Removed	
			Pounds	Gallons
1	8.37	507	18.2	1.6
2	5.33	460	10.4	0.9
3	4.95	380	8.2	1.7
4	7.04	208	5.0	0.4
5	8.71	89	3.3	0.3
6	8.18	293	8.2	0.7
7	4.98	181	3.8	0.3
8	6.11	150	3.6	0.3
9	6.22	195	5.0	0.4
10	4.53	158	2.0	0.2
11	7.46	115	4.4	0.4
12	7.06	91	3.0	0.3
13	7.82	66	2.0	0.2
14	7.88	54	1.6	0.1
15	8.47	40	1.5	0.1

16	7.02	57	1.4	0.1
17	8.43	32	1.2	0.1
18	8.56	35	1.0	0.1
Total			84.5	7.4

Figure 22 also shows a decline in the rate of VOC mass removal even though the rate of groundwater extraction has remained relatively constant since 1992. The decline in rate of mass removal is an indicator of the reduction of VOC concentrations in the groundwater in shallow bedrock and unconsolidated deposits beneath the Grace property.

3.2.2 – UniFirst Property

System Design

Groundwater extraction at the UniFirst property takes place from extraction well UC22, which is a 6-inch diameter bedrock well installed to a depth of approximately 190 feet bgs. Groundwater is pumped from the 175-foot open interval of the well, which extends from 6 feet below the top of bedrock to 181 feet below the top of bedrock. Extraction well UC22 is designed and operated to extract groundwater from the full open interval of the well to preclude flow bypassing and promote connectivity of groundwater flow within the fracture network. A 30-day constant-rate pumping test (the 30-day pilot test) was performed from April 30 to May 30, 1991 using an extraction rate of approximately 50 gpm from UC22 (EPC, 1991). Comparison of water levels prior to pumping to water levels measured during and at the end of the 30-day pilot test allows estimation of the zone of capture associated with UC22. EPC (1991) reported that non-pumping related water level declines during the 30-day pilot test were up to approximately one foot. This statement is based on observation of water levels in monitoring wells distant from the UC22 zone of influence and recognition that a significant rainfall event and consequent water level rise occurred prior to the commencement of pumping. Also of

note, Grace extraction system wells RW1 through RW10 began pumping on May 10, 1991 specifically to evaluate the superimposed hydraulic effects of pumping from both the UniFirst and Grace extraction systems.

EPC (1991) reported that there was relatively little change in unconsolidated deposits regional water levels attributable to pumping from UC22 during the 30-day pilot test. The maximum observed drawdown in unconsolidated deposits at the end of the 30-day pumping period was 1.9 feet in GO1S. The relatively little change in unconsolidated deposits water levels during the short duration of the 30-day pumping period can be attributed primarily to storage effects in the unconsolidated deposits, which would have been significant given the large amount of precipitation that occurred between April 20 and April 30, 1991.

Drawdown in bedrock during the 30-day pilot test was significant with up to 51 feet of water level decline in UC22 and up to 30 feet of water level decline in observation well UC9-2. Figure 23 presents water levels in shallow bedrock on day 30 of pumping as presented by EPC (1991). Figure 23 depicts a well-developed zone of capture beneath the UniFirst property, extending south to at least Dewey Avenue. Figure 23 also illustrates that shallow bedrock groundwater from the Grace property was flowing towards the hydraulic depression created by pumping from UC22.

Figure 24 presents contours of drawdown on day 30 of pumping from the most responsive deep bedrock wells as presented by EPC (1991). The drawdown values presented on Figure 24 are 1 foot less than actual measured water level decline to account for the observed regional decline in water levels that occurred during the 30-day pumping period. Figure 24 depicts a well-developed zone of drawdown in deep bedrock that extends beneath the Grace property to the east, to the New England Plastics property to the south, and towards UC14 located west of the UniFirst property. Although there are no drawdown data available to the north of the UniFirst property, the pattern of drawdown illustrated in Figure 24 suggests that some degree of anisotropy may exist in deep bedrock reflecting higher permeability in the north – south direction than in the east – west direction. This anisotropy would not be detrimental to capture

since the elongated direction of drawdown is perpendicular to the regional flow direction (generally east to west) in bedrock. In addition, outwash deposits sit directly on bedrock west of the UniFirst property, providing a large amount of recharge to bedrock. This recharge boundary would have supplied more water to bedrock than directions north and south of the UniFirst property, thereby enhancing the elliptical pattern of the zone of drawdown. It should also be noted that this elliptical zone of drawdown does not correspond to a preferential north – south flow direction under non-pumping conditions (i.e., pre-1992).

Figure 25 presents water levels in deep bedrock on day 30 of pumping as presented by EPC (1991). Figure 25 depicts a hydraulic sink created beneath and south of the UniFirst property in response to pumping from UC22. The zone of capture associated with this pumping extends off of the UniFirst property in all directions and extends beneath the Grace property. Figure 26 presents the same data as Figure 25, but also an interpreted outline of the UC22 capture zone after 30 days of pumping (heavy black line and stippled area).

The results of the 30-day pilot test provided the basis for designing the coordinated long-term groundwater extraction systems at both the UniFirst and Grace properties. The 30-day pilot test also demonstrated that a design pumping rate of 50 gpm from UC22 would be more than adequate to meet the groundwater remedial objective of maintaining capture of VOCs and preventing off-property migration of contaminated groundwater from the UniFirst property. It was anticipated that the pumping rate of UC22 would vary, but would not need to exceed 50 gpm, and it was noted that the UC22 pumping system could be controlled by the water level in the pumping well rather than a constant flow rate, since ambient water level elevations would fluctuate over time (EPC, 1991). Figure 27 presents a schematic illustration of the design concept of the coordinated groundwater remedies for the UniFirst and Grace properties. Operation of two pumping systems (UniFirst and Grace) is beneficial to capture given the fact that drawdown is additive. Because groundwater is being captured by the Grace system, the UC22 system creates a wider zone of capture to maintain the extraction rate. This ‘shadow effect’ is commonly relied upon in pumping systems where extraction wells are aligned in the direction of regional groundwater flow. Extracting from the full open interval of UC22 also

precludes flow bypassing and promotes connectivity of groundwater flow within the fracture network.

As EPA acknowledged in the ROD, the RDIRFD (EPC, 1991) also acknowledged that the selected groundwater remedy (and any other known technology) was not capable of extracting DNAPL from bedrock fractures. Rather, it was expected that the continuous dissolution of the DNAPL into groundwater within the UC22 capture zone would result in a continuous depletion of contaminant mass with time, eventually resulting in decreasing contaminant concentrations in groundwater.

Characterization of the influent water quality for the purposes of treatment system design was included in the pre-design studies. The original design-specified treatment of the water by ultra-violet oxidation (UV/OX) followed by a carbon treatment polish before discharge. In 2003, UniFirst sought and received EPA approval (EPA, 2003a) to remove the UV/OX system and rely on a series of carbon vessels to completely treat the water prior to discharge.

System Operation

The groundwater recovery system on the UniFirst property began operation on September 30, 1992 and has been in continuous operation, except for some downtime associated with system maintenance or repairs, or changes to the treatment system process. The groundwater recovery system has operated at an average water level in UC22 of 18.8 feet NGVD and an average pumping rate of 39.9 gpm since inception. The average pumping rate is based on the assumption that the system was operational 100 per cent of the time. Operations have been nearly continuous, and the small amount of down-time not included in the calculation of average pumping rate would serve to increase the average operating pumping rate. Total flow through the system during 18 years of operation is approximately 378 million gallons. Table 4 provides a summary of the average annual flow rate and amount of mass removed during the 18 years of system operation.

Table 4 – Summary of Water Pumped and VOC Mass Removed by the UniFirst Property Treatment System

Year	Average Flow Rate (gpm))	Average Yearly Influent Total VOC Concentration (µg/L)	Estimated VOCs Removed	
			Pounds	Gallons
1	46.2	1504.3	351.1	26.0
2	42.8	1645.9	317.2	23.4
3	42.9	1087.3	234.6	17.3
4	43.0	781.3	181.2	13.4
5	41.3	830.4	149.7	11.1
6	39.8	734.2	131.1	9.7
7	38.0	813.3	139.0	10.3
8	38.1	653.8	110.6	8.2
9	38.3	703.5	119.0	8.8
10	36.8	478.7	79.0	5.9
11	42.9	412.2	77.9	5.8
12	38.6	418.2	72.9	5.4
13	35.5	349.0	55.9	4.1
14	32.0	297.5	42.7	3.2
15	35.5	264.5	42.7	3.2
16	40.5	245.7	44.6	3.3
17	40.2	209.2	37.5	2.8
18	46.5	179.8	38.2	2.8
		Total	2224.9	164.7

VOC concentrations in the influent water to the UniFirst treatment system have decreased since the system began operation in September 1992. Figure 28 presents a plot of PCE concentration versus time in the influent water to the treatment system. Early concentrations of PCE were as high as 2900 µg/L (January, 1993) and have been steadily decreasing to current day values of approximately 200 µg/L. Figure 29 presents a plot of TCE concentration versus time in the influent water to the treatment system. Early concentrations of TCE were as high as 130 µg/L (November, 1992) and have been steadily decreasing to current-day values of approximately 10 µg/L.

The exponential decline of VOC concentration versus time depicted in Figures 28 and 29 is typical of pump-and-treat systems that are successfully containing DNAPL sources and bringing about plume capture. The decline in concentration stems from both a depletion in DNAPL mass and a contraction in the size of the plume. As the plume contracts, increasing amounts of clean water are drawn into the capture zone, leading to dilution and a lowering of the influent concentrations. The observed tailing of concentrations over time is entirely consistent with design expectations, stemming from the persistent presence of DNAPL within the zone of capture of the UC22 extraction system.

Figure 30 presents a plot of the cumulative mass of PCE and TCE removed by the UC22 extraction system. Through September 2010, the extraction system is estimated to have removed 2,107 pounds of PCE and 103 pounds of TCE. Lesser quantities of other constituents such as 1,1,1-trichloroethane (6.4 pounds) and DCE (4.9 pounds) are estimated to have been removed as well. Annual recovery of PCE was estimated to be approximately 350 pounds in 1992 and approximately 27 pounds in 2010.

Figure 31 presents a plot of the cumulative volume of groundwater recovered by the UC22 extraction system since beginning of operations in 1992, and a plot of average annual flowrate versus time. A total of approximately 378 million gallons of groundwater have been recovered through September 2010. The average annual flowrate ranged from 32 gpm in the year ending October 2006 to 46.5 gpm in the year ending September 2010. Figure 32 presents a plot of the

available daily water level and extraction rate data for UC22 for the period 2000 through 2010. The figure demonstrates that higher rates of extraction result in lower water level, but it should be noted that this relationship is also influenced by precipitation events. The water level elevation in UC22 has been as low as approximately 15 feet NGVD in 2010. This represents a drawdown in UC22 of approximately 55 feet, which is substantial and leads to the large zone of capture reflected by water level elevation data from bedrock wells throughout the Northeast Quadrant.

An estimate of the capture zone area can be arrived at by dividing the average system extraction rate (39.9 gpm average over 18 years) by the amount of annual recharge to the watertable. Adopting an annual recharge (reaching the watertable following evapotranspiration) of 0.5 feet/year, the estimated steady-state capture zone area is approximately 5.6 million ft^2. This represents an area approximately 43 times as large as the UniFirst property footprint. This calculation demonstrates that the UniFirst extraction system is satisfying the objective of preventing off-property migration of contaminated groundwater. This calculation also suggests that an average system extraction rate of approximately 39.9 gpm is appropriate and can offset annual recharge rates (over the footprint of the UniFirst property) as high as approximately 21.5 feet/year. It is clear from Figure 24 that the zone of UC22 drawdown extends well beyond the boundaries of the UniFirst property. If it is assumed that the zone of drawdown depicted on Figure 24 extends north of the UniFirst property as far as it does to the south, then the area encompassed by the 1 foot drawdown contour is approximately 7.2 million ft^2. The calculated estimated capture zone area of 5.6 million ft^2 represents approximately 77% of this area within the zone of 1 foot of drawdown.

The above discussion assumes that the bedrock flow system is recharged from unconsolidated deposits. Evidence supporting the assumption that the bedrock flow system is recharged by unconsolidated deposits includes (i) the drawdown – time plot associated with the UC22 72-hour pumping test exhibited delayed yield, which is characteristic of unconfined flow systems (i.e., leakage occurs from unconsolidated deposits to bedrock), (ii) the boring logs from the study area report numerous occurrences of shallow weathered bedrock and high angle

fractures (Appendix B), (iii) unconsolidated deposits at the eastern end of the UniFirst property has become dewatered in response to UC22 pumping, (iv) unconsolidated deposits and bedrock wells have been observed to respond similarly to precipitation events (e.g., G7S and G7D located on the Grace property as reported in EPC [1991]), and (v) portions of the unconsolidated deposits on the Grace property have been dewatered as a result of the combined pumping of the Grace and UniFirst recovery wells. If the bedrock flow system were not recharged by unconsolidated deposits, then the UC22 capture zone would be significantly larger than the estimated 5.6 million ft^2. Assuming that the bedrock flow system is recharged by unconsolidated deposits provides a conservative estimate of the areal extent of capture in bedrock

3.3 – Hydraulic Head and Gradient Distributions

3.3.1 – Grace

The following summary of groundwater flow conditions prior to operation of the coordinated groundwater remedy is presented to provide a basis for evaluating the effects of remedy operation on groundwater flow at the Grace property. The RDIRFD (EPC, 1991) provides the most comprehensive description of groundwater flow conditions prior to the September 30, 1992 initiation of groundwater remedies at the Grace and UniFirst properties. The data presented in the RDIRFD were collected prior to and during the 30-day pilot test. Figures 2.2-1 and 2.2-2 of the RDIRFD, which are water level elevation maps of the unconsolidated deposits and shallow bedrock prior to September 1992, are reproduced herein as Figures 33 and 34. These figures are representative of groundwater flow conditions prior to operation of the groundwater remedies at the UniFirst and Grace properties.

There are several general observations regarding pre-remedy implementation groundwater flow to be made. The first general observation is that for both unconsolidated deposits and the shallow bedrock the water level elevation contours are aligned in a general northwest to southeast direction at and near the western portion of the Grace property, thereby indicating a

generally south-westerly hydraulic gradient. The second general observation is that groundwater levels measured in unconsolidated deposits and bedrock wells are lowest in the southwestern portion of the Grace property and generally increase in elevation in a northerly direction along the western property boundary, and increase in an easterly direction along the southern property boundary. The third general observation is that along the alignment of well clusters at the western and southern property boundaries, between the G1 well cluster and the G11 well cluster, there are generally downward hydraulic gradients. Unconsolidated deposits water levels generally ranged from 72 feet NGVD to 76 feet NGVD, and shallow bedrock water level elevations generally ranged from 72 feet NGVD to 75 feet NGVD. The difference in water elevations between unconsolidated deposits wells and shallow bedrock wells at the same well cluster ranged from near zero to about 2.5 feet.

A conceptual representation of the general effects on groundwater flow conditions at the Grace property in response to the operation of the Grace and UniFirst extraction systems is illustrated by Figure 35. This figure illustrates the water level hydrographs for each of the four wells in the G36 well cluster measured during the 1991 30-day pilot test. The G36 well cluster is located at the western edge of the Grace property, approximately 15 feet north of, and 10 feet west of, Grace recovery well RW7. The upper well in the well cluster (G36S) is screened in both the unconsolidated deposits and upper bedrock. The other three wells in the cluster are bedrock wells. The figure indicates the depths of the respective wells. The testing was done in April and May 1991. There were only ten extraction wells on the Grace property at the time of the test, and four of them (RW7 through RW10) were located near the western property boundary. A more-detailed description of the 1991 30-day pilot test is provided in the RDIRFD (EPC, 1991) and is summarized herein.

Having recognized through preliminary testing that the remedial actions for groundwater at the UniFirst and Grace properties could be hydraulically connected, and therefore would be better executed if such actions were coordinated to take advantage of the principal of hydrologic superposition, a 30-day pumping test was designed and implemented. Pilot testing of proposed treatment technologies for each of the two properties was also done during this 30-day

pumping period. Hence, the terms 30-day pumping test and 30-day pilot test are synonymous in the context of this report. The basic pumping sequence to be followed was continuous pumping of UniFirst well UC22 for 30 days with a shorter period of pumping 10 recovery wells on the Grace property. UniFirst well UC22 is a 190-foot deep bedrock extraction well. During the first 10 days of UC22 pumping there was no pumping of the Grace wells. During days 11-20 of UC22 pumping, the 10 Grace recovery wells (RW1 through RW10) were pumped. During days 21-30 of UC22 pumping, the 10 Grace recovery wells did not pump.

Figure 35 demonstrates the observed hydraulic effects of the coordinated Grace and UniFirst extraction systems. During the period April 25 through April 29 no wells were pumping, and the measured water levels represent non-pumping conditions. UniFirst well UC22 began pumping at 50 gallons per minute on April 30. As can be seen on Figure 35, there was an almost instantaneous water level decline in the bottom three bedrock wells in the G36 cluster. The magnitude of water level decline due to pumping UC22 was greatest in the deepest bedrock well and progressively less in the shallower bedrock wells. After 10 days of pumping UC22 (May 10) the water level declines in the G36 cluster wells were approximately 15 feet in well G36DB2, 5.5 feet in G36DB, 3 feet in G36D, and less than 1 foot in G36S. On May 10, the 10 Grace recovery wells were turned on, and UC22 continued to pump at 50 gpm. The water level hydrographs show that there was an almost instantaneous decline in water levels in the three shallowest wells in the cluster and no noticeable response in the deepest bedrock well. Water level declines during the 10 days that the Grace wells were pumping in conjunction with UC22 pumping were approximately 3.5 feet in wells G36S and G36D, 2.5 feet in G36DB and 1 foot in G36DB2. The water level decline in G36DB2 did not appear to be related to pumping the Grace wells, but rather represented the continuing regional water level decline in response to UC22 pumping. After the Grace wells were shut off on May 20, there was an almost instantaneous rise in water levels in the three shallowest wells in the cluster, and no noticeable change in the water level in the deepest bedrock well (G36DB2). Following the initial water level rise in response to shutdown of the Grace wells, the water levels in G36D, G36DB and G36DB2 continued to decline in response to UC22 pumping while water levels in G36S continued to rise

for approximately five days. When UC22 was shutdown on May 30, 1991 water levels increased instantaneously by approximately the same magnitude as the drawdown observed on the first day of UC22 pumping.

The observations made during the 30-day pilot test validated the conceptual model for the coordinated groundwater remedies design. That is:

- Pumping effects of UniFirst well UC22 would extend beneath the Grace property, be greatest in the deeper bedrock, and would extend upward to the shallow bedrock and the unconsolidated deposits, as well.
- Pumping effects of Grace recovery wells screened in the unconsolidated deposits and shallow bedrock would have a significant effect in the unconsolidated deposits and shallow bedrock, and the vertical zone of influence of the Grace recovery wells would extend a substantial distance below the bottom of the recovery wells. The bottom of the screened interval of G36DB is approximately 30 feet below the bottom of recovery well RW7.

Based on the 30-day pilot test results, a final design of the coordinated groundwater extraction systems for the UniFirst and Grace properties was prepared, approved by EPA, and constructed. The final design included 12 additional extraction wells on the Grace property. Two additional wells (RW11 and RW12) were installed along Washington Street. Nine additional wells (RW13 through RW21) were installed along the southern edge of the Grace property. These eleven wells were screened in the unconsolidated deposits and bedrock. One large-diameter caisson-type well (RW22) was installed in the unconsolidated deposits at the northern edge of the main manufacturing building. As described previously, recovery well RW22 was deepened in 2010, and now extends to approximately 20 feet below the bedrock surface. The coordinated groundwater remedies have been operating successfully for more than 18 years.

To evaluate the long-term combined hydraulic effects of the constructed coordinated groundwater remedies for the Grace and UniFirst properties, on groundwater flow beneath the Grace property, water level measurements have been collected in accordance with the

applicable Long-Term Monitoring Plan from recovery and monitoring wells and one stream gauge at Snyder Creek on the Grace property since the coordinated groundwater remedies began operating in September 1992. These water level elevation data were used to prepare water level elevation contour maps and hydrogeologic sections of the Grace property at least annually. Water levels in recovery wells were also measured monthly to monitor operation of the well pumps.

A watertable contour map and a water level elevation contour map of the upper bedrock were prepared using the water level data collected on September 13, 2010 (Figures 36 and 37). All existing recovery wells (RW7 through RW22) were operating at the time the water level data were collected. The estimated lateral extent of the unconsolidated deposits and shallow bedrock September 2010 capture zone of the Grace property recovery wells is shown on the respective figures. The recovery wells in Areas 2 and 3 were designed to lower the groundwater level to a depth of 2.5 feet below the bedrock surface. Recovery wells in Areas 2 and 3 have generally dewatered the unconsolidated deposits and lowered the water table below the bedrock surface in the vicinity of the recovery wells located along the western and southern boundaries of the Grace property. The portion of the Grace property where the water table was located below the bedrock surface on the Grace property in September 2010 is shown on Figure 10.

The water level elevation contours on Figures 36 and 37 show the influence of the recovery wells within each recovery well area. Recovery wells in Areas 2 and 3, which are located along the western and southern property boundaries, have established a combined hydraulic capture zone that is preventing contaminated groundwater from flowing off the Grace property through the unconsolidated deposits and shallow bedrock. Since 1991, the year before the extraction and treatment system began operating, significant decreases in VOC concentrations in samples from the unconsolidated deposits and shallow bedrock monitoring wells located west of Area 2 and south of Area 3 recovery wells, such as monitoring wells G3S, G3D, G11D, G12S, G12D, G36S, and G36D, further confirm that these recovery wells are preventing contaminated groundwater from flowing off the Grace property through the unconsolidated

deposits and shallow bedrock. Concentration trend plots for these monitoring wells are included in Appendix F.

Three hydrogeologic cross sections were prepared to illustrate water level elevations and estimated capture zones in, or near, the Grace property recovery wells. The locations of the hydrogeologic sections are shown on Figure 38, and the sections are shown on Figures 39, 40 and 41.

Figure 39 is a north-south oriented water level elevation section that extends from the G1 well cluster to the approximate location of the G38 well cluster. This figure shows the estimated capture zone of the Area 2 recovery wells, which are located along the western boundary of the Grace property. The estimated depth of the capture zone is based on water level data from the monitoring and recovery wells. As shown on Figure 39, the capture zone extends below the bottom of the recovery and shallow bedrock monitoring wells and meets the remedial design objective to capture contaminated groundwater in the unconsolidated deposits and shallow bedrock at the western property boundary of the Grace property The hachured 50-foot water level elevation contours illustrate that the hydraulic effect of pumping from UniFirst well UC22 extends beneath the Grace property. Water level measurements made during the pre-design pilot testing of the coordinated UniFirst and Grace groundwater remedies demonstrated that there was an almost instantaneous water level decline in wells G1DB2, G36DB, and G36DB2 in response to pumping from UC22. In addition, the water level in G1DB2 declined more than 20 feet in response to pumping UC22 during the 30-day pilot test. At the G36 well cluster the water level in G36DB declined approximately 8 feet, and the water level in G36DB2 declined approximately 20 feet in response to pumping UC22 during the 30-day pilot test (see Figure 35). Groundwater beneath the capture zone of the Grace recovery system flows toward, and is recovered by, UniFirst bedrock extraction well UC22. UC22 has continuously recovered groundwater that is beneath the depth of the capture zone of the Grace recovery system since shortly after UC22 began pumping in September 1992.

Figure 40 is an east-west oriented water level elevation section that extends from recovery well RW13 on the west to the G24 well cluster on the east. This figure shows the estimated capture zone of the Area 3 recovery wells, which are located along the southern boundary of the Grace property. The estimated depth of the capture zone is based on water level data from the monitoring and recovery wells. As shown on the figure, the capture zone is located below the bottom of the recovery and the shallow bedrock monitoring wells and meets the remedial design objective to capture contaminated groundwater in the unconsolidated deposits and shallow bedrock at the southern property boundary of the Grace property.

Figure 41 is a northwest-southeast oriented water level elevation section that extends from the G1 well cluster on the northwest to the G17 well cluster on the southeast. The line of section passes through the area of recovery well RW22, which at the time of the water level measurements had been extended approximately 20 feet into the bedrock. This figure also illustrates that the hydraulic effect of pumping UniFirst well UC22 extends to the groundwater beneath the Grace property. As discussed previously, pumping from UniFirst well UC22 has caused substantial drawdown in well G1DB2.

Since operation of the Grace and UniFirst groundwater extraction systems began, water levels in the western portion of the Grace property, near the Grace recovery wells where water levels are affected by both Grace and UniFirst pumping, have declined approximately five to 13 feet in the shallow bedrock. This is demonstrated by water level hydrographs for shallow bedrock monitoring wells G3D, G11D, G12D, G22D, G23D, and G36D. Long-term hydrographs for these wells are included as Figures 42, 43, 44, 45, 46, and 47. The unconsolidated deposits beneath parts of the Grace property near Grace recovery wells RW7 to RW21 have been dewatered due to the pumping.

3.3.2 – UniFirst

HPS (2010) and prior annual reports summarizing groundwater extraction, treatment, monitoring and capture system performance for the UniFirst groundwater extraction system

present vertical cross section water level elevation figures to assess groundwater capture associated with that system. Figure 48 illustrates the locations of various cross sections for which water level elevation contour plots were prepared on the basis of water level measurements obtained in September 2010. The figure also illustrates the projected maximum lateral extent of equal water level elevation contours based on the September 2010 water level elevation contours for the cross sections. The vertical cross section water level elevation figures presented here are similar to those presented in earlier annual reports (e.g., 2003 through 2009). The use of water level elevation contour plots to assist in delineating and assessing capture associated with pump-and-treat systems is suggested by EPA (2008).

Figure 49 presents contoured water level elevations along cross section C-C' oriented north-northeast to south-southwest and running just west of extraction well UC22. The water level data demonstrate that groundwater beneath the bottom of UC22 is flowing upwards towards the extraction well, providing capture to approximately 280 feet bgs based on the available data. Figure 49 illustrates that groundwater is flowing laterally towards UC22 from both directions (left and right on the cross section) at significant depths. Water levels in unconsolidated deposits on the UniFirst property that have not been dewatered by pumping at extraction well UC22 are higher than those in bedrock, indicating a downward component of flow into bedrock. The magnitude of the vertical component of the hydraulic gradient between monitoring point UC7A-5 (head 67.65 feet) located at the base of unconsolidated deposits and monitoring point UC7A-4 (head 49.39 feet) located 24.5 feet below the top of bedrock is 0.73. This far exceeds the magnitude of the horizontal component of the hydraulic gradient in unconsolidated deposits or shallow bedrock beneath and in the vicinity of the UniFirst property with the exception of the eastern end of the property, where flow converges quickly towards UC22. These differences between vertical and horizontal hydraulic gradients indicate that (i) on and near the UniFirst property, the groundwater flow direction is strongly influenced by the vertical component of the hydraulic gradient created by pumping at bedrock extraction well UC22, and (ii) the direction of flow from one point to another occurs in three dimensions and cannot be determined solely by comparison of water levels in a row of wells screened at similar

elevations. Water levels are higher in unconsolidated deposits than in bedrock to approximately the location of monitoring well S63 located south of Dewey Avenue. Along section C-C', it is likely that the capture zone in shallow and deep bedrock extends to approximately the location of monitoring well S63.

Figure 50 presents contoured water level elevations along cross section D-D' oriented north to south and running through the location of extraction well UC22. The water level data demonstrate that groundwater beneath the bottom of UC22 is flowing upwards towards the extraction well, providing capture as deep as approximately 280 feet bgs. Figure 50 illustrates that groundwater is flowing laterally towards UC22 from both directions (left and right on the cross section) at significant depths. Water levels in unconsolidated deposits are higher than those in bedrock along the entire section, indicating a downward component of flow into bedrock. It can be concluded that the entire area encompassed by Figure 50 is within the UC22 capture zone. Again, considering water levels solely along a line of monitoring wells at similar elevation within this area would not provide an accurate depiction of either the direction of groundwater flow or the zone of capture. For example, the horizontal component of the hydraulic gradient between monitoring wells UC8 and UC4 may be to the south, but the vertical component of the hydraulic gradient in the vicinity of these wells is strongly downward. The net flow direction (vector sum of gradient components) is essentially downwards with ultimate flow to the north into UC22.

Figure 51 presents contoured water level elevations along cross section F-F' oriented north to south along the western end of the Grace site. The 50 foot NGVD water level elevation contour in bedrock outlines a zone of lower hydraulic head indicating flow to the west – northwest towards extraction well UC22 located on the UniFirst property. This demonstrates that VOCs in bedrock beneath the Grace property are within the capture zone of the UC22 extraction system. Water levels in unconsolidated deposits are higher than those in bedrock along the entire section, indicating a downward component of flow into bedrock. It should be noted that section F-F' is located approximately 450 feet upgradient (east) of extraction well UC22, which exhibits a water level elevation of 7.23 feet NGVD. Any interpretation of flow directions arrived

at upon inspection of Figure 51 must consider the distribution of hydraulic gradients in/out of the plane of the section (i.e., the flow system is three-dimensional).

Figure 52 presents contoured water level elevations along cross section I-I' oriented west to east along the northern portions of the UniFirst and Grace properties, and running through the location of extraction well UC22. Figure 52 illustrates that groundwater is flowing up into UC22 from depth, as well as laterally from the east and from the west. Water levels in unconsolidated deposits are higher than those in bedrock from the western end of the section to a location east of monitoring point G8S, indicating a strong downward component of flow into bedrock. Although there is a horizontal component of the hydraulic gradient to the west from well UC19S to well UC10S, there is a vertical component of the hydraulic gradient in the vicinity of these wells that is strongly downwards indicating flow from unconsolidated deposits into bedrock and ultimately into UC22. Again, it should be recognized that the flow system is three-dimensional and that to accurately assess groundwater flow directions individual well pairs should not be looked at in isolation from surrounding wells at other elevations. Monitoring point G1DB3 appears to present an anomalous water level (93.59 feet NGVD), but this value is consistent with previous measurements at this location dating back to September, 1992. Monitoring well G1DB3 has a short open interval (5 feet), and is a flush mount well located in a low spot on the Grace property that frequently collects water. The relatively high water level in this well may represent a connection to high angle fractures extending up to the top of bedrock or periodic flooding of the well due to surface water infiltration. The high water level at G1DB3 does not demonstrate that it is not within the UC22 capture zone, however, since the well is surrounded by areas of lower water level.

Figure 53 presents contoured water level elevations along cross section L-L' oriented northeast to southwest running through the Grace property and toward the Aberjona River valley. The section line passes approximately 600 feet south of extraction well UC22. Figure 53 illustrates a hydraulic low at monitoring well GO1DB (32.96 feet NGVD) attributable to pumping at UC22, which is located approximately 750 feet to the north. Figure 53 depicts a downward component of flow from unconsolidated deposits to bedrock, again attributable to pumping at

UC22. It should be noted, however, that downward gradients also existed from the unconsolidated deposits to bedrock in the higher topographic regions of the Northeast Quadrant prior to pumping at UC22. The effect of UC22 pumping was to increase the downward gradients where they already existed, and to reverse the gradient direction in some areas west of UC22.

Figure 54 presents contoured water level elevations along cross section P-P' oriented east-northeast to west-southwest through UC22 and the UniFirst property, extending to the west. As depicted in Figure 48, section line P-P' is hinged at the location of monitoring well UC6 located on the southwest corner of the UniFirst property. Figure 54 depicts strong lateral and vertical hydraulic gradients toward extraction well UC22 beneath the UniFirst property. The direction of groundwater flow in the ablation till and lodgement till is primarily downwards, consistent with the fact that these are relatively lower permeability deposits being under-drained by pumping in bedrock. These data are consistent with interconnected unconsolidated deposits and bedrock beneath the UniFirst property allowing downward flow of unconsolidated deposits groundwater to extraction well UC22. Flowlines and equipotentials will refract in the vicinity of permeability contrasts, creating primarily vertical flow in the lower permeability unit (Freeze and Cherry, 1979). Flow in the outwash sands and gravels to the west of 21 Olympia Avenue is likely to the west.

Plan view depictions of water level elevation contours for the September 2010 monitoring event for unconsolidated deposits, the upper 100-feet of bedrock and deep bedrock are presented in Figures 10, 12 and 14 (discussed in Section 2.3 of this report), respectively. Considering the vertical cross sections discussed here in conjunction with the contours presented in Figures 10, 12 and 14, the following can be concluded with respect to the UC22 zone of influence and capture beneath and in the vicinity of the UniFirst property:

- Unconsolidated deposits groundwater on the UniFirst property flows down into bedrock where it is subsequently captured by the UC22 extraction well. Capture is created on and near the UniFirst property, as specified in the ROD and SOW. The vertical

component of flow (depicted on cross sections) is stronger than the horizontal component of flow (see discussion in previous sections of this report). The downward flow of groundwater into bedrock is facilitated by the fact that the ablation and lodgement tills are relatively low permeability materials, thereby facilitating downward refraction of flowlines. The dominance of downward flow in fine grained, unconfined unconsolidated deposits is well established (Freeze and Cherry, 1979). It is likely that a flow divide exists in the unconsolidated deposits just west of the 21 Olympia Avenue property where the outwash sands become dominant. Groundwater east of the divide flows vertically downward from unconsolidated deposits to bedrock and then horizontally towards UC22 and is captured, while groundwater west of the divide flows towards the Aberjona River.

- Groundwater within the upper 100 feet of bedrock on the UniFirst property and from off-property is captured by the UC22 extraction well. Figure 12 depicts two zones of lower hydraulic head on the UniFirst property. The appearance of two zones of lower hydraulic head is an artifact of constructing a flownet using wells screened at various elevations within the upper 100 feet of bedrock (as discussed in Section 2.3). Groundwater within the upper 100 feet of bedrock on the UniFirst property and from off-property is being captured by the UC22 extraction well. The extent of capture in the upper 100-feet of bedrock likely extends to beneath the 21 Olympia Avenue building.
- Deep bedrock groundwater on the UniFirst property is being captured by the UC22 extraction well. Figure 14 depicts a large zone of influence and drawdown extending well beyond the UniFirst property. For many of the deeper bedrock wells (e.g. UC15D, UC10-2, G1DB2, G36DB2, UC11 well cluster, UG1 well cluster), the 2010 (and prior years') water levels are significantly lower than prior to pumping UC22. Those water level declines are due primarily to pumping from UC22. The bedrock capture zone created by UC22 extends upgradient beneath the Grace property, and extends to depths of approximately 300 feet bgs. The deep bedrock capture zone likely extends in the downgradient direction to the western side of the 21 Olympia Avenue building.

3.4 - Contaminant Distribution in Groundwater

To respond to EPA's questions concerning the effect of the groundwater extraction systems on concentrations of VOCs over time, a comprehensive evaluation was undertaken of VOC concentration data acquired from unconsolidated deposits and bedrock monitoring wells within the Site area since the first detection of VOCs in wells G and H in 1979. Appendix E presents a summary of well construction details including well location, screen elevation, type of well, and installation date. Appendix F presents VOC concentration data tables and PCE and TCE concentration versus time plots for all wells of interest in the Northeast Quadrant.

3.4.1 - Unconsolidated deposits

Figure 55 presents the distribution of PCE in unconsolidated deposits groundwater based on sample results obtained prior to initiation of the Grace and UniFirst extraction system pumping on September 30, 1992. If a monitoring well had been sampled more than once prior to initiation of the extraction systems, the maximum sample concentration value was selected for plotting. Figure 55 illustrates that the highest PCE concentrations on the UniFirst property in unconsolidated deposits groundwater were south of the current storage building, at 2,200 µg/L at monitoring location UC6. The highest concentration of PCE on the Grace property prior to pumping was approximately 85 µg/L at monitoring location G19S, which is located near Grace recovery well RW22.

Figure 56 illustrates the distribution of PCE in unconsolidated deposits groundwater based on sample results obtained during 2010. If a well had been sampled more than once during 2010, the most recent sample concentration was selected for plotting. Comparison of Figures 55 and 56 demonstrates that PCE concentrations in unconsolidated deposits groundwater at both the UniFirst and Grace properties have declined since groundwater extraction was initiated. Figure 57 presents the most recent concentrations of PCE measured in unconsolidated deposits groundwater for the 1992 to 2009 time period. This figure supplements Figures 55 and 56 in that it includes results from wells that may not have been sampled prior to 1992 or in 2010.

Appendix F contains VOC concentration versus time plots for individual wells that can be used to further assess PCE concentration trends in unconsolidated deposits groundwater.

Table 5 provides a summary of the unconsolidated deposits PCE concentration trend plots presented in Appendix F for wells where 2010 and earlier sample results are available. Appendix F also contains additional plots presenting concentration versus time data for wells not sampled in 2010. The trends listed in Table 5 are based on visual inspection of the concentration versus time plots. All of the wells listed in Table 5 display either concentrations decreasing with time, or non-detectable PCE concentrations. The PCE concentration trends indicate that unconsolidated deposits groundwater on the UniFirst and Grace properties is being captured by the UC22 extraction system.

Table 5 – Summary of PCE Concentration Trends in Unconsolidated Deposits Groundwater

Well ID	Trend
S63S	Decreasing to ND (1) µg/L in 2010
S70S	Decreasing to < 1 µg/L in 2010
S81M	Decreasing to < 100 µg/L in 2010
UC10D	ND (1) µg/L 1997 through 2010
UC10M	ND (1) µg/L 1993 through 2010
UC10S	ND (1) µg/L 1997 through 2010
UC19M	Decreasing to ND (1) µg/L in 2010
S21	Decreasing to < 1 µg/L in 2010
UC25	Decreasing to 160 µg/L in 2010
UC26S	Decreasing to 21(J) µg/L in 2010
UC29S	Decreasing to 160 µg/L in 2010
UC31S	Decreasing to ND (0.39) µg/L in 2010
UC6	Decreasing to 39 µg/L in 2010
UC6S	Decreasing to 15(J) µg/L in 2010
G1S	ND (0.5-10) µg/L since 1983
G12S	<5 µg/L since 1991
G19S	<5 µg/L since 1994
G19M	<5 µg/L since at least 2005
G20S	<5 µg/L since 1994
G21S	<5 µg/L since 1985

G22S	Decreasing to <1 µg/L since 2005
G23S	ND (1-5) µg/L prior to 1991; < 1 µg/L since 1998
G24S	<1 µg/L since 1985
G28S	Decrease to <1 µg/L by 2005
G29S	<1 µg/l since at least 2007
G36S	ND or <1 µg/L since 1993

Figure 58 presents the distribution of TCE in unconsolidated deposits groundwater based on sample results obtained prior to initiation of the Grace and UniFirst extraction systems in 1992. If a monitoring well was sampled more than once prior to initiation of the extraction systems, the maximum sample concentration value was selected for plotting. Figure 58 illustrates that the highest TCE sample concentrations on the UniFirst property in unconsolidated deposits groundwater was south of the current storage building at locations UC6 (30 µg/L) and S71S (28 µg/L). The highest sample concentration of TCE on the Grace property prior to pumping was approximately 8,340 µg/L at monitoring location G19S.

Figure 59 illustrates the distribution of TCE in unconsolidated deposits groundwater based on sample results obtained during 2010. If a well was sampled more than once during this time period, the most recent sample concentration was selected for plotting. Comparison of Figures 58 and 59 demonstrates that TCE concentrations in unconsolidated deposits groundwater at both the UniFirst and Grace properties have declined significantly since groundwater extraction was initiated. Figure 60 presents the most recent concentration of TCE reported for unconsolidated deposits groundwater for the 1992 to 2009 time period. This figure supplements Figures 58 and 59 in that it includes results from wells that may not have been sampled prior to 1992 or during 2010. Appendix F contains VOC concentration versus time plots for individual wells that can be used to further assess TCE concentration trends in unconsolidated deposits groundwater.

Table 6 provides a summary of the unconsolidated deposits TCE concentration trend plots presented in Appendix F for wells where 2010 and earlier sample data are available. All of the

wells listed in Table 6 display either decreasing concentrations, or non-detect levels of TCE. The TCE concentration trends indicate that unconsolidated deposits groundwater on the UniFirst and Grace properties is being captured by the extraction systems.

Table 6 – Summary of TCE Concentration Trends in Unconsolidated Deposits Groundwater

Well ID	Trend
S63S	Decreasing to ND (1) µg/L in 2010
S81M	Decreasing to < 5 µg/L in 2010
UC10D	ND (1) µg/L 1997 through 2010
UC10M	ND (1) µg/L 1997 through 2010
UC10S	ND (1) µg/L 1997 through 2010
UC19M	Decreasing to ND (1)µg/L in 2010
UC6	Decreasing to 9 µg/L in 2010
S21	Decreasing to ND (1) µg/L in 2010
S70S	Decreasing to ND (1) µg/L in 2010
UC25	Decreasing to < 1 µg/L in 2010
UC26S	ND (1) µg/L
UC29S	Decreasing to 1 µg/L in 2010
UC31S	ND (1) µg/L in 2010
UC6S	ND (1) µg/L in 2010
G1S	ND(1)µg/L since 1985
G12S	Continual decrease from 1984 to <5 µg/L by 1994
G19S	Continual decrease from 1985 to <5 µg/L by 2004
G19M	Increase 1985-1994; Decreasing 2005-2010 to 220 µg/L
G20S	Decreasing from 1987 to 2010 to 26 µg/L
G21S	ND (5) µg/L since 1985
G22S	Decreasing to <5 µg/L by 2005
G23S	Decreased to <1 µg/L by 1998
G24S	Decreasing to 5 µg/L by 2010
G28S	Decreasing to <5 µg/L by 2009
G29S	Decreasing to <5 µg/L by 2007
G36S	Decreasing to ND(2) µg/L by 1998

3.4.2 – Upper 100 Feet of Bedrock

Figure 61 presents the distribution of PCE in groundwater samples collected from the upper 100 feet of bedrock prior to initiation of the Grace and UniFirst extraction systems in 1992. If a monitoring well was sampled more than once prior to initiation of the extraction systems, the maximum sample concentration value was selected for plotting. Figure 61 illustrates that the highest PCE concentration on the UniFirst property in shallow bedrock was at the east end of the current storage building at location UC8. The reported concentration (19,000,000 µg/L) exceeds the aqueous solubility of PCE, indicating that DNAPL was likely present in the sample. DNAPL was indeed observed in this well in the past. The highest concentrations of PCE in shallow bedrock on the Grace property were 1100 (J) with a duplicate sample result of 46.8 µg/L in G3DB and 972 µg/L in G15D.

Figure 62 illustrates the distribution of PCE in the upper 100 feet of bedrock groundwater based on sample results obtained during 2010. If a well was sampled more than once during this time period, the maximum sample concentration was selected for plotting. Comparison of Figures 61 and 62 demonstrates that PCE concentrations in groundwater samples from the upper 100 feet of bedrock at both the UniFirst and Grace properties have declined significantly since groundwater extraction was initiated. Figure 63 presents the most recent concentration of PCE in groundwater samples collected from the upper 100 feet of bedrock for the 1992 to 2009 time period. This figure supplements Figures 61 and 62 in that it includes results from wells that may not have been sampled prior to 1992 nor during 2010. Appendix F contains VOC concentration versus time plots that can be used to further assess PCE concentration trends in the upper 100 feet of bedrock groundwater.

Table 7 provides a summary of the upper 100 feet of bedrock PCE concentration trend plots presented in Appendix F for wells where 2010 and earlier sample results are available. The PCE concentration trends indicate that shallow bedrock groundwater on the UniFirst and Grace properties is being captured by the extraction systems.

Table 7 – Summary of PCE Concentration Trends in Upper 100 feet of Bedrock Groundwater

Well ID	Trend
S70D	Decreasing to 1 µg/L in 2010
S71D	Decreasing to 100 µg/L in 2010
S81D	Decreasing to 90 µg/L in 2010
UC18	Decreasing to 4(J) µg/L in 2010
UC19	Decreasing to ND (1) µg/L in 2010
UC22	Decreasing to 200 µg/L in 2010
UC4	Decreasing to 3(J) µg/L in 2010
UC5	Decreasing to 440 µg/L in 2010
UC7-3/UC7A-3	Decreasing to 1900 µg/L in 2010
UC7-4/UC7A-4	Stable since 1992
UC7-5/UC7A-5	Fluctuating
UC8	Decreasing to 87,000 µg/L in 2010
UC10-3	Decreasing to 91 µg/L in 2010
UC10-4	Decreasing to 100 µg/L in 2010
UC10-5	Decreasing to 30 µg/L in 2010
UC10-6	Decreasing to 9 µg/L in 2010
G11D	Decreasing to < 5µg/L since 1994
G12D	Decreasing to < 5µg/L since 1995
G19D	<5 µg/L since at least 2007
G20D	<5 µg/L since 1985
G21D	<5 µg/L since 1985
G22D	Decrease to <1 µg/L by 2005
G23D	Decreasing to < 5µg/L by 1995
G28D	Decreasing to <2 µg/L by 2007
G36D	Decreasing to ND(2) µg/L by 1999
G36DB	Increasing between 1991 and 1994; Decreasing to 3.1 µg/L in 2010
RW7	Increasing 1991 to 1994; Decreasing to <1 µg/L by 2008
RW8	Increasing 1991 to 1994; Decreasing to 2.2 µg/L by 2010
RW9	Increasing 1991 to 1994; Decreasing to <3 µg/L by 2010
RW10	Increasing 1991 to 1995; Decreasing to 9 µg/L in 2010
RW11	Decreasing to U(1) µg/L in 2010
RW12	Decreasing to U(1) µg/L in 2010
RW13	Increasing 1992 to 1997; Decreasing to 15 µg/L in 2010
RW14	Increase between 1993 and 2007; Decreasing since 2007 to U(1) µg/L in 2010
RW15	Increasing to 7.1 µg/L in 2010
RW16	Increase between 1992 and 2007; Decreasing since 2007 to 1.8 µg/L in 2010

RW17	Increasing 1992 to 1997; Decreasing from 1998 to 16 µg/L in 2010
RW18	Increase between 1992 and 2007; Decrease to 1.3 µg/L in 2010
RW19	Increase between 1992 and 1994; Decrease to 3.4 µg/L from 2007 to 2010
RW20	Increase between 1992 and 1994; Decreasing to 8.9 µg/L in 2010
RW21	U(5) µg/L 1992 to 2007; Increase in 2007; Decrease to U(1) µg/L by 2010
RW22	Decreasing to U(5) µg/L in 2010

Figure 64 presents the distribution of TCE in groundwater samples collected from the upper 100 feet of bedrock based on sample results obtained prior to initiation of the Grace and UniFirst extraction systems in 1992. If a monitoring well was sampled more than once prior to initiation of the extraction systems, the maximum sample concentration value was selected for plotting. Figure 64 illustrates that the highest TCE concentration on the UniFirst property in the upper 100 feet of bedrock was at the east end of the current storage building at location UC8. The highest concentration of TCE detected in the upper 100 feet of bedrock on the Grace property was 9,690 µg/L at monitoring location G15D.

Figure 65 illustrates the distribution of TCE in the upper 100 feet of bedrock groundwater based on sample results obtained during 2010. If a well was sampled more than once during this time period, the most recent sample concentration was selected for plotting. Comparison of Figures 64 and 65 demonstrates that TCE concentrations in groundwater within the upper 100 feet of bedrock at both the UniFirst and Grace properties as well as off-property wells have declined significantly since groundwater extraction was initiated. Figure 66 presents the most recent concentration of TCE in groundwater samples collected from the upper 100 feet of bedrock for the 1992 to 2009 time period. This figure supplements Figures 64 and 65 in that it includes results from wells that may not have been sampled prior to 1992, nor in 2010. Appendix F contains VOC concentration versus time plots that can be used to further assess TCE concentration trends in the upper 100 feet of bedrock groundwater.

Table 8 provides a summary of the TCE concentration trend plots presented in Appendix F for wells open in the upper 100 feet of bedrock for which a VOC concentration was reported for 2010 and earlier sample dates. Of the wells listed in Table 8, most have exhibited either stable,

decreasing, or ND concentrations. UC7-3 is listed as possibly displaying recent increases in concentration, which would be attributable to the TCE plume moving through this location en-route to extraction well UC22. Monitoring point UC7-3 is located within the capture zone of UC22. UC7-5, which is listed as displaying fluctuating concentrations, is also in the path of TCE migration towards extraction well UC22. The increasing TCE concentration trend in monitoring well G1DB is interpreted to represent contaminated groundwater that is beneath the RW22 capture zone and is flowing to the northwest toward UC22. The TCE concentration trends indicate that the upper 100 feet of bedrock groundwater on the UniFirst and Grace properties is being captured by the extraction systems.

Table 8 - Summary of TCE Concentration Trends in Upper 100 feet of Bedrock Groundwater

Well ID	Trend
S70D	Decreasing to < 1 µg/L in 2010
S71D	Decreasing to < 1 µg/L in 2010
S81D	Decreasing to 5 µg/L in 2010
UC18	Decreasing to ND (1) µg/L in 2010
UC19	Decreasing to ND (1) µg/L in 2010
UC22	Decreasing
UC4	ND(1) µg/L in 2010
UC5	Decreasing to 4 µg/L in 2010
UC7-3/UC7A-3	Fluctuating, possible recent increase
UC7-4/UC7A-4	Stable since 1992
UC7-5/UC7A-5	Fluctuating
UC8	Decreasing to 510 µg/L in 2010
UC10-3	Decreasing to 32 µg/L in 2010
UC10-4	Decreasing to 27 µg/L in 2010
UC10-5	Decreasing to 16 µg/L in 2010
UC10-6	Decreasing to 5 µg/L in 2010
G1DB	Increase to 36 µg/L in 2010
G11D	Decreasing to 2.2 µg/L in 2010
G12D	Decreasing to 1.3 µg/L in 2010
G19D	Increasing to 2005; Decreasing to 220 µg/L in 2010
G20D	Increasing to 1994; Decreasing to 4.7 µg/L in 2010
G22D	Decreasing to 1.4 µg/L in 2010
G23D	Decreasing to 4 µg/L in 2010

G24D	Decreasing to 19 µg/L in 2010
G28D	Decreasing to 3.7 µg/L in 2010
G36D	Decreasing to 15 µg/L in 2010
G36DB	Decreasing to 15 µg/L in 2010
RW7	Decreasing to 1.7 µg/L in 2010
RW8	Decreasing to 2.3 µg/L in 2010
RW9	Decreasing to U(1) µg/L in 2010
RW10	Decreasing to 2.1µg/L in 2010
RW11	Decreasing to 2.6 µg/L in 2010
RW12	Decreasing to 3.3 µg/L in 2010
RW13	Decreasing to <5 µg/L since 2004
RW14	Less than 5 µg/L since 1993
RW15	Decreasing to 3.4 µg/L in 2010
RW16	Decreasing to 3.7 µg/L in 2010
RW17	Increasing 1992 to 1993; Decreased to 7.5 µg/L in 2010
RW18	Decrease to 1.7 µg/L in 2010
RW19	Decreasing to 2.8 µg/L in 2010
RW20	Decreasing to 4 µg/L in 2010
RW21	Decreasing to 3.4 µg/L in 2010
RW22	Decreasing to 180 µg/L in 2010

3.4.3 – Deep Bedrock

Figure 67 presents the distribution of PCE in deep bedrock groundwater based on sample results obtained prior to initiation of the Grace and UniFirst extraction systems in 1992. If a monitoring well was sampled more than once prior to initiation of the extraction systems, the maximum sample concentration value was selected for plotting. Figure 67 illustrates that the highest PCE concentration on the UniFirst property in deep bedrock groundwater was adjacent to the southern property boundary at location UC7-2 (23,000 µg/L). The highest concentration of PCE in deep bedrock groundwater on the Grace property was 9(J) µg/L at monitoring location G36DB2.

Figure 68 illustrates the distribution of PCE in deep bedrock groundwater based on sample results obtained during 2010. If a well was sampled more than once during this year, the most recent sample concentration was selected for plotting. Comparison of Figures 67 and 68

demonstrates that PCE concentrations in deep bedrock groundwater at both the UniFirst and Grace properties have declined since groundwater extraction was initiated. Figure 69 presents the most recent concentration of PCE sampled in deep bedrock groundwater for the 1992 to 2009 time period. This figure supplements Figures 67 and 68 in that it includes results from wells that may not have been sampled prior to 1992 or during 2010. Appendix F contains VOC concentration versus time plots that can be used to further assess PCE concentration trends in deep bedrock groundwater.

Table 9 provides a summary of the deep bedrock PCE concentration trend plots presented in Appendix F for wells where 2010 and earlier sample data are available. All of the wells listed in Table 9 have displayed decreases in concentration with time, or non-detect levels. The PCE concentration trends indicate that deep bedrock groundwater on the UniFirst property is being captured by the UC22 extraction system.

Table 9 - Summary of PCE Concentration Trends in Deep Bedrock Groundwater

Well ID	Trend
UC10-1	Decreasing to 98 µg/L in 2010
UC10-2	Decreasing to 93 µg/L in 2010
UC11-2	Decreasing to 37 µg/L in 2010
UC7-1/UC7A-1	Decreasing to 2500 µg/L in 2010
UC7-2/UC7A-2	Decreasing to 1700 µg/L in 2010
UG1-4	Decreasing to ND(1) in 2010
G36DB2	Increasing 1991 to 1994; Decreasing to <1 µg/L by 2005

Figure 70 presents the distribution of TCE in deep bedrock groundwater based on sample results obtained prior to initiation of the Grace and UniFirst extraction systems in 1992. If a monitoring well was sampled more than once prior to initiation of the extraction systems, the maximum sample concentration value was selected for plotting. Figure 70 illustrates that the highest TCE concentration on the UniFirst property in deep bedrock groundwater was at the southern part of the property at location UC7-2 (250 µg/L). The highest concentration of TCE in deep bedrock groundwater on the Grace property was 423 µg/L at monitoring location G3DB2.

Figure 71 illustrates the distribution of TCE in deep bedrock groundwater based on sample results obtained during 2010. If a well was sampled more than once during this time period, the most recent sample concentration was selected for plotting. Comparison of Figures 70 and 71 demonstrates that TCE concentrations in deep bedrock groundwater at both the UniFirst and Grace properties have generally decreased or remained stable since groundwater extraction was initiated in 1992. Figure 72 presents the most recent concentration of TCE sampled in deep bedrock groundwater for the 1992 to 2009 time period. This figure supplements Figures 70 and 71 in that it includes results from wells that may not have been sampled prior to 1992, or during 2010. Appendix F contains VOC concentration versus time plots that can be used to further assess TCE concentration trends in deep bedrock groundwater.

Table 10 provides a summary of the deep bedrock TCE concentration trend plots presented in Appendix F for which 2010 and earlier sample data are available. Of the wells listed in Table 10, two are exhibiting increasing concentrations through to 2010. UC7-1 and UC7-2 are located at the southern end of the UniFirst property. These monitoring points are within the UC22 capture zone and the increasing concentration trends can be attributable to off-property groundwater being drawn onto the property in response to the hydraulic gradient reversal caused by pumping UC22. The TCE concentration trends indicate that deep bedrock groundwater on the UniFirst property is being captured by the UC22 extraction system.

Table 10 - Summary of TCE Concentration Trends in Deep Bedrock Groundwater

Well ID	Trend
UC10-1	Decreasing to 51 µg/L in 2010
UC10-2	Decreasing to 52 µg/L in 2010
UC11-2	Decreasing to 39 µg/L in 2010
UC7-1/UC7A-1	Increasing to 420 µg/L in 2010
UC7-2/UC7A-2	Increasing to 440 µg/L in 2010
UG1-4	Decreasing to ND(1) in 2010
G36DB2	Decreasing to 14 µg/L in 2010

4.0 – Feasible Remediation Goals in Fractured Bedrock

It is widely accepted that meeting concentration-based remediation goals in fractured bedrock containing DNAPLs such as PCE and TCE is technically challenging and typically is impracticable (EPA, 2003b; EPA, 1993; NRC, 1994). This stems from a number of reasons including the following:

- There are no non-invasive methods of detecting DNAPLs in bedrock fractures.
- Invasive methods to detect DNAPLs in bedrock fractures, such as drilling, are limited to the particular location of the boring and carry with them a risk of mobilizing contamination deeper into the subsurface. It is not feasible to accurately delineate a DNAPL source zone in bedrock on the basis of invasive methods; therefore, uncertainty will exist with respect to the exact locations of DNAPL in fractures.
- The inability to accurately delineate the spatial extent of DNAPL in fractured bedrock makes it challenging to select locations where in-situ remediation techniques could be applied, assuming that such locations in fact were accessible to such techniques.
- Because of the discrete nature of flow in fractured bedrock and the presence of high angle fractures in the Northeast Quadrant, any in-situ injection technology (e.g., oxidant flushing, surfactant and co-solvent flushing, steam flushing) will carry with it a risk of mobilizing DNAPL deeper into the subsurface, thereby worsening the extent of contamination. The risk of mobilization stems from the fact that the injection of fluids will alter the capillary pressure distribution acting on the DNAPL such that mobilization is away from the injection wells (i.e., outwards and downwards).
- DNAPLs have low aqueous solubility and therefore can persist in groundwater flow systems for long periods of time. Although the solubility of DNAPLs such as PCE and TCE is considered to be low (200 mg/L and 1100 mg/L, respectively), the solubility concentrations are many orders of magnitude greater than typical concentration-based remediation goals (e.g., 0.005 mg/L). This implies that virtually all of the DNAPL must be removed from all bedrock fractures in order for any possibility to exist with respect to

meeting concentration-based remediation goals. There is no documented evidence of this having ever been achieved.

Because of the challenges associated with meeting concentration-based remediation goals in fractured bedrock, investigators and regulators have adopted attainable remediation goals such as the following:

- Hydraulic containment of DNAPL source zones using pump-and-treat to prevent the sources from continuing to contribute mass flux to the plume. This does not require knowledge of which specific fractures contain DNAPL, but rather a general understanding of where DNAPL is present. Assessment of success is typically based on evaluation of water level elevation data, concentration trends in sentinel wells, and concentration trends in extraction wells.
- Hydraulic containment and interception of contaminant plumes using pump-and-treat in order to prevent plume expansion. This does not require knowledge of which specific fractures contain the highest concentrations of contaminants, but rather an understanding of the overall location of the plume. Assessment of success is typically based on evaluation of water level elevation data, concentration trends in sentinel wells, and concentration trends in extraction wells.
- Prevention of off-site migration of contaminants in groundwater using pump-and-treat. This does not require knowledge of which specific fractures contain DNAPL or the highest concentrations of contaminants. Assessment of success is typically based on evaluation of water level elevation data, concentration trends in sentinel wells, and concentration trends in extraction wells.

With respect to the Northeast Quadrant, the objective of the management of migration goal as stated in the ROD and SOW is appropriate, and pump-and-treat remains an appropriate technology to attain that goal. Extraction well UC22 is capable of extracting groundwater at a maximum rate of 50 gpm, which is outstanding compared to what is attainable at some other fractured crystalline bedrock sites. UC22 has a 175-foot long open interval which promotes

connectivity of groundwater flow within the bedrock fracture network. This stems from the length of the well open-interval, which far exceeds the average fracture spacing. Pumping groundwater from discrete zones within UC22, rather than from the entire open interval, would be detrimental to achieving the management of migration goal because of the risk of flow by-passing the extraction well.

Identifying and individually pumping those fractures intersecting UC22 that contain the highest concentrations of VOCs is not beneficial with respect to accelerating the rate of plume depletion. The rate of mass discharge (M_d) from a fracture into an extraction well can be approximated as follows (assuming radial flow towards the well):

$$M_d = \lim_{r \to 0} \left(2\pi r T \frac{\partial h}{\partial r} C \right) \tag{5}$$

where r is the radial distance, T is the transmissivity of the fracture, $\partial h/\partial r$ is the hydraulic gradient and C is the concentration of contaminant. Given that transmissivities along a boring are additive and assuming that the same gradient exists in a fracture whether it is being pumped individually or as part of an open hole intersecting more than one fracture, it is clear that the total mass discharge from the boring is the same whether fractures are pumped individually or as a group from an open hole. The practical implication of this is that while pumping from a few discrete fractures containing high concentrations may give the impression of faster rates of mass removal (because the concentrations are higher), the reality is that the same rate of mass removal is achieved by pumping all fractures collectively from an open hole. The concentration is lower in the latter case because of dilution from fractures containing little or no contamination, but the total number of pounds of contaminant removed over a specified time interval would be the same.

5.0 – Conclusions

The coordinated groundwater remedies that have been operating continuously at the Grace and UniFirst properties since September 30, 1992 have met the ROD-specified remediation goals of preventing further migration of contaminated groundwater from the Grace and UniFirst properties to the Central Area of the Site, and in limiting the further migration of contaminated groundwater off-site from the two properties. In addition, the coordinated groundwater remedies have been effective at reducing VOC concentrations in groundwater beneath and downgradient from the two properties. The effectiveness of these remedies has been demonstrated in more than 36 annual reports that UniFirst and Grace have submitted to EPA documenting the results of groundwater monitoring and sampling conducted over the course of 18 years of remedy operation.

The geologic and hydrogeologic systems and the distribution of aqueous-phase contaminants at the Site are well characterized and understood. The CSM presented in this report is based on the considerable volume of data amassed from Site characterization and remedy performance monitoring activities since 1981. Bedrock beneath the Site is highly fractured and includes high angle fractures distributed throughout the study area. Groundwater flow takes place through a well connected network of fractures and fracture zones that do not have any one dominant orientation. Bedrock underlying the Site has moderate to high transmissivity and no evidence of massive unfractured zones lacking conductivity. The scale of the pumping interval in extraction well UC22 (175 foot-open hole) is much larger than the fracture spacing, promoting connectivity of groundwater flow within the fracture network.

The interconnectedness of the unconsolidated deposits and bedrock flow systems is well evidenced. The occurrence of high angle fractures (steeply dipping) is characteristic of crystalline rock and implies good connection with unconsolidated deposits and good vertical extent of capture associated with extraction wells located in bedrock. Supporting observations include drawdown in unconsolidated deposits in response to pumping bedrock extraction well UC22, drawdown in bedrock wells in response to pumping unconsolidated deposit extraction

Wells G and H, dewatering of unconsolidated deposits on portions of the Grace and UniFirst properties by pumping of bedrock wells, clear evidence of recharge to bedrock from unconsolidated deposits, and observed vertical downward hydraulic gradients between unconsolidated deposits and bedrock at both properties.

The Grace groundwater extraction system was designed to create a hydraulic barrier to prevent off-property migration of contaminated groundwater in unconsolidated deposits and shallow bedrock, allowing any contaminants in the deeper bedrock to flow into the capture zone of the UniFirst extraction system. The hydraulic evaluation presented in this report clearly demonstrates that the Grace extraction system is preventing off-site migration of contaminated groundwater in shallow bedrock and unconsolidated deposits.

The UniFirst groundwater extraction system was designed to create a hydraulic barrier to prevent off-property migration of contaminated groundwater in unconsolidated deposits, shallow bedrock, and deep bedrock. The hydraulic evaluation presented in this report clearly demonstrates that unconsolidated deposits groundwater on the UniFirst property flows down into bedrock where it is subsequently captured by the UC22 extraction well, that groundwater within the upper 100 feet of bedrock on the UniFirst property and from off-property is being captured by the UC22 extraction well, and that deep bedrock groundwater on the UniFirst property is being captured by the UC22 extraction well. The bedrock capture zone created by UC22 extends upgradient beneath the Grace property, and extends to depths of approximately 300 ft bgs. Pumping UC22 has increased already existing downward gradients from the unconsolidated deposits to bedrock in the higher topographic regions of the Northeast Quadrant, and reversed the gradient direction in some areas west of UC22.

The area of capture associated with the UniFirst pumping system is estimated to be 5.5 million square feet. This represents an area approximately 43 times as large as the UniFirst property footprint. The area of capture associated with the Grace pumping system is estimated to be approximately one million square feet. This represents an area approximately 2.3 times as large as the Grace property footprint. Over 440 million gallons of groundwater and

approximately 2300 pounds of VOCs have been extracted by the coordinated remedies since they started operating.

The coordinated remedies have significantly reduced contaminant concentrations in groundwater in saturated bedrock and unconsolidated deposits at and in the vicinity of the two properties. Water quality data collected over 18 years of performance monitoring demonstrate substantial reductions in contaminant concentrations in most off-property monitoring wells. In many cases contaminant concentrations in the off-property wells have declined below groundwater cleanup levels specified in the ROD. The monitoring network in place at the Site is more than sufficient to monitor the ongoing performance and success of the coordinated remedies.

It is widely accepted that meeting concentration-based remediation goals in fractured bedrock containing DNAPLs such as PCE and TCE is technically challenging and typically is impracticable. Nonetheless, the pace of groundwater cleanup in the Northeast Quadrant of the Wells G & H Site has been consistent with that predicted in the ROD and measured at other sites where DNAPL has been identified in crystalline bedrock. As EPA has recognized in the ROD and its guidance, pump-and-treat is typically the most effective remedial technology to address chlorinated VOCs in fractured bedrock in that it provides a continuous depletion of contaminant mass with time and prevents further plume expansion. The exponential decline of VOC concentrations versus time observed in the treatment system influent from the UC22 extraction well is typical of pump-and-treat systems that are successfully containing DNAPL sources and bringing about plume capture. The decline in concentration stems from both a depletion in DNAPL mass and a contraction in the size of the plume. As the plume contracts, increasing amounts of clean water are drawn into the capture zone, leading to dilution and a lowering of the influent concentrations. The observed tailing of concentrations over time is entirely consistent with design expectations, stemming from the persistent presence of DNAPL within the zone of capture of the UC22 extraction system.

The objective of management of migration for the Northeast Quadrant of the Wells G & H Site stated in the ROD and the SOW is appropriate, and pump-and-treat remains an appropriate technology to attain that goal. Extraction well UC22 is capable of extracting groundwater at a rate of 50 gpm, which is outstanding compared to what is attainable at some other fractured crystalline bedrock sites.

In summary, this report reflects the extraordinary amount of data that have been collected at the Site, particularly in the Northeast Quadrant, since EPA initiated investigations more than 30 years ago. Those data include data collected during a five-year remedial investigation and remedial design investigation phase and an 18-year long remedy operation phase. The detailed analyses of hydrogeologic conditions and groundwater quality in the vicinity of the UniFirst and Grace properties presented in this report demonstrate that groundwater capture by the coordinated groundwater remedies is now and historically has been meeting the objectives of the ROD and the SOW.

6.0 – References

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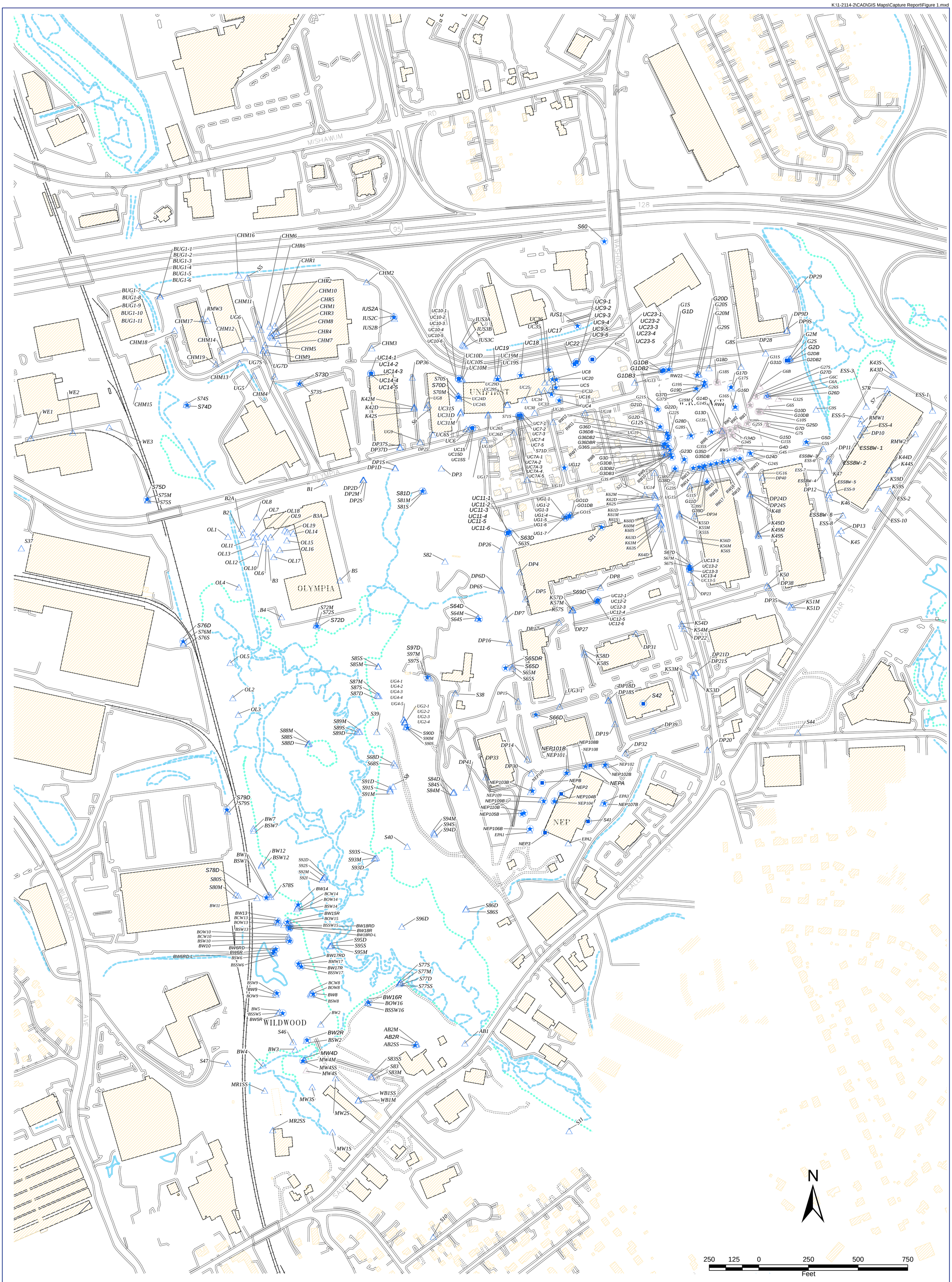

Monitoring Well

By Formation

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)
- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)
- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

For bedrock wells: monitoring wells installed with the middle of screen less than 100 feet below the bedrock surface; monitoring wells installed with the middle of screen more than 100 feet below the bedrock surface.

FIGURE 1 - WELL LOCATION MAP
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/16/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

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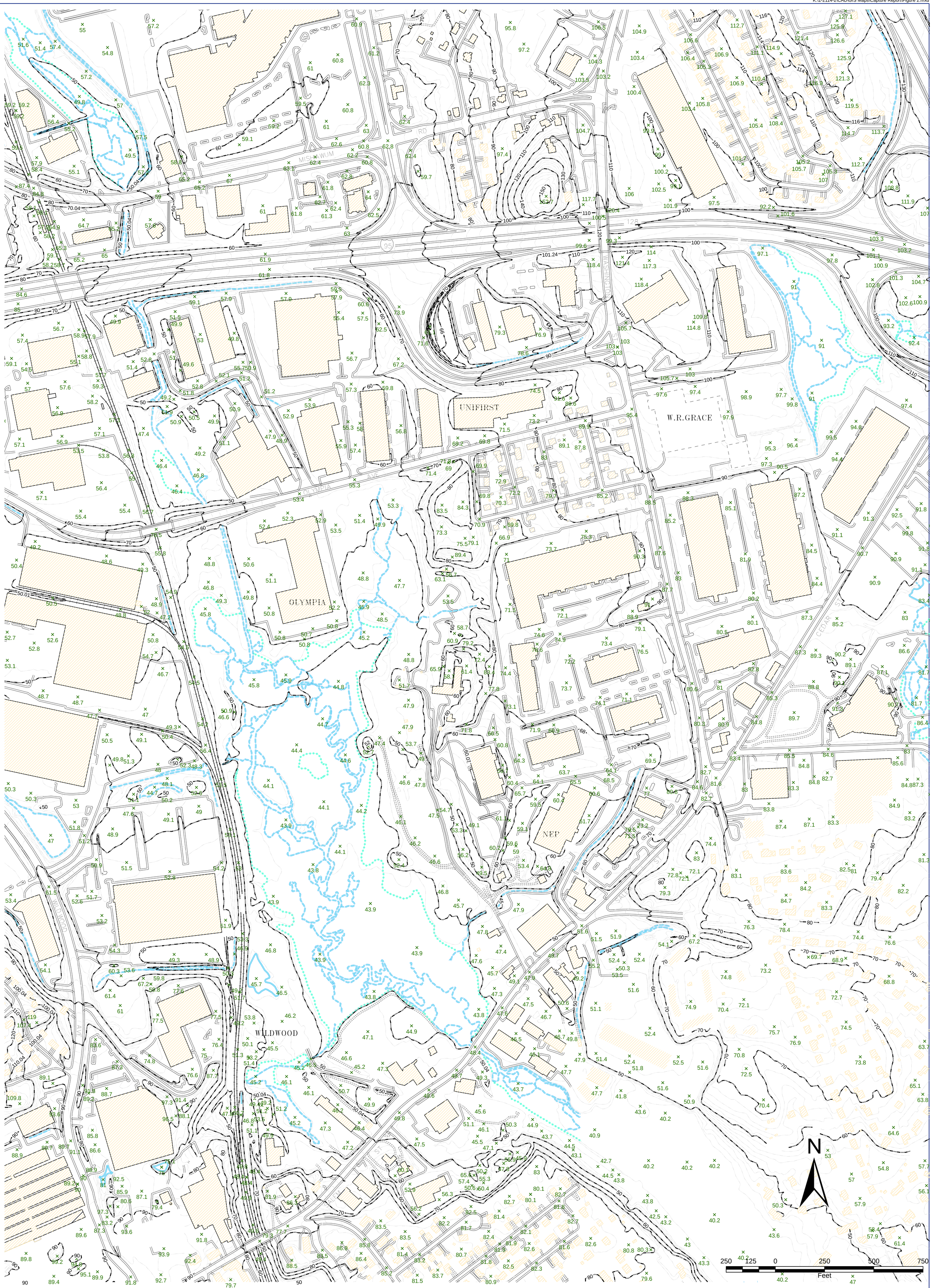

Spot Elevation (ft)
10' Ground Elevation Contour
5' Ground Elevation Contour
2' Ground Elevation Contour
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH
Road
Railway
Stream
Wetland

NOTES:

Elevation data are in NGVD 1929 feet.

Data and basemap supplied by GeoTrans, Inc.

FIGURE 2 - GROUND SURFACE TOPOGRAPHY
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: RTK	Date: 11/03/10
Reviewed by: MBM	Date: 12/10/10
Scale: As shown	Project: 1-2114-2

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Monitoring Wells

By Formation

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)
- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)
- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)
- Unconsolidated Deposits Thickness Contour (10 ft)
- Test Pit Location (Approx.)*
- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- 46.2 Depth of Unconsolidated Deposits/ Depth to Bedrock (ft)
- Road
- Railway
- Stream
- Wetland

NOTES:

Thickness of unconsolidated deposit is shown in feet.

* Source for Test Pit Locations: Figure 2-3, Isopach of Unconsolidated Deposits by ENSR Consulting & Engineering dated 8/94.

FIGURE 3 - THICKNESS OF UNCONSOLIDATED DEPOSITS WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	DPB	Date:	12/09/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

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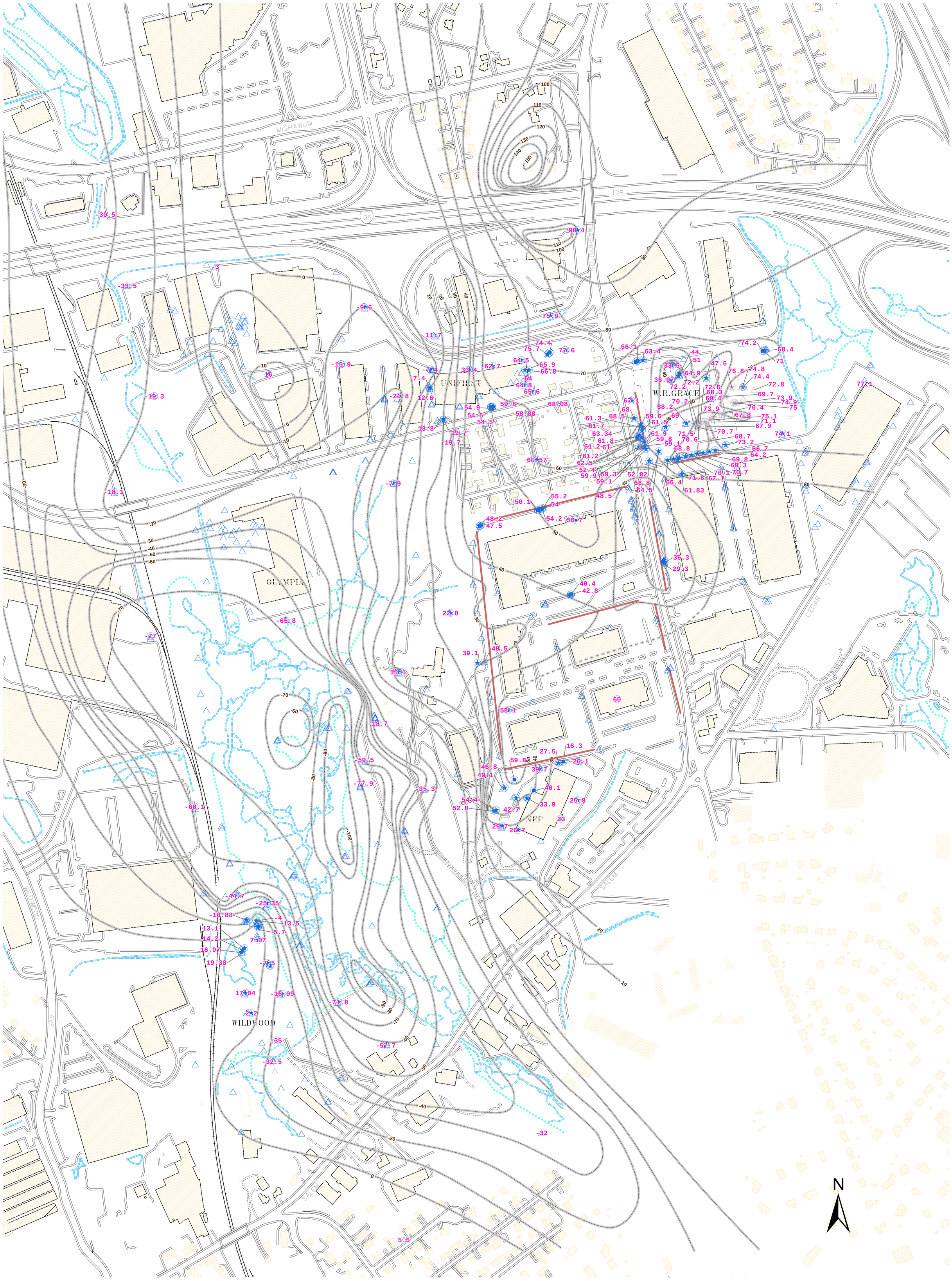


Well Location
By Formation

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)
- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)
- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)
- Location of Seismic Lines used to Interpret Bedrock Elevation
- Bedrock Elevation Contour (ft)
- Bedrock Elevation Contour (Inferred, ft)
- 46.2 Bedrock Elevation (ft)
- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

Elevation data are in NGVD, feet.

Bedrock elevation contours modified after Figure 3-17 of GeoTrans, Inc and RETEC, Wells G&H Site Central Area Remedial Investigation Phase 1A Report 1994 to incorporate data from Northeast Quadrant wells installed in 2010. The contours are based on all the available boring/well data and a number of seismic refraction surveys and estimated elevations, from the site topography map, at bedrock outcrops . If a boring did not reach the bedrock surface the bedrock elevation was assumed to be less than the bottom elevation of the boring.

FIGURE 4 - TOP OF BEDROCK ELEVATION
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	12/03/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

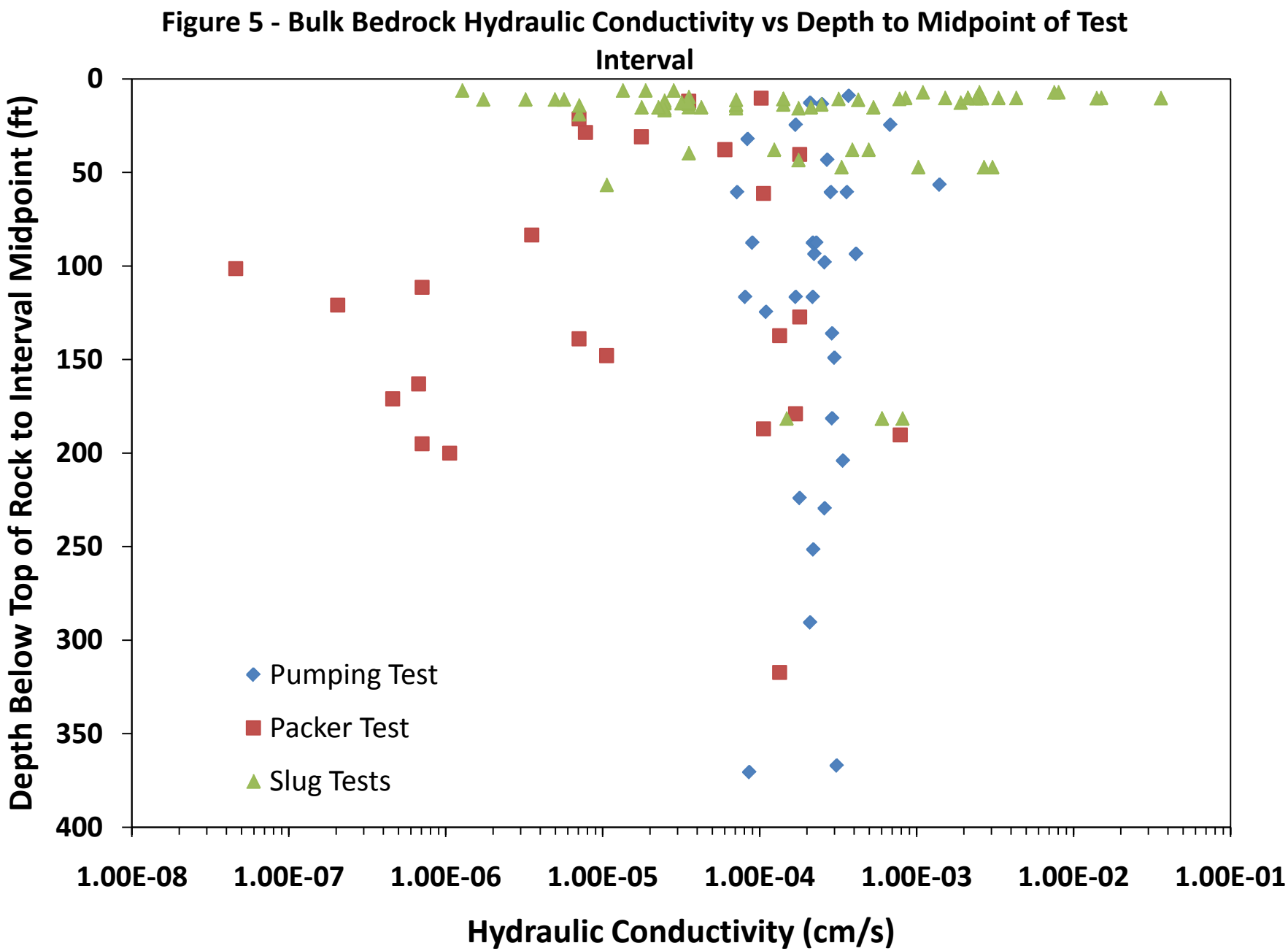


Figure 5 - Bulk Bedrock Hydraulic Conductivity vs Depth to Midpoint of Test Interval
Depth Below Top of Rock to Interval Midpoint (ft)
0
50
100
150
200
250
300
350
400
1.00E-08
1.00E-07
1.00E-06
1.00E-05
1.00E-04
1.00E-03
1.00E-02
1.00E-01
Hydraulic Conductivity (cm/s)
Pumping Test
Packer Test
Slug Tests

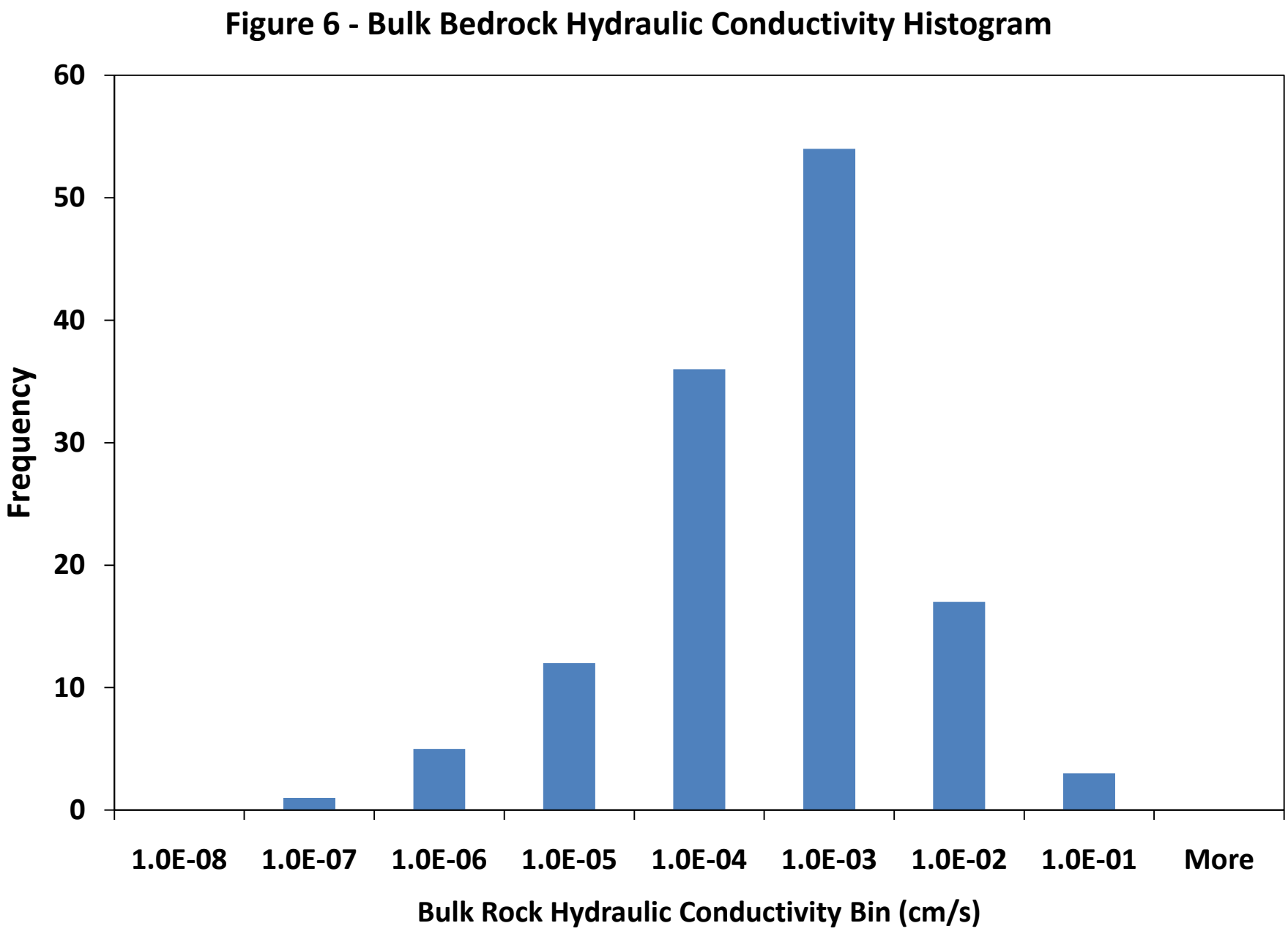


Figure 6 - Bulk Bedrock Hydraulic Conductivity Histogram
Frequency
60
50
40
30
20
10
0
1.0E-08
1.0E-07
1.0E-06
1.0E-05
1.0E-04
1.0E-03
1.0E-02
1.0E-01
More
Bulk Rock Hydraulic Conductivity Bin (cm/s)

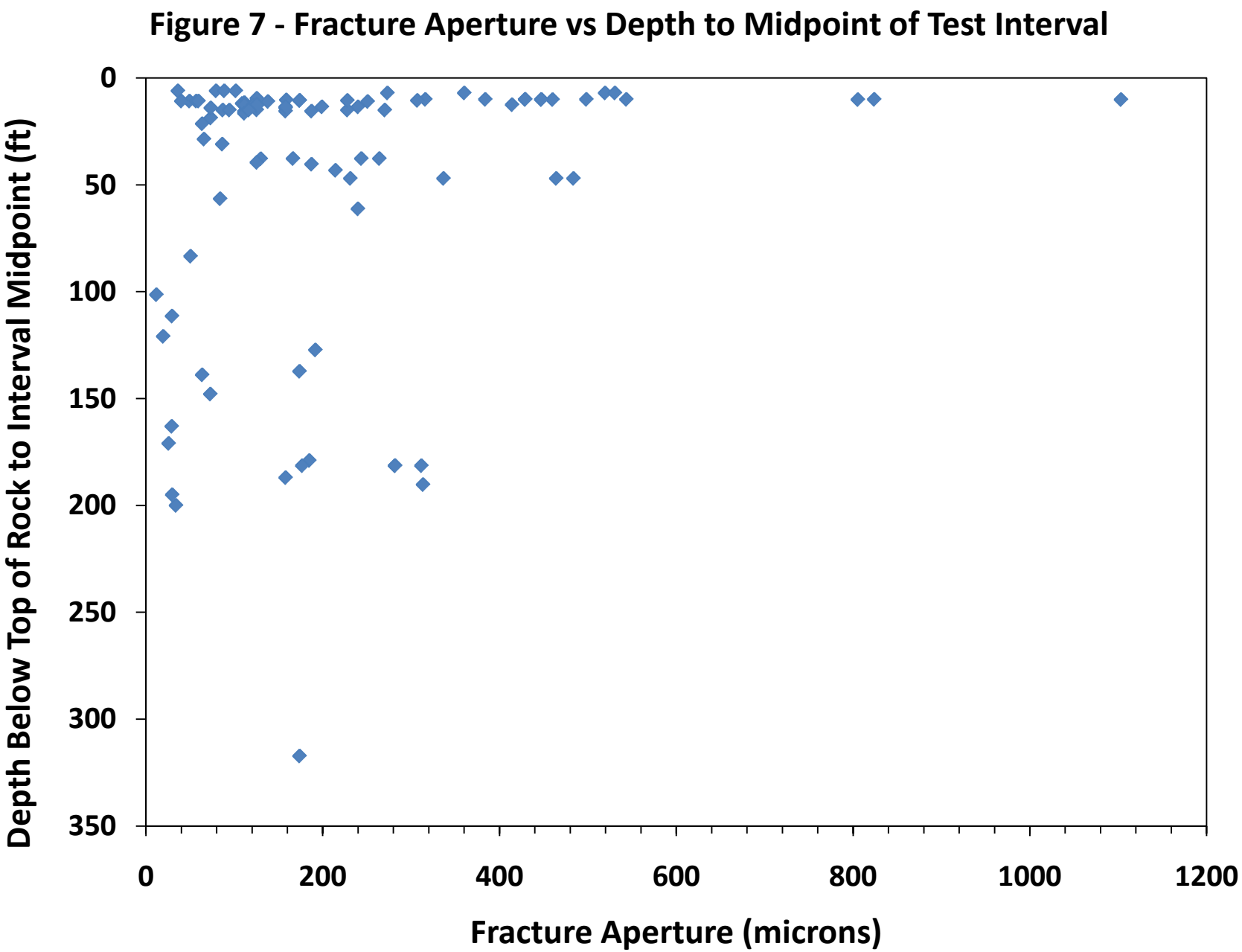


Figure 7 - Fracture Aperture vs Depth to Midpoint of Test Interval
Depth Below Top of Rock to Interval Midpoint (ft)
0
50
100
150
200
250
300
350
0
200
400
600
800
1000
1200
Fracture Aperture (microns)

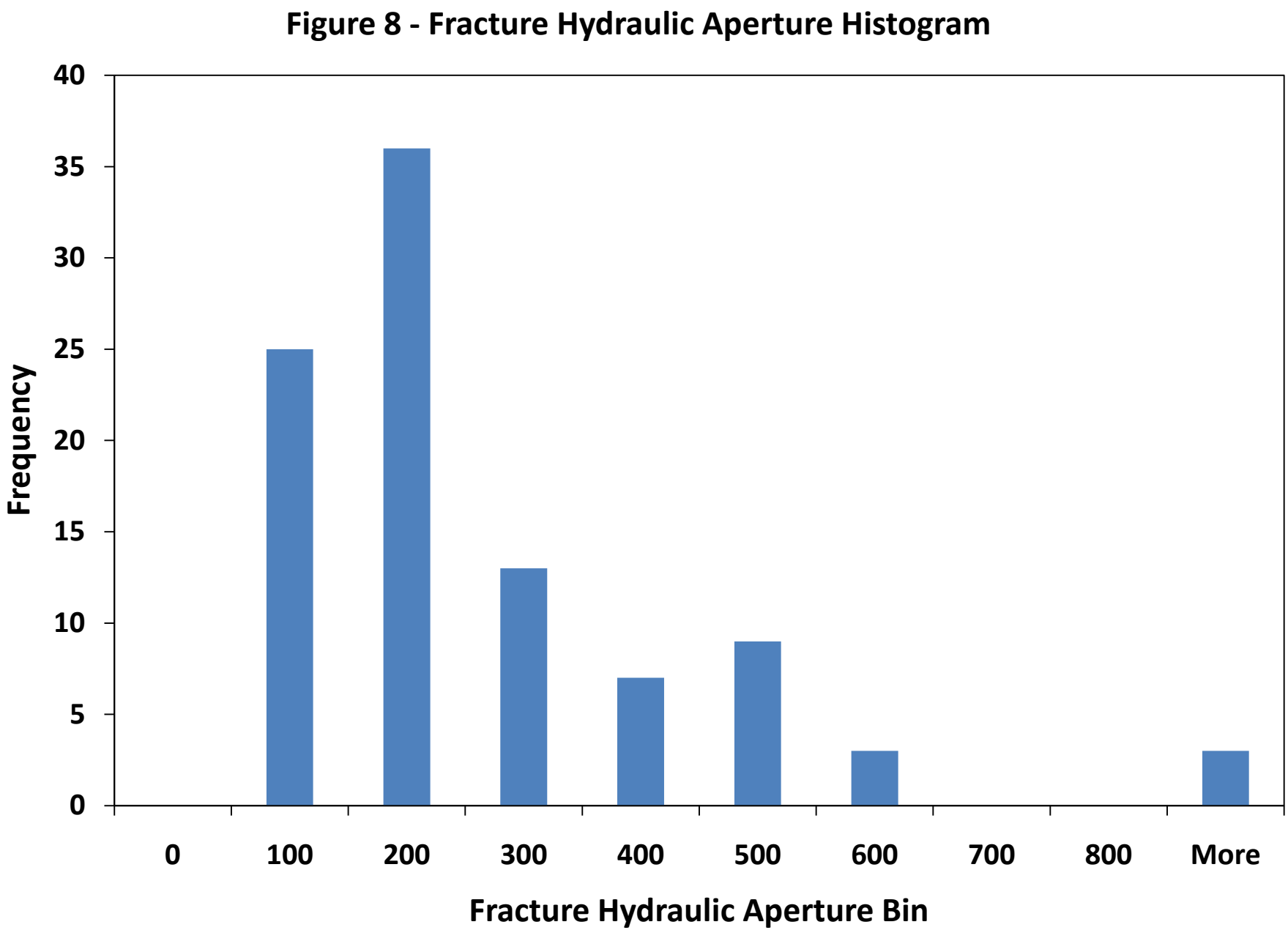
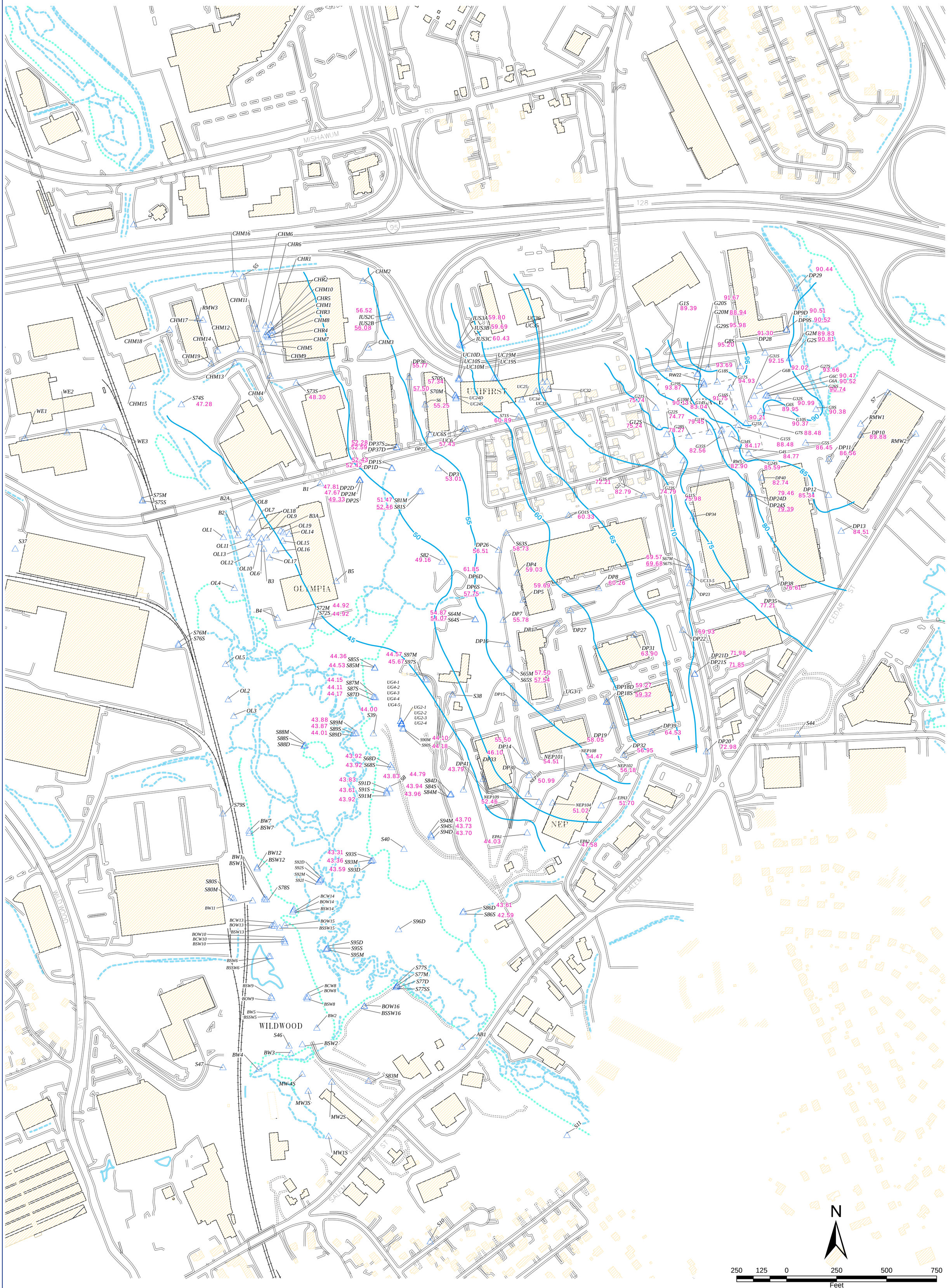


Figure 8 - Fracture Hydraulic Aperture Histogram
Frequency
40
35
30
25
20
15
10
5
0
0
100
200
300
400
500
600
700
800
More
Fracture Hydraulic Aperture Bin



Well Location
Formation
Unconsolidated Deposits (U)
Unconsolidated Deposits (Abandoned) (U-A)
55 Water Level Contour (5 ft)
44.4 Water Level Elevation (ft)
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH
Road
Railway
Stream
Wetland

NOTES:

Water levels were measured in May 1992.

Elevation data are in NGVD 1929 feet.

FIGURE 9 - UNCONSOLIDATED DEPOSITS
WATER LEVEL ELEVATIONS (PRE-REMEDY OPERATION)
WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

Drawn by:	JJK	Date:	12/16/2010
Reviewed by:	MBM	Date:	12/11/2010
Scale: As Shown		Project: 1-2114-2	

ddms Path: R:\Projects\WXYZ\WRGrace and Unifirst-2025\0001-Wells G and H\DataAnalysis\GIS\Data\Projects\101115_Reporting\Figure09.mxd

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REV.1 (JAN-12)

Well Location
By Formation
Unconsolidated Deposits (U)
Unconsolidated Deposits (Abandoned) (U-A)
Water Level Contour (5 ft)
Water Level Contour - Inferred (5 ft)
Dewatered Unconsolidated Deposits
44.40' Water Level Elevation (ft) Values used for contouring at multilevel monitoring locations are underlined.
Dry (59.93') Value in parentheses indicates elevation at which dry measurement was recorded.
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH
Road
Railway
Stream
Wetland

NOTES:

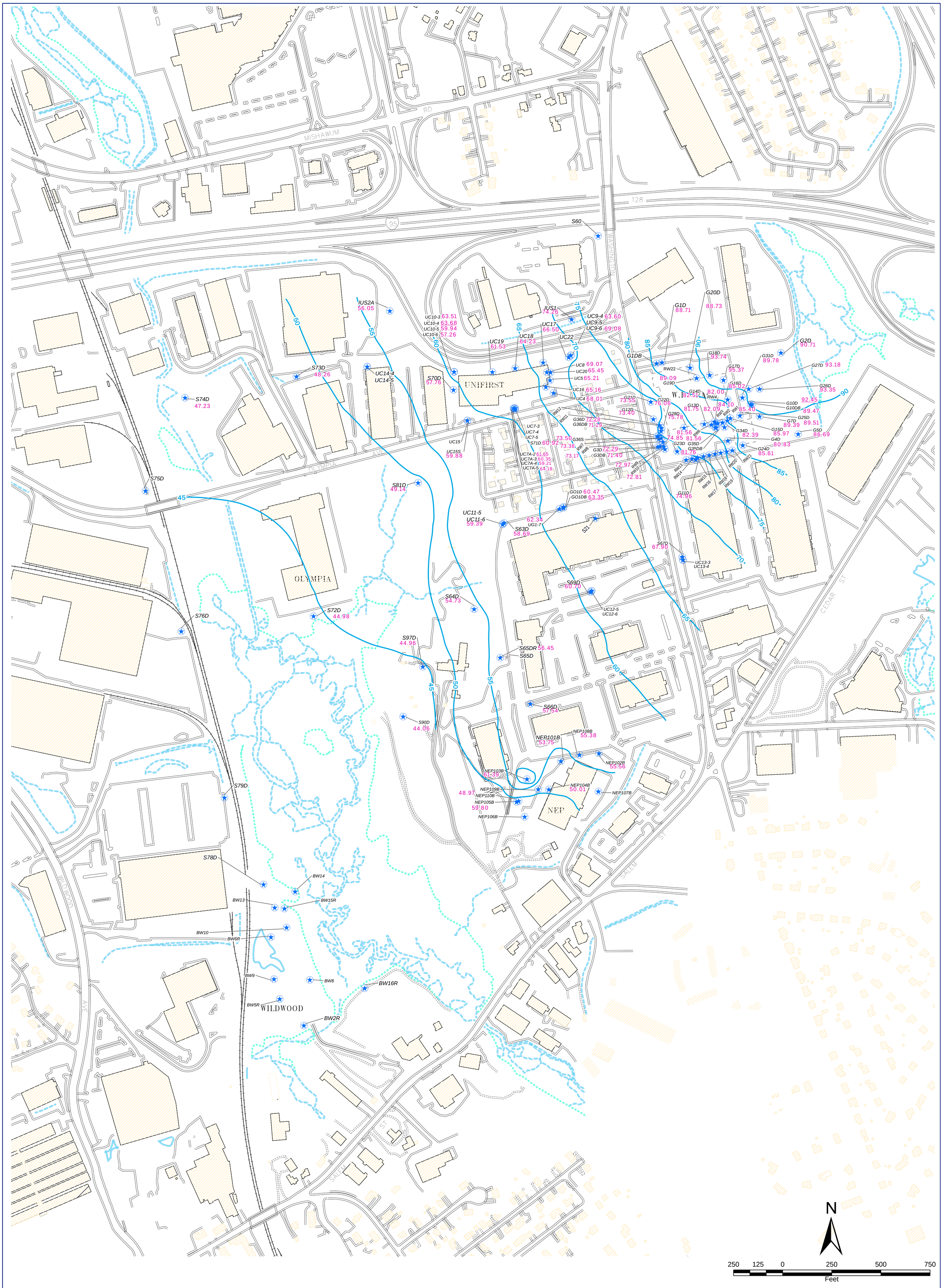
Water levels were measured in September 2010.

Elevation data are in NGVD 1929 feet.

FIGURE 10 - UNCONSOLIDATED DEPOSITS WATER LEVEL ELEVATIONS (SEPTEMBER 2010) WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	DPB	Date:	12/06/10
Reviewed by:	MBM	Date:	12/16/10
Scale:	As Shown	Project:	1-2114-2



Well Location

Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)
- 55 Water Level Contour (5 ft)
- 44.4 Water Level Elevation (ft)

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

monitoring wells have the middle of screen less than 100 feet below the bedrock surface.

Water Levels were measured in May 1992.

Elevation data are in NGVD 1929 feet.

FIGURE 11 - UPPER 100 FEET OF BEDROCK WATER LEVEL ELEVATIONS (PRE-REMEDY OPERATION) WELLS G & H SITE WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

Drawn by:	JJK	Date:	12/16/2010
Reviewed by:	MBM	Date:	12/11/2010
Scale:	As Shown	Project:	1-2114-2

ddms Path: R:\Projects\WXYZ\WRGrace and Unifirst-2025\0001-Wells G and H\DataAnalysis\GISData\Projects\101115_Reporting\Figure11.mxd

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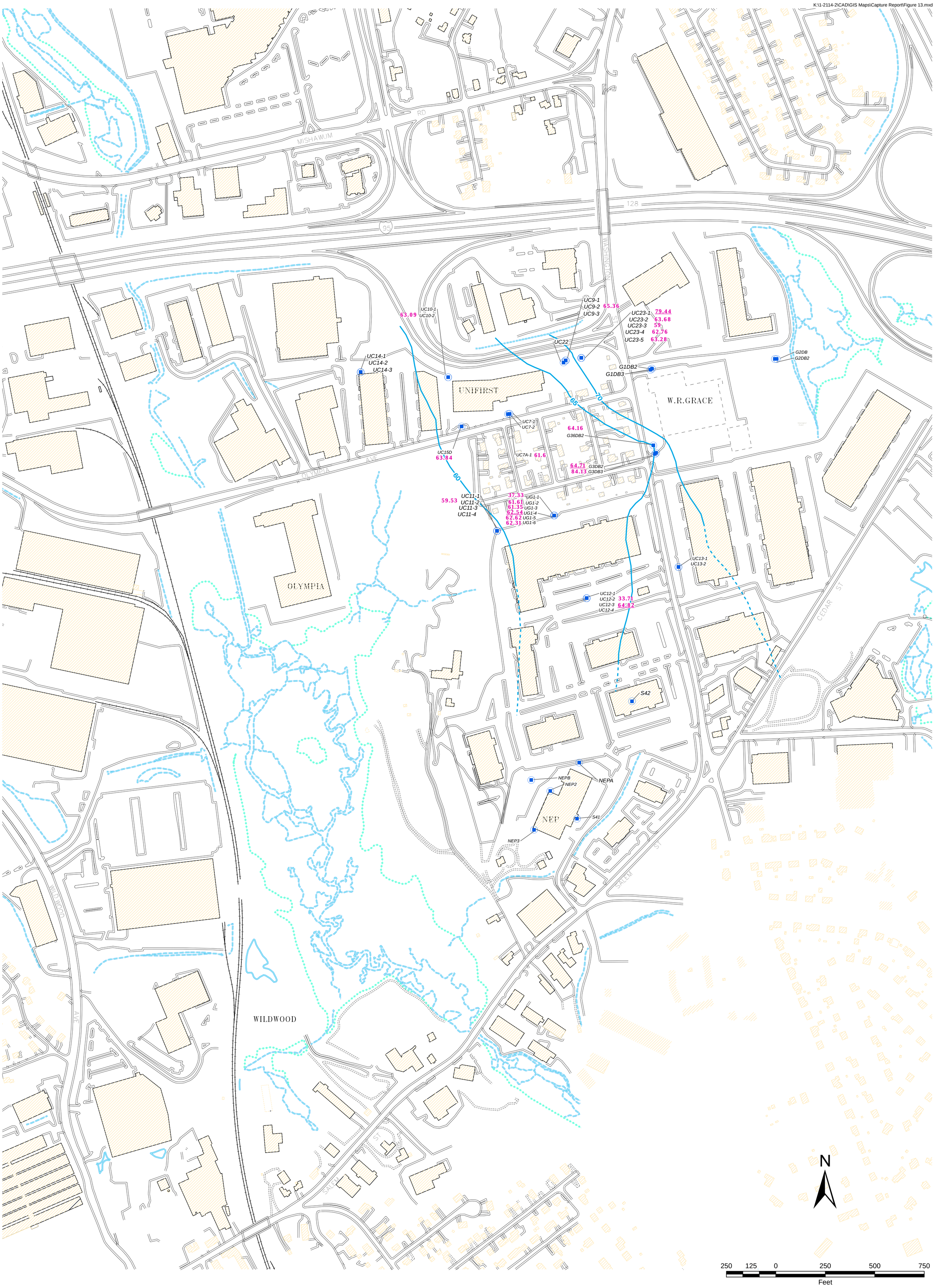


Well Location
By Formation
Deep Bedrock (RD)
Deep Bedrock (Abandoned) (RD-A)
Water Level Contour (5 ft)
Water Level Contour - Inferred (5 ft)
44.4 Water Level Elevation (ft) - Values used for contouring at multilevel locations are underlined.

Building
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH

Road
Railway
Stream
Wetland

NOTES:

Deep bedrock monitoring wells have the middle of screen greater than 100 feet below the bedrock surface.

Water level elevations measured in May 1992.

Elevations in NGVD 1929 feet.

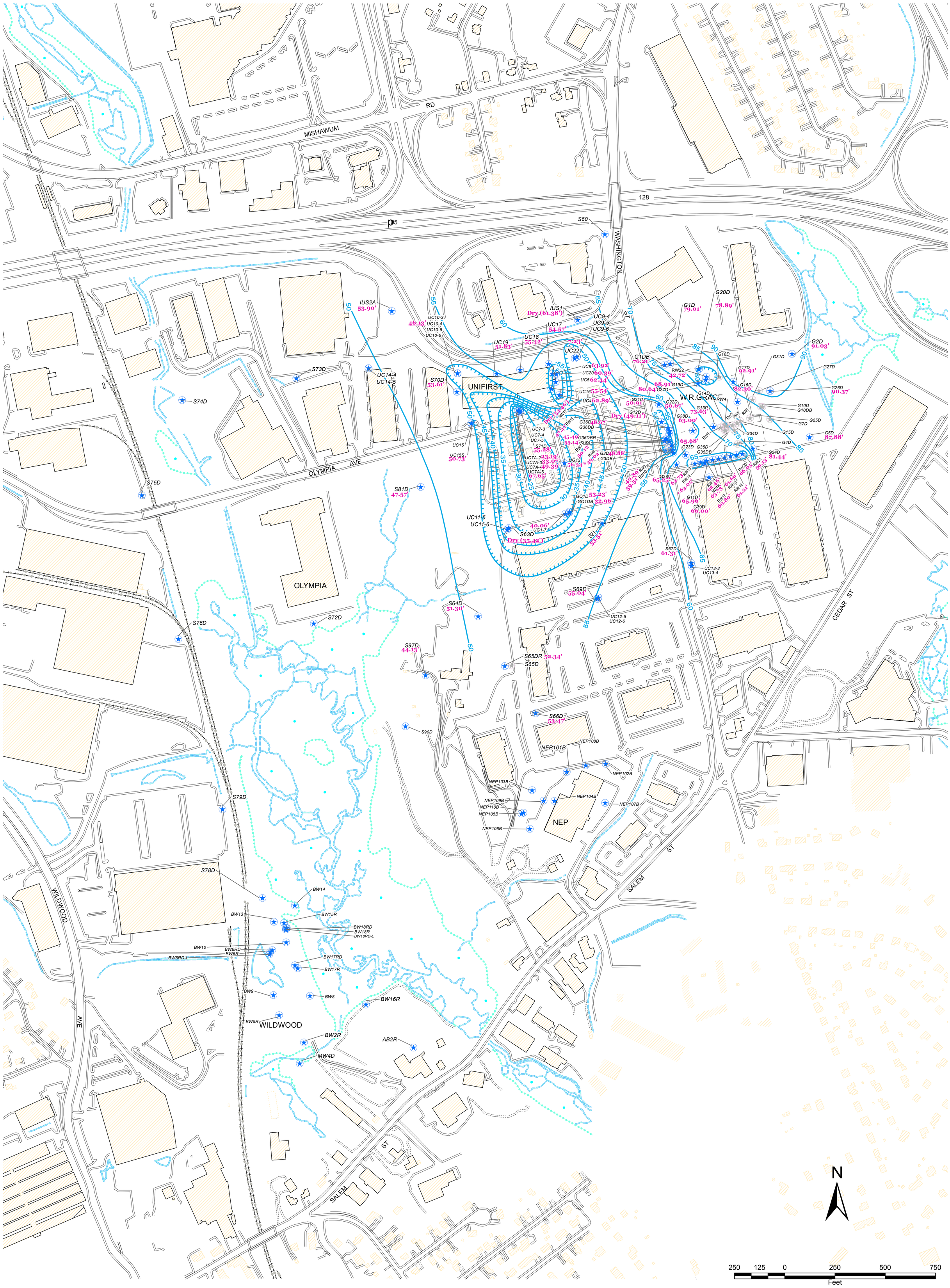
FIGURE 13 - DEEP BEDROCK WATER LEVEL ELEVATIONS (PRE-REMEDY OPERATION) WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/29/10
Reviewed by: MBM Date: 12/16/10
Scale: As Shown Project: 1-2114-2

C:\DATA\JohnsonGIS\2010NEQReport\2010 NEQ Report\Capture Report Figure 12Update2.mxd



REV. 1 (JAN-12)

Well Location By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)
- 55 Water Level Contour (5 ft.)
- Water Level Contour - Inferred (5 ft.)
- Water Level Elevation (ft)
- 44.40' Values used for contouring at multilevel monitoring locations are underlined.
- Dry (59.93') Value in parentheses indicates elevation at which dry measurement was recorded.
- <63.05' Water level is below the level of possible measurement.
- * Water level not used in contouring

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

monitoring wells have the middle of screen less than 100 feet below the bedrock surface.

Water Levels were measured in September 2010.

Elevation data are in NGVD 1929 Feet.

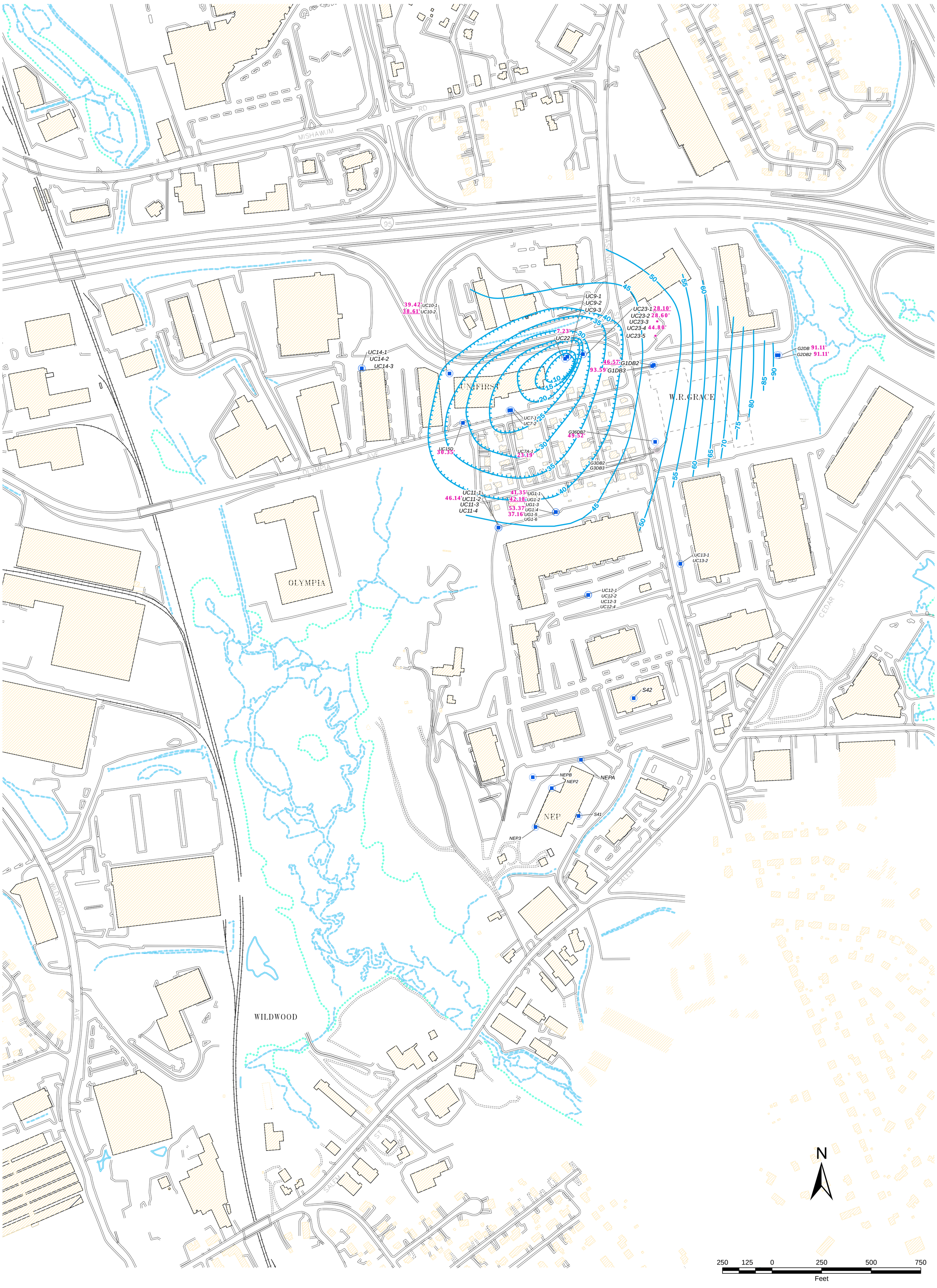
FIGURE 12 - UPPER 100 FEET OF BEDROCK WATER LEVEL ELEVATIONS (SEPTEMBER 2010) WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB	Date: 12/14/10
Reviewed by: MBM	Date: 12/16/10
Scale: As Shown	Project: 1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 14.mxd



Well Location

By Formation

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)
- 30 Water Level Contour (5 ft)
- 44.40 Water Level Elevation (ft)
- * Damaged port; water level unreliable.

Values used for contouring at multilevel monitoring locations are underlined.

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

Deep bedrock monitoring wells have the middle of screen greater than 100 feet below the bedrock surface.

Water level elevations measured in September 2010.

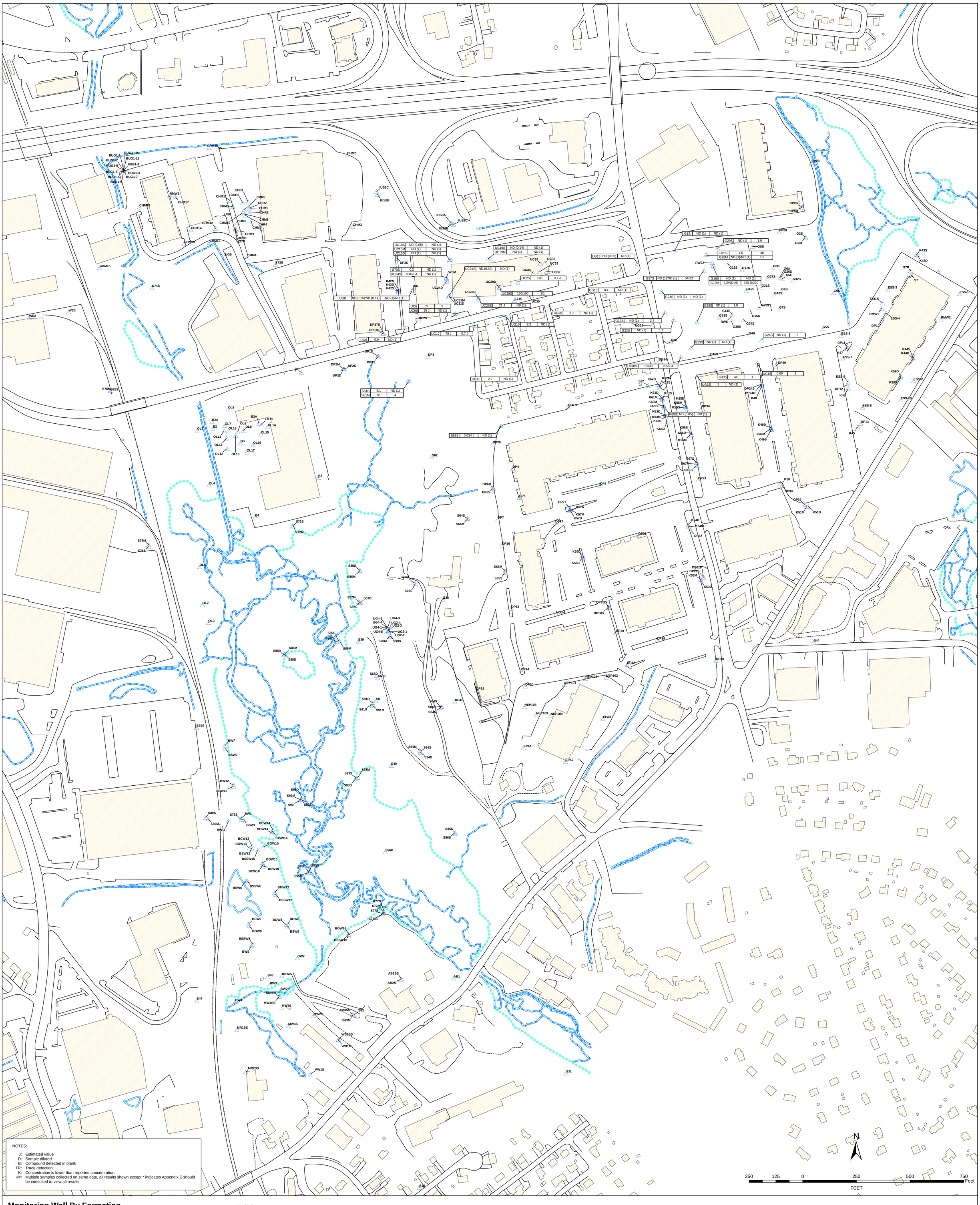
Elevation data are in NGVD 1929 Feet.

FIGURE 14 - DEEP BEDROCK WATER LEVEL ELEVATIONS (SEPTEMBER 2010) WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	DPB	Date:	12/14/10
Reviewed by:	MBM	Date:	12/16/10
Scale:	As Shown	Project:	1-2114-2



NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
##: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results

Monitoring Well By Formation

Monitoring wells installed in unconsolidated deposits

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Wetland
- Stream

Result Definition:

Site ID	PCE	TCE

*All results are in ug/L

FIGURE 15 - 2010 PCE/TCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER

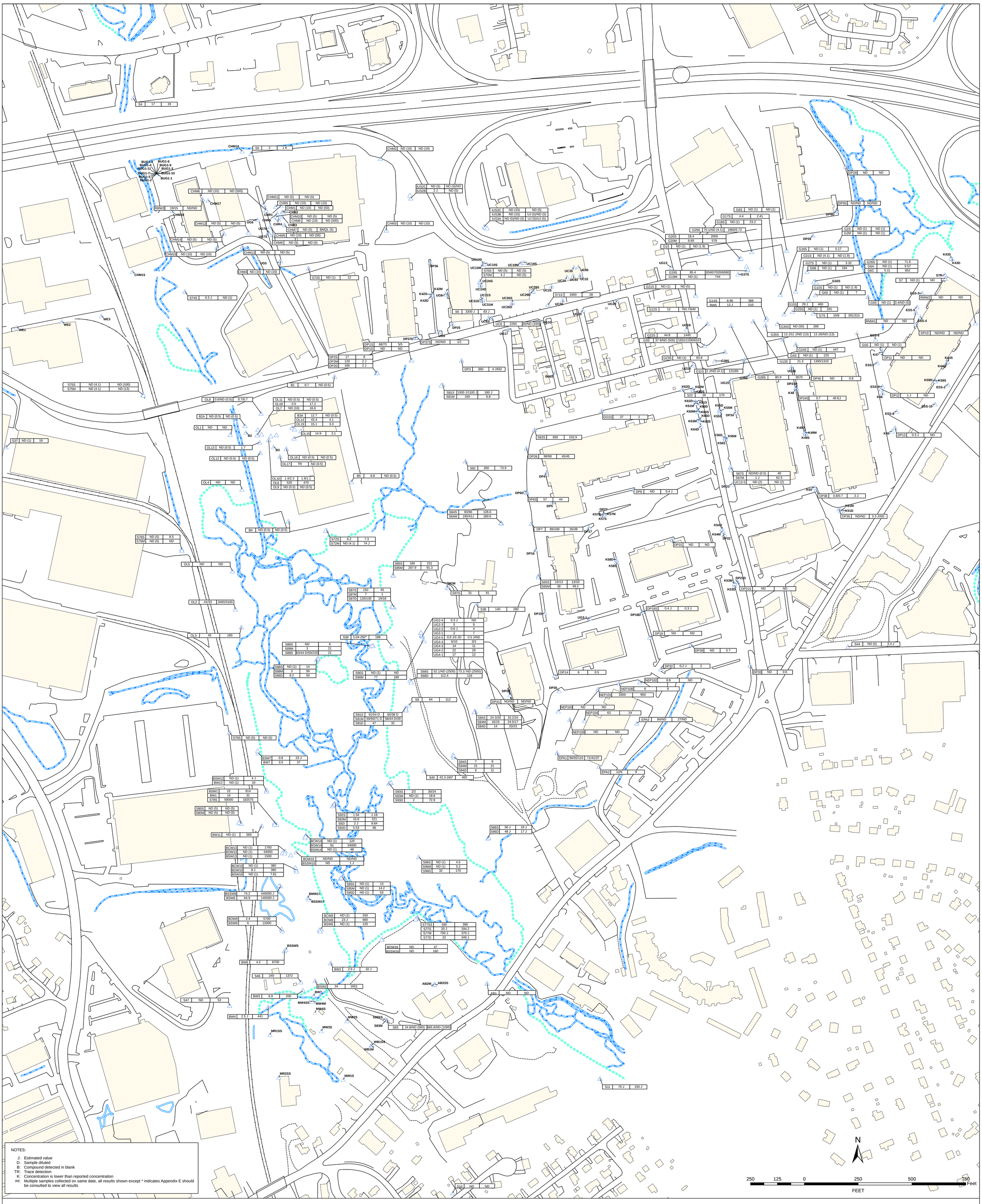
WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

1217 Bandana Blvd N
St. Paul, MN 55108

Drawn By: JJK Date: 12/13/2010
Reviewed By: MEP Date: 12/01/2010
Scale: 1" = 125' Project: 2025-0001

ddms Path: R:\Projects\WXYZ\WRGrace and Unifirst-2025\0001-Wells G and H\DataAnalysis\GISData\Projects\101115_Reporting\Figure15.mxd



NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
##: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results

Monitoring Well By Formation

Monitoring wells installed in unconsolidated deposits

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Wetland
- Stream

Result Definition:

Site ID	PCE	TCE

*All results are in ug/L

FIGURE 16 - MAXIMUM PRE-REMEDY PCE/TCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER

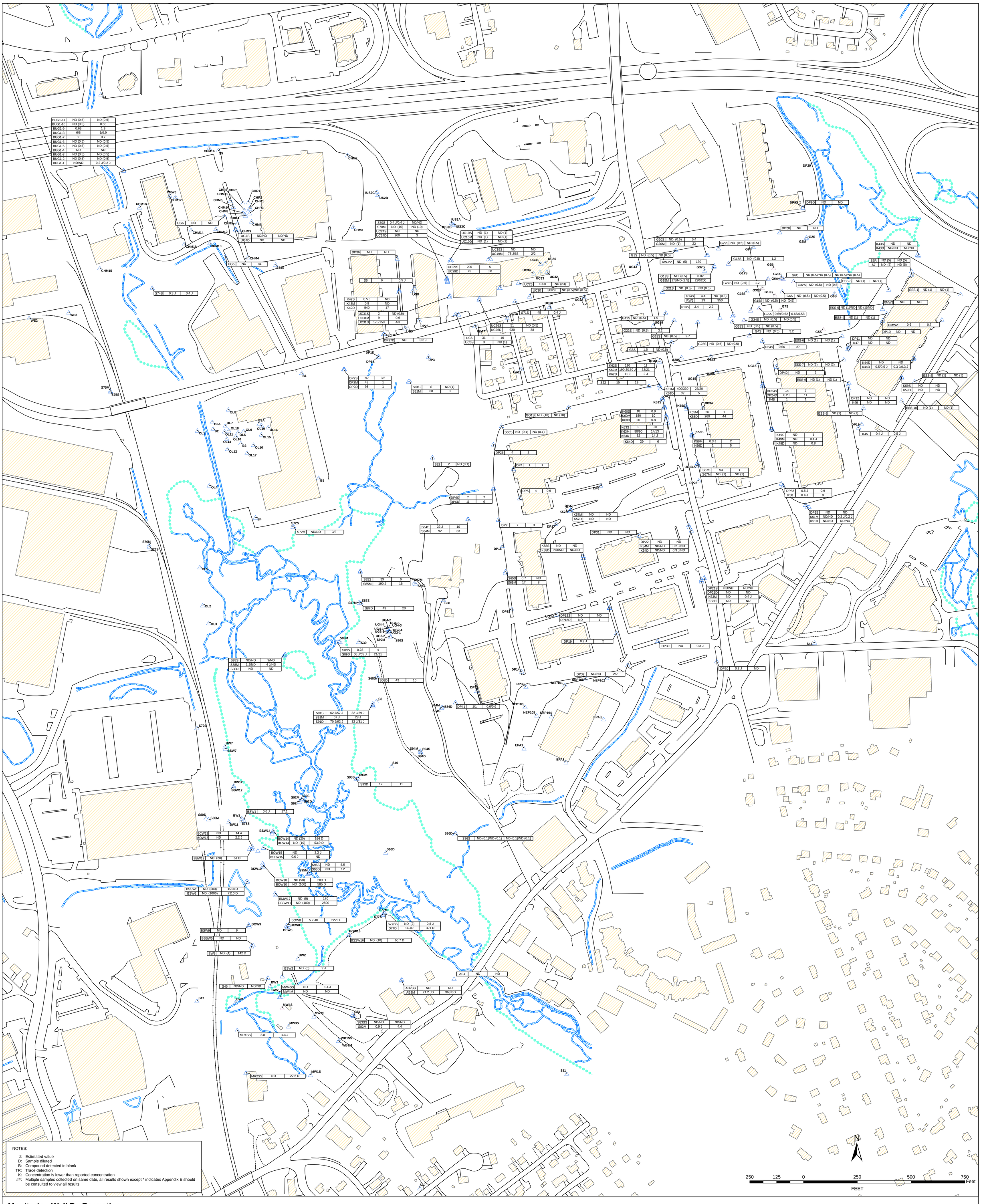
WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

1217 Bandana Blvd N
St. Paul, MN 55108

Drawn By: JJK Date: 12/13/2010
Reviewed By: MEP Date: 12/01/2010
Scale: 1" = 125' Project: 2025-0001

ddms Path: R:\Projects\WXYZ\WRGrace and Unifirst-2025\0001-Wells G and H\DataAnalysis\GISData\Projects\101115_Reporting\Figure16.mxd



NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
##: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results

Monitoring Well By Formation

Monitoring wells installed in unconsolidated deposits

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Wetland
- Stream

Result Definition:

Site ID	PCE	TCE

*All results are in ug/L

FIGURE 17 - 1992 - 2009 MOST RECENT PCE/TCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER

WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

1217 Bandana Blvd N
St. Paul, MN 55108

Drawn By: JJK Date: 12/13/2010
Reviewed By: MEP Date: 12/01/2010
Scale: 1" = 125' Project: 2025-0001

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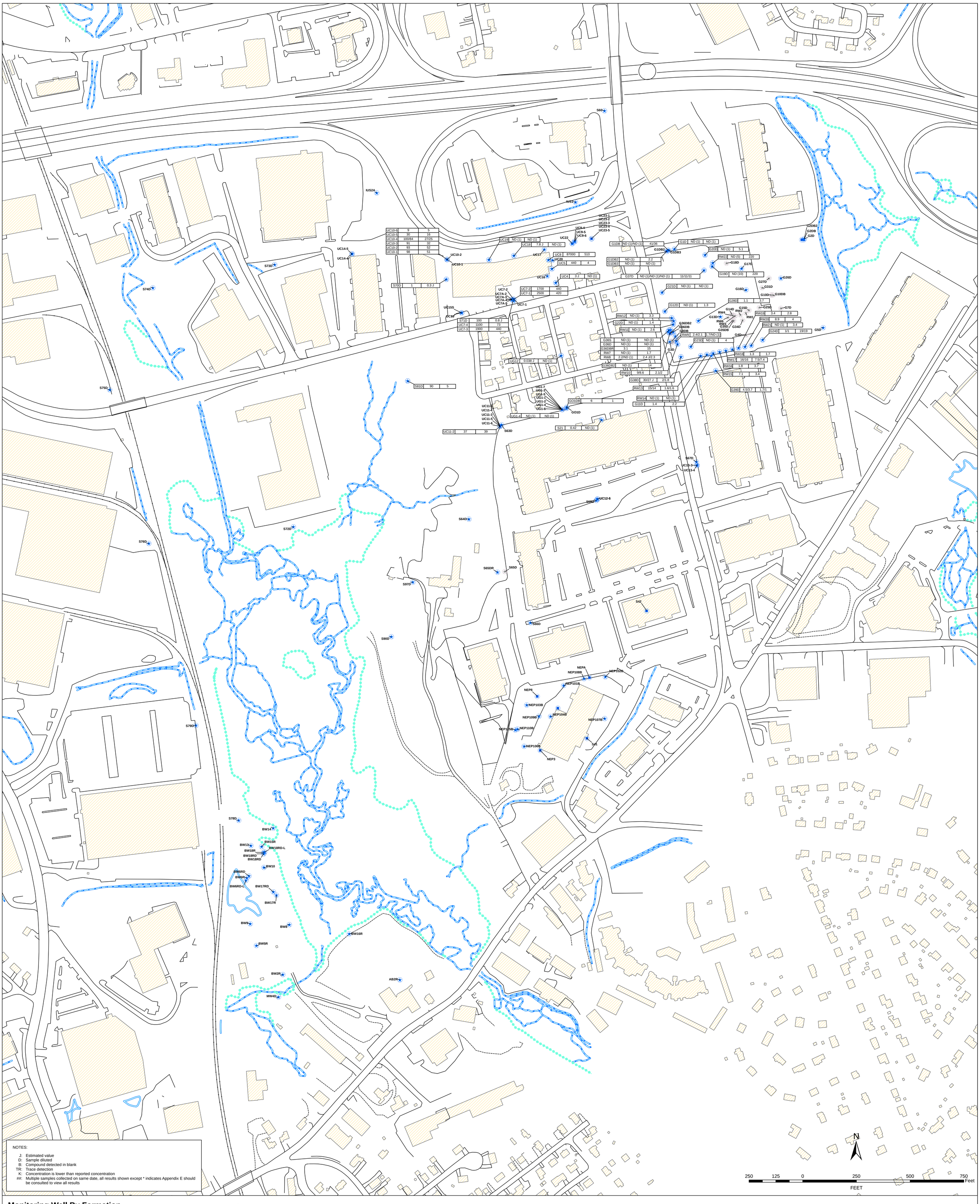

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
##: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results

Monitoring Well By Formation

Monitoring wells installed with the middle of screen more than 100 feet below the bedrock surface.

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

Monitoring wells installed with the middle of screen less than 100 feet below the bedrock surface;

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Wetland
- Stream

Result Definition:

Site ID	PCE	TCE

*All results are in ug/L

FIGURE 18 - 2010 PCE/TCE CONCENTRATIONS IN BEDROCK GROUNDWATER

WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

1217 Bandana Blvd N
St. Paul, MN 55108

Drawn By: JJK Date: 12/13/2010
Reviewed By: MEP Date: 12/01/2010
Scale: 1" = 125' Project: 2025-0001

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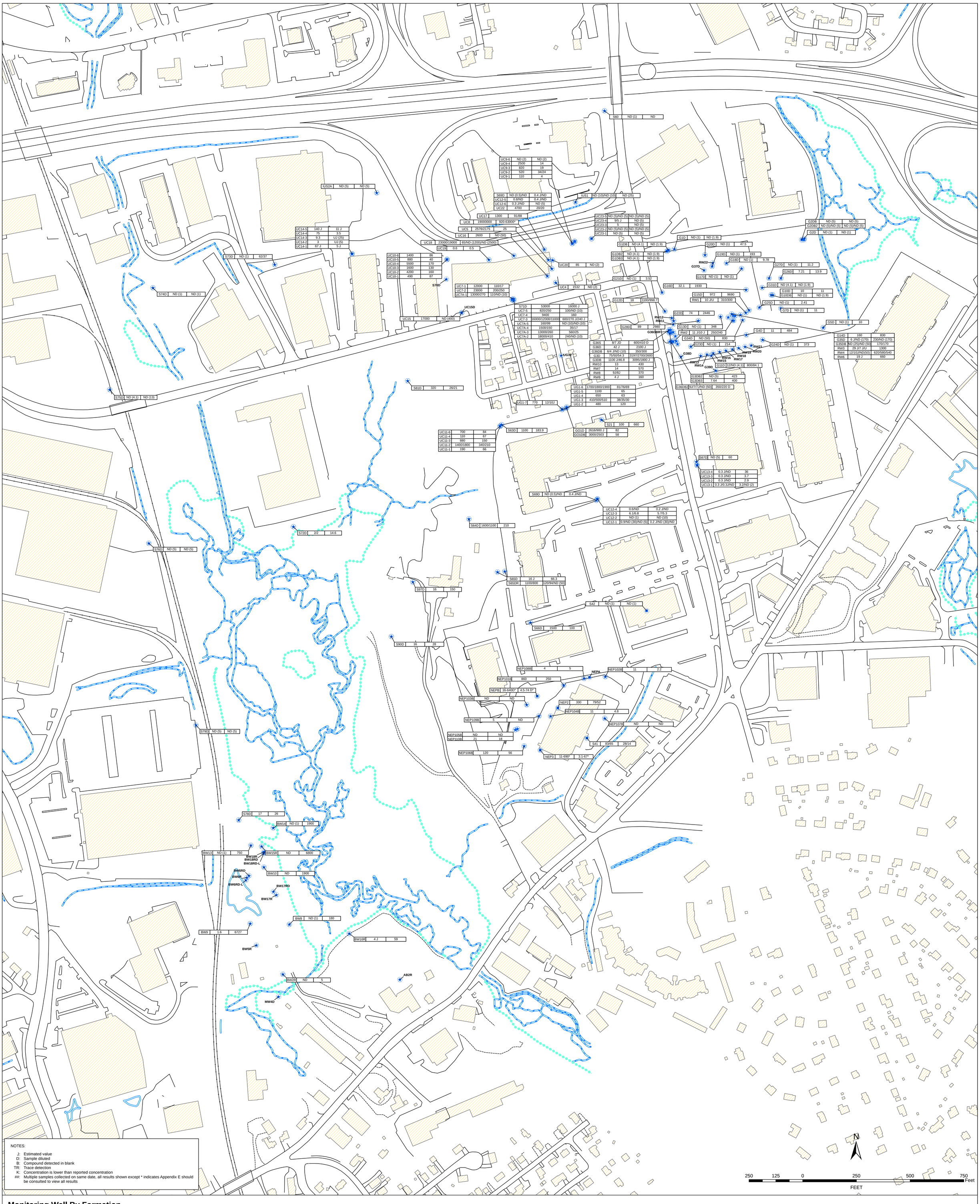

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
##: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results

Monitoring Well By Formation

Monitoring wells installed with the middle of screen more than 100 feet below the bedrock surface.

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

Monitoring wells installed with the middle of screen less than 100 feet below the bedrock surface;

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Wetland
- Stream

Result Definition:

Site ID	PCE	TCE

*All results are in ug/L

FIGURE 19 - MAXIMUM PRE-REMEDY PCE/TCE CONCENTRATIONS IN BEDROCK GROUNDWATER

WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

1217 Bandana Blvd N
St. Paul, MN 55108

Drawn By: JJK Date: 12/13/2010
Reviewed By: MEP Date: 12/01/2010
Scale: 1" = 125' Project: 2025-0001

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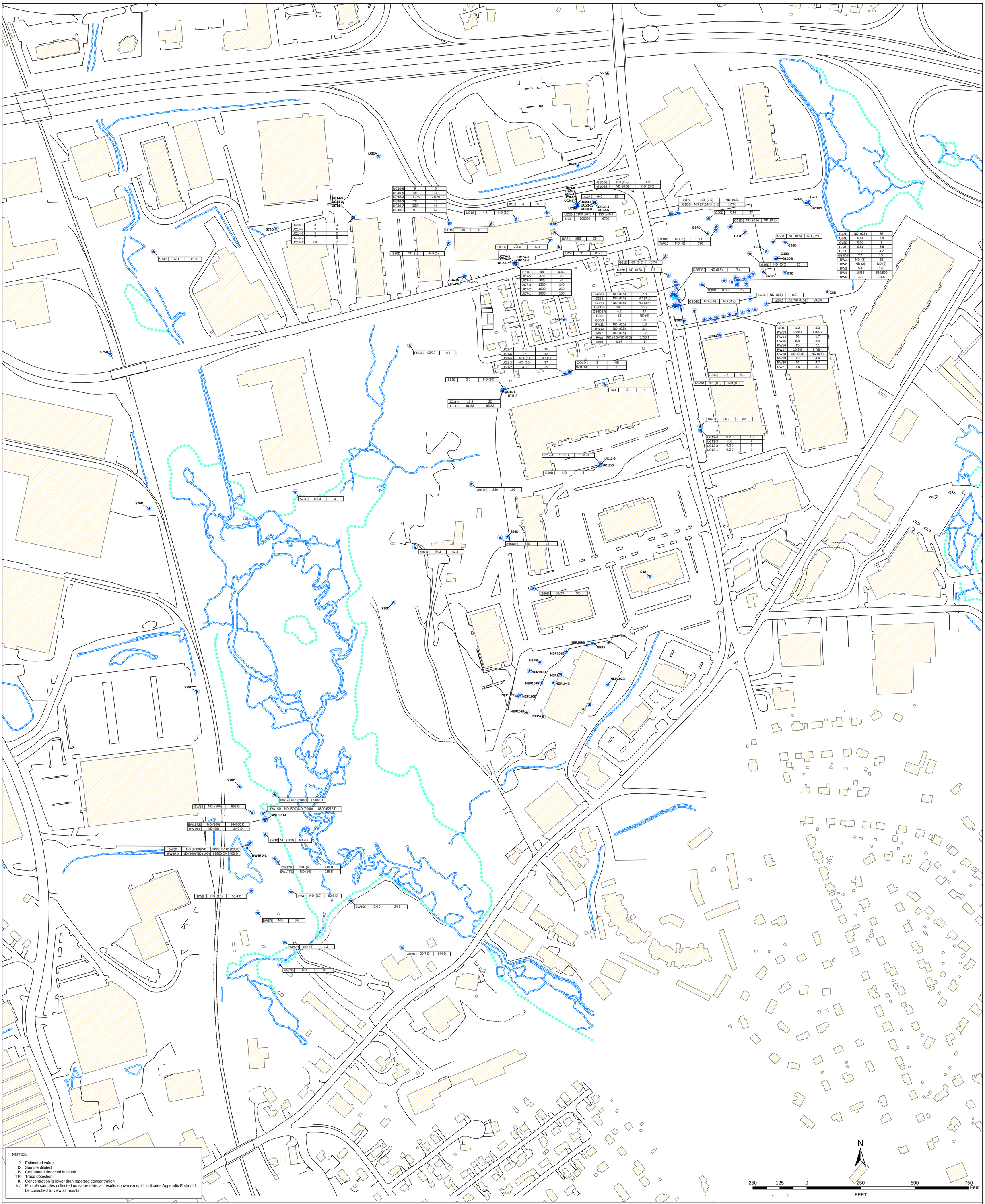

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
##: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results

Monitoring Well By Formation

Monitoring wells installed with the middle of screen more than 100 feet below the bedrock surface.

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

Monitoring wells installed with the middle of screen less than 100 feet below the bedrock surface;

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Wetland
- Stream

Result Definition:

Site ID	PCE	TCE

*All results are in ug/L

FIGURE 20 - 1992-2009 MOST RECENT PCE/TCE CONCENTRATIONS IN BEDROCK GROUNDWATER

WELLS G & H SITE
WOBURN, MASSACHUSETTS

de maximis Data ddms Management Solutions, Inc.
www.ddmsinc.com

1217 Bandana Blvd N
St. Paul, MN 55108

Drawn By: JJK Date: 12/13/2010
Reviewed By: MEP Date: 12/01/2010
Scale: 1" = 125' Project: 2025-0001

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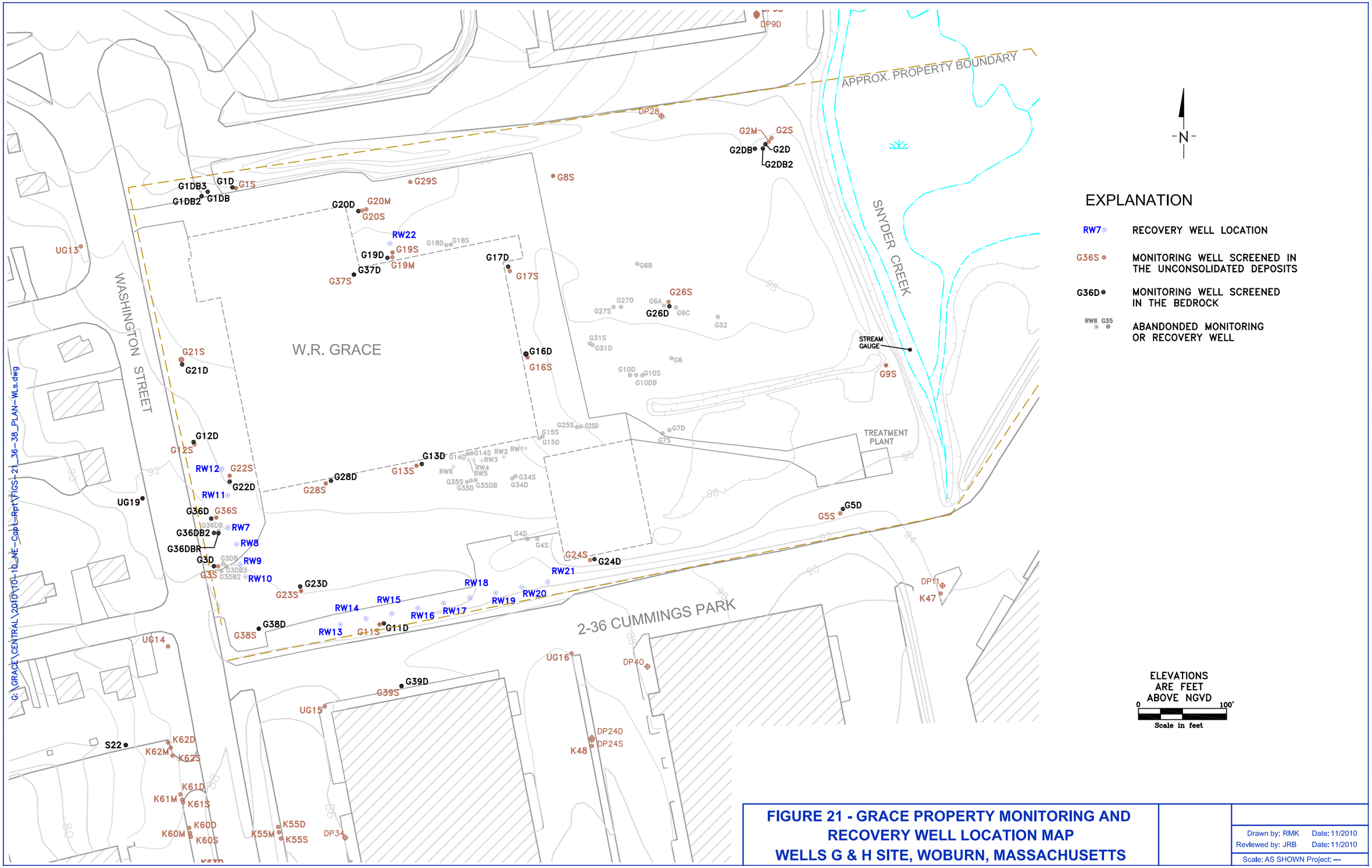


FIGURE 21 - GRACE PROPERTY MONITORING AND RECOVERY WELL LOCATION MAP
WELLS G & H SITE, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: ---

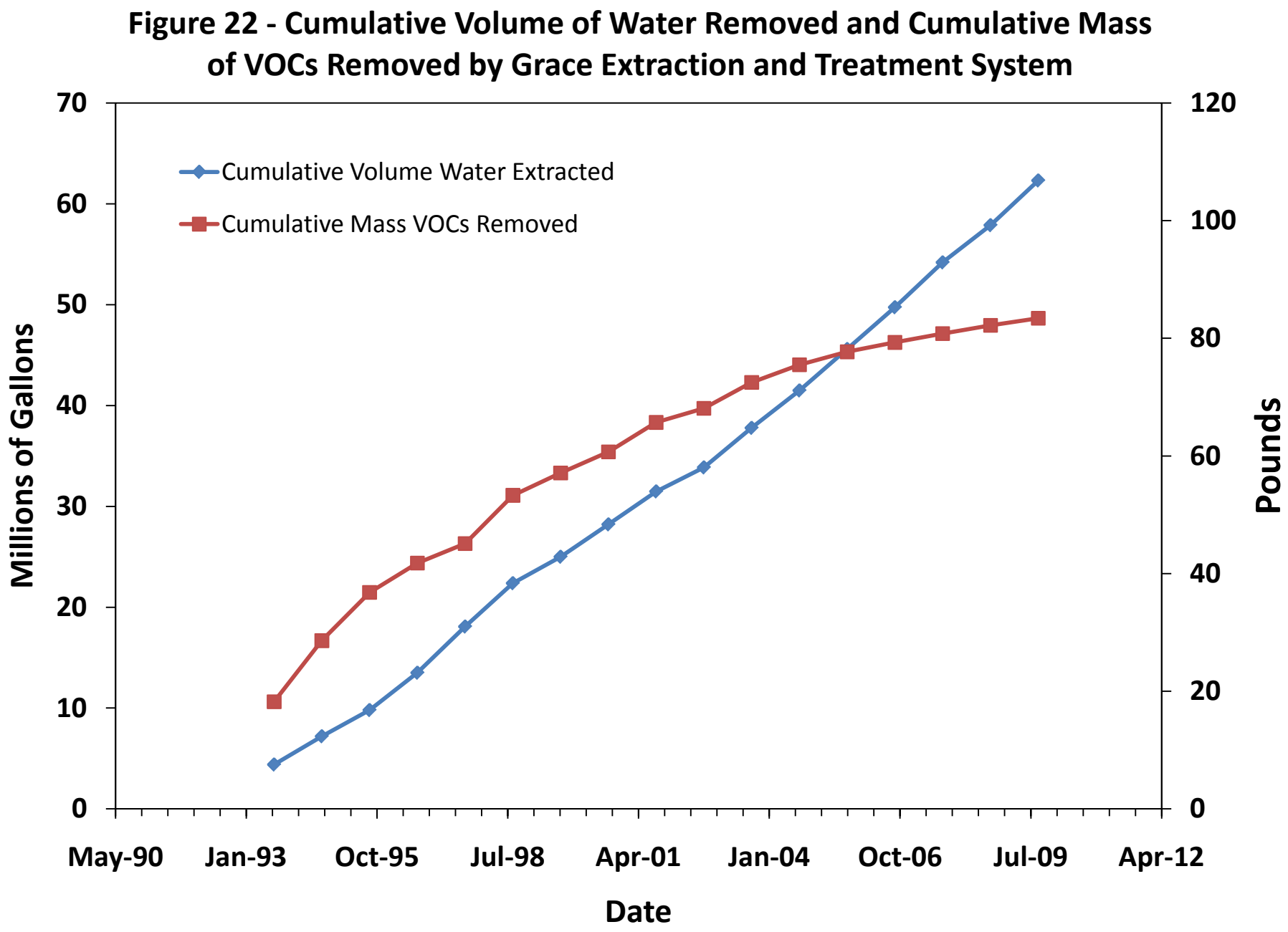
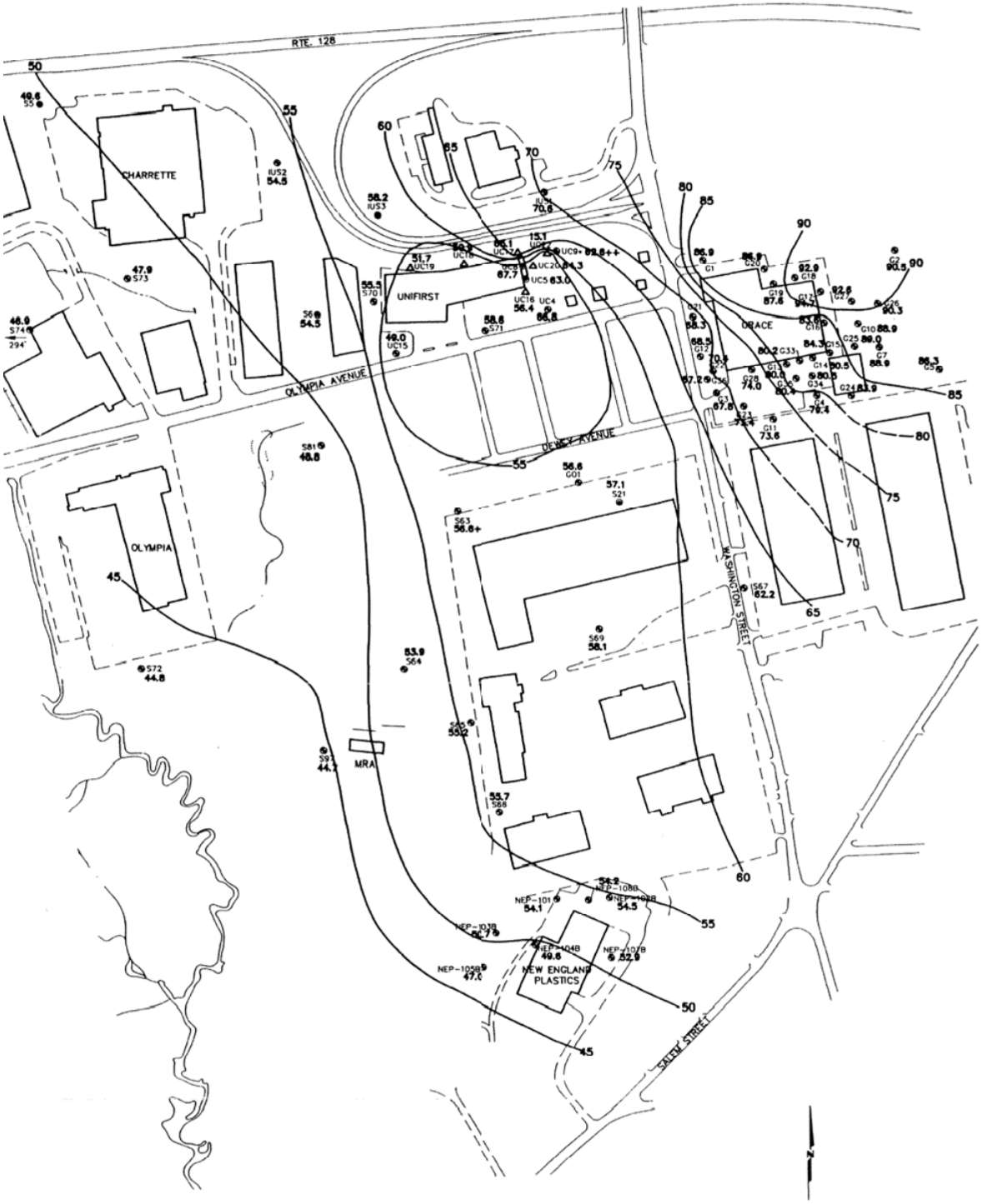


Figure 22 - Cumulative Volume of Water Removed and Cumulative Mass of VOCs Removed by Grace Extraction and Treatment System
Cumulative Volume Water Extracted
Cumulative Mass VOCs Removed
Millions of Gallons
Pounds
Date
0
10
20
30
40
50
60
70
0
20
40
60
80
100
120
May-90
Jan-93
Oct-95
Jul-98
Apr-01
Jan-04
Oct-06
Jul-09
Apr-12



EXPLANATION

G1 ⊕ 88.8 MONITORING WELL SCREENED IN SHALLOW BEDROCK AND WATER LEVEL ELEVATION ON 5/30/91 ROUNDED TO THE TENTH

● MONITORING WELL SCREENED IN BEDROCK AND UNCONSOLIDATED DEPOSITS

70 —— LINE OF EQUAL WATER LEVEL ELEVATION, FIVE FOOT CONTOUR INTERVAL

△ 6-INCH WELL OPEN IN ROCK; UC22 IS AN 8-INCH WELL

* ASTERISK INDICATES MULTIPORT WELLS (e.g. UC10*)

\+ WATER LEVEL MEASURED ON 5/29/91

++ WATER LEVEL MEASURED ON 5/24/91

NOTE: —THIS MAP IS CONSIDERED ESTIMATED DUE TO THE 55 FOOT LINE OF EQUAL WATER LEVEL ELEVATION

Prepared by ENSR and Consulting and Engineering

MAP SOURCE: 1966 TOPOGRAPHIC MAP FOR PLANNING BOARD, CITY OF WOBURN, MASSACHUSETTS, LOCKWOOD, KESSLER & BARTLETT, INC., INCLUDING THE MODIFICATIONS MADE BY THE U.S. GEOLOGICAL SURVEY AND CONTAINED IN A 1987 U.S. GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4100 TITLED "AREA OF INFLUENCE AND ZONE OF CONTRIBUTION TO SUPERFUND-SITE WELLS G AND H, WOBURN, MASSACHUSETTS".

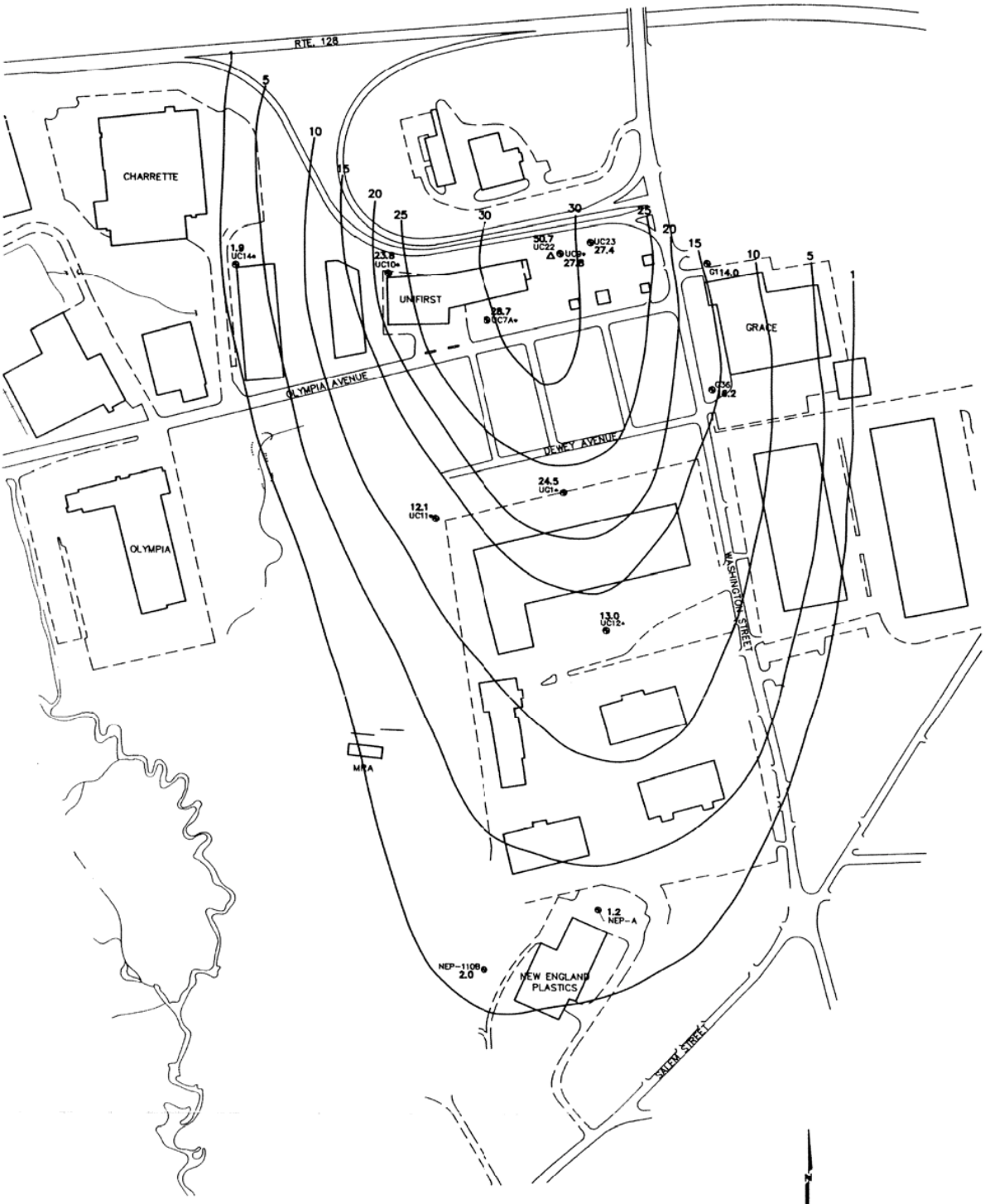
Figure 23 - Shallow Bedrock Water Level Elevations
on Day 30 of UniFirst / Grace Pilot Test
Wells G & H Site
Woburn, Massachusetts

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Source: EPC (1991) Figure 3.1-2

Scale: As Shown Project: 1-2114-2



EXPLANATION

G1 ⊕ 14 MONITORING WELL SCREENED IN DEEP BEDROCK AND MAXIMUM DRAWDOWN (ft) MEASURED 5/30/91 ROUNDED TO THE TENTH

70 —— LINE OF EQUAL DRAWDOWN FIVE FOOT CONTOUR INTERVAL

Δ UC22 IS AN 8-INCH WELL OPEN IN ROCK

• ASTERISK INDICATES MULTIPORT WELLS (e.g. UC10•)

NOTE: – THE MAXIMUM DRAWDOWN VALUE DEPICTED ONE FOOT LESS THAN THE ACTUAL MEASUREMENT
– ONLY WELLS WITH THE GREATEST RESPONSE TO PUMPING ARE PRESENTED ALONG WITH WELLS UC14, NEP-A AND NEP-110B FOR BOUNDARY DEFINITION

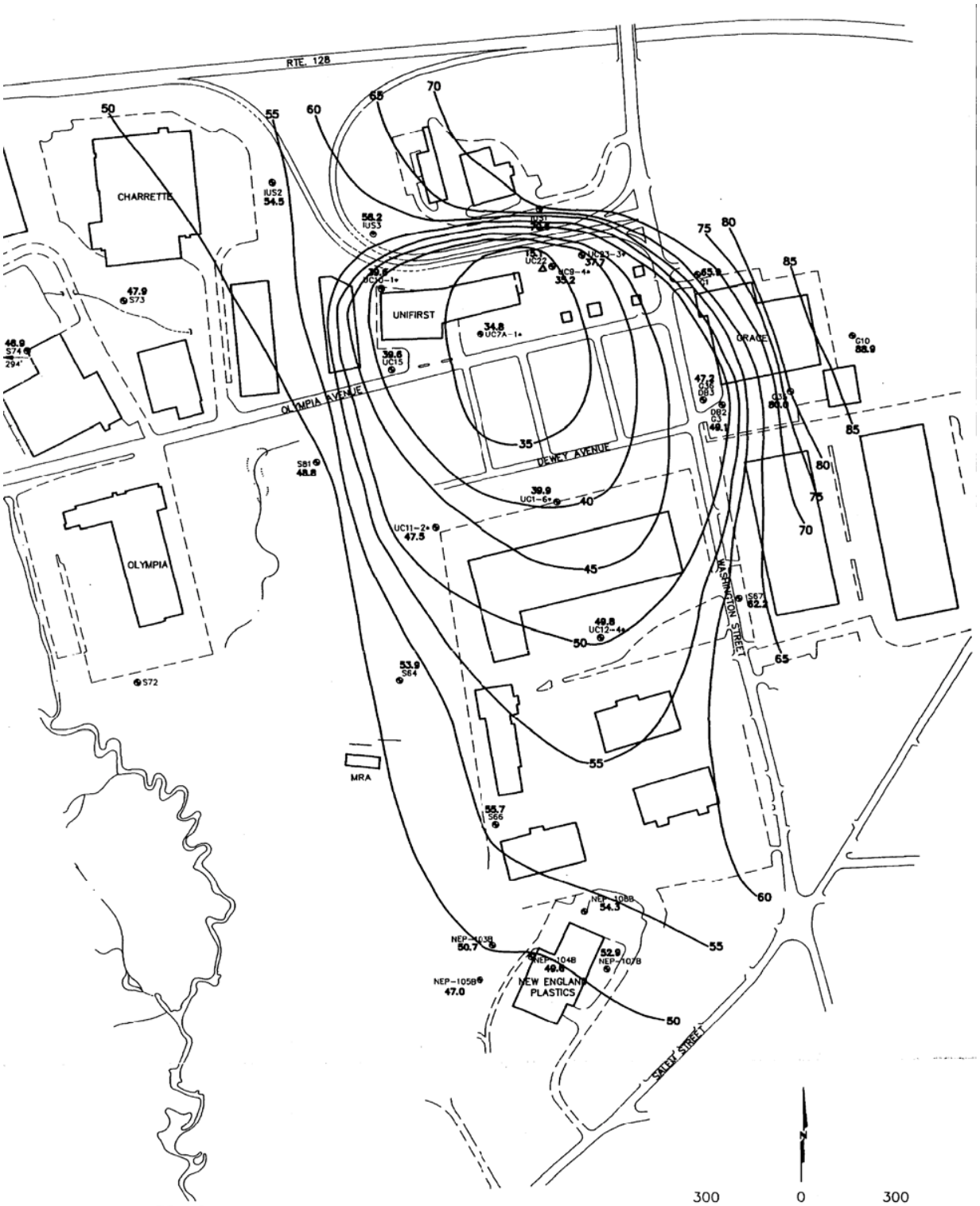
300 0 300
SCALE IN FEET

DRAFT

Prepared by ENSR Consulting and Engineering

MAP SOURCE: 1966 TOPOGRAPHIC MAP FOR PLANNING BOARD, CITY OF WOBURN, MASSACHUSETTS, LOCKWOOD, KESSLER & BARTLETT, INC., INCLUDING THE MODIFICATIONS MADE BY THE U.S. GEOLOGICAL SURVEY AND CONTAINED IN A 1987 U.S. GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4100 TITLED "AREA OF INFLUENCE AND ZONE OF CONTRIBUTION TO SUPERFUND-SITE WELLS G AND H, WOBURN, MASSACHUSETTS".

Figure 24 - Bedrock Water Level Drawdown on Day 30 of UniFirst / Grace Pilot Test Wells G & H Site Woburn, Massachusetts	The Johnson Company	100 State Street, Suite 600 Montpelier, VT 05602
		Source: EPC (1991) Figure 3.1-3
		Scale: As Shown Project: 1-2114-2



EXPLANATION

G1 ⊕ 88.8 MONITORING WELL SCREENED IN DEEP BEDROCK AND WATER LEVEL ELEVATION 5/30/91 ROUNDED TO THE TENTH

● MONITORING WELL SCREENED IN BEDROCK AND UNCONSOLIDATED DEPOSITS

70 —— LINE OF EQUAL WATER LEVEL ELEVATION, FIVE FOOT CONTOUR INTERVAL

△ UC22 IS AN 8-INCH WELL.

UC10-1* ASTERISK INDICATES MULTIPORT WELLS. THE SECOND NUMBER (2) INDICATES THE PORT USED FOR THE SPECIFIED MEASUREMENT

NOTES: – THOSE WELL LOCATIONS WITH MEASURED DRAWDOWN ON DAY 30 OVER 20 FEET ON THE UNIFIRST PROPERTY AND OVER 10 FEET OUTSIDE THE UNIFIRST PROPERTY ARE CONSIDERED GREATEST RESPONSE WELLS

– IT WAS NECESSARY TO INCLUDE SOME SHALLOW BEDROCK WELLS ALONG WITH THE DEEP GREATEST RESPONDING WELLS IN ORDER TO COMPLETE THE POTENTIOMETRIC SURFACE

Prepared by ENSR Consulting and Engineering

MAP SOURCE: 1966 TOPOGRAPHIC MAP FOR PLANNING BOARD, CITY OF WOBURN, MASSACHUSETTS, LOCKWOOD, KESSLER & BARTLETT, INC., INCLUDING THE MODIFICATIONS MADE BY THE U.S. GEOLOGICAL SURVEY AND CONTAINED IN A 1987 U.S. GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 87-4100 TITLED "AREA OF INFLUENCE AND ZONE OF CONTRIBUTION TO SUPERFUND-SITE WELLS G AND H, WOBURN, MASSACHUSETTS".

Figure 25 - Bedrock Water Level Elevations
on Day 30 of UniFirst / Grace Pilot Test
Wells G & H Site
Woburn, Massachusetts

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Source: EPC (1991) Figure 3.1-4

Scale: As Shown Project: 1-2114-2

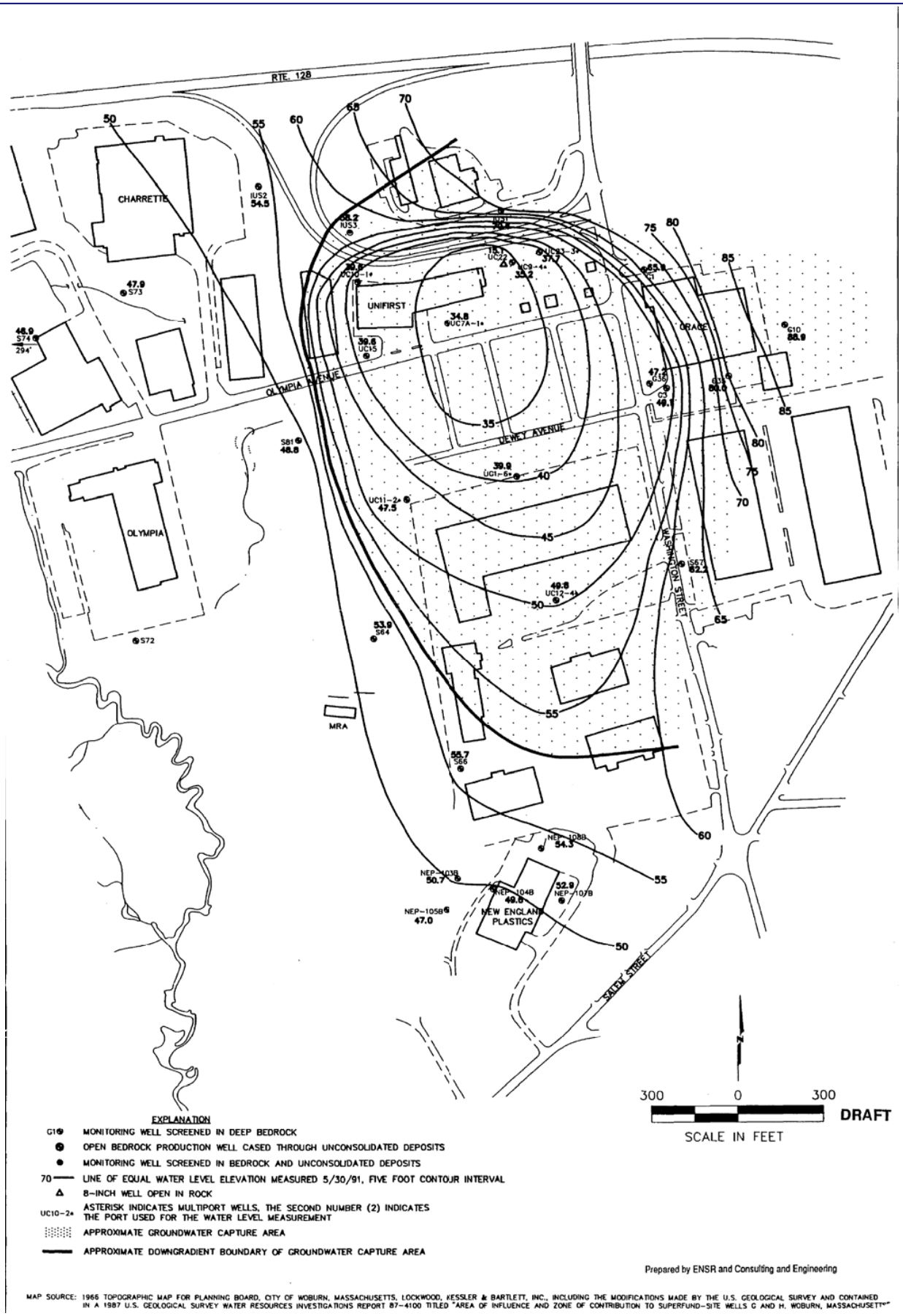


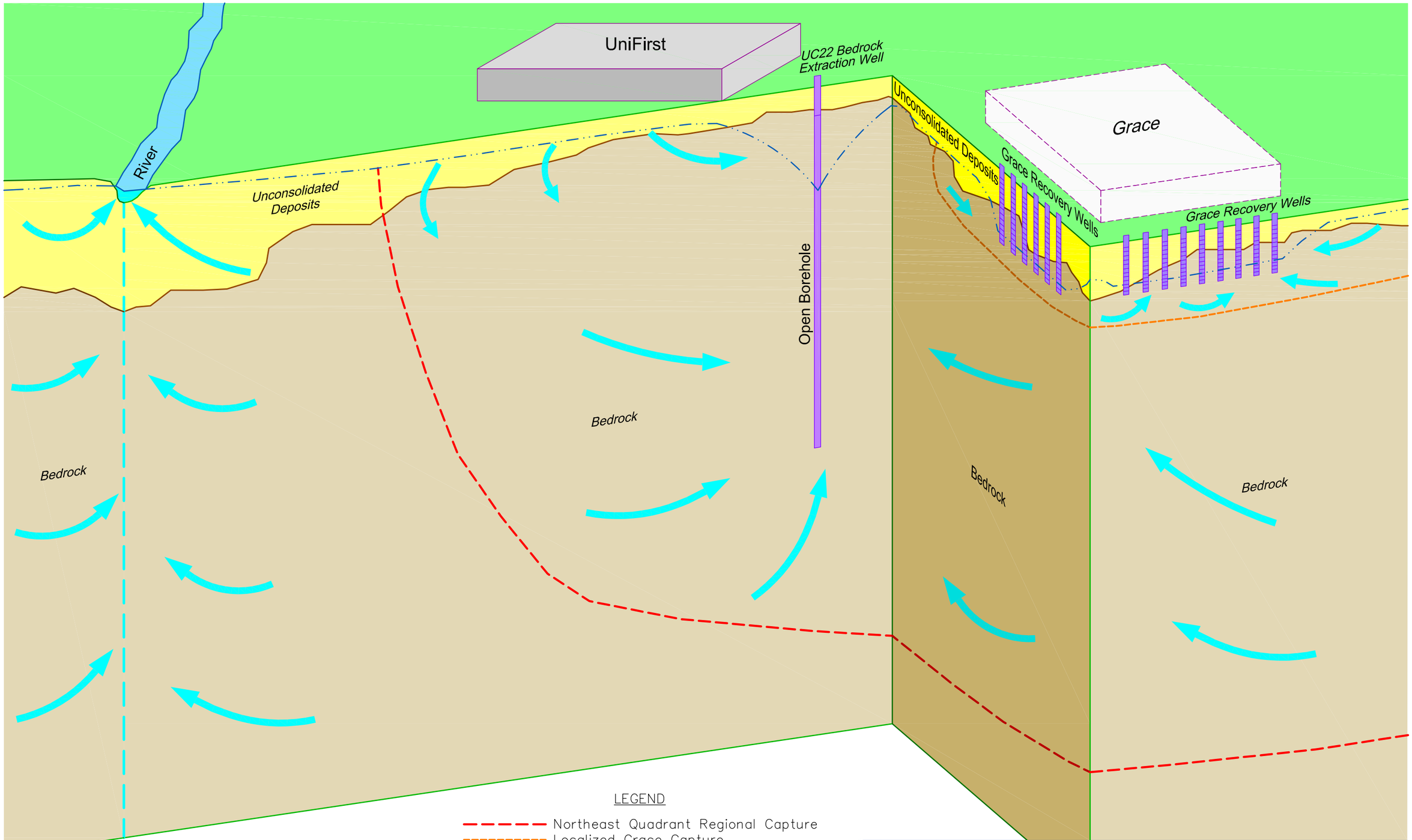
Figure 26 - Estimated Groundwater Capture Area
on Day 30 of UniFirst / Grace Pilot Test
Wells G & H Site
Woburn, Massachusetts

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Source: EPC (1991) Figure 3.1-13

Scale: As Shown Project: 1-2114-2



DRAFT

K:\1-2114-2\CAD\CMODEL.dwg

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602
(802) 229-4600

Drawn by: TJK	Date: 11/30/10
Chk'd by: MBM	Date: 11/30/10
Scale: None	Project: 1-2114-2

FIGURE 27 - CONCEPTUAL SITE MODEL OF GROUNDWATER CAPTURE IN THE NORTHEAST QUADRANT WELLS G & H SITE, WOBURN, MASSACHUSETTS

Figure 28 - PCE Influent Concentrations to UniFirst Treatment Plant

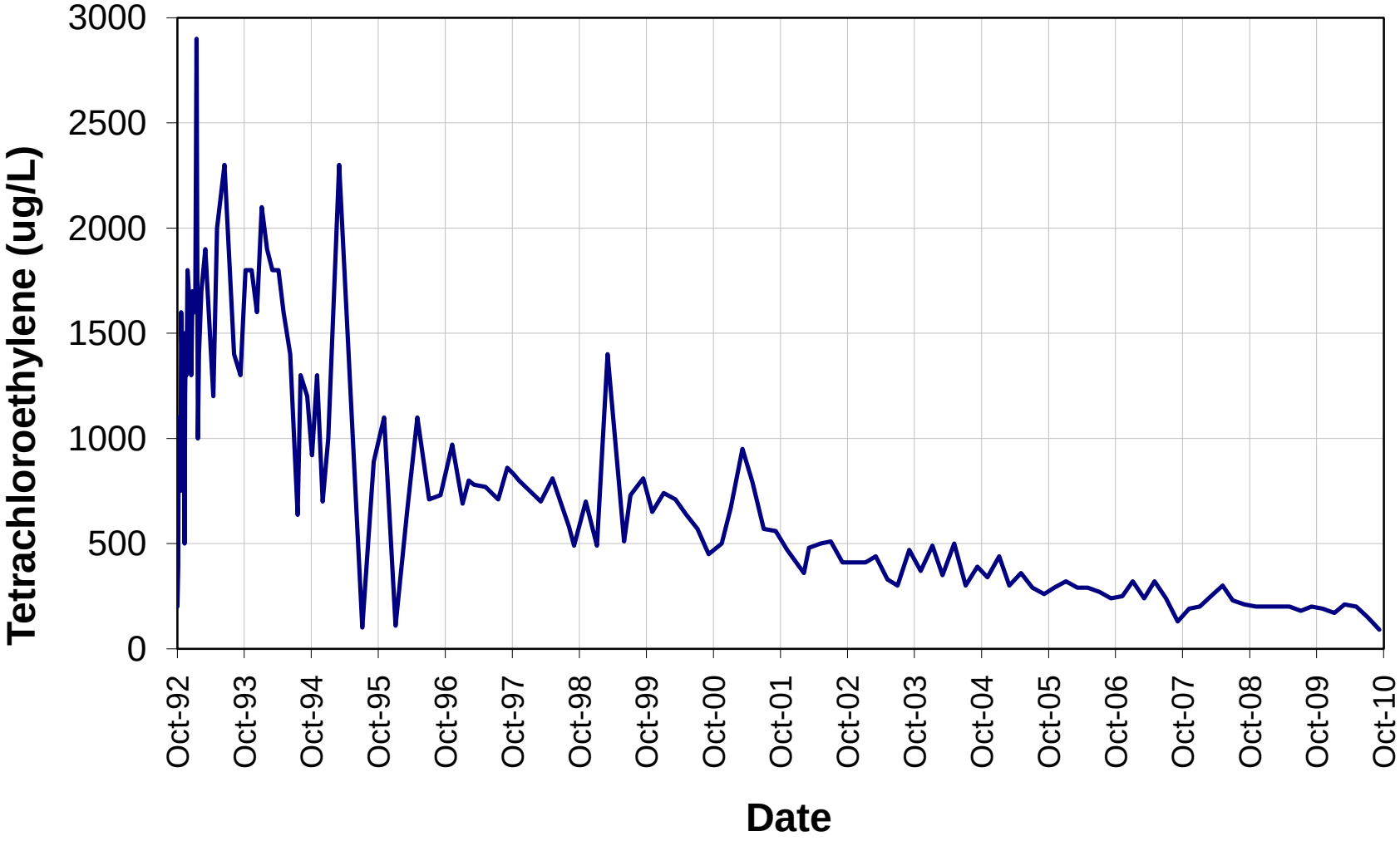
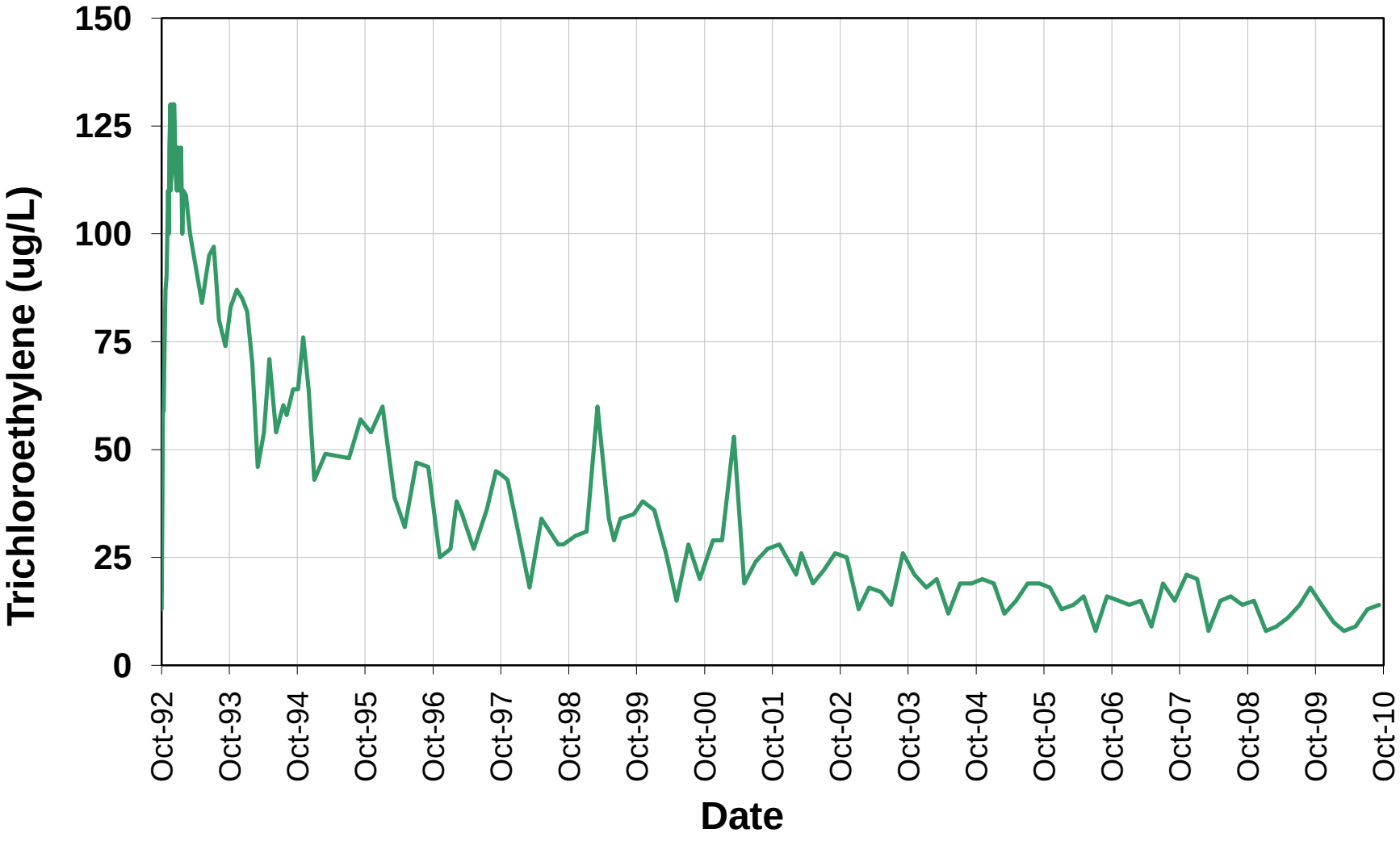


Figure 29 - TCE Influent Concentrations to UniFirst Treatment Plant



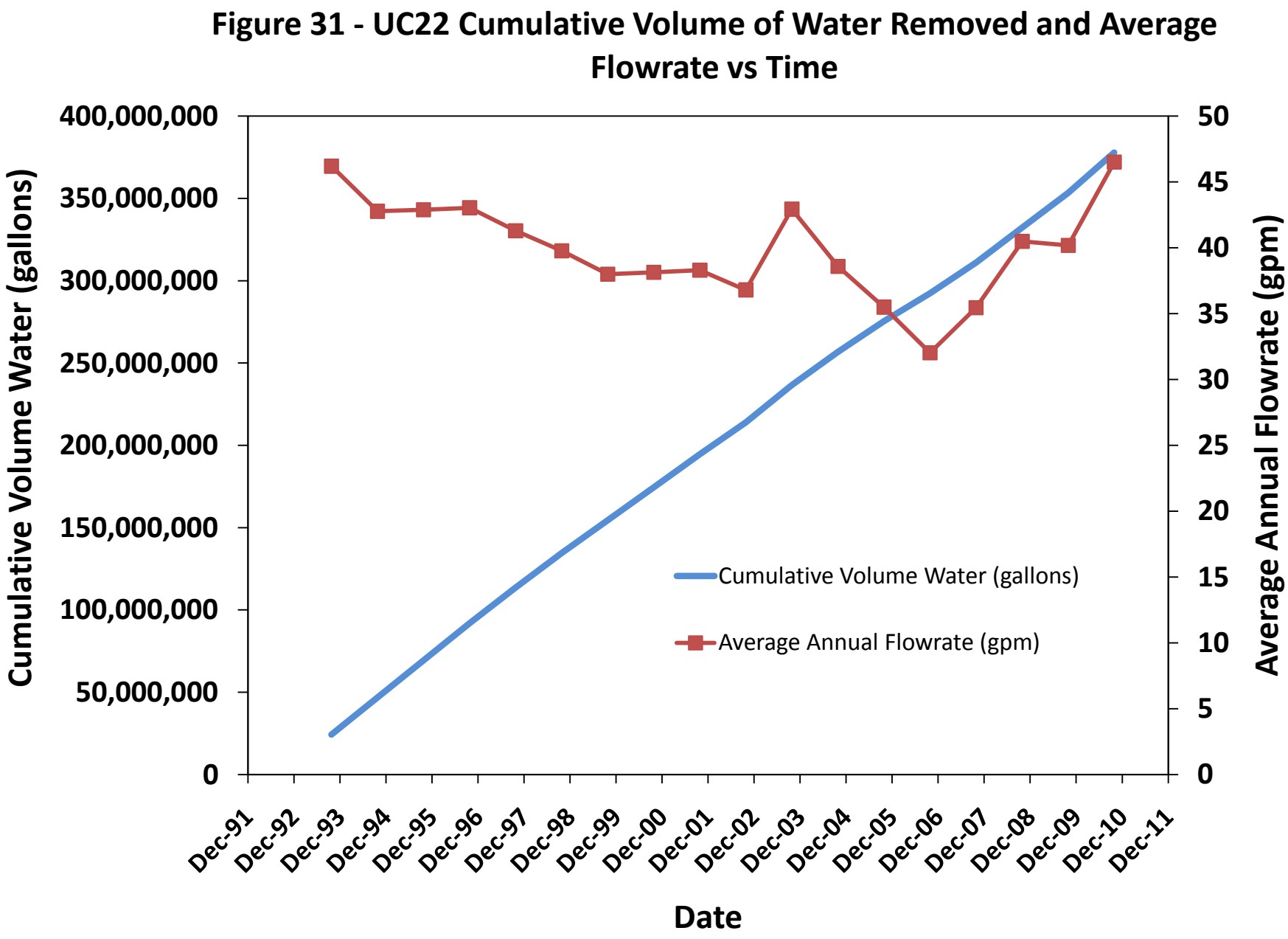


Figure 31 - UC22 Cumulative Volume of Water Removed and Average Flowrate vs Time
Cumulative Volume Water (gallons)
400,000,000
350,000,000
300,000,000
250,000,000
200,000,000
150,000,000
100,000,000
50,000,000
0
Average Annual Flowrate (gpm)
50
45
40
35
30
25
20
15
10
5
0
Cumulative Volume Water (gallons)
Average Annual Flowrate (gpm)
Dec-91
Dec-92
Dec-93
Dec-94
Dec-95
Dec-96
Dec-97
Dec-98
Dec-99
Dec-00
Dec-01
Dec-02
Dec-03
Dec-04
Dec-05
Dec-06
Dec-07
Dec-08
Dec-09
Dec-10
Dec-11
Date

Figure 30 - Cumulative Mass of PCE and TCE Removed by UC22 Extraction System

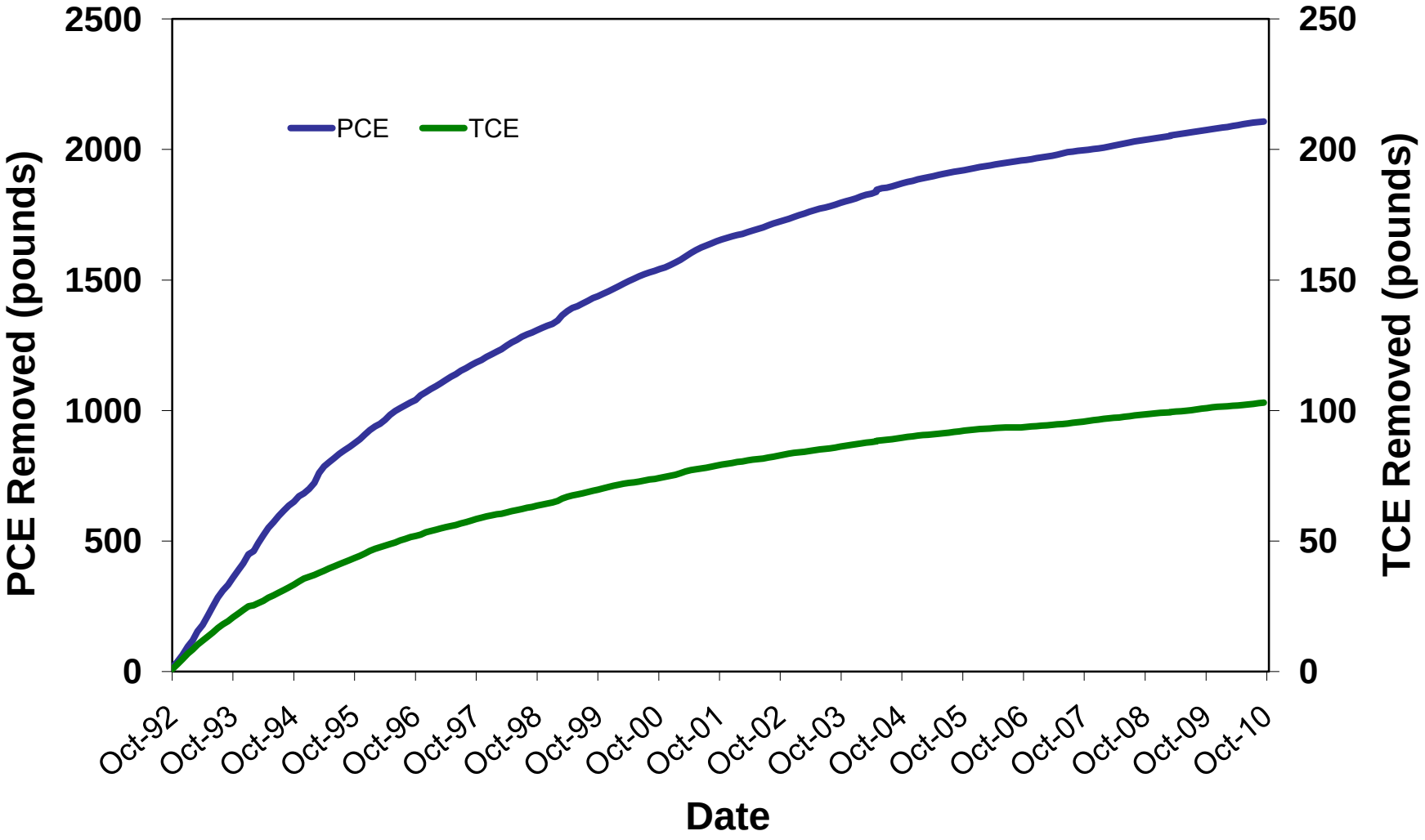
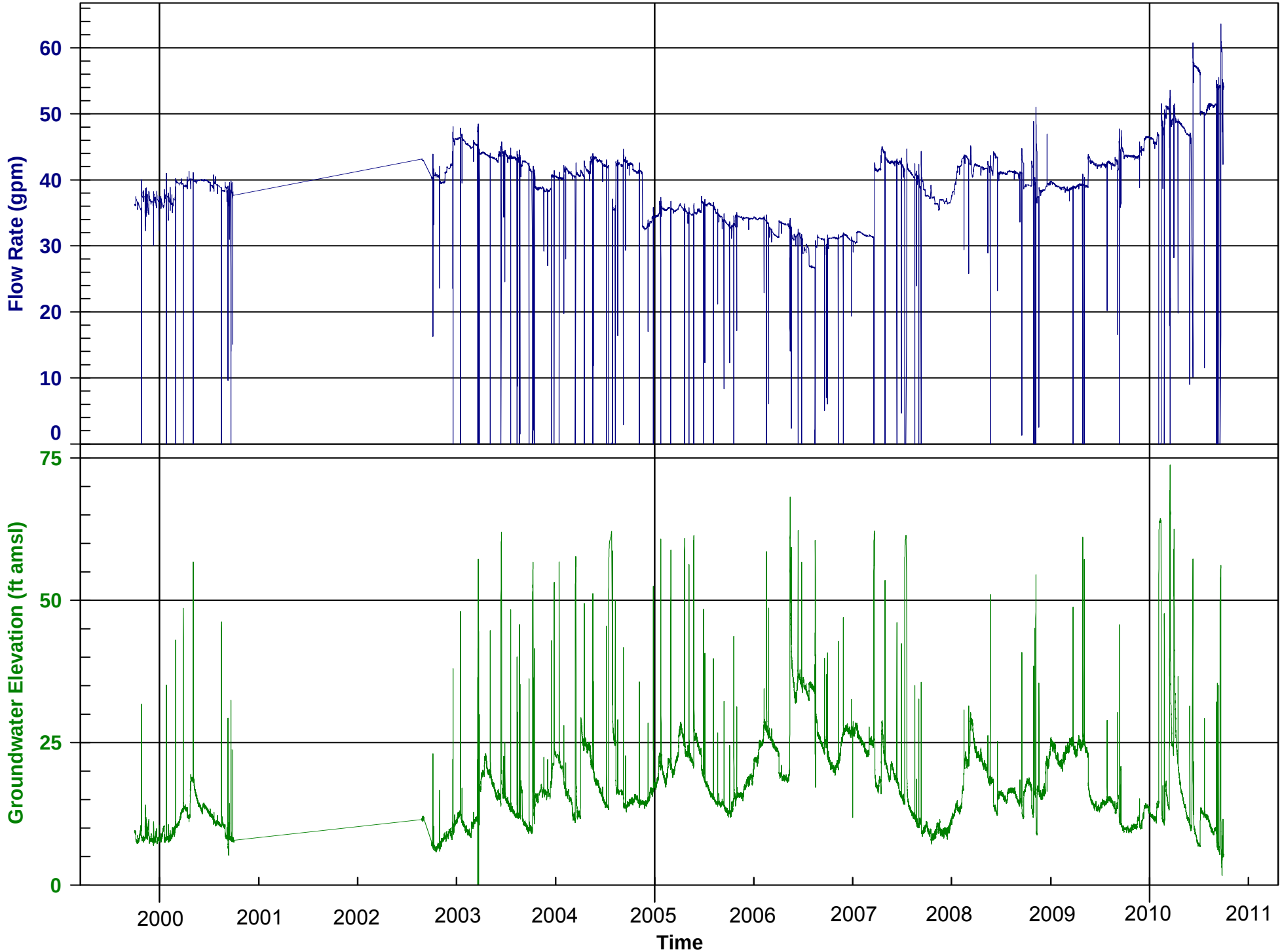


Figure 32 - UC22 Daily Water Level and Flowrate vs. Time

UniFirst Groundwater Treatment Facility



G:\GRACE\CENTRAL\2010\10-10_NE-Cept-Rpt\1991-PRE-EXT-SYS-WLs.dwg

EXPLANATION

G1 ⊕ 89.5 MONITORING WELL SCREENED IN UNCONSOLIDATED DEPOSITS AND WATER LEVEL ELEVATION ON 4/25/91 ROUNDED TO THE TENTH

⊘ ABANDONED WATER WELL SCREENED IN UNCONSOLIDATED DEPOSITS

⊕ MONITORING WELL SCREENED IN BEDROCK AND UNCONSOLIDATED DEPOSITS

70 ——— LINE OF EQUAL WATER LEVEL ELEVATION, FIVE FOOT CONTOUR INTERVAL

NOTE: ALL WATER LEVEL ELEVATIONS ARE FROM S (SHALLOW) WELLS

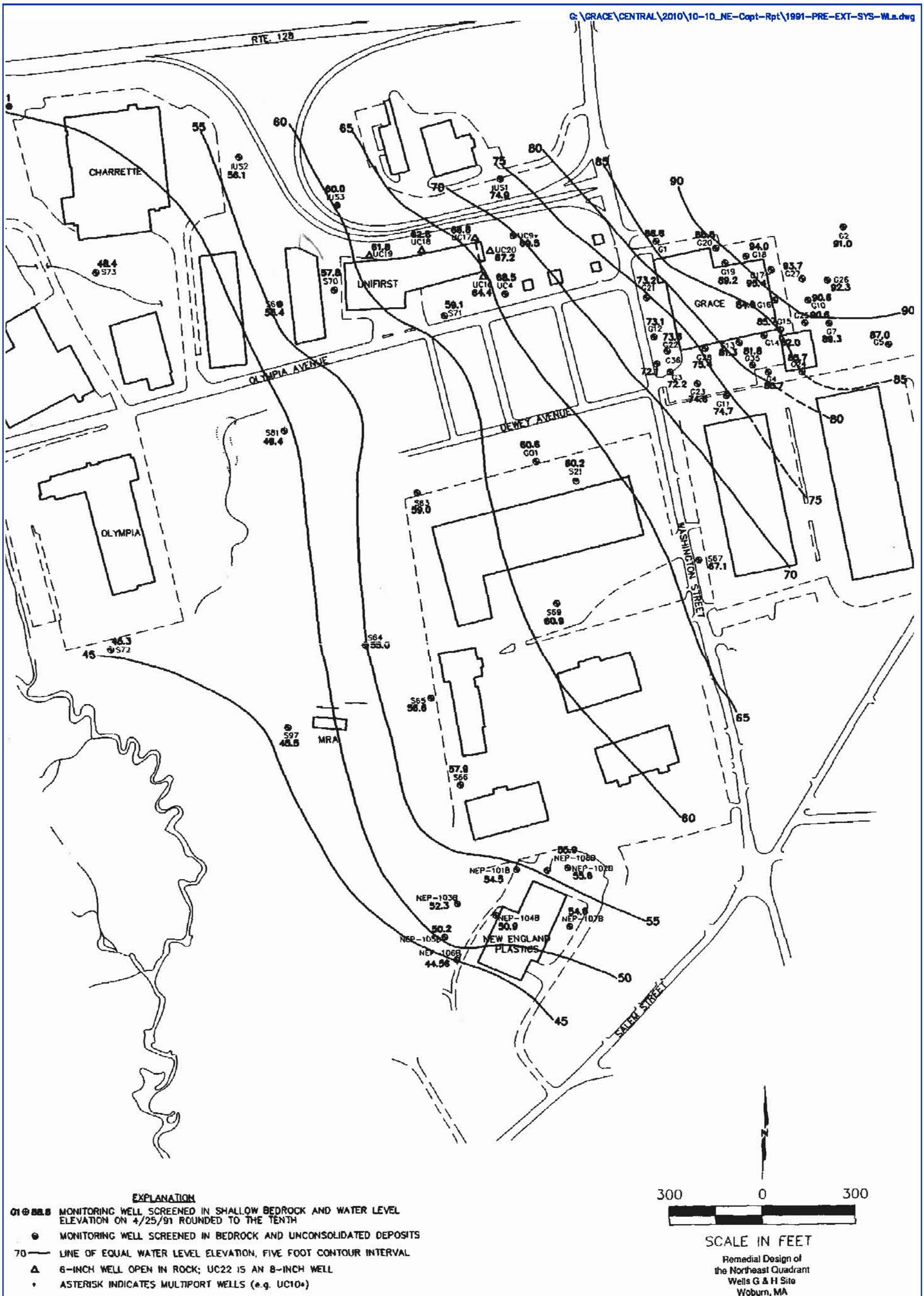
Remedial Design of
the Northeast Quadrant
Wells G & H Site
Woburn, MA

Source: RDIRFD (EPC, 1991), Figure 2.2-1

FIGURE 33 - UNCONSOLIDATED DEPOSITS WATER LEVEL ELEVATIONS (PRE-REMEDY OPERATION) WELLS G & H SITE, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —

G:\GRACE\CENTRAL\2010\10-10_NE-Cont-Rpt\1991-PRE-EXT-SYS-WLs.dwg



Source: RDIRFD (EPC, 1991), Figure 2.2-2

FIGURE 34 - SHALLOW BEDROCK WATER LEVEL ELEVATIONS (PRE-REMEDY OPERATION) WELLS G & H SITE, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —

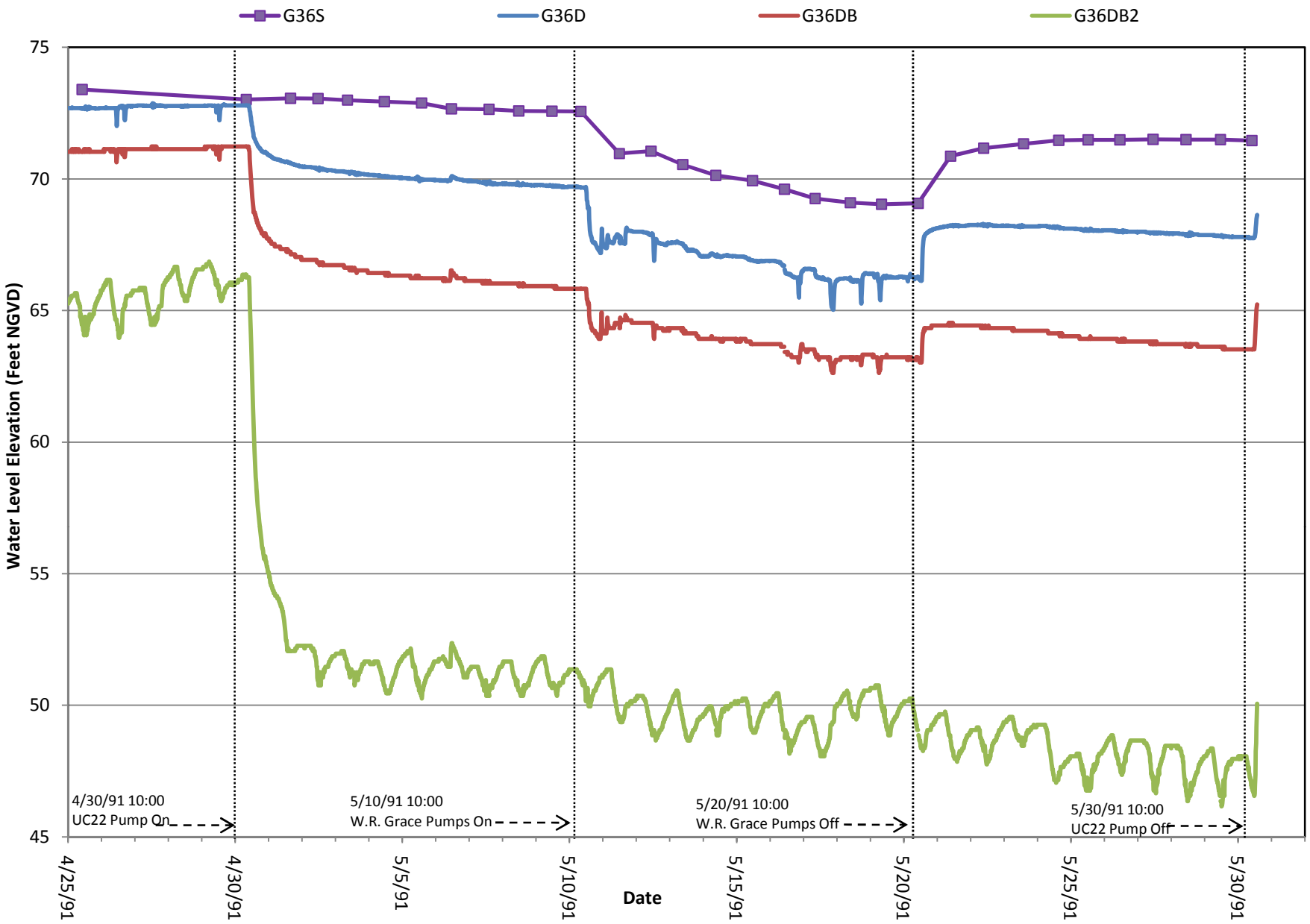
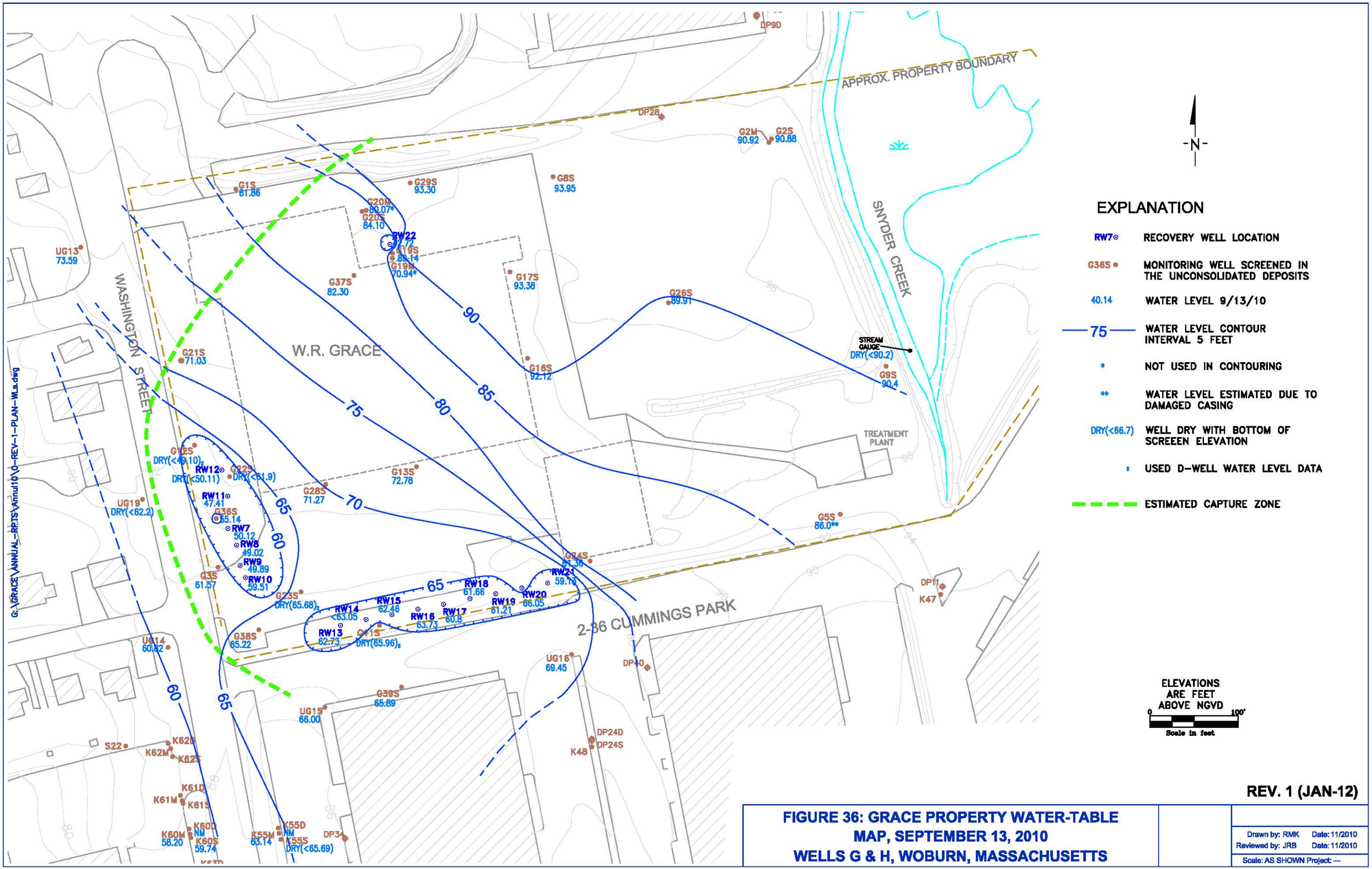


Figure 35 Water Level Hydrograph for G36 Well Cluster During 1991 30-day Pilot Test

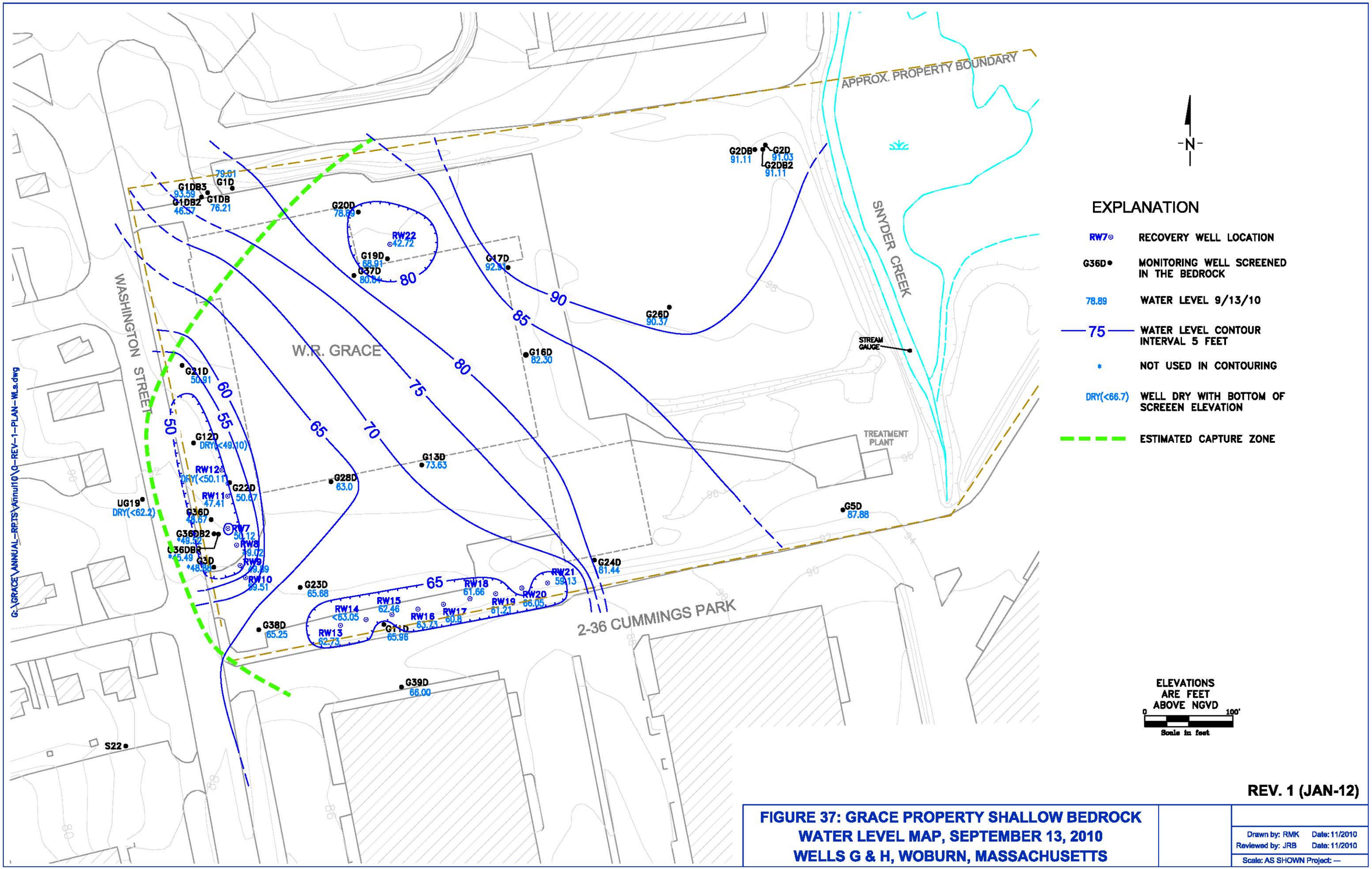
C:\Work\Woburn\NE Quadrant\WL Figs\LOG0-ALL.xlsxG36 Chart



REV. 1 (JAN-12)

FIGURE 36: GRACE PROPERTY WATER-TABLE MAP, SEPTEMBER 13, 2010
WELLS G & H, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —



REV. 1 (JAN-12)

FIGURE 37: GRACE PROPERTY SHALLOW BEDROCK WATER LEVEL MAP, SEPTEMBER 13, 2010 WELLS G & H, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —

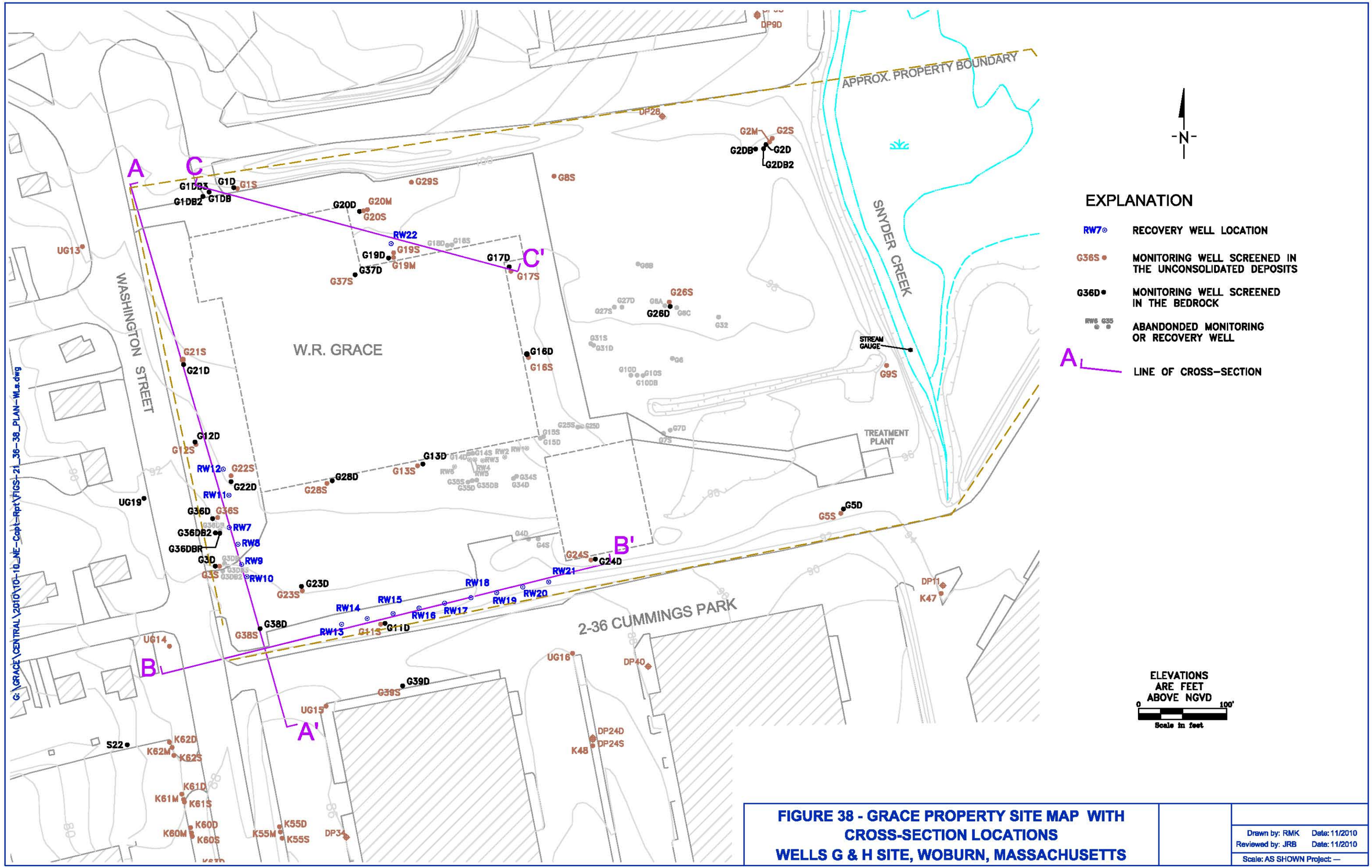
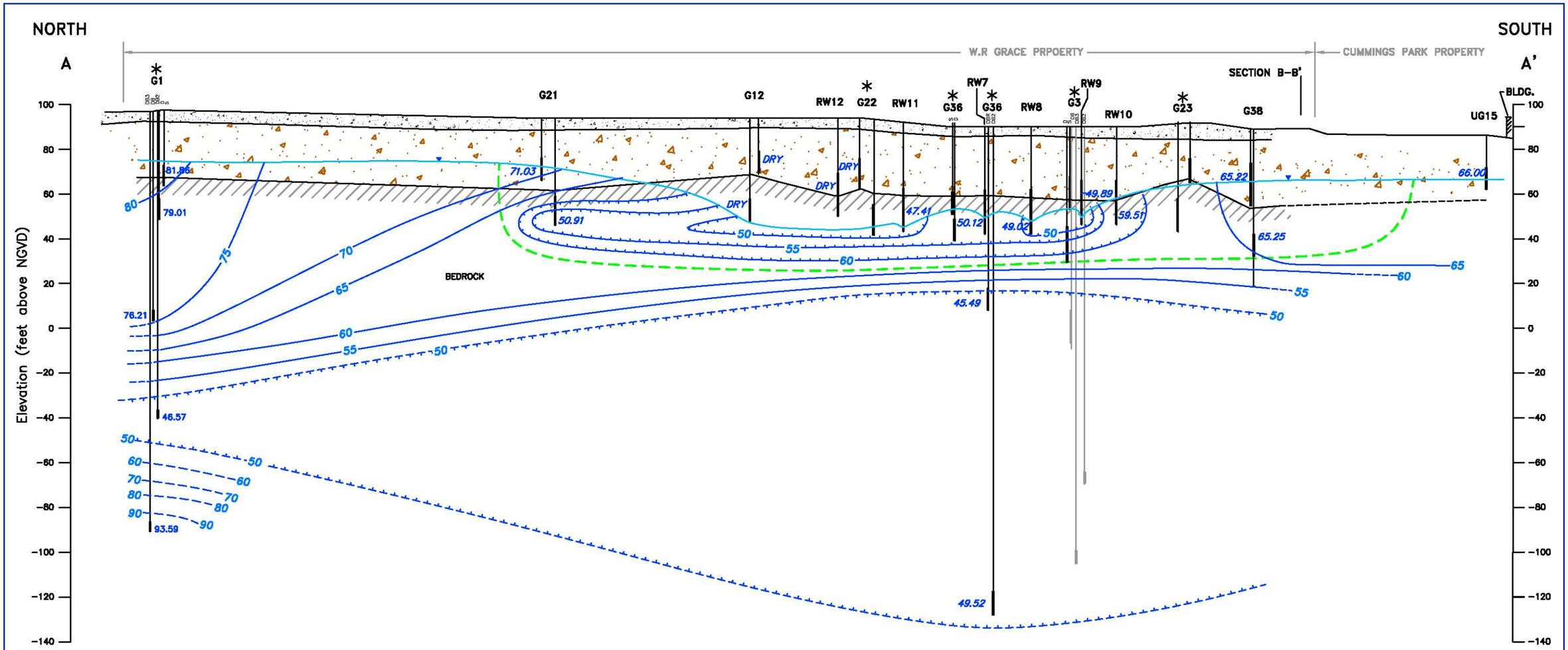


FIGURE 38 - GRACE PROPERTY SITE MAP WITH CROSS-SECTION LOCATIONS
WELLS G & H SITE, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —



EXPLANATION

G11 — WELL DESIGNATION
RW=RECOVERY WELL
G=MONITORING WELL

WATER TABLE

48.43 WATER LEVEL DATA COLLECTED SEPT. 13, 2010

WELL SCREEN

WELLS SHOWN IN GRAY HAVE BEEN ABANDONED

—60— EQUAL POTENTIAL CONTOUR
CONTOUR DASHED WHERE INFERRED

* WELL CLUSTER PROJECTED TO SECTION. DATA NOT DIRECTLY USED IN INTERPRETATION OF WATER TABLE AND POTENTIOMETRIC CONTOURS

- - - - ESTIMATED CAPTURE ZONE

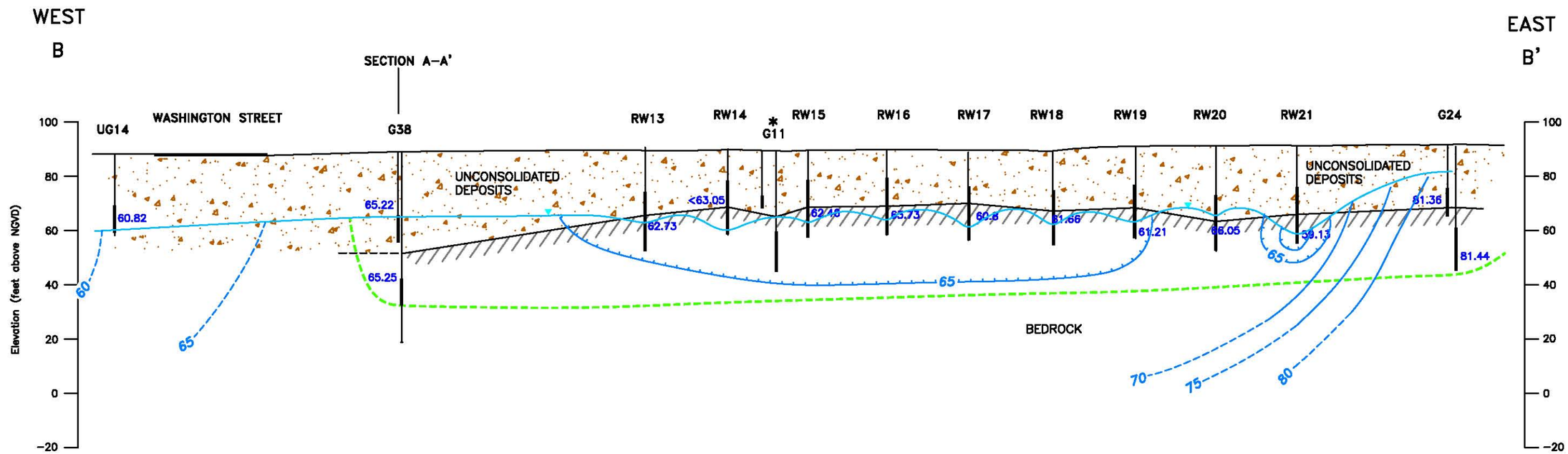
SCALE
0 — 45 Feet
Horizontal = Vertical

REV. 1 (JAN-12)

FIGURE 39: GRACE PROPERTY WATER LEVELS
SECTION A-A', SEPTEMBER 13,2010
WELLS G & H, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —

G:\GRACE\ANNUAL-RPTS\Annual10\0-REV-1-SECT-A.dwg



G:\GRACE\ANNUAL-RPTS\Annual10\0-REV-1-SECT-B.dwg

EXPLANATION

G11 — WELL DESIGNATION
RW = RECOVERY WELL
G = MONITORING WELL

WELL SCREEN

48.43 WATER LEVEL DATA COLLECTED SEPT. 13 2010

ESTIMATED CAPTURE ZONE

60 — EQUAL POTENTIAL CONTOUR
CONTOUR DASHED WHERE INFERRED

NM INDICATES NOT MEASURED, WELL ABANDONED

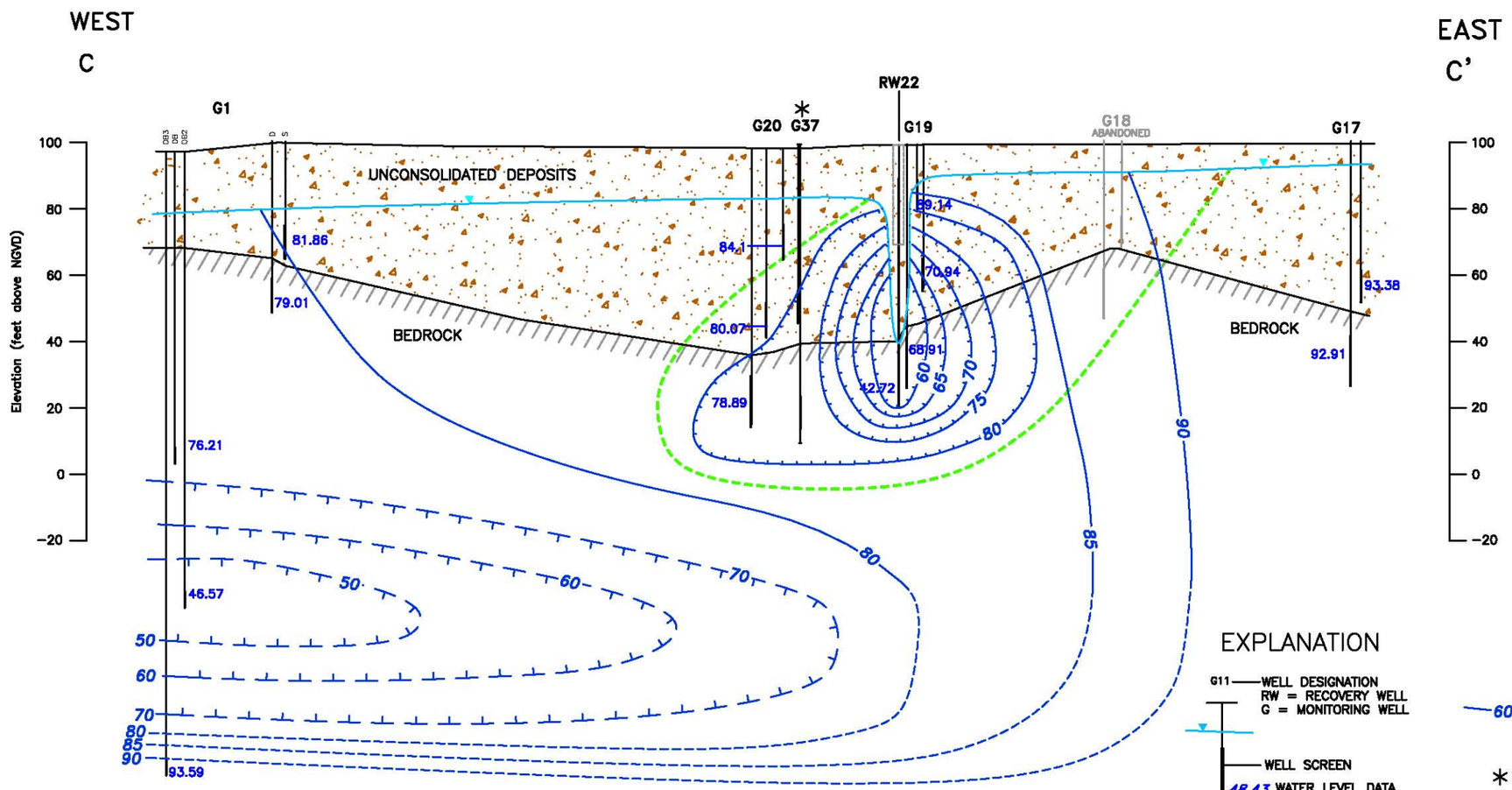
* WELL CLUSTER PROJECTED TO SECTION. DATA NOT DIRECTLY USED IN INTERPRETATION OF WATER TABLE AND POTENTIOMETRIC CONTOURS

SCALE
0 40
Horizontal = Vertical

REV. 1 (JAN-12)

FIGURE 40: GRACE PROPERTY WATER LEVELS
SECTION B-B', SEPTEMBER 13, 2010
WELLS G & H, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —



EXPLANATION

G11 — WELL DESIGNATION
RW = RECOVERY WELL
G = MONITORING WELL

WELL SCREEN

48.43 WATER LEVEL DATA COLLECTED SEPT. 13, 2010

60 — EQUAL POTENTIAL CONTOUR
CONTOUR DASHED WHERE INFERRED

* WELL CLUSTER PROJECTED TO SECTION. DATA NOT DIRECTLY USED IN INTERPRETATION OF WATER TABLE AND POTENTIOMETRIC CONTOURS

ESTIMATED CAPTURE ZONE

WELLS SHOWN IN GRAY HAVE BEEN ABANDONED

SCALE
0 40
Horizontal = Vertical

G:\GRACE\CENTRAL\2010\10-10_NE-Capt-Rpt\FIG-41_SECT-C.dwg

FIGURE 41 - GRACE PROPERTY WATER LEVELS
SECTION C-C', SEPTEMBER 13, 2010
WELLS G & H SITE, WOBURN, MASSACHUSETTS

Drawn by: RMK Date: 11/2010
Reviewed by: JRB Date: 11/2010
Scale: AS SHOWN Project: —

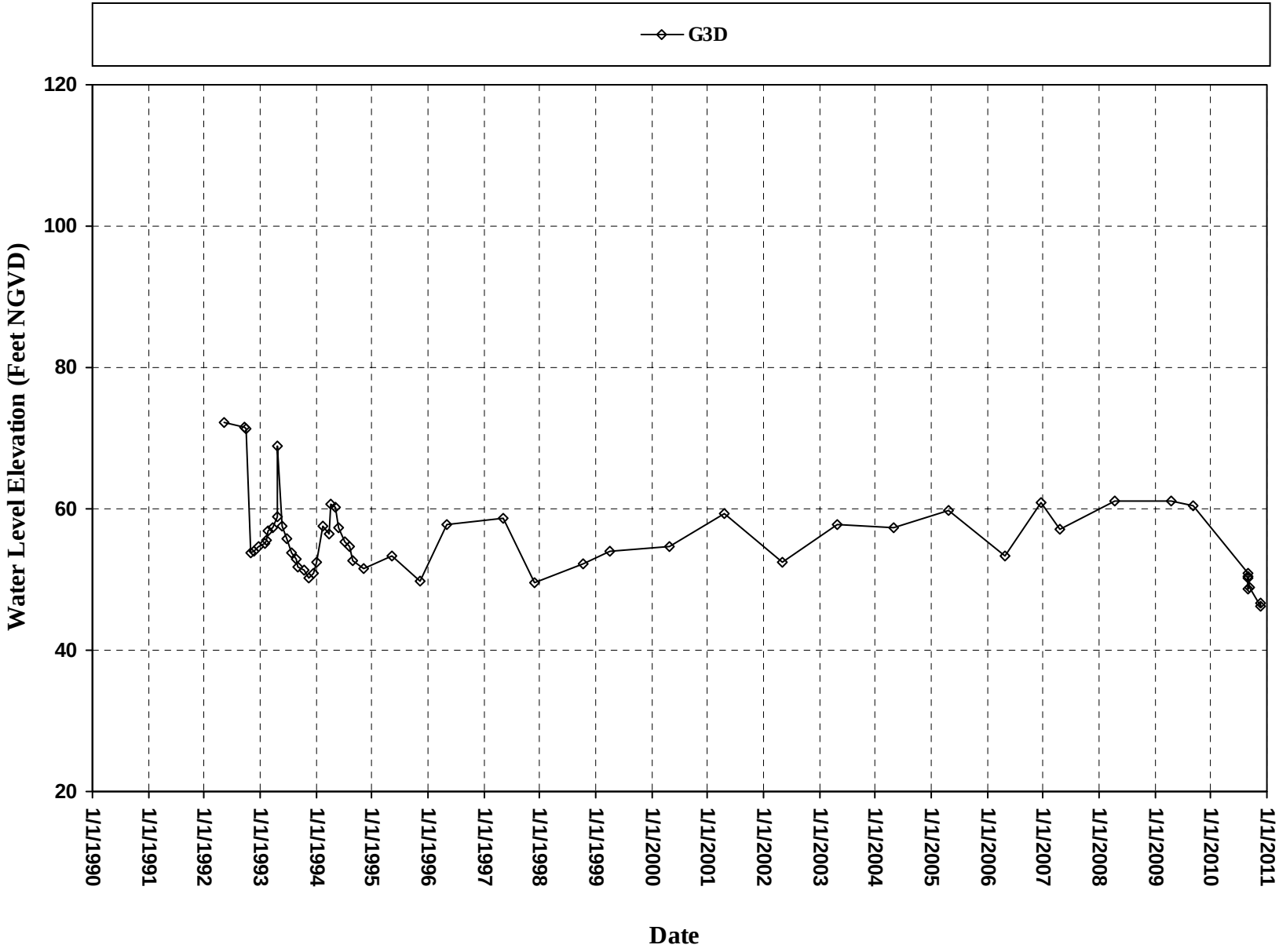


Figure 42 - Long-Term Hydrograph, G3D

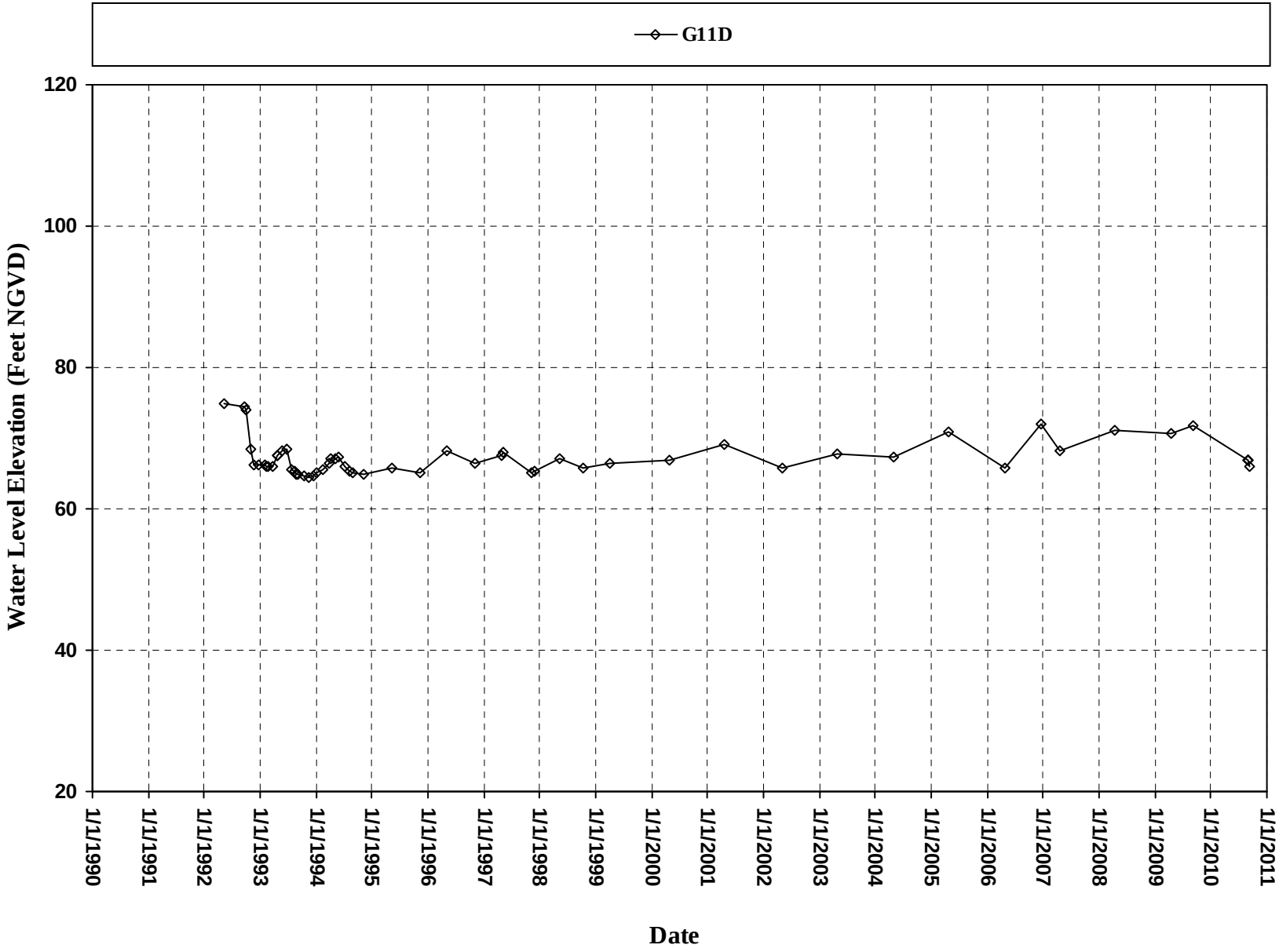


Figure 43 - Long-Term Hydrograph, G11D

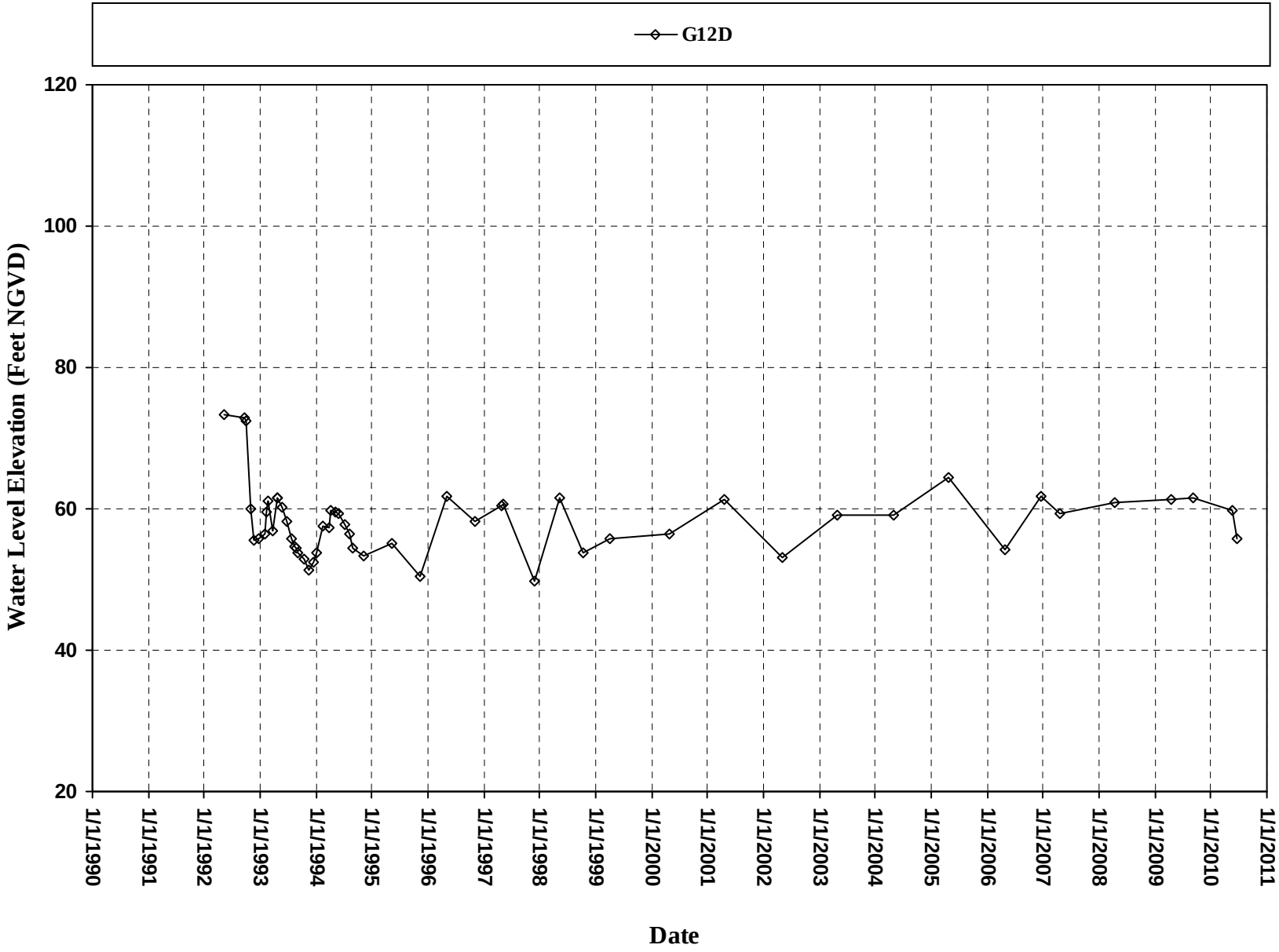


Figure 44 - Long-Term Hydrograph, G12D

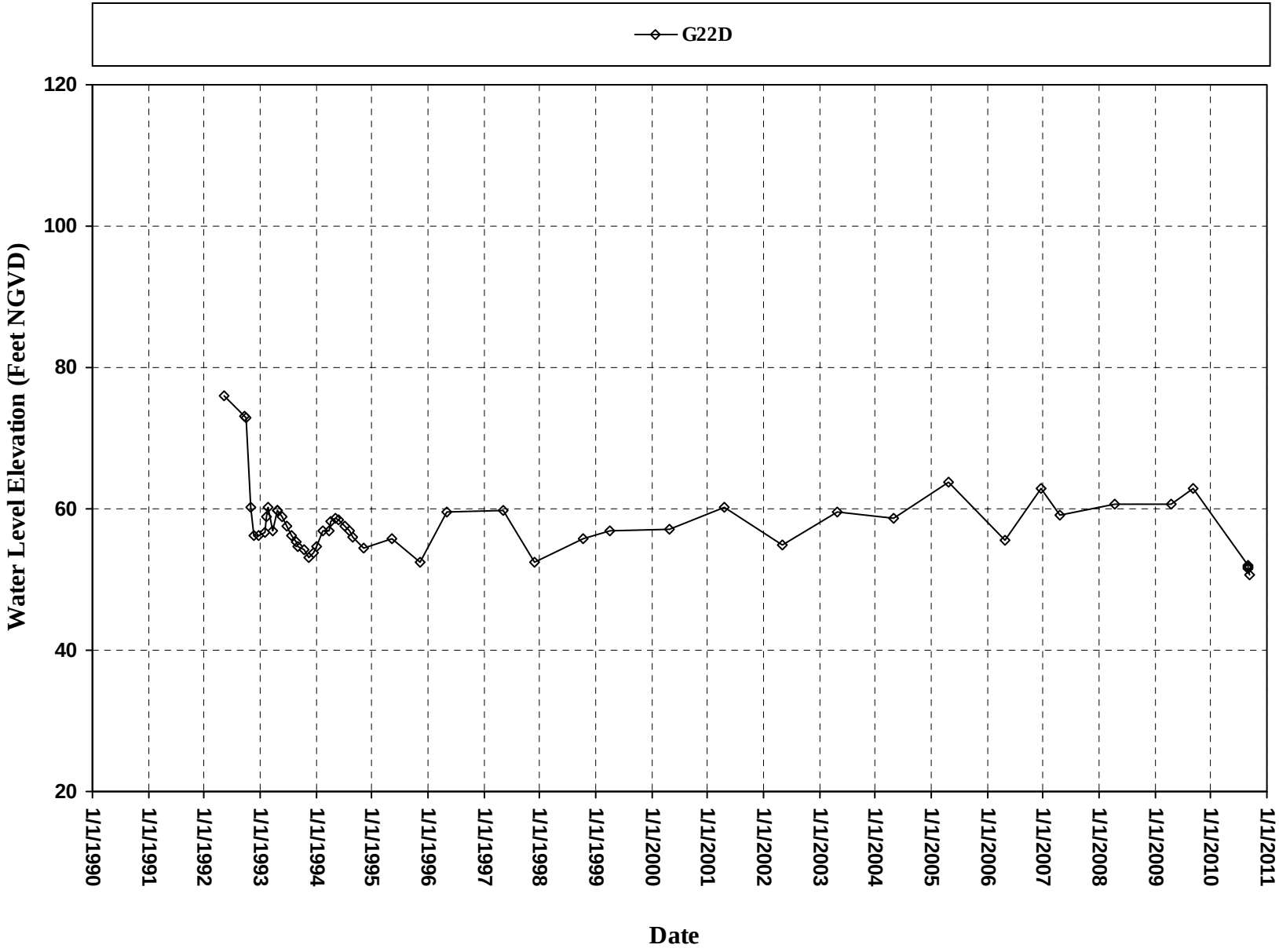


Figure 45 - Long-Term Hydrograph, G22D

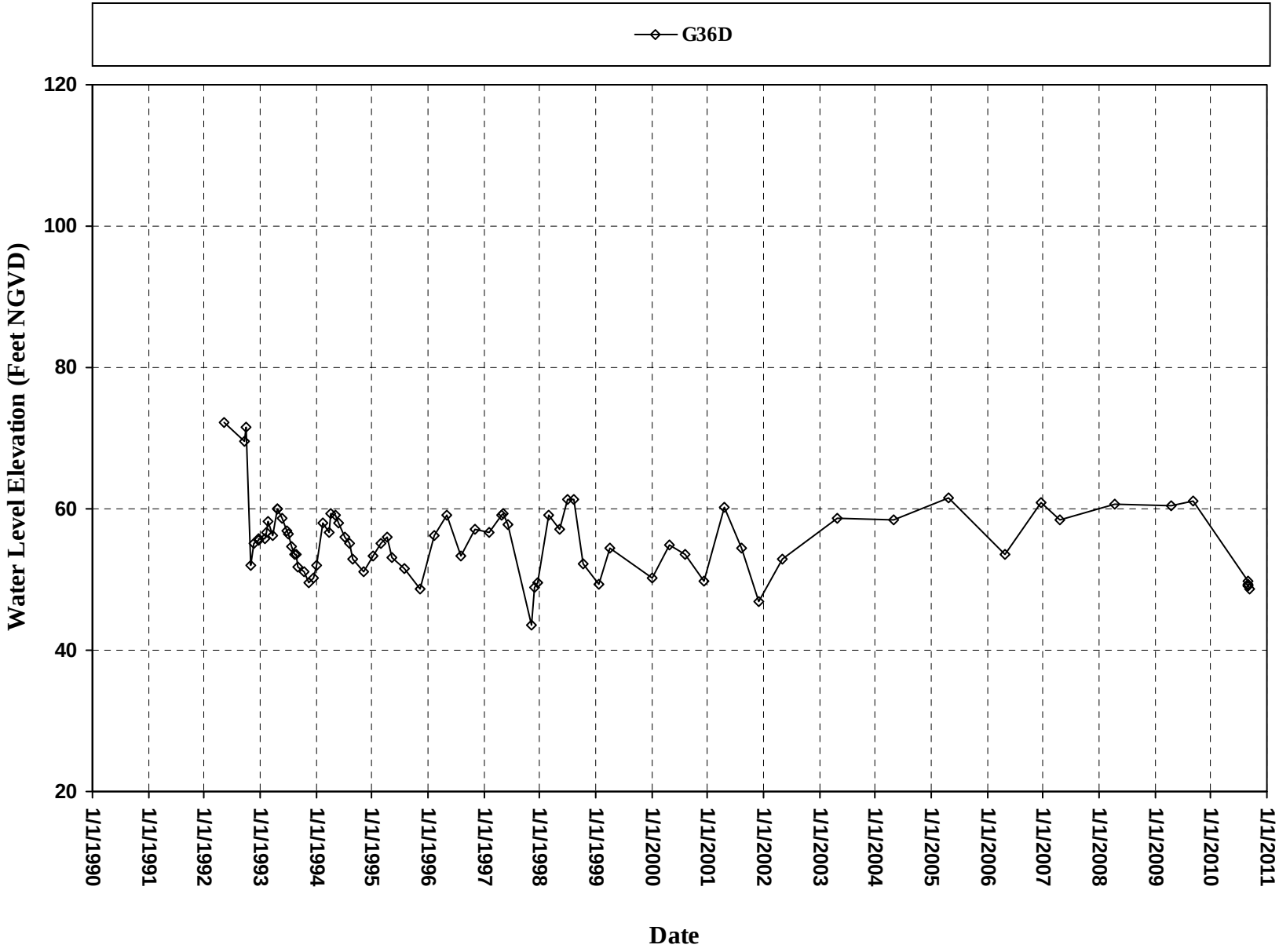


Figure 47 - Long-Term Hydrograph, G36D

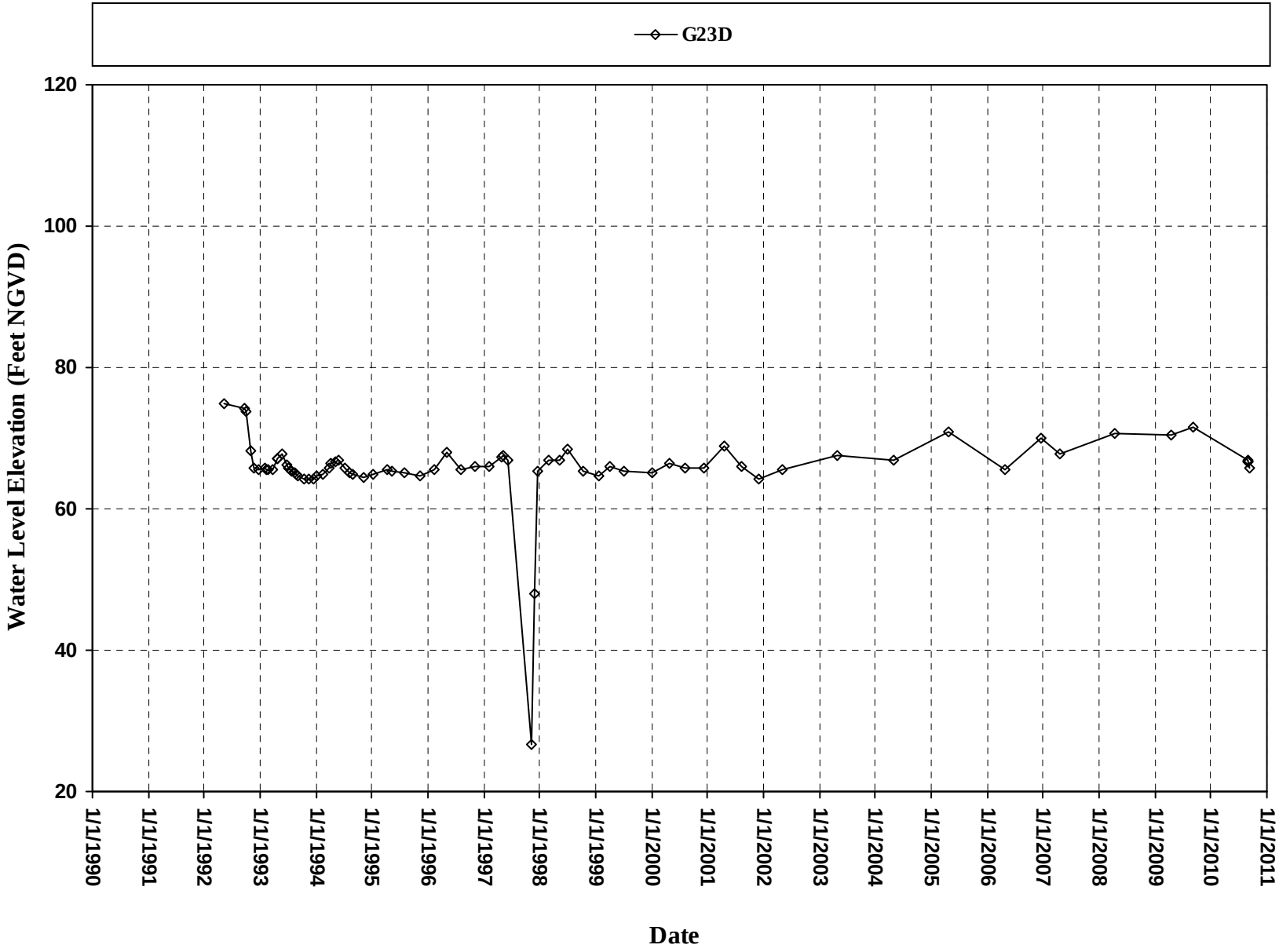
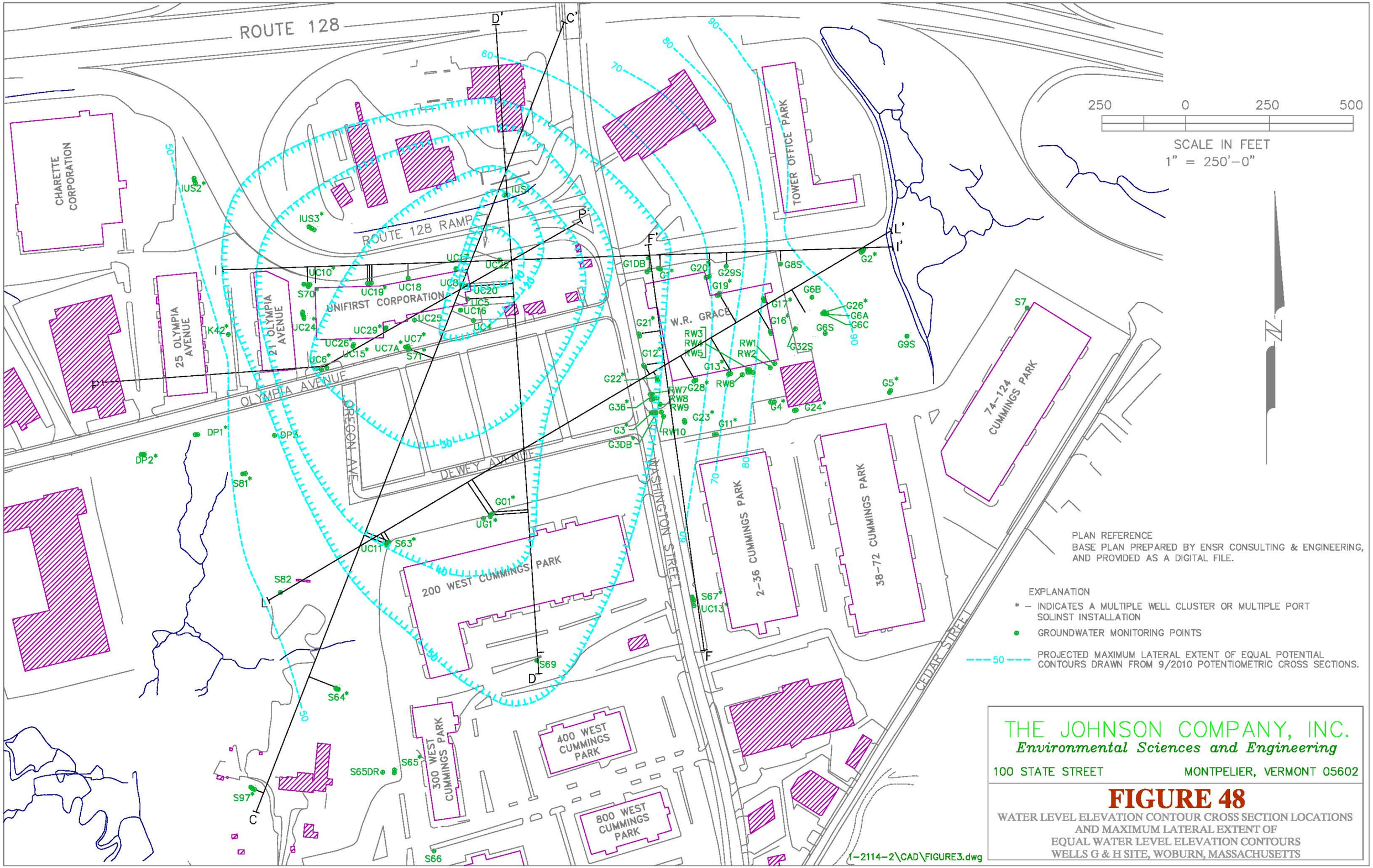
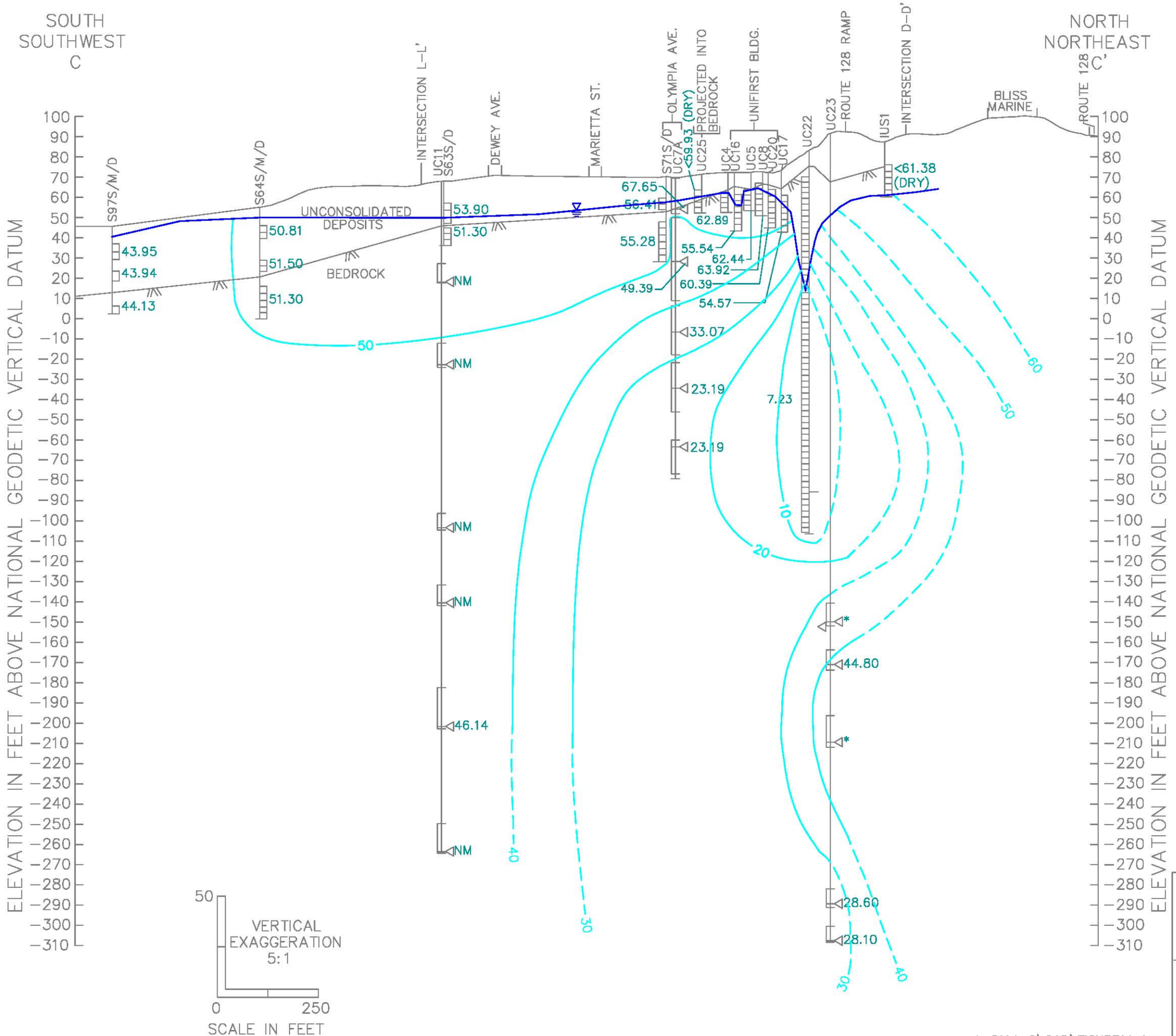


Figure 46 - Long-Term Hydrograph, G23D


ROUTE 128
ROUTE 128 RAMP
CHARETTE CORPORATION
25 OLYMPIA AVENUE
21 OLYMPIA AVENUE
UNIFIRST CORPORATION
OLYMPIA AVENUE
OREGON AVE.
DEWEY AVENUE
WASHINGTON STREET
W.R. GRACE
TOWER OFFICE PARK
74-124 CUMMINGS PARK
200 WEST CUMMINGS PARK
300 WEST CUMMINGS PARK
400 WEST CUMMINGS PARK
800 WEST CUMMINGS PARK
2-36 CUMMINGS PARK
38-72 CUMMINGS PARK
CEDAR STREET
250 0 250 500
SCALE IN FEET
1" = 250'-0"
N
PLAN REFERENCE
BASE PLAN PREPARED BY ENSR CONSULTING & ENGINEERING, AND PROVIDED AS A DIGITAL FILE.
EXPLANATION
* – INDICATES A MULTIPLE WELL CLUSTER OR MULTIPLE PORT SOLINST INSTALLATION
GROUNDWATER MONITORING POINTS
50 PROJECTED MAXIMUM LATERAL EXTENT OF EQUAL POTENTIAL CONTOURS DRAWN FROM 9/2010 POTENTIOMETRIC CROSS SECTIONS.
THE JOHNSON COMPANY, INC.
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VERMONT 05602
FIGURE 48
WATER LEVEL ELEVATION CONTOUR CROSS SECTION LOCATIONS AND MAXIMUM LATERAL EXTENT OF EQUAL WATER LEVEL ELEVATION CONTOURS
WELLS G & H SITE, WOBURN, MASSACHUSETTS
1-2114-2\CAD\FIGURE3.dwg



EXPLANATION

53.90	MONITORING WELL SCREEN, VALUE INDICATES WATER LEVEL ELEVATION MEASURED SEPTEMBER, 2010
	OPEN INTERVAL BETWEEN PACKERS IN MULTI LEVEL INSTALLATIONS AND PORT LOCATION
60	EQUAL POTENTIAL CONTOUR (DASHED WHERE INFERRED)
	GEOLOGIC CONTACT (DASHED WHERE INFERRED)
	POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED)
NM	NOT MEASURED DUE TO UNFAVORABLE FIELD CONDITIONS OR A MALFUNCTIONING PORT
*	ANOMALOUS VALUE NOT CONSIDERED IN CONTOURS

NOTES: 1. THE POTENTIOMETRIC SURFACE IS BASED ON THE CONTOURED WATER LEVEL MEASUREMENT FROM THE SHALLOWEST WELLS.

2: THE EXTENT OF THE UC22 DRAWDOWN CONE IS ESTIMATED TO BE LOCAL.

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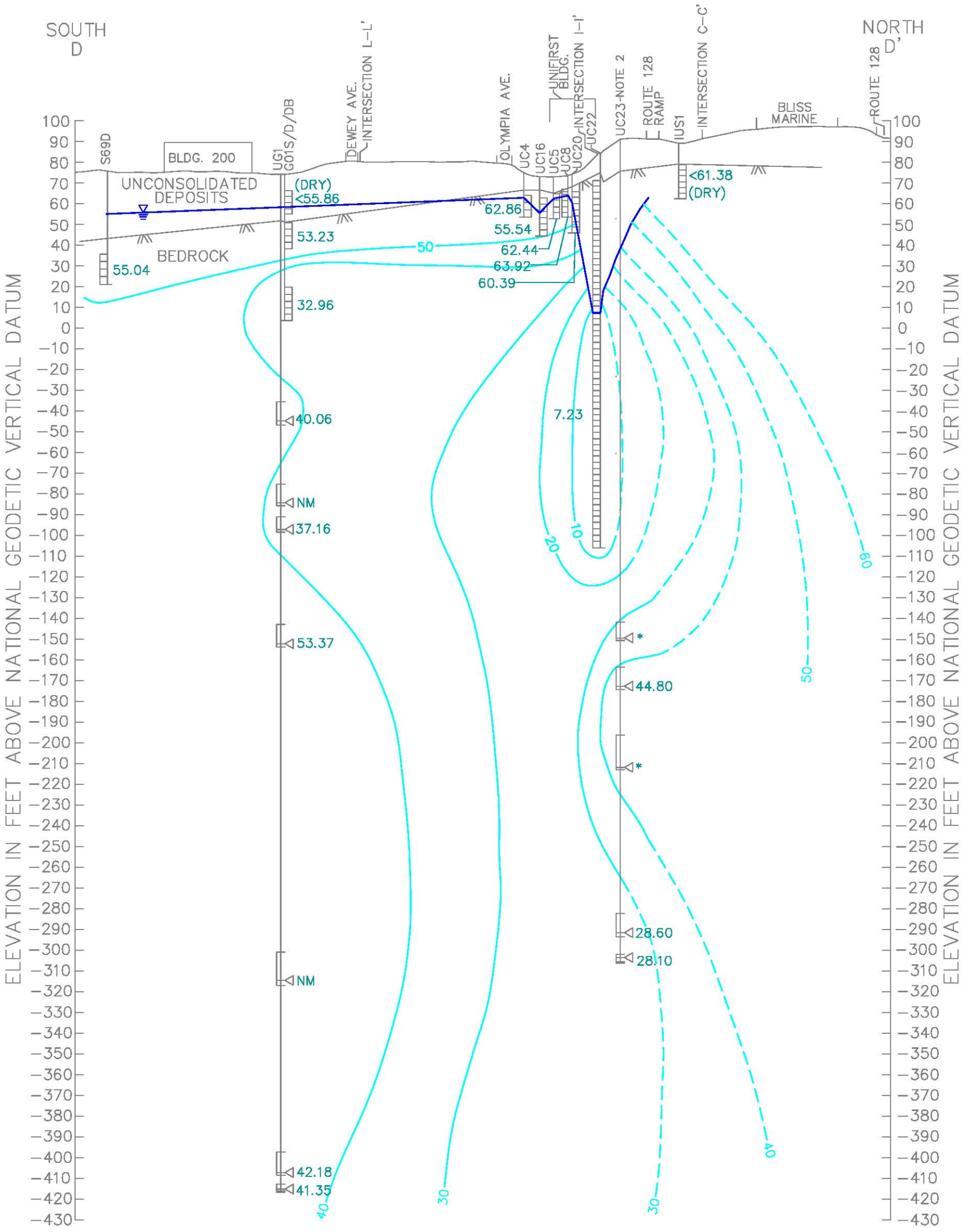
FIGURE 49

WATER LEVEL ELEVATION CONTOURS
CROSS SECTION C-C'
WELLS G & H SITE
WOBURN, MASSACHUSETTS

1-2114-2\CAD\FIGURE1A.dwg



EXPLANATION

55.04 — MONITORING WELL SCREEN, VALUE INDICATES WATER LEVEL ELEVATION MEASURED SEPTEMBER, 2010

OPEN INTERVAL BETWEEN PACKERS IN MULTI LEVEL INSTALLATIONS AND PORT LOCATION

60 — EQUAL POTENTIAL CONTOUR (DASHED WHERE INFERRED)

GEOLOGIC CONTACT (DASHED WHERE INFERRED)

POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED)

NM — NOT MEASURED DUE TO UNFAVORABLE FIELD CONDITIONS OR A MALFUNCTIONING PORT

* — ANOMALOUS VALUE NOT CONSIDERED IN CONTOURS

50 VERTICAL EXAGGERATION 5:1

0 250 SCALE IN FEET

NOTES:
1. THE POTENTIOMETRIC SURFACE IS BASED ON THE CONTOURED WATER LEVEL MEASUREMENT FROM THE SHALLOWEST WELLS.
2. THE POSITION OF WELL UC23 IS ADJUSTED TO THE NORTH < 50' TO GRAPHICALLY ILLUSTRATE THIS WELL
3. THE EXTENT OF THE UC22 DRAWDOWN CONE IS ESTIMATED TO BE LOCAL.

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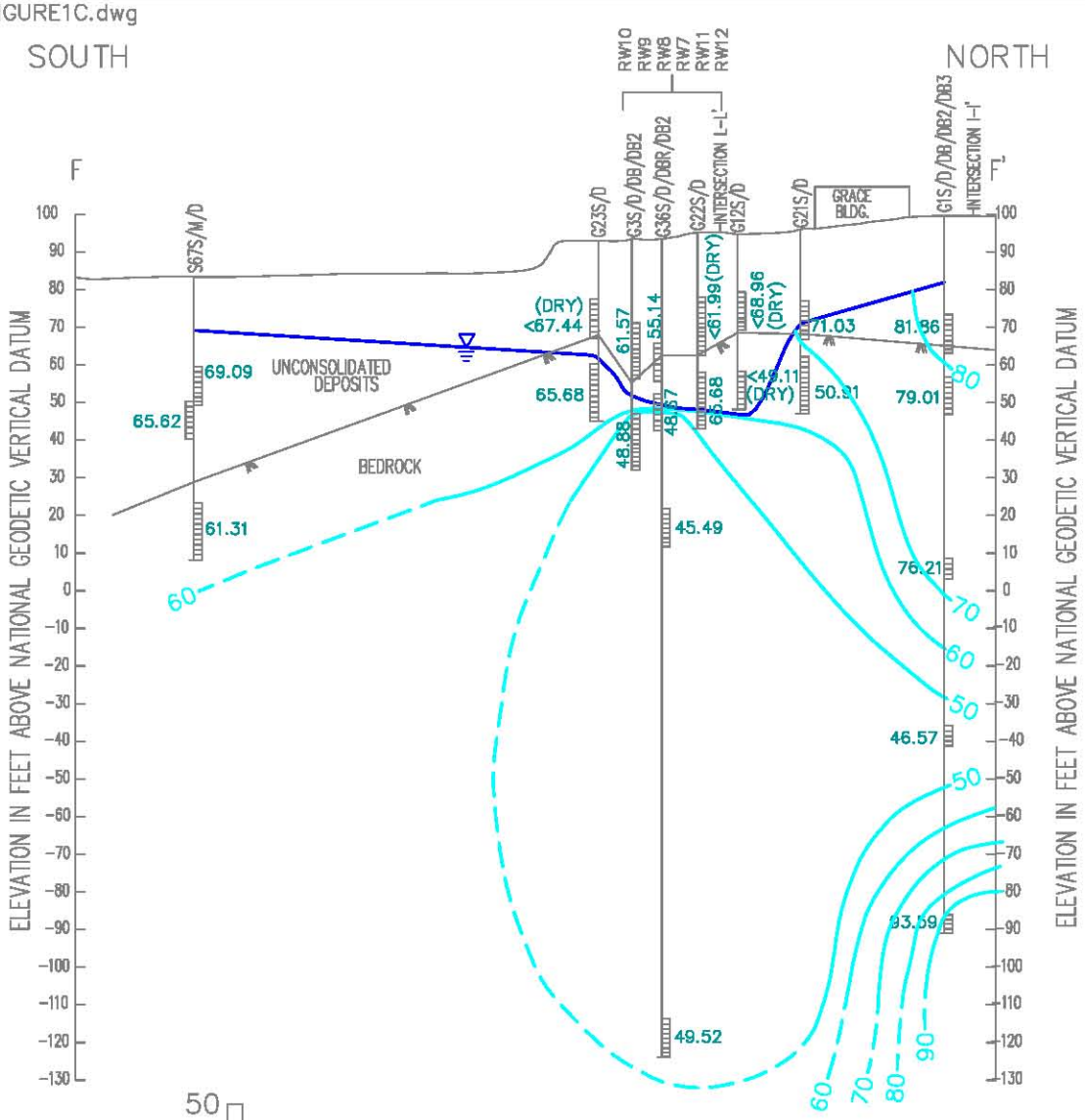
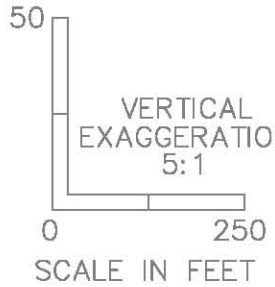
FIGURE 50

WATER LEVEL ELEVATION CONTOURS
CROSS SECTION D-D'
WELLS G & H SITE
WOBURN, MASSACHUSETTS

1-2114-2\CAD\FIGURE1B.dwg

1-2114-2\CAD\FIGURE1C.dwg





NOTES:

1. THE POTENTIOMETRIC SURFACE IS BASED ON THE CONTOURED WATER LEVEL MEASUREMENT FROM THE SHALLOWEST WELLS.
2. SEE GRACE ANNUAL REPORT FOR ADDITIONAL DETAIL IN THE VICINITY OF THE GRACE RECOVERY WELLS AND GRACE PROPERTY CAPTURE ZONE.

EXPLANATION

69.09 — MONITORING WELL SCREEN, VALUE INDICATES WATER LEVEL ELEVATION MEASURED SEPTEMBER, 2010

60 — EQUAL POTENTIAL CONTOUR (DASHED WHERE INFERRED)

GEOLOGIC CONTACT (DASHED WHERE INFERRED)

POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED)

* — ANOMALOUS VALUE NOT CONSIDERED IN CONTOURS

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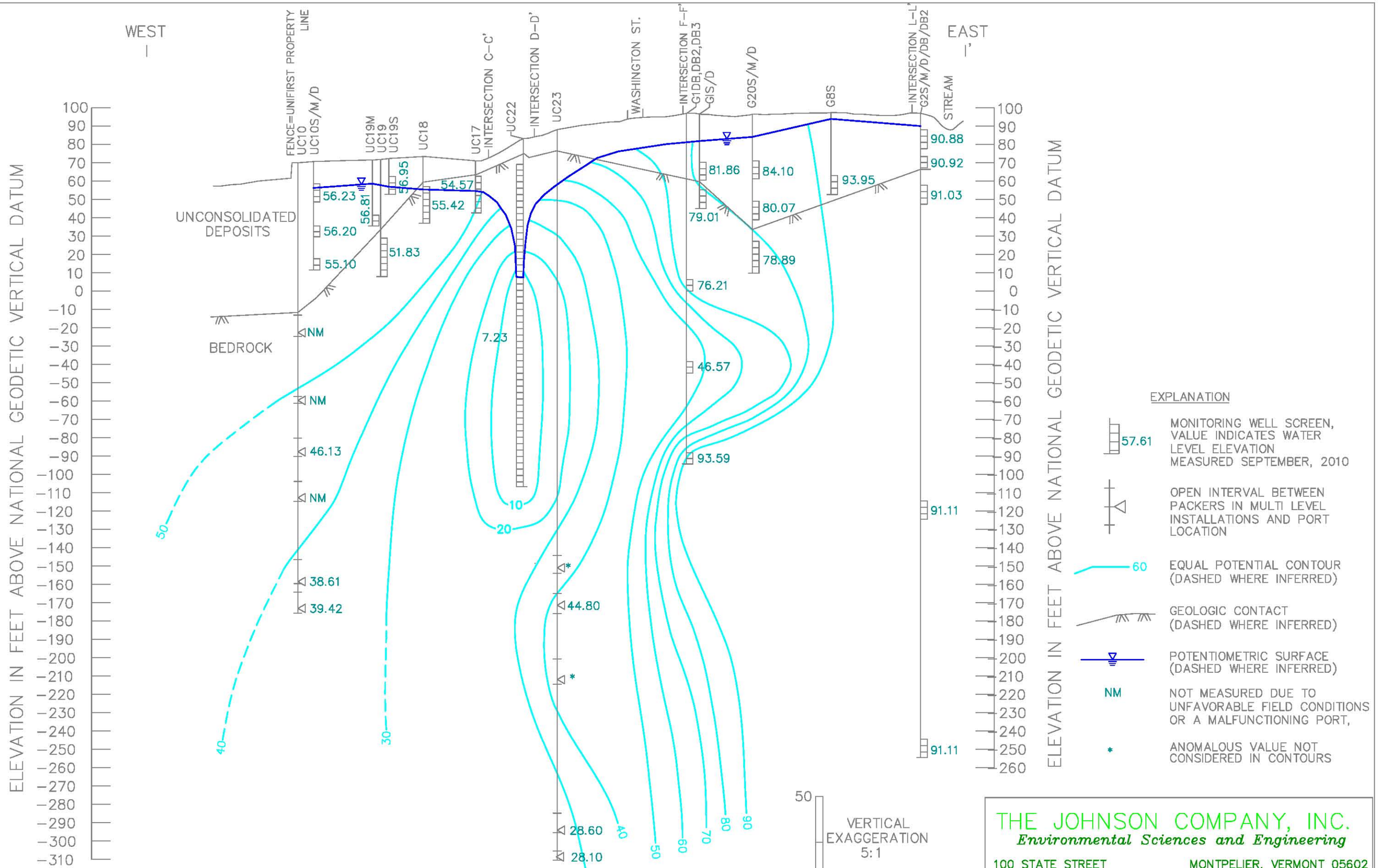
FIGURE 51

WATER LEVEL ELEVATION CONTOURS
CROSS SECTION F-F'
WELLS G & H SITE
WOBURN, MASSACHUSETTS



NOTES:
1. THE POTENTIOMETRIC SURFACE IS BASED ON THE CONTOURED WATER LEVEL MEASUREMENT FROM THE SHALLOWEST WELLS.
2. THE EXTENT OF THE UC22 DRAWDOWN CONE IS ESTIMATED TO BE LOCAL.

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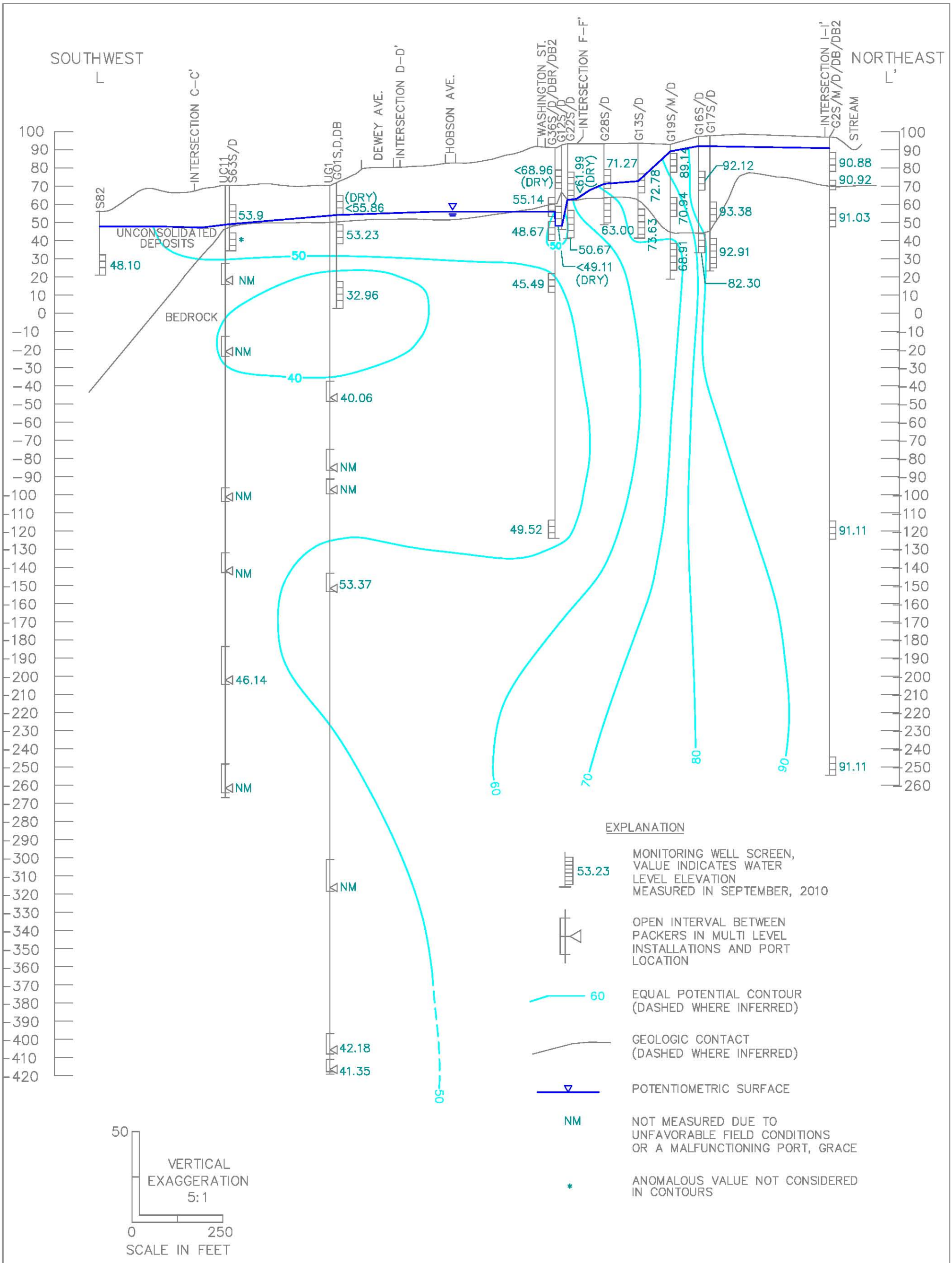
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VERMONT 05602

FIGURE 52

WATER LEVEL ELEVATION CONTOURS
CROSS SECTION I-I'
WELLS G & H SITE
WOBURN, MASSACHUSETTS



NOTES: 1. THE POTENTIOMETRIC SURFACE IS BASED ON THE CONTOURED WATER LEVEL MEASUREMENT FROM THE SHALLOWEST WELLS.

2: ELEVATION IN FEET ABOVE NATIONAL GEODETIC VERTICAL DATUM.

3: SEE GRACE REPORT FOR GRACE PROPERTY CAPTURE ZONE.

4. G01S, G01O, G01DB USED 5/6/97 SURVEY ELEVATION DATA.

1–2114–2\CAD\FIGURE1E.dwg

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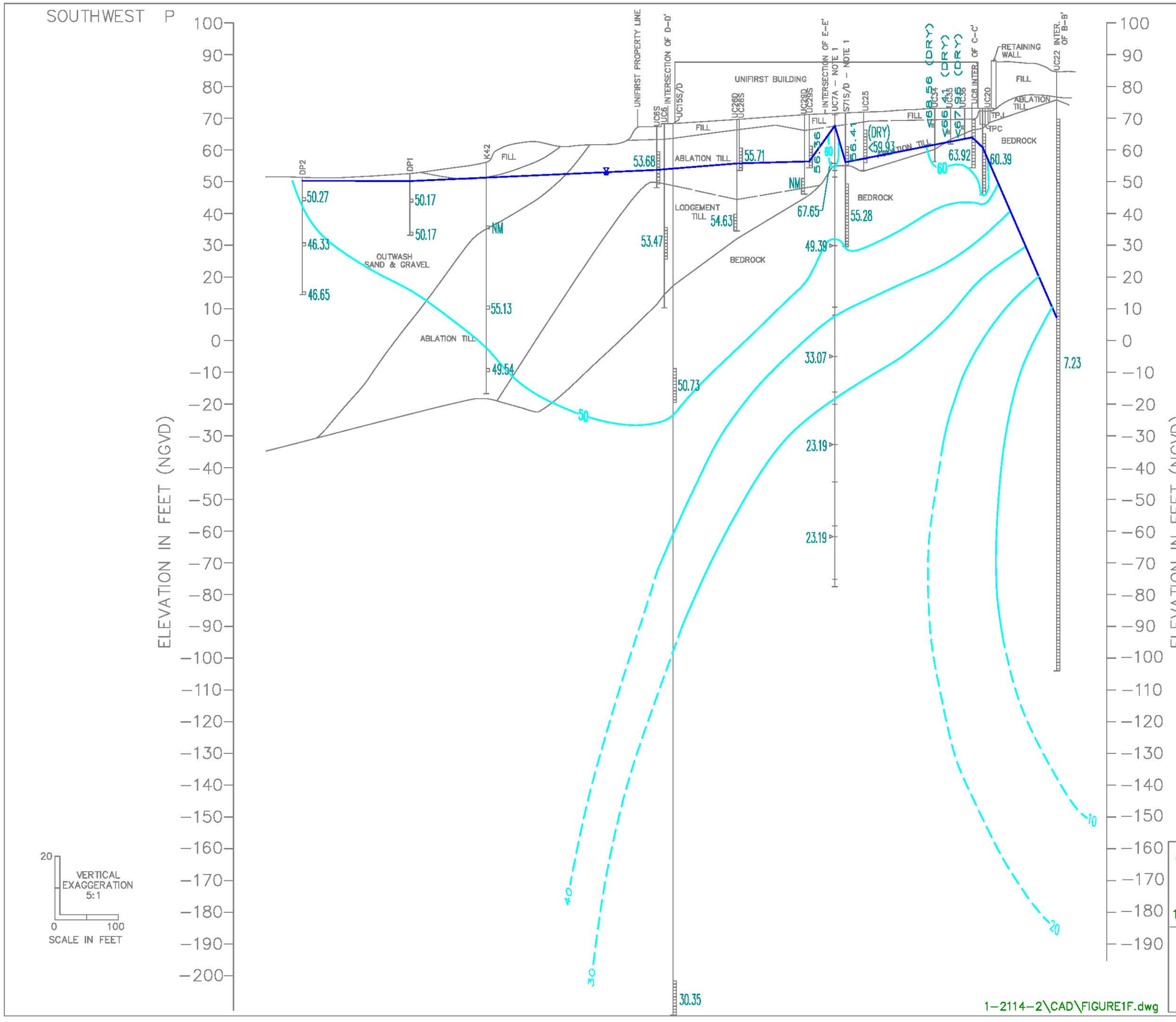
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VERMONT 05602

FIGURE 53
WATER LEVEL ELEVATION CONTOURS
CROSS SECTION L-L'
WELLS G & H SITE
WOBURN, MASSACHUSETTS



EXPLANATION

55.53 — MONITORING WELL SCREEN, VALUE INDICATES WATER LEVEL ELEVATION MEASURED SEPTEMBER, 2010

OPEN INTERVAL BETWEEN PACKERS IN MULTI LEVEL INSTALLATIONS AND PORT LOCATION

SOIL BORING

VAPOR PROBE

60 — EQUAL POTENTIAL CONTOUR (DASHED WHERE INFERRED)

GEOLOGIC CONTACT (DASHED WHERE INFERRED)

POTENTIOMETRIC SURFACE (DASHED WHERE INFERRED)

NM — NOT MEASURED DUE TO UNFAVORABLE FIELD CONDITIONS OR A MALFUNCTIONING PORT

* — ANOMALOUS VALUE NOT CONSIDERED IN CONTOURS

NOTES:

1. THE POTENTIOMETRIC SURFACE IS BASED ON THE CONTOURED WATER LEVEL MEASUREMENT FROM THE SHALLOWEST WELLS.
2. UC7A AND S71 POSITIONS ADJUSTED DUE TO OVERLAP ON THIS ORIENTATION.

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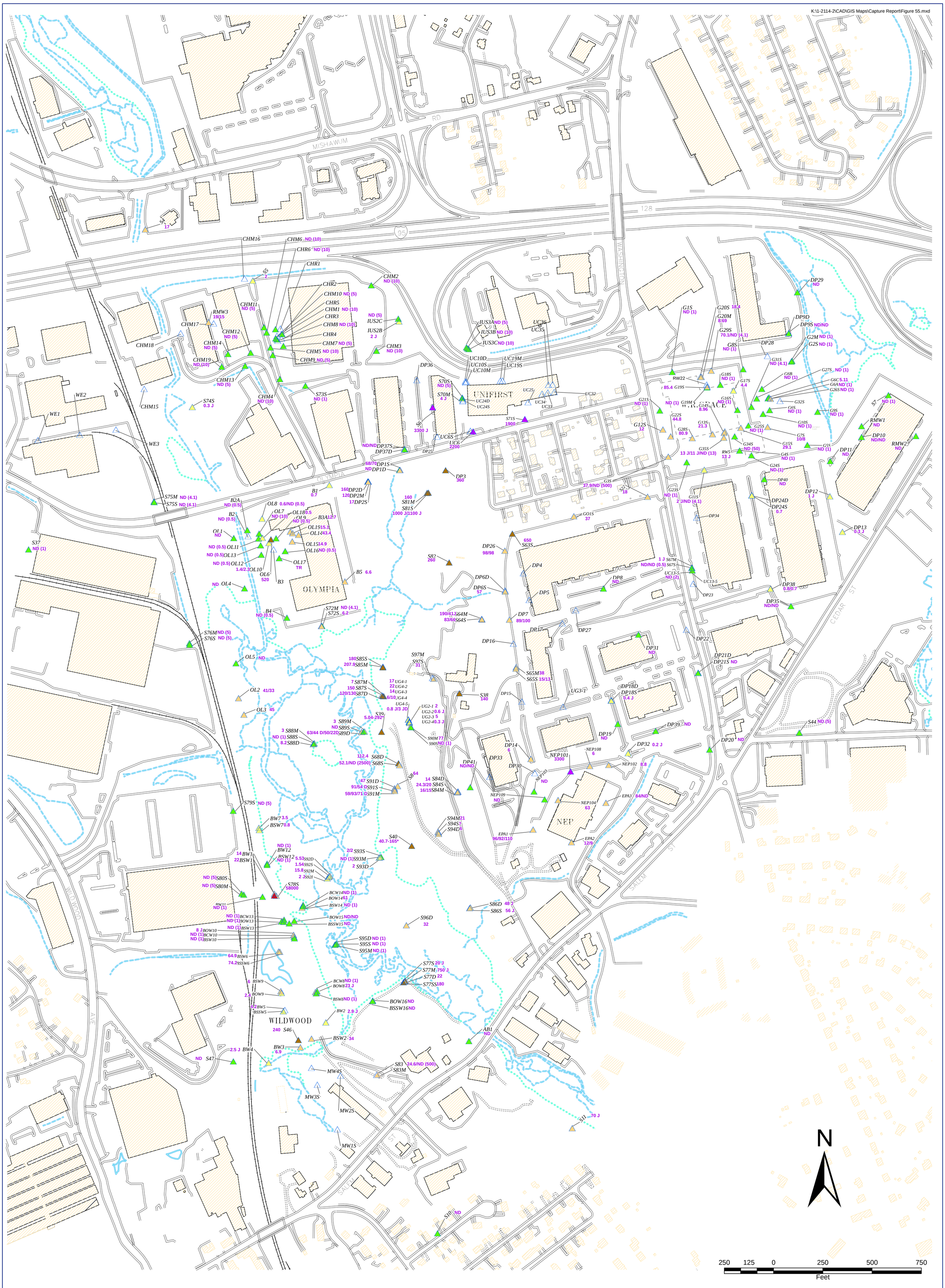
Environmental Sciences and Engineering
100 STATE STREET MONTPELIER, VERMONT 05602

FIGURE 54

WATER LEVEL ELEVATION CONTOURS
CROSS SECTION P-P'
WELLS G & H SITE
WOBURN, MASSACHUSETTS

1-2114-2\CAD\FIGURE1F.dwg

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 55.mxd



Well Location

By Formation

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandonedl) (U-A)

Pre-92 Unconsolidated PCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:

J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is less than the reported concentration
##: More than one sample collected on date, all results are shown except * indicates that Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

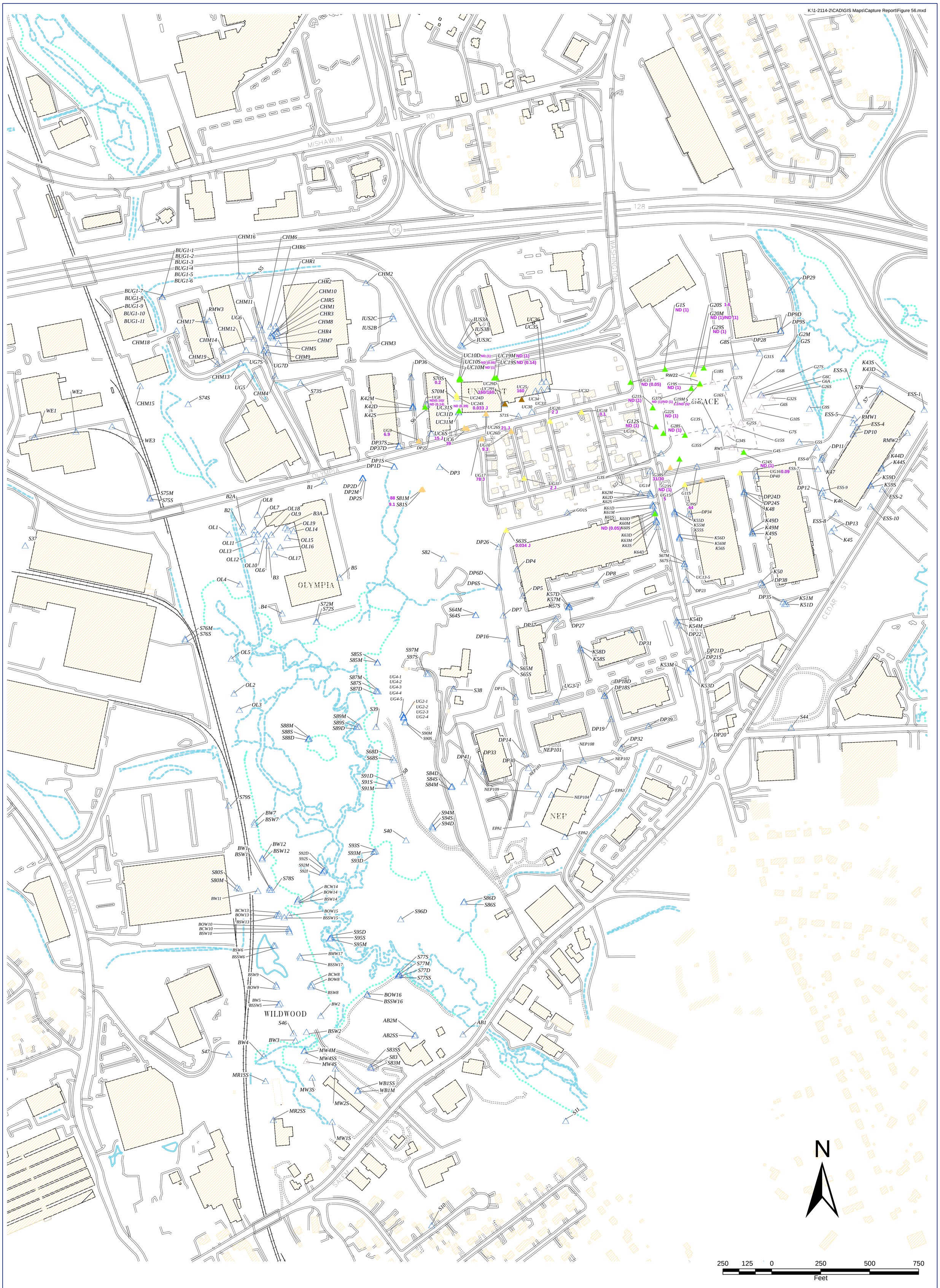
FIGURE 55 - MAXIMUM PRE-REMEDY PCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/19/10
Reviewed by: MBM Date: 12/10/10
Scale: As Shown Project: 1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 56.mxd



Monitoring Well

By Formation

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandoned) (U-A)

2010 Unconsolidated Deposits PCE Maximum Concentration (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:

J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is less than the reported concentration
#/#: Multiple samples collected on same date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

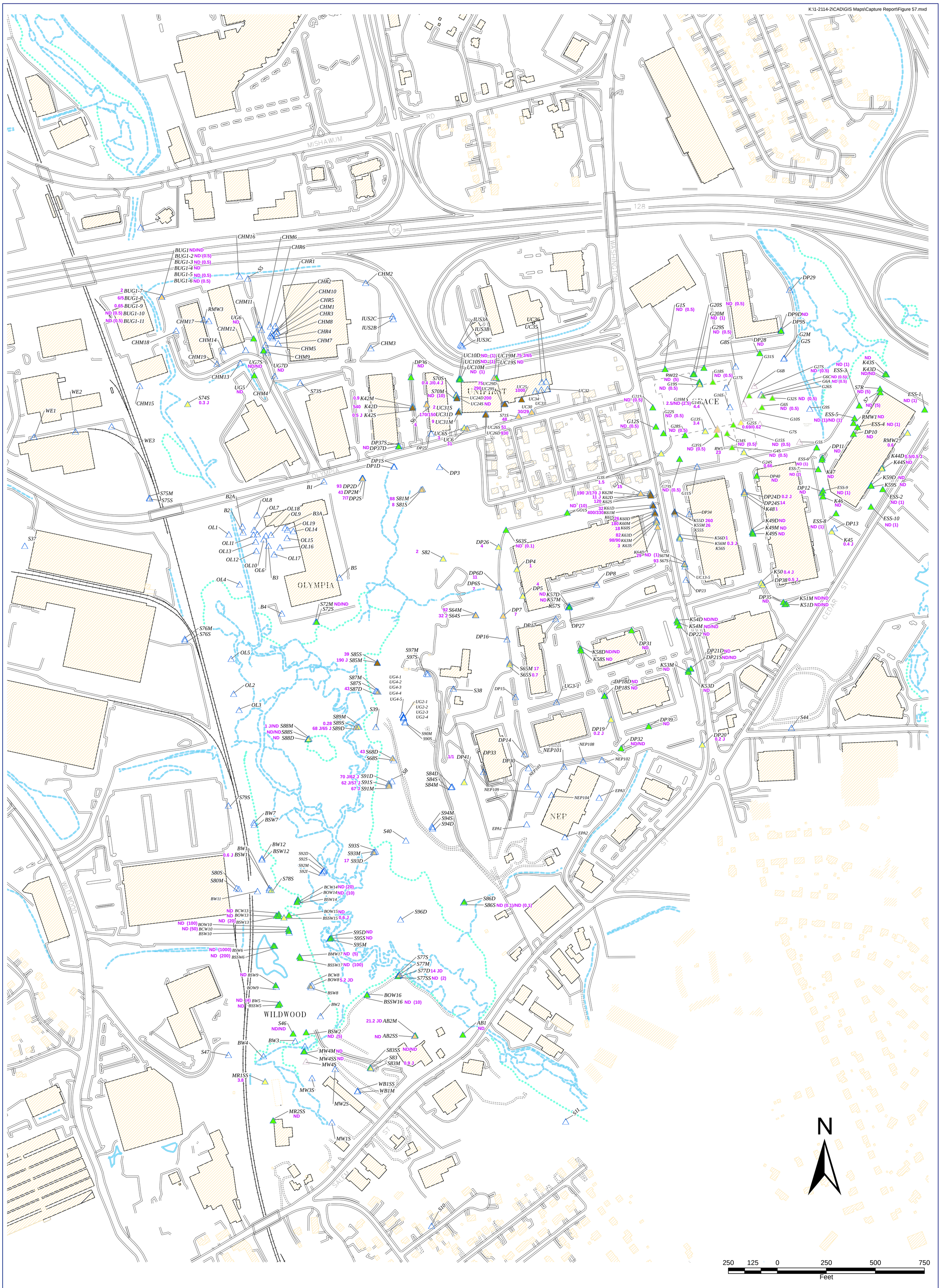
FIGURE 56 - PCE CONCENTRATIONS
IN UNCONSOLIDATED DEPOSITS GROUNDWATER
2010
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/19/10
Reviewed by: MBM Date: 12/10/10
Scale: As Shown Project: 1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 57.mxd



Monitoring Well

By Formation

- Unconsolidated Deposits (U)
- Unconsolidated Deposits (Abandonedl) (U-A)

1992-2009 Unconsolidated PCE Most Recent (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:

J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace Detection
K: Concentration is less than the reported concentration
#/#: Multiple results on same date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

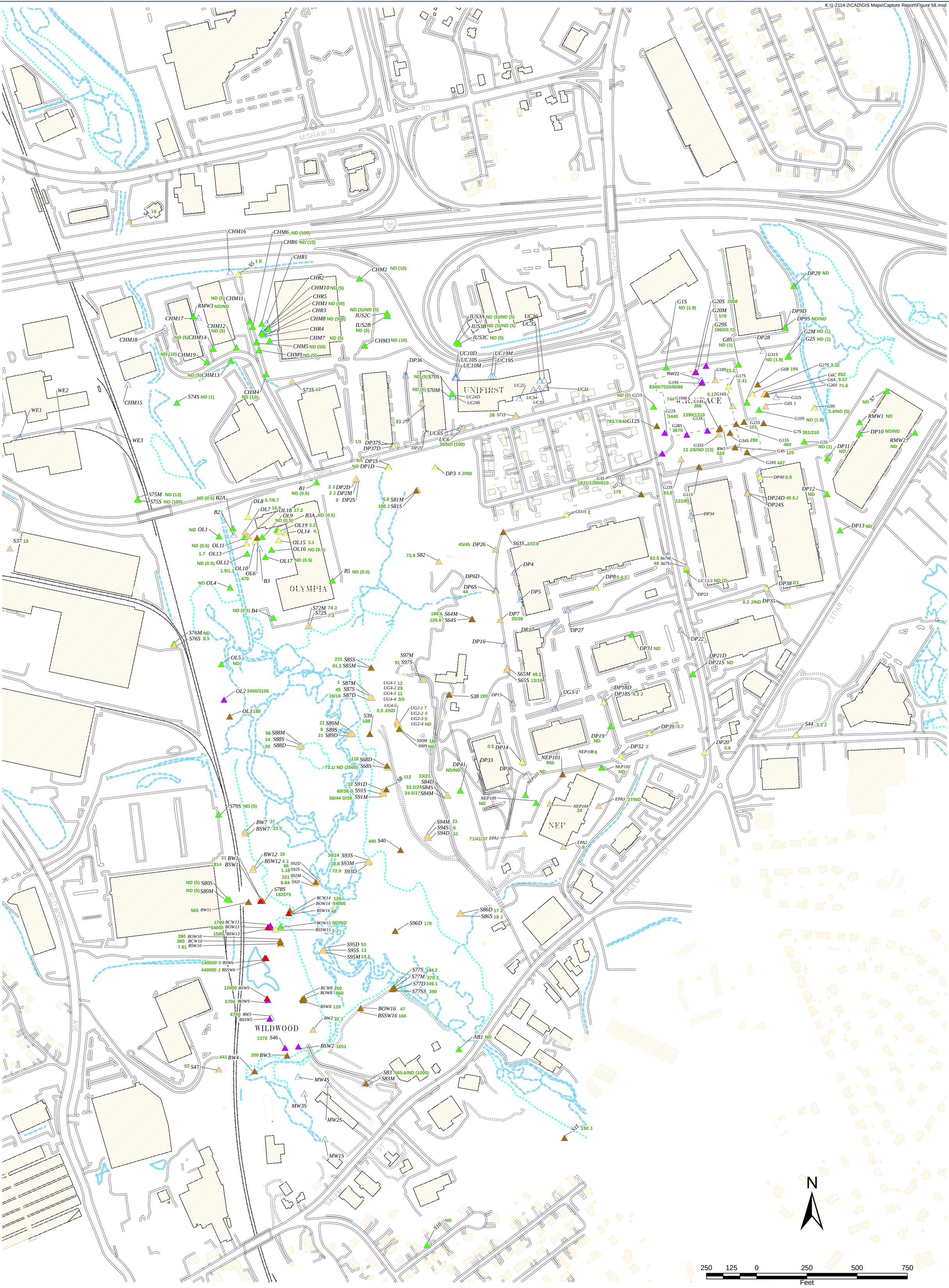
FIGURE 57 - PCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER MOST RECENT 1992 TO 2009 WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/19/10
Reviewed by: MBM Date: 12/10/10
Scale: As Shown Project: 1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 58.mxd



Well Location
By Formation
Unconsolidated Deposits (U)
Unconsolidated Deposits (Abandoned) (U-A)
Pre-92 Unconsolidated TCE Maximum (µg/L)
Non-Detect (Reporting Limit Shown)
ND - 5
5 - 100
100 - 1000
1000 - 10,000
>10,000
Building
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH
Road
Railway
Stream
Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is less than the reported concentration
#/#: More than one sample collected on date, all results are shown, except * indicates Appendix E should be consulted to view all results.

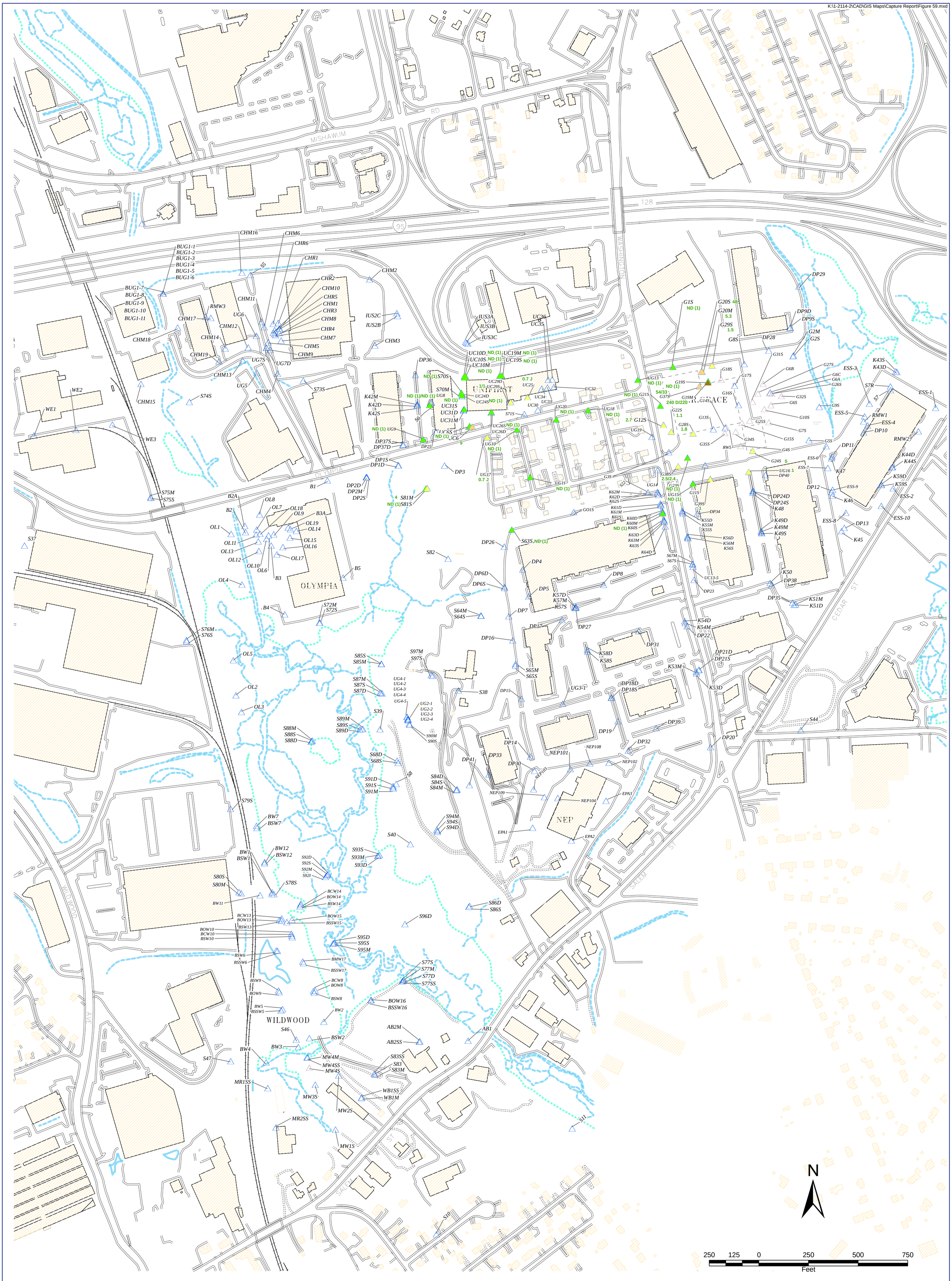
Elevations in NGVD 1929 feet.

FIGURE 58 - MAXIMUM PRE-REMEDY TCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 59.mxd



Well Location
By Formation
Unconsolidated Deposits (U)
Unconsolidated Deposits (Abandoned) (U-A)
2010 Unconsolidated TCE Maximum (µg/L)
Non-Detect (Reporting Limit Shown)
ND - 5
5 - 100
100 - 1000
1000 - 10,000
>10,000

Building
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH
Road
Railway
Stream
Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is less than reported concentration
#/#: More than one sample collected on the date, all results are shown.

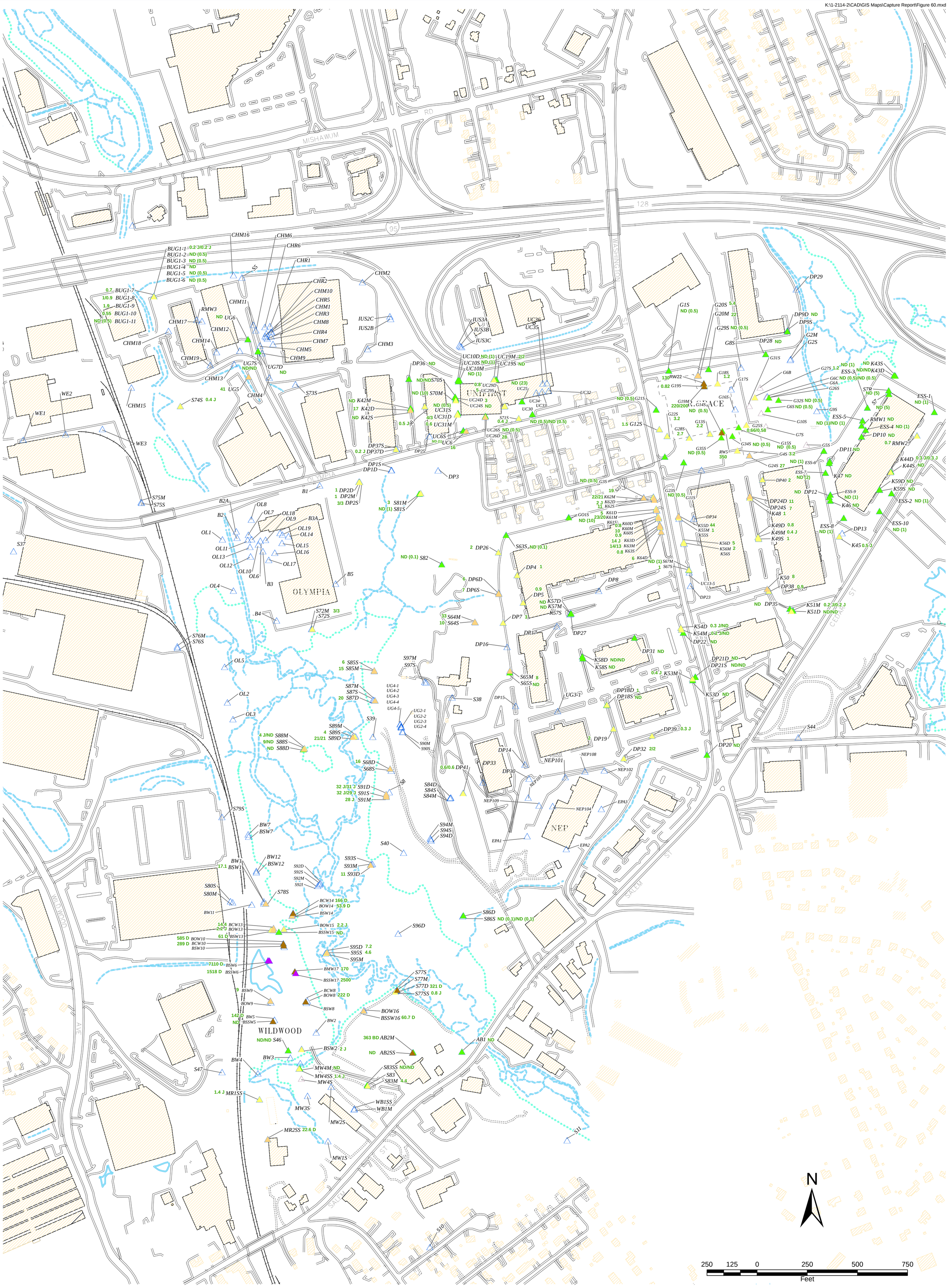
Elevations in NGVD 1929 feet.

FIGURE 59 - TCE CONCENTRATIONS
IN UNCONSOLIDATED DEPOSITS GROUNDWATER
2010
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 60.mxd



Well Location
By Formation
Unconsolidated Deposits (U)
Unconsolidated Deposits (Abandoned) (U-A)
1992-2009 Unconsolidated TCE Most Recent (µg/L)
Non-Detect (Reporting Limit Shown)
ND - 5
5 - 100
100 - 1000
1000 - 10,000
>10,000

Building
Building
Building-GRACE-DEMO
Building-RESID-DEWEY-NEIGH
Road
Railway
Stream
Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is less than reported concentration
#/#: More than one sample collected on the same day, all results are shown.

Unconsolidated wells with RW prefix are extraction wells.

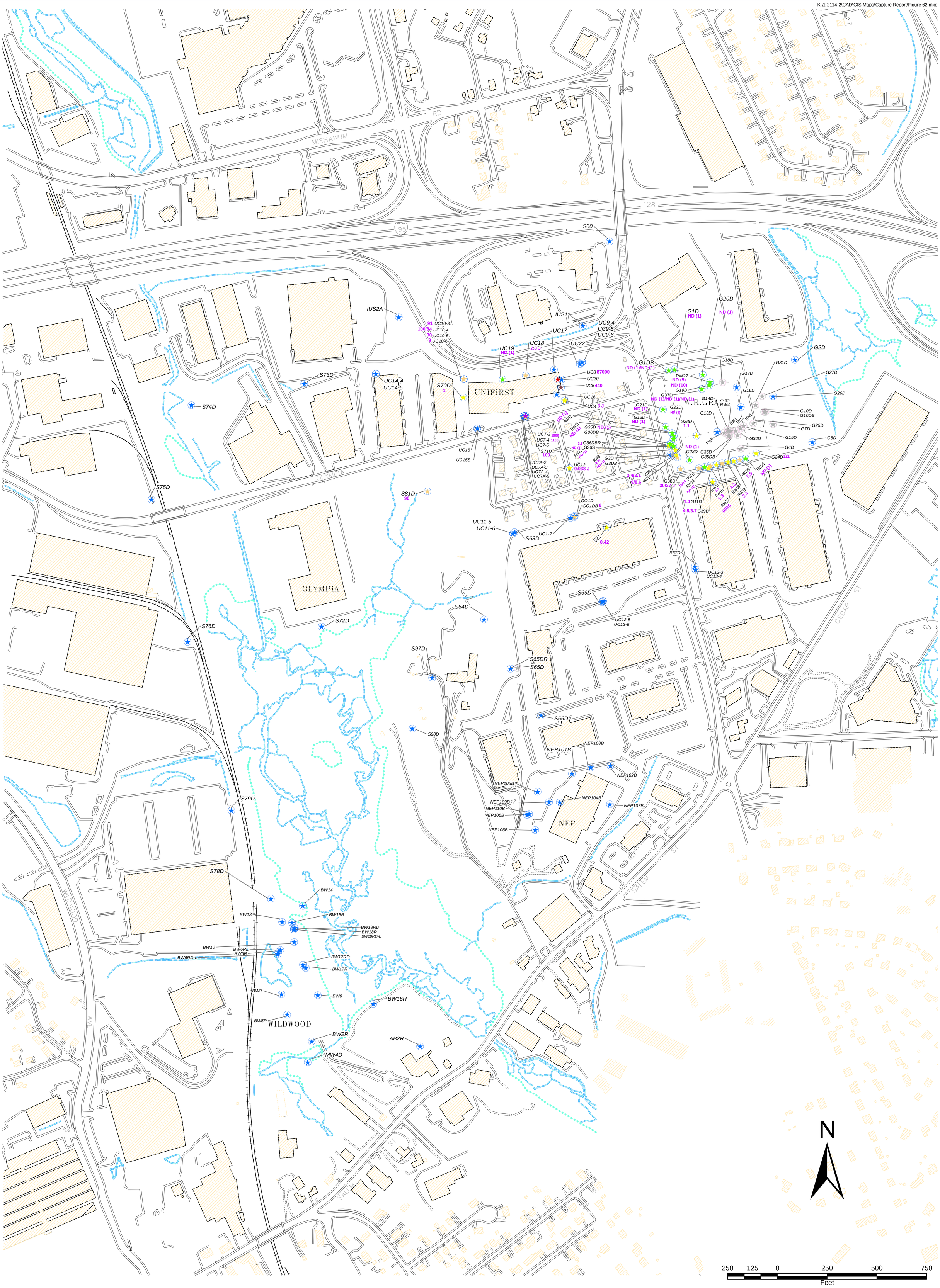
Elevations in NGVD 1929 feet.

FIGURE 60 - TCE CONCENTRATIONS IN UNCONSOLIDATED DEPOSITS GROUNDWATER, MOST RECENT 1992 TO 2009 WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 62.mxd



Well Location

By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

2010 Upper 100 Feet of Bedrock PCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

Base Map

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: Multiple samples collected on same date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929.

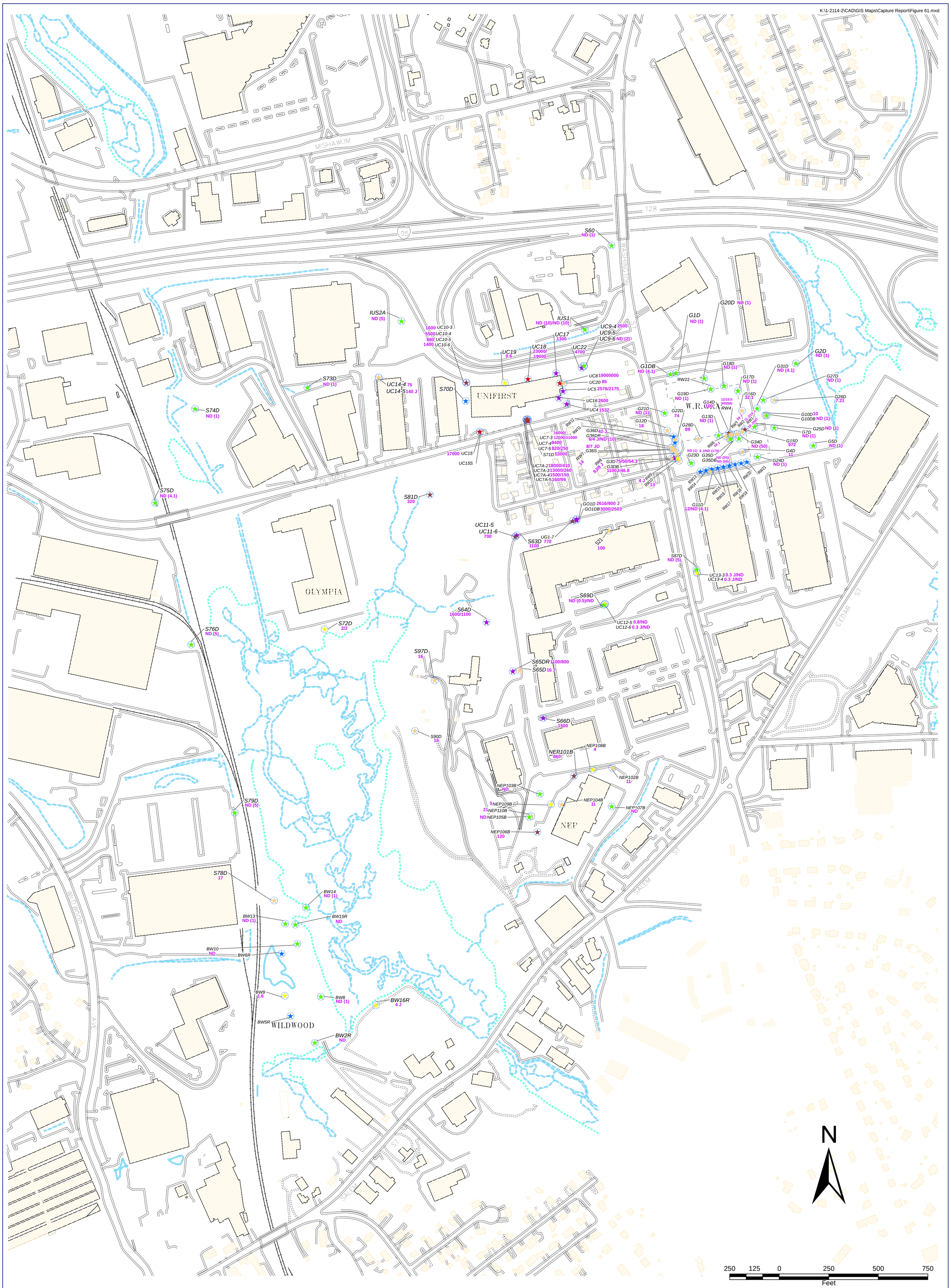
FIGURE 62 - PCE CONCENTRATIONS IN
UPPER 100 FEET OF BEDROCK GROUNDWATER
2010
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/19/10
Reviewed by: MBM Date: 12/10/10
Scale: As Shown Project: 1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 61.mxd



Well Location

By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

Pre-92 Upper 100 Feet of Bedrock PCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

Base Map

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: Multiple samples collected on same date, all results shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929.

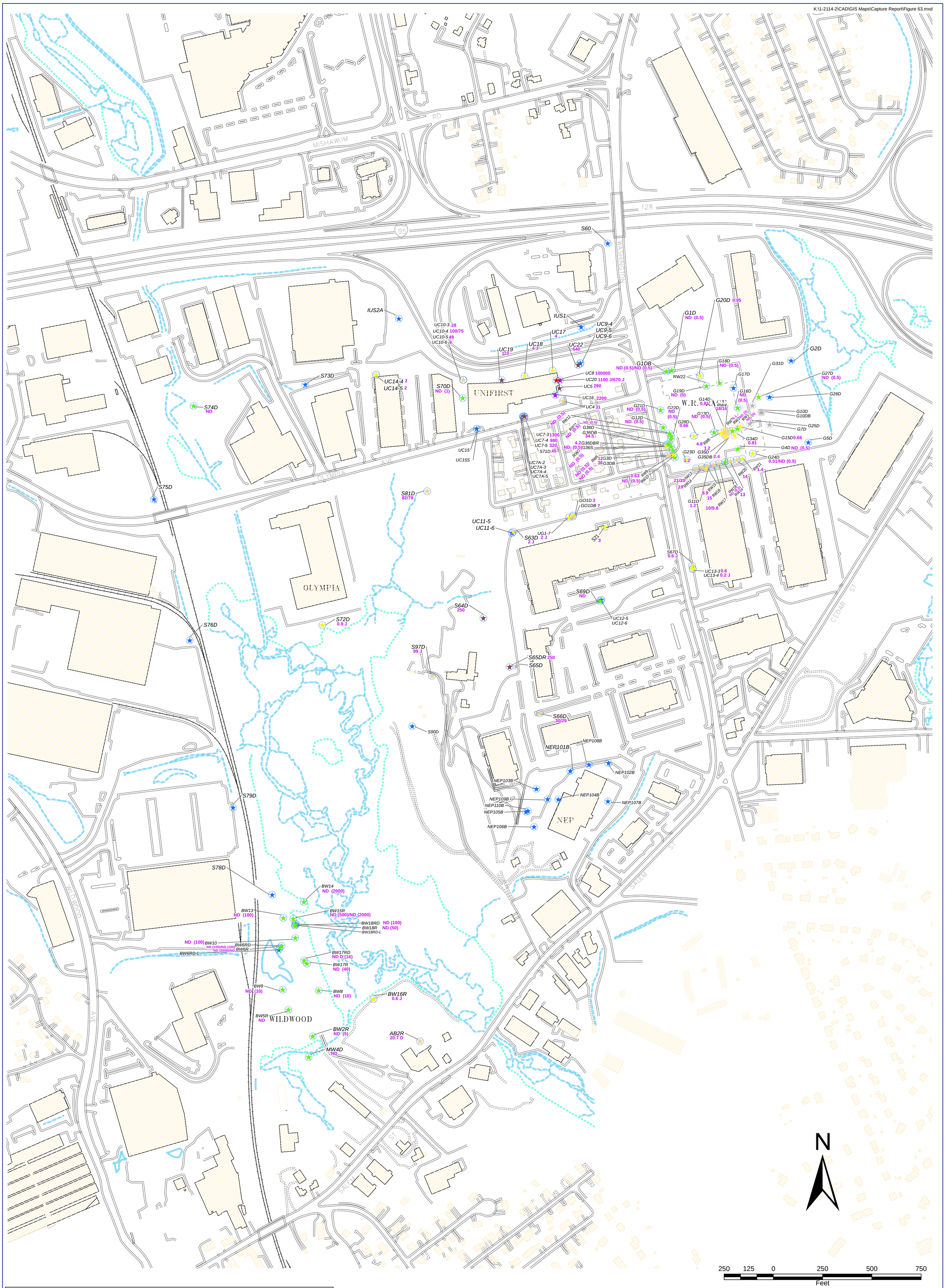
FIGURE 61 - MAXIMUM PRE-REMEDY PCE CONCENTRATIONS IN UPPER 100 FEET OF BEDROCK GROUNDWATER WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	DPB	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 63.mxd



N

250 125 0 250 500 750
Feet

Well Location

By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

1992 to 2009 Upper 100 feet of Bedrock Most Recent PCE Concentration (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

Base Map

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: Multiple samples collected on same date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929.

FIGURE 63 - PCE CONCENTRATIONS IN UPPER 100 FEET OF BEDROCK GROUNDWATER MOST RECENT 1992 TO 2009 WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/19/10
Reviewed by: MBM Date: 12/10/10
Scale: As Shown Project: 1-2114-2

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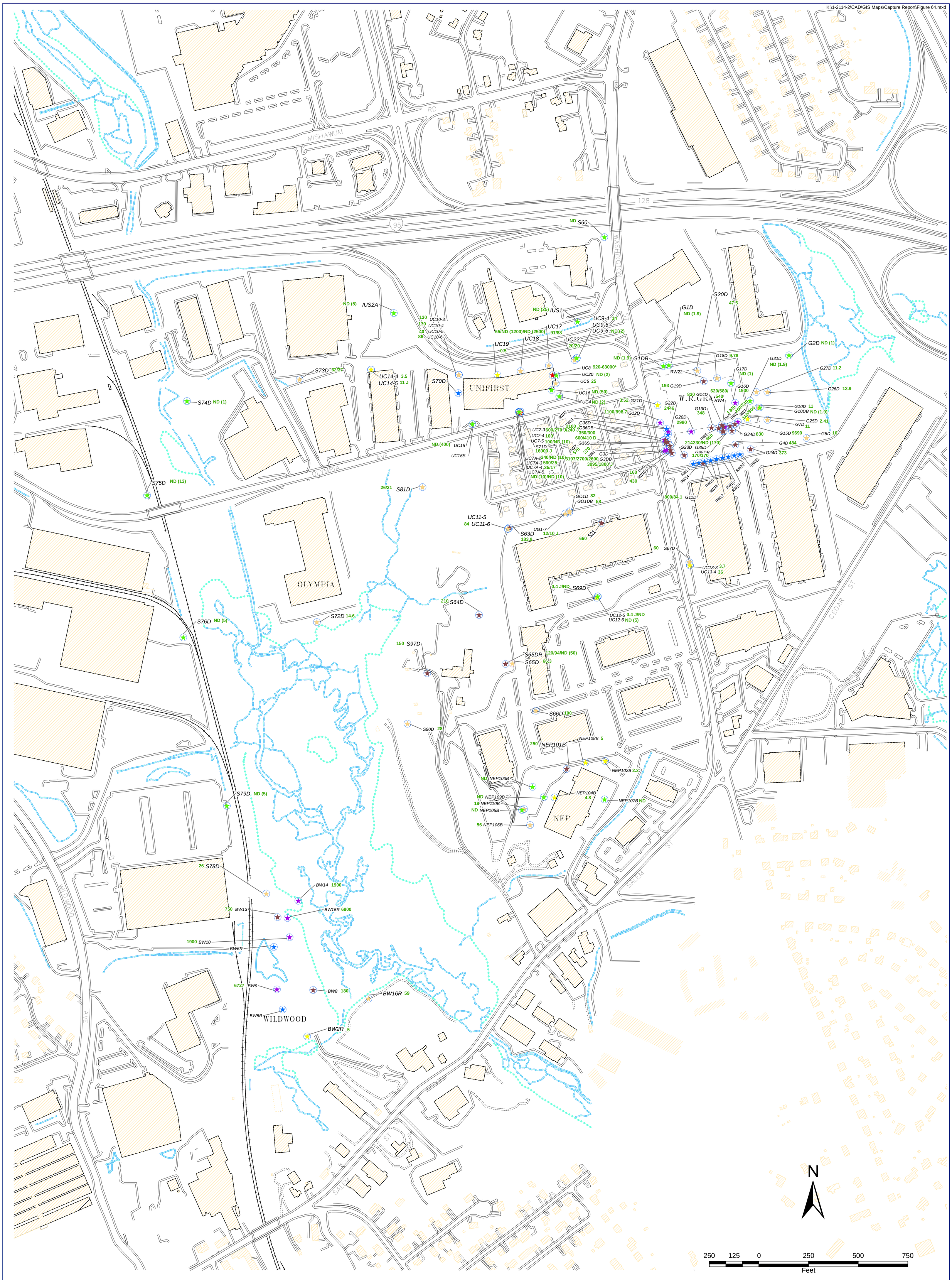


Monitoring Well

By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

Pre-92 Upper 100 feet of Bedrock TCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: More than one sample collected on date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

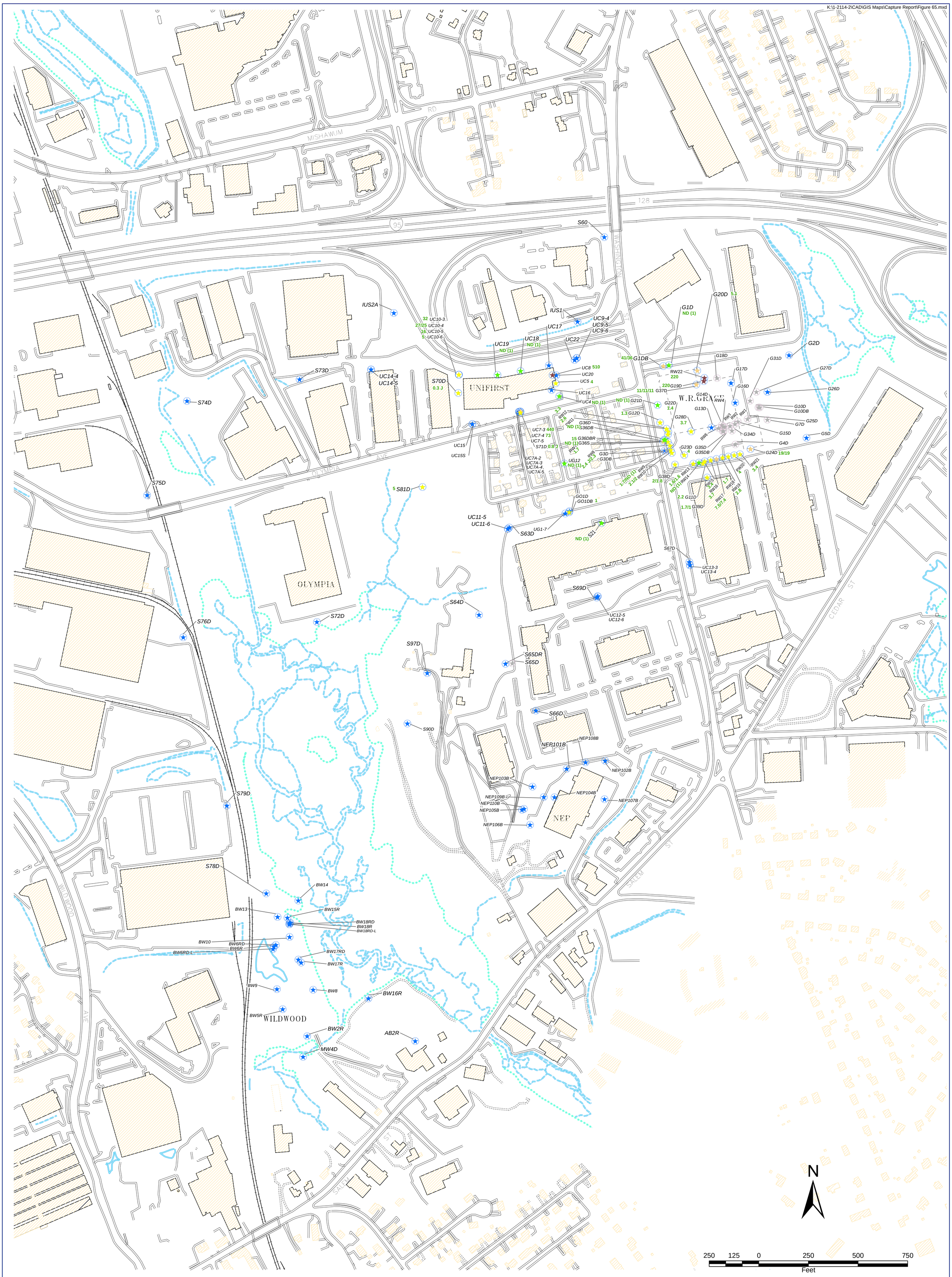
FIGURE 64 - MAXIMUM PRE-REMEDY TCE CONCENTRATIONS IN UPPER 100 FEET OF BEDROCK GROUNDWATER
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 65.mxd



Well Location

By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

2010 Upper 100 feet of Bedrock TCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: More than one sample collected on date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

FIGURE 65 - TCE CONCENTRATIONS IN UPPER 100 FEET OF BEDROCK GROUNDWATER 2010
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

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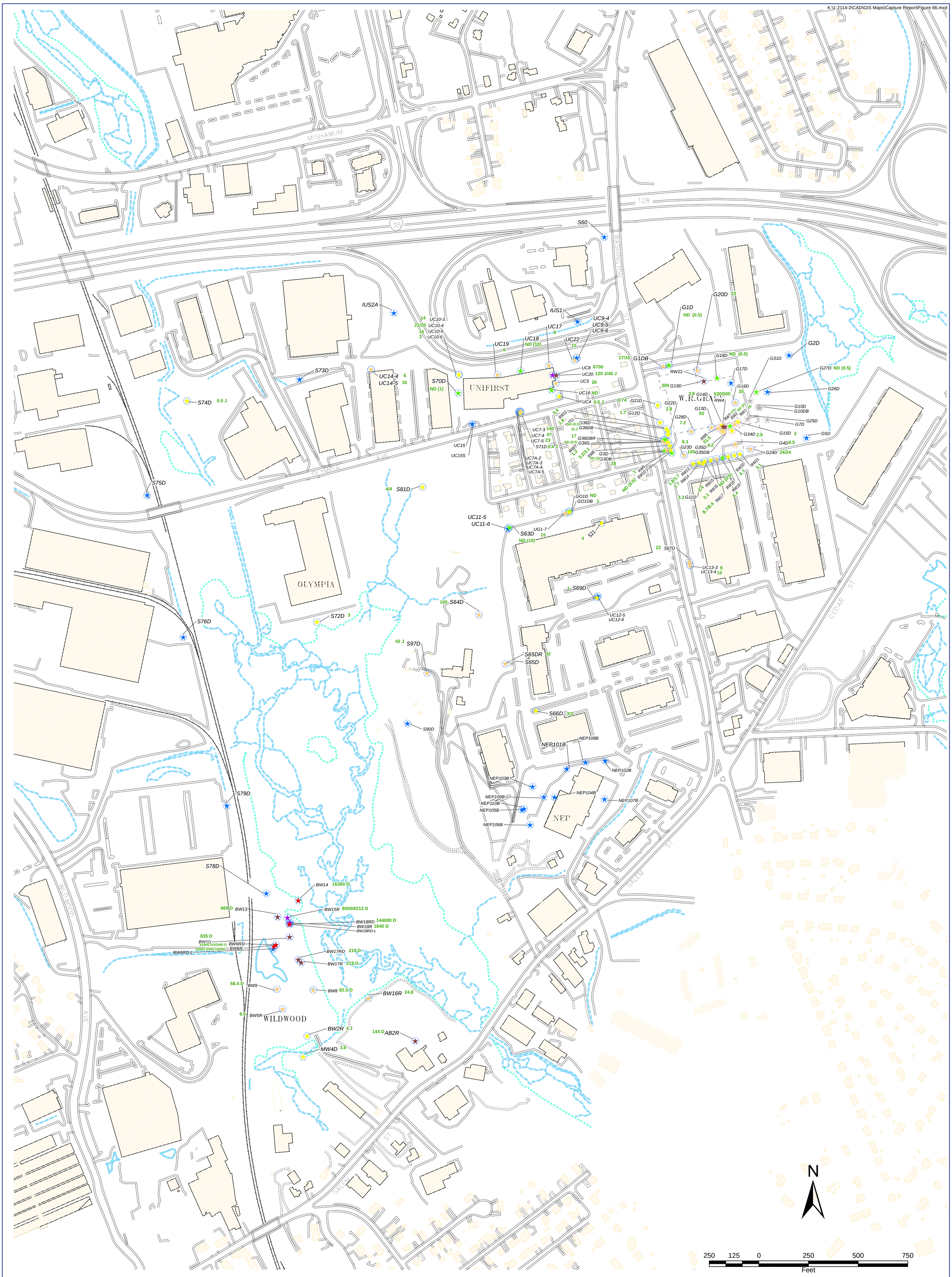

1992-2009 Upper 100 feet of Bedrock TCE Most Recent (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

Well Location

By Formation

- Upper 100 feet of Bedrock (RS)
- Upper 100 feet of Bedrock (Abandoned) (RS-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
#/#: More than one sample collected on date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

FIGURE 66 - TCE CONCENTRATIONS IN UPPER 100 FEET OF BEDROCK GROUNDWATER MOST RECENT 1992 TO 2009 WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/09/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

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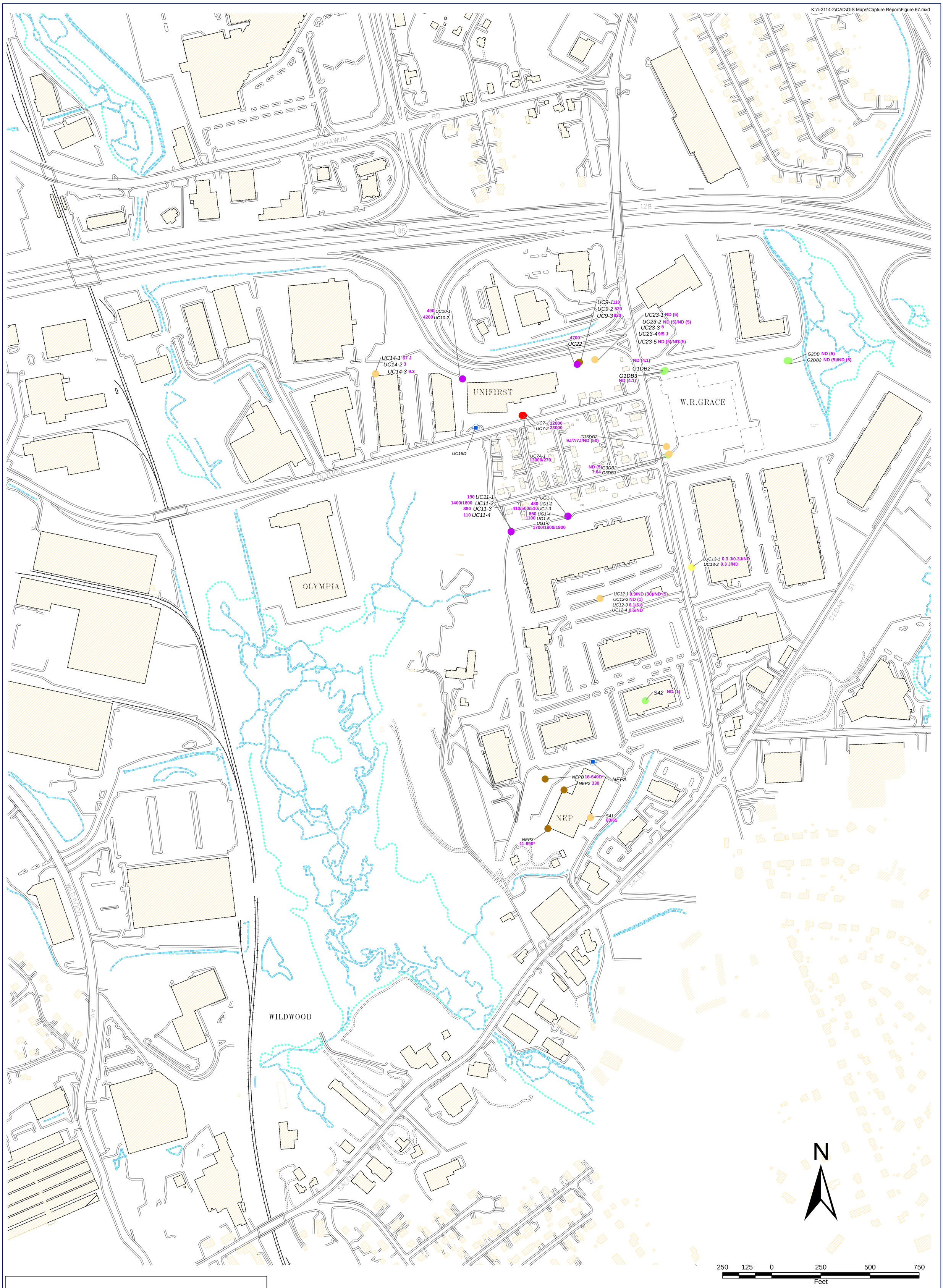

Monitoring Well

By Formation

- Deep Bedrock
- Deep Bedrock (Well Abandoned)

Pre-92 Deep Bedrock TCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: Multiple samples collected on same date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929.

FIGURE 67 - MAXIMUM PRE-REMEDY PCE CONCENTRATIONS IN DEEP BEDROCK GROUNDWATER
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB	Date: 11/19/10
Reviewed by: MBM	Date: 12/10/10
Scale: As Shown	Project: 1-2114-2

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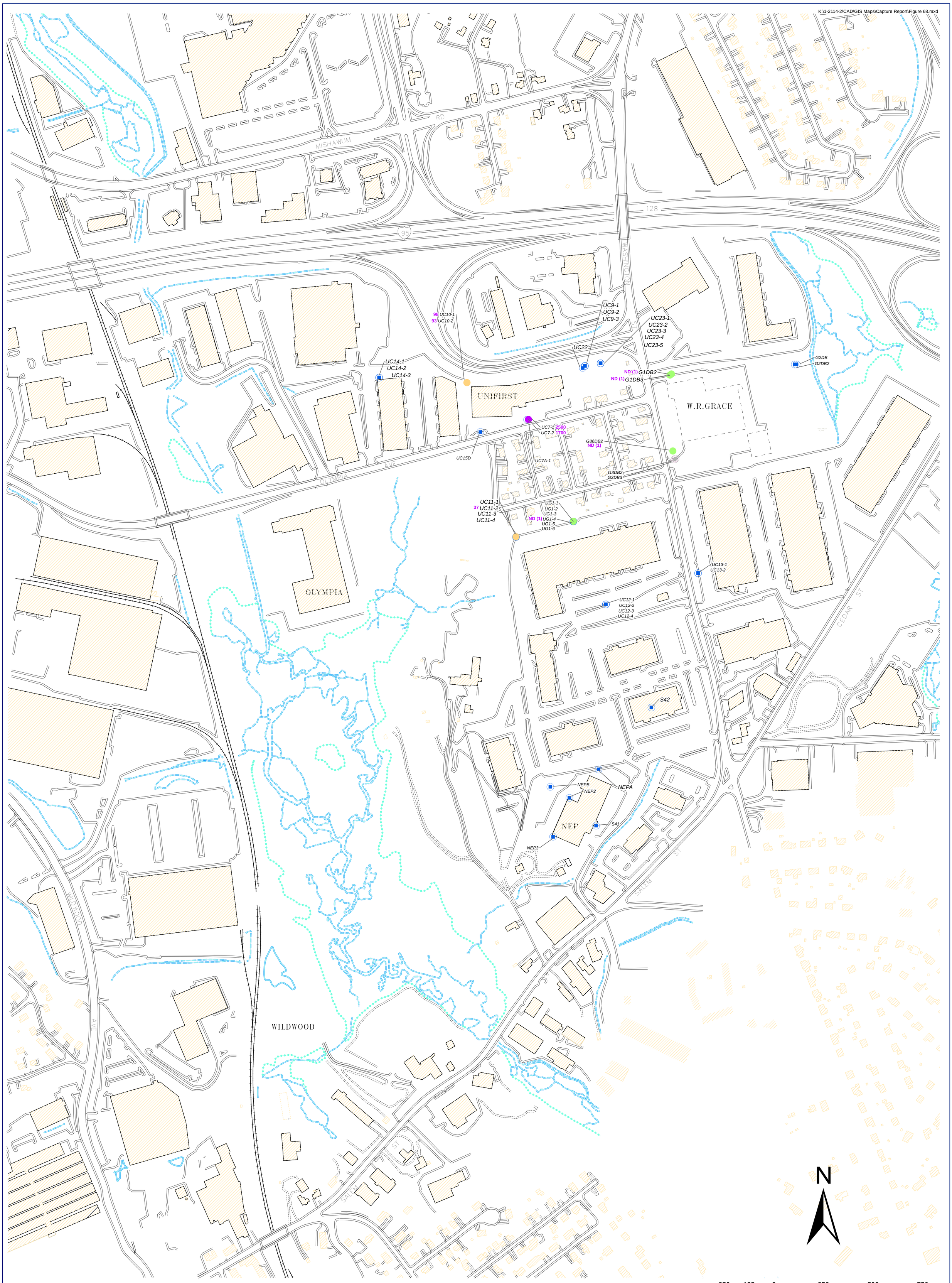

Monitoring Well

By Formation

- Deep Bedrock
- Deep Bedrock (Well Abandoned)

2010 Deep Bedrock TCE Maximum Concentration (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

NOTES:

J: Estimated value
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration lower than reported concentration
#/#: Multiple samples collected on same date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929.

FIGURE 68 - PCE CONCENTRATIONS IN DEEP BEDROCK GROUNDWATER 2010
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by: DPB Date: 11/19/10
Reviewed by: MBM Date: 12/10/10
Scale: As Shown Project: 1-2114-2

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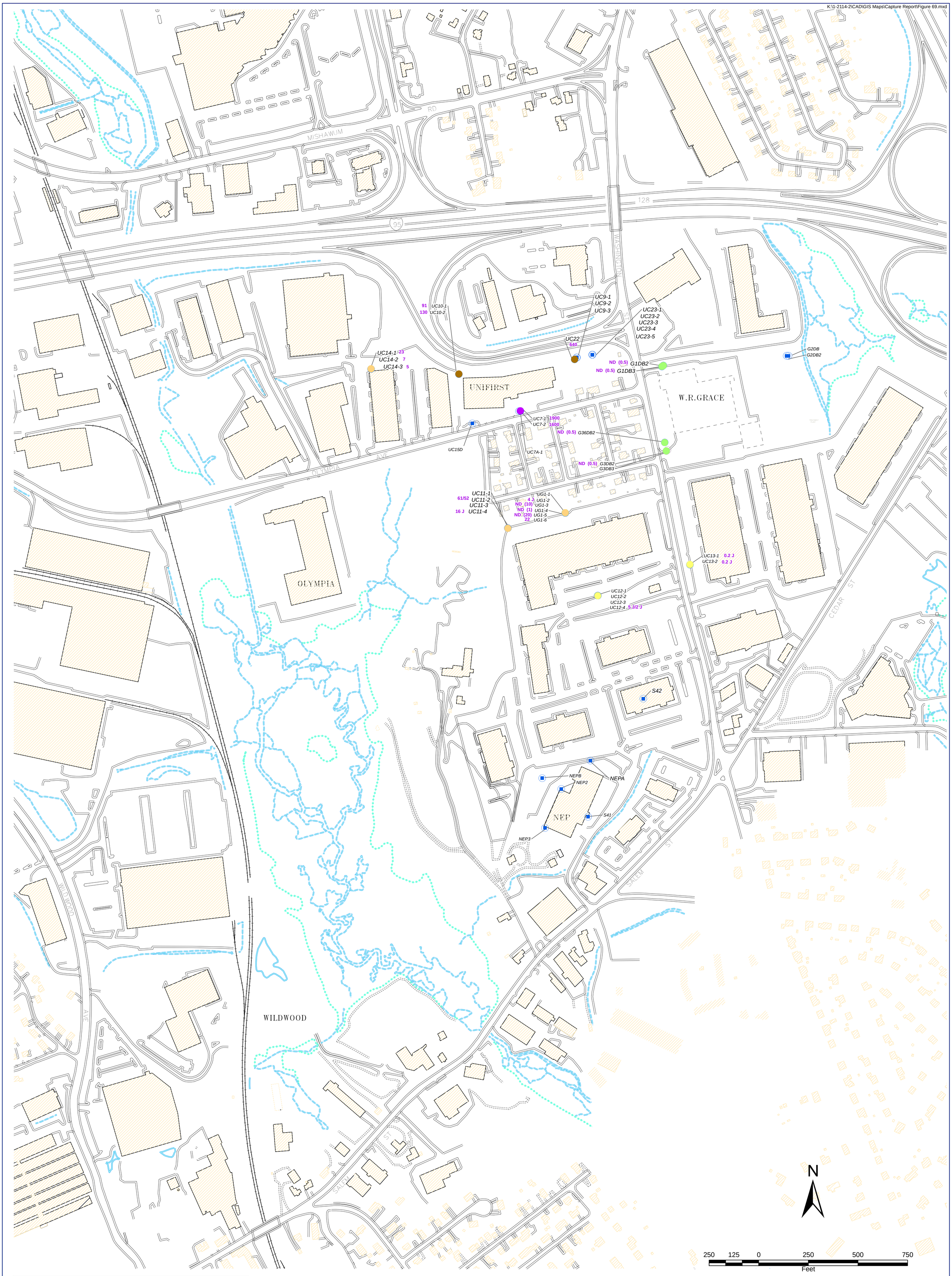


Monitoring Well

By Formation

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

1992-2009 Deep Bedrock PCE Most Recent (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: More than one sample collected on date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

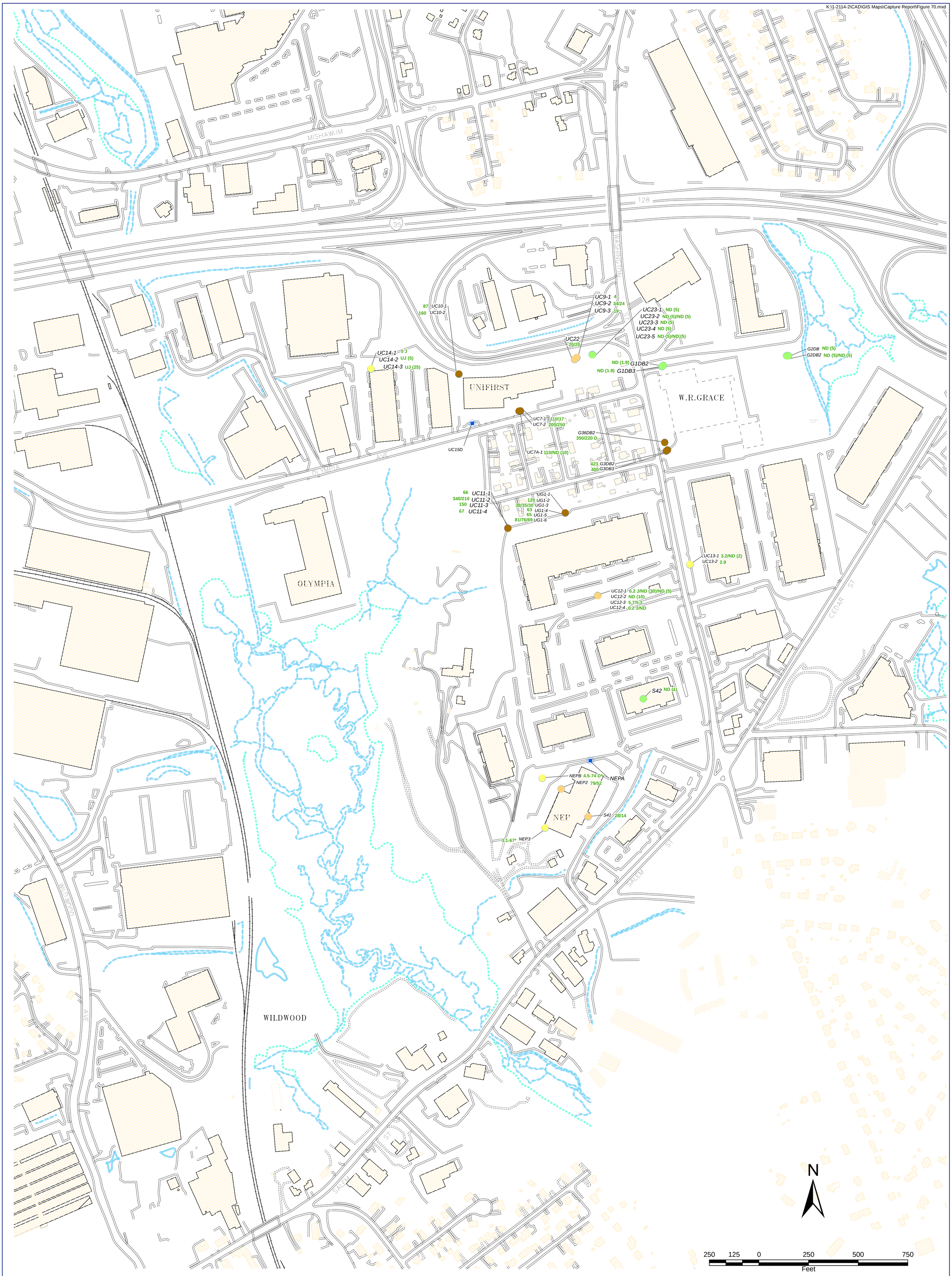
FIGURE 69 - PCE CONCENTRATIONS IN DEEP BEDROCK GROUNDWATER MOST RECENT 1992 TO 2009 WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 70.mxd



Well Location

By Formation

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

Pre-92 Deep Bedrock TCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: More than one sample collected on date, all results are shown.

Elevations in NGVD 1929 feet.

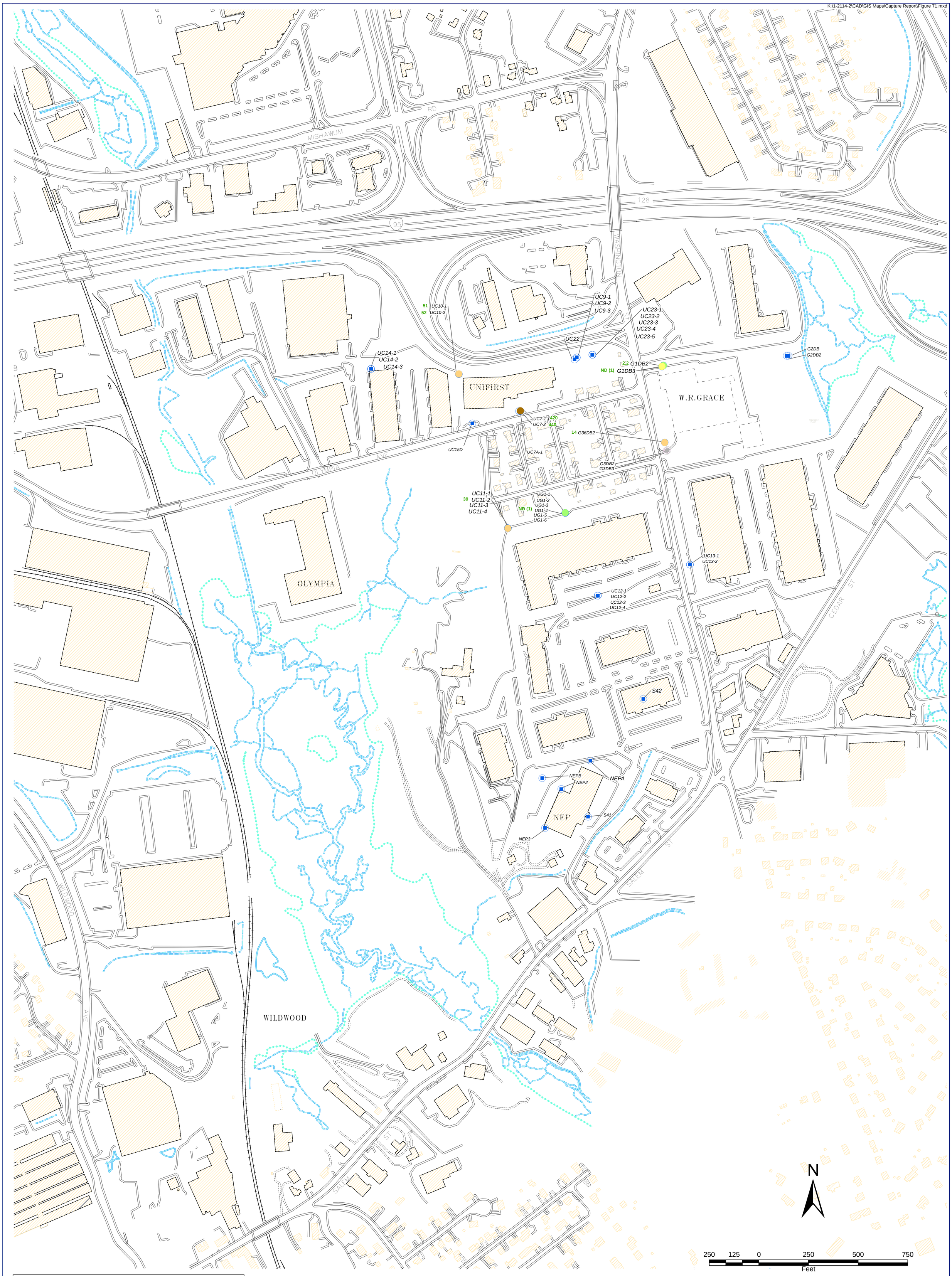
FIGURE 70 - MAXIMUM PRE-REMEDY TCE CONCENTRATIONS IN DEEP BEDROCK GROUNDWATER
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 71.mxd



2010 Deep Bedrock TCE Maximum (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

Well Location

By Formation

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration lower than reported concentration
#/#: More than one sample collected on date, all results are shown except * indicates Appendix E should be consulted to view all results.

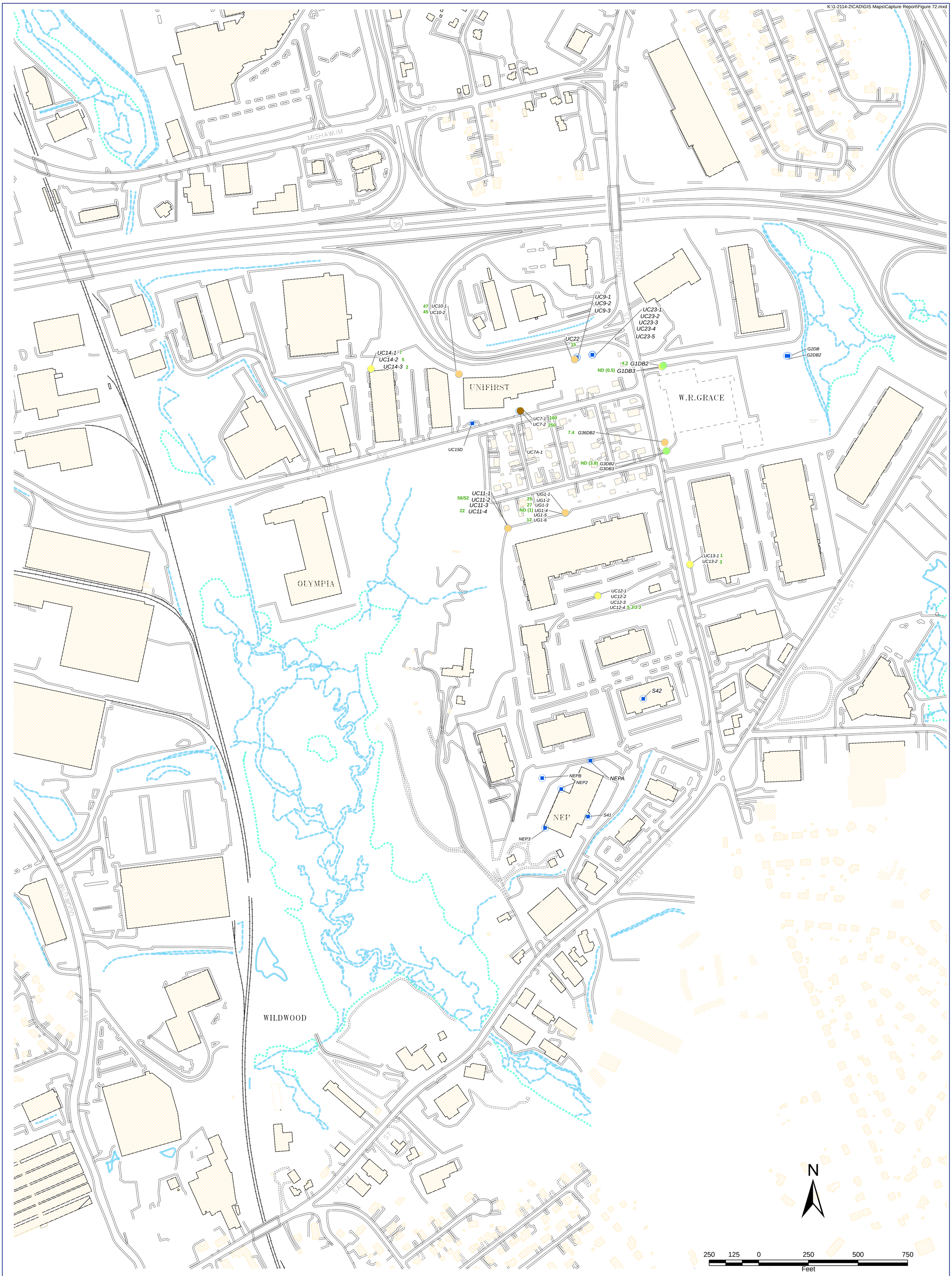
Elevations in NGVD 1929 feet.

FIGURE 71 - TCE CONCENTRATIONS IN DEEP BEDROCK GROUNDWATER 2010
WELLS G & H SITE
WOBURN, MASSACHUSETTS

The Johnson Company
100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

K:\1-2114-2\CAD\GIS Maps\Capture Report\Figure 72.mxd



Well Location

By Formation

- Deep Bedrock (RD)
- Deep Bedrock (Abandoned) (RD-A)

1992-2009 Deep Bedrock TCE Most Recent (µg/L)

- Non-Detect (Reporting Limit Shown)
- ND - 5
- 5 - 100
- 100 - 1000
- 1000 - 10,000
- >10,000

- Building
- Building
- Building-GRACE-DEMO
- Building-RESID-DEWEY-NEIGH
- Road
- Railway
- Stream
- Wetland

Notes:
J: Estimated concentration
D: Sample diluted
B: Compound detected in blank
TR: Trace detection
K: Concentration is lower than reported concentration
#/#: More than one sample collected on date, all results are shown except * indicates Appendix E should be consulted to view all results.

Elevations in NGVD 1929 feet.

FIGURE 72 - TCE CONCENTRATIONS IN DEEP BEDROCK GROUNDWATER MOST RECENT 1992 TO 2009 WELLS G & H SITE WOBURN, MASSACHUSETTS

The Johnson Company

100 State Street, Suite 600
Montpelier, VT 05602

Drawn by:	RTK	Date:	11/19/10
Reviewed by:	MBM	Date:	12/10/10
Scale:	As Shown	Project:	1-2114-2

Appendix A

Summary of Unconsolidated Deposits Hydraulic Conductivity Values

Table A1 – Laboratory Scale Hydraulic Conductivity (K) and Fraction Organic Carbon (f_{oc}) Values for Unconsolidated Deposit Samples Obtained From UniFirst site (ENSR, 1994)

Boring	Sample	Depth (ft)	Date	f_{oc} (%)	K (cm/s)
VB1	VB1-2	2.25-3.25	2/23/94	0.02	-
VB2	VB2-2	2.25-4.25	2/23/94	0.03	-
VB3	VB3-2	2.25-4.25	2/23/94	0.03	-
	VB3-4	8-10	2/23/94	0.01	-
	VB3-6	12-13	2/23/94	0.02	-
TPA (test pit)	TPA27	2.25	5/13/92	0.028	1.14E-04
	TPA37	3.08	5/13/92	0.033	4.11E-04
	TPA44	3.67	5/13/92	0.051	2.2E-04
	TPA74	6.17	5/13/92	0.056	-
TPB (test pit)	TPB27	2.25	5/13/92	0.036	3.2E-05
	TPB37	3.08	5/13/92	0.039	5.36E-05
	TPB44	3.67	5/13/92	0.072	2.08E-05

Table A2 – Summary of Hydraulic Conductivity Values (GeoTrans 1994)

Well	Geology	K (cm/s)	Depth (ft)	Method
S64	Stratified Drift	1.41E-03	9-11	HTL
	Stratified Drift	1.34E-03	9-11	HVH
	Stratified Drift	9.88E-04	19-21	HTL
	Stratified Drift	8.82E-05	19-21	HVH
	Stratified Drift	1.38E-03	31.5-33.5	HTL
	Stratified Drift	1.31E-03	31.5-33.5	HVH
S74	Stratified Drift	4.50E-02	39-41	HTL
	Stratified Drift	2.00E-02	39-41	HVH
	Stratified Drift	6.00E-02	54-56	HTL
	Stratified Drift	1.00E-01	54-56	HVH
	Stratified Drift	1.76E-04	66-68	HTL
	Stratified Drift	1.41E-04	66-68	HVH
S76	Stratified Drift	3.53E-05	20-22	HTL
	Stratified Drift	3.53E-05	20-22	HVH
	Stratified Drift	3.53E-05	60-62	HTL
	Stratified Drift	3.53E-05	60-62	HVH
	Stratified Drift	3.53E-05	126-128	HTL
	Stratified Drift	3.53E-05	126-128	HVH
S77	Stratified Drift	3.53E-05	30-32	HTL
	Stratified Drift	3.53E-05	30-32	HVH
	Stratified Drift	7.06E-05	73-75	HTL
	Stratified Drift	1.41E-04	73-75	HVH
S84	Stratified Drift	3.53E-05	16-18	HTL
	Stratified Drift	3.53E-05	16-18	HVH
	Stratified Drift	1.06E-04	78-80	HTL
	Stratified Drift	1.06E-04	78-80	HVH
S85	Stratified Drift	5.29E-04	15-17	HTL
	Stratified Drift	5.29E-04	15-17	HTL
	Stratified Drift	1.41E-04	35-37	HTL
	Stratified Drift	2.12E-04	35-37	HVH
S86	Stratified Drift	1.41E-04	50-52	HTL
	Stratified Drift	1.41E-04	50-52	HVH
S64M	Stratified Drift	8.12E-05	9	GS
	Stratified Drift	6.35E-05	32	GS
S66D	Stratified Drift	4.94E-07	10	GS
S67	Stratified Drift	3.53E-05	40	GS

Table A2 – Summary of Hydraulic Conductivity Values (GeoTrans 1994)

Well	Geology	K (cm/s)	Depth (ft)	Method
S71	Stratified Drift	3.53E-05	0	GS
	Stratified Drift	7.06E-05	2	GS
	Stratified Drift	7.06E-05	4	GS
	Stratified Drift	9.17E-06	6	GS
	Stratified Drift	5.29E-06	8	GS
	Stratified Drift	3.53E-05	10	GS
	Stratified Drift	3.53E-05	12	GS
	Stratified Drift	5.29E-04	14	GS
S72D	Stratified Drift	2.26E-06	35	GS
	Stratified Drift	1.69E-06	55	GS
	Stratified Drift	2.12E-04	80	GS
S74M	Stratified Drift	3.53E-05	39	GS
	Stratified Drift	2.26E-06	34	GS
S75D	Stratified Drift	3.88E-04	10	GS
	Stratified Drift	3.53E-05	40	GS
	Stratified Drift	3.53E-06	65	GS
S76	Stratified Drift	3.21E-06	21	GS
S76M	Stratified Drift	3.53E-05	60	GS
S77	Stratified Drift	2.12E-04	20	GS
S77D	Stratified Drift	4.94E-04	70	GS
	Stratified Drift	1.02E-07	120	GS
S78	Stratified Drift	7.06E-05	17	GS
	Stratified Drift	1.24E-07	63	GS
S79	Stratified Drift	2.82E-04	14	GS
	Stratified Drift	3.53E-05	69	GS
S80	Stratified Drift	2.26E-06	8	GS
	Stratified Drift	3.53E-05	NA	GS
S82	Stratified Drift	3.53E-05	10	GS
	Stratified Drift	7.06E-05	20	GS
S83	Stratified Drift	2.82E-04	40	GS
	Stratified Drift	6.35E-04	60	GS
	Stratified Drift	9.17E-06	80	GS
S84	Stratified Drift	6.35E-04	10	GS
	Stratified Drift	2.12E-04	40	GS
	Stratified Drift	1.06E-04	65	GS
S85	Stratified Drift	7.76E-04	34	GS
	Stratified Drift	4.94E-06	59	GS

Table A2 – Summary of Hydraulic Conductivity Values (GeoTrans 1994)

Well	Geology	K (cm/s)	Depth (ft)	Method
S86D	Stratified Drift	3.88E-04	25	GS
	Stratified Drift	5.29E-04	50	GS
BSSW5	Stratified Drift	1.31E-03	3-13	B&R Falling
	Stratified Drift	5.65E-04	3-13	B&R Rising
	Stratified Drift	6.32E-03	3-13	HVH Rising
BSSW6	Stratified Drift	6.39E-03	12-16	B&R Falling
	Stratified Drift	7.20E-03	12-16	B&R Rising
	Stratified Drift	3.00E-02	12-16	HVH Falling
	Stratified Drift	1.20E-02	12-16	HVH Rising
BOW9	Stratified Drift	1.20E-02	4-14	B&R Falling
	Stratified Drift	4.60E-02	4-14	B&R Rising
	Stratified Drift	7.20E-02	4-14	HVH Falling
	Stratified Drift	4.80E-02	4-14	HVH Rising
BOW13	Stratified Drift	8.19E-03	4-14	B&R Falling
	Stratified Drift	6.21E-03	4-14	B&R Rising
	Stratified Drift	1.80E-02	4-14	HVH Falling
	Stratified Drift	3.60E-02	4-14	HVH Rising
BSSW15	Stratified Drift	9.99E-03	3-13	B&R Falling
	Stratified Drift	1.40E-02	3-13	B&R Rising
	Stratified Drift	3.10E-02	3-13	HVH Falling
	Stratified Drift	3.10E-02	3-13	HVH Rising
BSSW16	Stratified Drift	4.80E-03	3-13	B&R Falling
	Stratified Drift	6.00E-03	3-13	B&R Rising
	Stratified Drift	3.10E-02	3-13	HVH Falling
	Stratified Drift	2.10E-02	3-13	HVH Rising
BSW1	Stratified Drift	2.70E-02	25-35	B&R Falling
	Stratified Drift	2.10E-02	25-35	B&R Rising
	Stratified Drift	2.40E-02	25-35	HVH Falling
	Stratified Drift	3.30E-02	25-35	HVH Rising
BSW6	Stratified Drift	6.00E-03	20-25	B&R Falling
	Stratified Drift	6.10E-03	20-25	B&R Rising
	Stratified Drift	2.00E-02	20-25	HVH Falling
	Stratified Drift	8.01E-03	20-25	HVH Rising
BSW9	Stratified Drift	5.89E-03	20-25	B&R Falling
	Stratified Drift	5.89E-03	20-25	B&R Rising
	Stratified Drift	1.20E-02	20-25	HVH Falling
	Stratified Drift	6.00E-03	20-25	HVH Rising

Table A2 – Summary of Hydraulic Conductivity Values (GeoTrans 1994)

Well	Geology	K (cm/s)	Depth (ft)	Method
BOW15	Stratified Drift	6.81E-03	20-30	VK Falling
	Stratified Drift	1.70E-02	20-30	VK Rising
BW1	Stratified Drift	4.69E-03	33-43	VK Falling
	Stratified Drift	5.79E-03	33-43	VK Rising
BW5	Stratified Drift	6.70E-03	30-40	B&R Falling
	Stratified Drift	7.20E-03	30-40	B&R Rising
	Stratified Drift	1.40E-02	30-40	HVH Falling
	Stratified Drift	9.00E-03	30-40	HVH Rising
BOW16	Stratified Drift	6.10E-03	35-45	B&R Falling
	Stratified Drift	1.80E-03	35-45	B&R Rising
	Stratified Drift	2.12E-03	35-45	HVH Falling
	Stratified Drift	3.11E-03	35-45	HVH Rising
S39 (H)	Stratified Drift	6.09E-02	78-88	PT
S40 (G)	Stratified Drift	8.38E-02	69-79	PT
G2M	Lodgement Till	3.53E-05	23-28	HVH
G3S	Lodgement Till	3.53E-05	22-37	HVH
G4S	Lodgement Till	3.53E-05	16-26	HVH
G8S	Lodgement Till	3.53E-05	34-44	HVH
G10S	Lodgement Till	2.12E-04	15-25	HVH
G13S	Lodgement Till	1.41E-05	17-27	HVH
G14S	Lodgement Till	1.41E-05	12-22	HVH
G15S	Lodgement Till	2.12E-04	14-24	HVH
G17S	Lodgement Till	1.76E-05	37-47	HVH
G16S	Lodgement Till	3.53E-06	20-30	HVH
G18S	Lodgement Till	2.47E-05	22-32	HVH
G19M	Lodgement Till	7.06E-05	35-45	HVH
G20S	Lodgement Till	1.06E-04	25-35	HVH
G21S	Lodgement Till	2.12E-05	19-29	HVH
G23S	Lodgement Till	1.76E-04	16-26	HVH
G24S	Lodgement Till	3.53E-05	16-26	HVH
G25S	Lodgement Till	3.53E-05	20-30	HVH
G26S	Lodgement Till	7.06E-05	11-21	HVH
G27S	Lodgement Till	3.53E-05	11-21	HVH
G28S	Lodgement Till	1.06E-04	15-25	HVH
G31D	Lodgement Till	1.41E-05	33-48	HVH
G32S	Lodgement Till	1.76E-05	15-25	HVH
G19S	AT/LT	1.06E-04	10-20	HVH

Table A2 – Summary of Hydraulic Conductivity Values (GeoTrans 1994)

Well	Geology	K (cm/s)	Depth (ft)	Method
G22S	AT/LT	2.47E-05	17-32	HVH
G1S	Ablation Till	1.83E-03	27-37	HVH
G2S	Ablation Till	1.41E-04	9-19	HVH
G5S	Ablation Till	8.12E-04	11-21	HVH
G7S	Ablation Till	2.12E-04	6-21	HVH
G9S	Ablation Till	4.59E-04	13-18	HVH
G11S	Ablation Till	3.88E-04	16-21	HVH
G12S	Ablation Till	9.17E-04	15-25	HVH
GO1S	Ablation Till	5.29E-04	8-18	HVH
S63	Ablation Till	2.12E-04	13	GS
S67	Ablation Till	7.06E-07	15	GS
S70	Ablation Till	3.53E-05	15	GS
S70D	Ablation Till	3.53E-05	35	GS
	Ablation Till	2.12E-04	55	GS
S82	Ablation Till	3.53E-06	35	GS
BCW13	Ablation Till	3.11E-03	45-50	B&R Falling
	Ablation Till	2.61E-03	45-50	B&R Rising
	Ablation Till	6.00E-03	45-50	HVH Falling
	Ablation Till	5.01E-03	45-50	HVH Rising
G34S	Ablation Till	2.36E-04	12-22	B&R Falling

AT = Ablation Till
LT = Lodgement Till
B&R Falling = Bouwer and Rice Falling Head Test
B&R Rising = Bouwer and Rice Rising Head Test
GS = Estimated from grain size measurement
HTL = Hvorslev Time Lag
HVH = Hvorslev Variable Head
HVH Falling = Hvorslev Variable Head Falling Head Test
HVH Rising = Hvorslev Variable Head Rising Head Test
PT = Pumping test using Boulton method
VK Falling = Van der Kamp Falling Head
VK Rising = Van der Kamp Rising Head

Appendix B

Summary of Bedrock Boring Log Observations

Table B1 - Boring Log Observations Providing Evidence of Bedrock Faulting

Boring	Depth (ft bgs)	Observation
IUS-3	14.5-26.5	Moderately fractured
UC-5	11 – 11.4	Slickensides (SKS)
UC-7	73 - 83	slickensides
	85.6 – 90.8	Many joints manifest slickensides
	93 - 98	slickensides
	114.3 – 114.4	Fractured zone
	131.7 – 132.9	Fractured zone
	137.5 - 138	Fracture zone
	140.6 - 141	Fracture zone
UC-7A	18.6 – 19.1	Fracture zone
	19.4 – 19.7	Fracture zone
	20.3 – 20.8	Fracture zone
	30.3 – 30.4	Fracture zone
	31.5 – 31.6	Fracture zone
	32.6 – 32.9	Crushed zone
	41.5	Fractured
	56.5-58.4	Fracture zone
	61.3-63	Fracture zone
	63.8	SKS
	64.6 – 64.7	Crushed zone
	83 – 88	Some SKS
	125.7 – 125.8	Crushed zone
	137.5 - 137.9	Fracture zone
	138.5-139.1	Close spaced fractures
	139.6 – 140.1	Close spaced fractures
	141.0 – 141.6	Close spaced fractures
UC-8	8.3 - 12.8	Highly fractured
UC-9	17.4 – 18.0	Fracture zone
	32.8 – 40	Fracture zone
	53.6 – 54	Fracture zone
	54.6 – 55	Fracture zone
	62 – 62.2	Brecciation?, SKS
	64 - 65	Brecciation
	65	SKS
	145.1 – 145.3	Fracture zone
	147.6 – 148.6	Brecciated
	177.9 – 178.2	Fracture zone
	186.7	SKS
	189 – 189.4	SKS
	193.4 – 193.7	SKS

Table B1 - Boring Log Observations Providing Evidence of Bedrock Faulting

Boring	Depth (ft bgs)	Observation
UC-10	79-79.6	Fracture zone
	79.8-80.8	Fracture zone
	82 - 84	Fracture zone
	83.1-83.2	Fracture zone
	100.8	SKS
	104.6 – 106.3	Fracture zone
UC-11	27.4	Highly fractured zone
	28.3	Highly fractured zone
	32.4-33.5	Highly fractured zone
	64.2	Highly fractured
	65 – 75	Some faulting noted
	91	Moderately weathered closely spaced fault zone
	182.85	Fault
	228	Slickenside
UC-12	41.9 - 42	Fractured
	46.2 – 48.3	Fractured
	50.6 – 50.7	Fracture zone
	56.7	Locally crushed
	63 – 73	Highly fractured, fracture zone
	81 – 85.1	Intensive fracturing, pulverized zones
	92 – 93.1	Crushed zone
	108.9 – 109.3	Fracture zone
	180.2 – 192.8	Fracture zone
	222.8	SKS
	293.1	SKS
	303.3	SKS
	317.9 -318.1	Fracture zone
	318.3 – 318.7	Fracture zone
	323	SKS
UC-13	79	Intensely fractured, locally crushed
	88.6 – 89.3	Fracture zone
	97.7 – 99.7	Fracture zone
	137 – 138.5	Fracture zones
	148.5 – 150.5	Fracture zone
	188 – 189	Fracture zone
	229.5	SKS?
	240.2-240.4	Fracture with slickensides
	245.75	Evidence of slickensiding

Table B1 - Boring Log Observations Providing Evidence of Bedrock Faulting

Boring	Depth (ft bgs)	Observation
UC-13 (continued)	255 – 255.2	Heavily fractured
	280.55	Vertical fractures with slickensides
	281.3 – 281.9	Vertical fractures with slickensides
	284.7	Vertical fractures with slickensides
	293.9 – 295.6	Fault gouge, breccia
	294.1 – 294.4	Closely spaced fractured with clay mineral gouge
	346.4 – 347.9	SKS
	352.2 – 352.8	SKS
UC-14	110	Fracture zone
	110.3 – 111.8	Fracture zone
	130 - 131	Major fracture zone
	132.3 – 133	Major fracture zone
	133.5 – 134	Major fracture zone
	134.1 – 134.5	Major fracture zone
	145 – 147	Fracture zones throughout
	158.1 – 158.2	Weathered fracture zone
	159.3 – 159.6	Weathered fracture zone
	161.5 – 162.5	Weathered fracture zone
	170.8 – 173	Highly fractured zone
	190.3 – 192.2	Fracture zone
	199.2 – 199.3	Fracture zone
	201.9 – 202.2	Fracture zone
	211.8 – 212.8	Fracture zone
	225.5 - 226	Fracture zone
	226.8 – 227.6	Fracture zone
	227.9 – 228.6	Fracture zone
	234 – 234.7	Fracture zone
	243.2 - 244	Fracture zone
	264 – 274	Joints with slickenslides
	279.6 – 279.9	Fracture zone
	281.15 – 281.5	Fracture zone
	283.6 – 283.8	Fracture zone
	274.5	Slickenslide
	292.1 – 292.7	Highly fractured
	308.9	Slickenslide
	309.1	Slickenslide
	324 – 325	Some joints with Slickenslides
	325 – 331.5	Some joints with Slickenslides

Table B1 - Boring Log Observations Providing Evidence of Bedrock Faulting

Boring	Depth (ft bgs)	Observation
UC-21	135.9-136	Possible fault gouge
	146.1	Possible fault gouge
	148 - 149.3	Consolidated fault gouge
	156 – 158.6	Slickensides
	165.4 - 165.6	Highly fractured zone
	166.4 - 167	Highly fractured zone
	196.4 – 203.1	Highly fractured zone
	208 - 211.1	Highly fractured zone
	227.1 – 233	Highly fractured zone
	232.4 – 233	Fault gouge
	233 – 234	Highly fractured
	314.9 – 315.7	Highly fractured
G1DB/G1DB2/G1DB3 Drilled by air rotary observations from cuttings, actions of the drill rig and water yield during drilling	70	Minor fracture or joint
	120	Minor fracture or joint
	161	Minor fracture or joint with gouge
	170	Minor fracture or joint with gouge
	178	Minor fracture or joint
	178 – 195	Gouge from 2 or more locations
	195 - 203	One or more joints or fractures
	160 - 203	Some of the gouge logged below 160 ft. may have come from fractures between 54 and 67 ft.
G2DB2 Drilling by diamond coring	29-34	Fractures
	34 – 42	Fractures
	49 – 50	Fracture
	53 – 55	Fracture
	56 57.5	Fractures
	60 - 61.5	fracture
	62 - 72	Open fractures with slickensides.
	72 – 82	Fractures with slickensides
	72 -73.5	Fractures
	82 92	Very fractured
Short core run, core barrel jammed because of fractures in the core	92 – 94.7	Highly fractured slickensides,
	94.7 – 102	Fractures
	102 – 112	Fractures
	112 – 122	Fractures
	122 – 132	Fractures
	132 – 142	Fractures
	142 – 152	Fractures

Table B1 - Boring Log Observations Providing Evidence of Bedrock Faulting

Boring	Depth (ft bgs)	Observation
G2DB2 (continued)	162 – 172	Fractures
	172 - 212	Fractures
	222 - 252	Widely spaced fractures
	258.5	Fracture
	262 – 282	Widely spaced fractures
	282 - 292	Open fractures
	292 – 302	Fractures
	302 - 330	Fractures
	330 – 352	Highly Fractured
G3DB2 / G3DB3 Drilled by air rotary observations from cuttings, actions of the drill rig and water yield during drilling	31 – 45	Minor joints or fractures at 32, 34 and 37 ft.
	45 - 65	Minor joints or fractures at 50 and 63 ft.
	65 – 80	Minor joints or fractures at 78 and 80 ft.
	80 – 95	Minor joints or fractures at 83, 84 and 90 ft.
	96	Small fracture with orange-brown gouge
	100 – 125	Minor joints or fractures at 103, 107, 109, and 120 ft.
	130 – 145	Minor joints or fractures at 132, 135, and 142 ft.
	149	Minor joint or fracture
	155 – 175	Joints or fractures at 162 and 165 ft. Orange-brown rubble associate3d with a fracture at 168 ft.
	181	Joint or fracture
	185 – 203	Small joint at 195 and possibly 200 ft.
G35DB Drilling by diamond coring	25 – 33.7	Fractures
	33.7 – 41	Fractures
	41 – 47	Fractures with slickensides
	47 – 49	Fractures
	49 – 50.5	Fractures
	58.7 – 65.7	Closely fractures with slickensides
	66	Fracture
	71.1	Fractures with slickensides
G36DB2 Drilling by diamond coring	38.3 – 48	Fractures with slickensides
	48 - 53	Fractures
	53 – 61	Fractures with slickensides
	63 -70	Closely spaced
	70 – 77.4	Fractures little weathering
	187.2	Very fractured
	207.7 – 215.9	Closely spaced fractures

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
IUS-1 (UC-1)	14.5 – 26.5	Fracture surface coated with iron and manganese oxide, open silt/clay filled joint at 26.5; lost drill water at 15 ft.
UC-2A	75 - 89	Joints . . . trace of iron oxide staining
UC-4	11 - 16	Joint faces slightly weathered
	16 - 19	Increased fracture frequency; joint faces coated with calcite, FeO, MnO
UC-5	9 – 19.5	Joint faces lightly weathered, FeO, MnO & calcite coated
UC-7	19.5 - 20	Weathered zone, open FeO stained joints
	24	Weathered joint 60^0 from core axis . . . FeO & calcite coated
	33 - 48	Joints . . . FeO & calcite coated
	48 – 85.6	Joints . . . calcite coated
	67.8	Joint sets . . . calcite coated
	73 - 83	Joint sets . . . calcite coating
	85.6 – 90.8	Joints . . . calcite coated
	90.8 - 133	Joints . . . calcite coated
	93 - 98	Joints . . . calcite coated
	107.6	Intersecting joints . . . FeO stained
	114.3 – 114.4	Fractured zone . . . FeO staining
	118 - 123	joints . . . calcite coated, FeO staining
	131.8	Lost drill water
	131.7 – 132.9	Fractured zone, calcite and FeO coating
	133 - 148	No drill water return
	137.5 - 138	Fracture zone, FeO staining
IUS-3	15	Lost drill water
	26.5	Joint...FeO & MnO coated, Silt/Clay filled
UC-7A	33.9-38	Joints, FeO & $CaCO_3$ coated
	43 – 48	Joints, $CaCO_3$
	48 – 53	Joints, $CaCO_3$
	58 – 63	Joints with fracture zone, $CaCO_3$
	63 - 68	Joints with crushed zone, $CaCO_3$
	68.3	Joint, $CaCO_3$
	73 - 78	Joints, $CaCO_3$
	83 – 88	Joints, $CaCO_3$
	93 – 98	Joints, coated
	100.3-101.5	Joints, $CaCO_3$
	111.9-112.8	Joints, FeO & $CaCO_3$
	117.5 – 118.0	Open joint
	128 – 133	Joints, FeO & $CaCO_3$ coating

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-7A (continued)	133	Lost water
	137 – 137.1	Open joint, FeO, lost water
	138 – 143	Closed spaced fractures, no water return
	143-147	Joints, $CaCO_3$
UC-8	8.3 - 12.8	Joints, coated $CaCO_3$, Light FeO
	12.8 – 16.8	Joints, FeO Stained
UC-9	12 – 15.1	Joints MnO, FeO coated
	15.1 - 17.7	Joints, FeO coated
	17.4 – 18.0	Fracture zone, FeO coated
	19 – 20.4	Vertical joint, MnO, FeO coated
	22.6	Closely spaced joints, MnO, FeO coated
	25.5	Joints, MnO, FeO coated, open
	30.9 – 31.4	Vertical joint MnO, FeO & $CaCO_3$ coated
	37.7 – 37.9	SKS, FeO coated
	47	Joints, FeO coated
	62 – 62.2	Open joint, MnO, FeO & $CaCO_3$ coated
	63 – 65	Less to no coating on joints
	88.8 – 88.9	Open joints, FeO coated
	93 – 96	Light FeO staining
	95	Lost water
	96 – 98	No water return
	102.2 – 102.3	Open fracture, FeO staining
	102.3 -103	Joints, light coating
	103.8 – 104	Open fracture, FeO coated
	106 – 106.4	Open fracture, FeO coated
	111 – 112.3	Open joint/fracture, FeO coated
	115.1 – 115.9	Open joint, FeO stained
	122.4 – 123.5	Open joints, FeO stained
	123.9 – 124.1	Joint, FeO stained
	125	Water lost
	125.5	Water lost
	124.6 – 125.7	Closely spaced joints, FeO staining
	126.9 – 127.7	Closely space joints, open, FeO staining
	129.1 – 129.3	Open joings, light FeO staining
UC-9	132 – 132.3	Joints, coated
	140.9 – 142.5	Increased joint frequency, Light FeO staining
	145.1 – 145.3	Fracture zone, FeO staining
	156.6 – 157.3	Open joints, FeO staining
	159.4	Open joints, FeO staining
	167.7 – 173.4	Joints, light coating
UC-10	79.8-80.8	Fracture zone, heavy FeO staining
	83.1-83.2	Fracture zone, FeO & MnO coating
	84.3	Open joint, FeO & MnO coating
	85	Open joint, FeO coating
	85.7	Joint, $CaCO_3$ coated
	88.2	Joint, $CaCO_3$ coated
	89.5 – 94	Joints, MnO, FeO & $CaCO_3$ coating
	98 – 103	Joints, light MnO & FeO coating
	104.6 – 106.3	Fracture zone, light FeO & $CaCO_3$ coating

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-10 (continued)	111.5-112.7	Closely spaced joints, FeO & $CaCO_3$ coating
	114.6 – 115.8	Closely spaced joints, light MnO coating
	119.3 – 119.8	Closely spaced joints, light MnO coating
	120.3 – 120.5	Closely spaced joints, light MnO coating
	124.3 – 124.6	Closely spaced joints, light MnO coating
	126 – 126.4	Joint, light FeO, MnO & $CaCO_3$ coating
	134.2 – 137.1	Joints, FeO& $CaCO_3$ coated
	138.9 – 139.5	Joints, light FeO & $CaCO_3$ coating
	145.2 – 145.9	Joints, $CaCO_{3,}$ light FeO
	146.5 – 147	Joints, $CaCO_{3,}$ light FeO
	155 – 155.7	Open closely spaced joints, FeO, light $CaCO_3$
	159.4-160.1	Joint, chloride, light $CaCO_3$
	167	Joint, $CaCO_3$ coated
	168.7 – 174	Joints, $CaCO_3$ and Chlorite coated
	179.4 – 179.9	Joints, light $CaCO_3$ coating
	201.7 – 201.8	Joints, $CaCO_3$ coated
	213.8	Joints, chlorite and $CaCO_3$ coated
	224 – 225.5	Joints, chlorite and $CaCO_3$
	229.3	Joints, chlorite and $CaCO_3$
UC-11	26 – 30.5	Closely spaced joints, FeO staining
	45 – 55	Jointed, closely spaced, MnO & FeO staining
	55 - 65	Closely spaced joints, FeO staining
	75 - 85	Closely spaced joints, FeO and MnO staining, some $CaCO_3$ and quartz infilled joints
	85 – 95	Joints, FeO and MnO staining, some $CaCO_3$ infilled joints
	95 - 105	Joints, FeO and MnO staining, some $CaCO_3$ infilled joints
	111.3	Closely spaced joints, MnO staining
	135 – 145	Joints, some qtz and $CaCO_3$ along joints, FeO staining
	145-155	Joints, some qtz and $CaCO_3$ along joints, FeO staining
	155 – 165	Joints, chlorotized along some joints
	165 – 173	Joints, open, FeO staining
	175 - 185	Joints, FeO & MnO staining transitioning to clean
	185 - 195	Joints, quartz and $CaCO_3$ along 50% of closed joints
	195 - 205	Joints, quartz and $CaCO_3$ along 50% of closed joints
	205 - 215	Closely spaced joints, some CaCO3 in closed joints. Open joints are coated with a grey clay mineral 0-50%.
	220.4	Closely spaced joints, FeO staining

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-11 (continued)	249.5	Closely spaced open joints, chlorite and FeO staining
	255	Lost water
	259 - 265	Closely spaced joints, chloritized
	265 – 271.4	Closely spaced joints, chloritized
	271.4 – 272.5	Closely spaced joints, FeO stained
	275 – 276.2	Closely spaced joints, chloritized
	313.8 – 313	Closely spaced joints, $CaCO_3$ coated
	319 – 319.7	Closely spaced joints, $CaCO_3$ coated
UC-12	35.5 – 40	Joints, chloritized, lightly coated FeO
	40 - 45	Joints, chloritized, lightly coated FeO
	46.2 – 48.3	Fractured, FeO staining
	46.9 – 49.1	Joints, trace $CaCO_3$
	56.7	Crushed, FeO staining
	92 – 93.1	Crushed zones, chloritized and solutioned
	94.3 – 94.5	Closely spaced joints, chloritized, dissolution
	101 – 101.4	Closely spaced joints, chloritized
	103 – 107.8	Joints, lightly coated
	107.8	Joints, MnO coating
	155.3	Joint, $CaCO_3$ coated
	155.8	Joint, $CaCO_3$ coated
	156.1	Joint, $CaCO_3$ coated
	156.4 – 156.5	Joints at 80^0 $CaCO_3$ coated
	157.1 – 158.3	Closely spaced joints, some $CaCO_3$ coating
	158.8 – 159	Joints, $CaCO_3$ coating
	175.2	Joint, coated
	180.2 – 192.8	Fracture zone, coated MnO?
	198 to 208	Lost water
	222.8	Joint, chloritized
	223	Losing most of the drilling water
	225 – 225.3	Joint, $CaCO_3$ coated
	225.5 – 225.9	Joint, $CaCO_3$ coated
	230.5	Joint at 60^0 $CaCO_3$ coated
	232	Joint, coated
	232 -233	Losing most drilling water
	233 – 234.6	Joints, $CaCO_3$ coated
	234.9 – 239.6	Closely spaced joints, some $CaCO_3$ coating
	253 – 263	Joints, some $CaCO_3$ coating, lost most drilling water
	263	Lost all drilling water
	264.9 – 272.8	Joints, $CaCO_3$ coated
	273 – 303	Lost all drilling water
	275.2 – 276.6	Joints, some pyrite in joint
	281.7 – 281.9	Joints, $CaCO_3$ coated
	293.1	Joint, $CaCO_3$ coated
	293.4	Joints, $CaCO_3$ coated

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-12 (continued)	296.9	Joints, $CaCO_3$ coated
	297.4	Joints, $CaCO_3$ coated
	303.3	Joint, coated
	308.1	Joints, coated
	311.9	Joint, coated
	312.7 – 313	Joint, coated
	313	No water return
	314 – 317.7	Joints, $CaCO_3$ coated
	319.4	Joints, $CaCO_3$ coated
	323.5	Joints, $CaCO_3$ coated
	333 - 334	No water return
UC-13	54.4	Joint, FeO coating
	55	Joint, FeO coating
	56	Joint, FeO coating
	60 – 65.4	Joints, FeO coating
	65.4 – 87.4	Joints, coated
	70	Pulled run early, water pressure erratic
	88.6 – 89.3	Fracture zone, Joints, coatings and clayey coating/fillings
	90 – 91.4	Closely spaced joints, coatings
	94.2 – 95.6	Closely spaced joints, coatings
	97.7 – 99.7	Partial water loss
	100	No water return
	110 -114	Joints, coated and filled with clay
	114 – 127	No water return
	114.8 – 116.5	Joints, lightly coated
	127	Partial water return
	120 – 129.1	Joints, coated, trace pyrite on surfaces, typical greenish coating
	129.1	Joint, FeO, little $CaCO_3$ coating
	136.4	Closely spaced joints, FeO staining
	137 – 138.5	Fracture zones, FeO stained zones
	142 – 142.5	Joints, FeO, MnO?
	148	Fractures, heavy FeO coating
	148.5 – 150.5	Fracture zone, water comes and goes
	150.5	Joints, coating (clay min?)
	155	Water partially returns
	155 – 155.6	Intensely fractured, FeO staining with clays?
	169	Water partially returns
	175	No water return
	185	Water partially returns
	188 – 189	Fracture zone, FeO staining
	200.8 – 201.3	Joint, FeO staining
	202.1 – 203.6	Joint, FeO staining
	211.1 – 211.8	Joint, FeO stained
	225	Partial water return
	235	Partial water return
	239.9	Joint, chlorite coated
	240.2-240.4	Fracture, chlorite and FeO coated

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-13 (continued)	245.75	Joint, FeO? and chlorite coating
	257.5	Joint, FeO and chlorite coating
	258.2	Joint, FeO and chlorite coating
	258.6	Joint, FeO and chlorite coating
	260.2	Joint, FeO and chlorite coating
	262.2	Joint, FeO and chlorite coating
	263.3	Joint, FeO and chlorite coating
	268 - 272	Joints, chlorite and FeO coating
	277.1	Joints, FeO coating
	279.4 – 280.1	Joints, FeO coating
	287.6	Joint, FeO coating
	301	Partial water return
	307.9	Joint, coated clay minerals
	310.2	Joint, coated clay minerals
	311.5	Joint, coated clay minerals
	312.9 – 313.1	Joints, clay coated.
	315	Partial water loss
	322.9 – 323.1	Joints, lightly coated
	325	Partial water return
UC – 14	95.5 – 104	Fractures, coatings
	111.8 – 114	Fractures, mineral zones or chlorite coating
	114 - 124	Few clean fractures observed
	154.2 – 157	Fractures, $CaCO_3$ coating
	159.3 – 159.6	Fracture zone with pyrite coating
	160 – 161.2	Fractures, $CaCO_3$ coating
	164 - 166	Fractures, trace $CaCO_3$ coating
	166 – 170.8	Fractures, $CaCO_3$ and chlorite coating
	174 – 176	Fractures, $CaCO_3$, hematite, chlorite coating
	176 – 178.7	Fractures, trace coatings
	185.9 - 186	Fractures, $CaCO_3$ coating
	186 - 188	Fractures, $CaCO_3$ coating
	188 – 190	Closely spaced fractures, FeO & $CaCO_3$ coating
	194 – 195.5	Fractures, FeO? and chlorite coatings
	195.5 – 199	Fracture, chlorite
	204.5 – 205.1	Fractures, $CaCO_3$ and FeO coating
	219.5 – 220.8	Fractures, $CaCO_3$ coating common
New person logging, used “breaks” instead of joints or fractures	224.3 – 226.8	Breaks, FeO and trace $CaCO_3$
	229.2 - 234	Breaks, minor chlorite coating
	234.7 – 239.5	Breaks, FeO and chlorite? $CaCO_3$? coatings
	243.2 - 244	Fracture zone, chlorite
	246.2	Closely spaced joints, MnO coating
	247.5	Joint, chlorite coated
	248 – 248.5	Joint, $CaCO_3$ and MnO coated
	252.3	Joints, chlorite coated

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-14 (continued)	252.7	Joints, chlorite coated
	253.2	Joint, MnO coated
	254 – 258.6	Closely spaced joints, $CaCO_3$, chlorite and FeO filling and coating
	260.2 – 263.8	Joints, $CaCO_3$ and chlorite coating
	264 – 274	Joints, MnO and FeO coating
	284 – 292.1	Intersecting joints, MnO and FeO coating
	306.9	Joint, chlorite coated
	309.1	Joint, MnO coating
	309.8	Joint, MnO coating, some SiO_2
	312.2	Joint, $CaCO_3$ coating
	312.5 – 313.7	Closely spaced joints, FeO, MnO and $CaCO_3$ coating
	316.5 - 317	Joint, MnO coating
	317.6	Joint, MnO coating
	318.4	Joints, MnO coating
	325 – 331.5	Joints, $CaCO_3$ and chlorite coating
	336.5 – 339.8	Joints, FeO and MnO coating
UC-21	63-68	Closely spaced joints, FeO and MnO coating
	69	Joint, FeO, Chlorite and MnO coating
	70.5	Joint, FeO, Chlorite and MnO coating
	71.3	Joint, FeO, Chlorite and MnO coating
	71.7	Joint, FeO, Chlorite and MnO coating
	72.1	Joint, FeO, Chlorite and MnO coating
	72.5-73.1	Closely spaced joints, FeO, Chlorite and MnO coating
	73.8-74	Closely spaced joints, FeO, Chlorite and MnO coating
	74.6	Joint, FeO, Chlorite and MnO coating
	96-106	Joints, coated
	107.4	Closely spaced joints, coated
	108.3	Closely spaced joints, coated
	111.5-111.8	Closely spaced joints, coated
	116-119.7	Joints, Chlorite coating
	122.5-126	Joints, FeO and Chlorite coating
	126.5-128.8	Joints, MnO and Chlorite coating
	136.5-139.5	Joints, MnO, FeO and Chlorite coating

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
UC-21 (continued)	148-149.3	Fault gouge, Chloritized
	152-154	Partially filled vertical fracture
	156 – 158.6	Closely spaced joints, Chlorite coating
	162.6-164.2	Closely spaced joints, MnO coating
	181	Fractures with coating
	183 – 186.1	Joints, $CaCO_3$ and MnO coating
	186.1 – 187	Closely spaced joints, $CaCO_3$ and Chlorite coating
	193 – 193.7	Joints, MnO and Chlorite coated
	211.1 – 213.2	Joints, MnO and FeO
	213 – 215.2	Joints, MnO and FeO
	215 - 220	Joints, MnO and FeO
	225.3 – 225.6	Joints, $CaCO_3$ and FeO
	243 - 248	Joints, Chlorite and clay minerals
	249	Joint, some $CaCO_3$ filling
	250.1	Joint, some $CaCO_3$ filling
	250.8	Joint, some $CaCO_3$ filling
	251.3	Joint, some $CaCO_3$ filling
	251.6	Joint, some $CaCO_3$ filling
	252	Joint, some $CaCO_3$ filling
	252.5	Joint, some $CaCO_3$ filling
	254.5 – 255	Closely spaced joints, Chlorite and $CaCO_3$ coating
	258.7 – 261	Joints, Chlorite and $CaCO_3$ coating
	283 – 285.8	Joints, MnO and $CaCO_3$ coating
	290.4 – 291.4	Joints, FeO stained
	297.3 – 299.5	Joints, $CaCO_3$ coating
	299.5 – 303	Joints, some $CaCO_3$ filling
	316.1 – 319.1	Joints, MnO and $CaCO_3$ coating
G1DB/G1DB2/G1DB3 Drilled by air rotary observations from cuttings, actions of the drill rig and water yield during drilling	54 -67	1 or more large fractures or faults yielded approximately 30 GPM while drilling
	54-203	Borehole yielded approximately 70 gpm at completions.

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
G2DB2 Drilled by diamond coring	29-34	Fractures slightly weathered with iron staining
	34 – 42	Fractures with chlorite iron staining and clay
	49 – 50	Fracture with chlorite and calcite mineralization
	60 - 61.5	Fracture slightly weathered
	62 - 72	Fractures with slickensides. Clay in some fractures Some calcite mineralization
	72 – 82	Fractures with slickensides calcite and clay
	82 92	Fractures chlorite and calcite on fracture surfaces
Short core run, core barrel jammed because of fractures in the core	92 – 94.7	Highly fractured with clay filing
	156 – 158.5	Weathered friable sand size particles
	162 – 172	Fractures weathered as above
	213.5	Drillers reported rods dropped suddenly with loss of drill return water
	258.5	Open fracture with clay filling
	282 - 292	Open fractures with chlorite mineralization and clay filling
	292 – 302	Fractures some calcite and chlorite mineralization of fracture surfaces
	302 - 330	Fractures little weathering, some calcite and chlorite mineralization
	330 – 352	Highly fractured, fracture surface weathered with calcite and chlorite mineralization

Table B2 – Boring Log Observations Providing Evidence of Hydraulically Active Fractures

Boring	Depth (ft bgs)	Observation
G3DB2 / G3DB3 Drilled by air rotary observations from cuttings, actions of the drill rig and water yield during drilling	31 to 203	At completion borehole yielded 4 gpm
G35DB Drilling by diamond coring	25 – 33.7	Slightly weathered fractures
	33.7 – 41	Fractures with chlorite mineralization
	40	Highly weathered friable with iron stains and clay
	41 – 47	30^0 fractures with slickensides
	47 – 49	Weathered fractures chlorite and clay on fracture surfaces
	49 – 50.5	Weathered friable l fractures
	71.1	Fractures with clay filling
G36DB2 Drilling by diamond coring	30.5 – 38.3	Highly weathered
	38.3 – 48	Fractures some chlorite and calcite little weathering
	48 - 53	Fractures slightly weathered iron staining
	53 – 61	Fractures with chlorite and iron staining
	70 – 77.4	Fractures little weathering
	164.5 – 165.5	Highly weathered
	170 – 171.7	Highly weathered
	207.7 – 215.9	Closely spaced fractures highly weathered

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-2A	75 - 80	Joints 20^0 to core axis
UC-3A	55 - 62	Joints 70^0 to 80^0 to core axis
UC-4	11 - 16	Joints 40^0 to 60^0 to core axis, some joints 0^0 to core axis
UC-5	9 – 19.5	Vertical, close spaced joints
UC-6	56.6 – 56.8	Vertical joint
UC-7	19.5	Open FeO stained joints 30^0 from core axis
	22.2 – 23.2	Joint 10^0 from core axis
	24	Weathered joint 60^0 from core axis
	27.4	Joints 50^0 from core axis
	33 - 48	Joints 10^0 – 50^0 from core axis
	48 – 85.6	Joints 10^0 – 90^0 from core axis
	53 - 58	Intersecting joint sets, 45^0 and 70^0 from core axis
	67.8	Intersecting joint sets 40^0 & 90^0 to core axis
	73 - 83	Intersecting joint sets 10^0 & 20^0 to core axis
	82 - 83	Joint 0^0 to core axis
	85.6 – 90.8	Joints 10^0 – 90^0 from core axis
	90.8 - 133	Joints 15^0 – 90^0 from core axis
	93 - 98	Joints 15^0 – 80^0 from core axis
	107.6	Intersecting joints 30^0 & 40^0 from core axis
	108.6 – 109.2	Intersecting joints, 50^0 from core axis
	114.3 – 114.4	Fractured zone, 90^0 from core axis
	133 – 140.3	Joints 40^0 to 90^0 from core axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-7A	18 – 22.6	Joints 20^0 – 90^0 to core axis
	22.6 - 27	Joints 10^0 – 20^0 to axis
	32.6 – 32.9	Joints 20^0 core axis
	33.9 - 38	Joints 10^0 to core axis
	38 - 43	Joints 40^0 – 90^0 to axis
	43 - 48	Joints 55^0 – 90^0 to axis
	48 – 53	Joints 20^0 – 80^0 to axis
	53 - 58	Joints 0^0 – 80^0 to axis
	58 - 63	Joints 40^0 – 60^0 to axis
	63 - 68	Joints 0^0 – 90^0 to axis
	64 – 64.3	Vertical joint
	68.3	Joint 35^0 to axis
	71-71.4	Vertical joint
	72 – 72.4	Joints 30^0 to axis
	73 – 78	Joints 10^0 – 90^0 to axis
	78 – 83	Joints 45^0 – 90^0 to axis
	83 – 88	Joints 10^0 – 90^0 to axis
	92 - 93	Joints 40^0 to axis
	93 – 98	Joints 35^0 – 80^0 to axis
	98 – 103	Joints 50^0 – 90^0 to axis
	111.9 – 112.8	Joints 10^0 – 20^0 to axis
	117.5 - 118	Open joint 0^0 to axis
	120 – 121.4	Joint 0^0 to axis
	121.4 – 123	Joints 0^0 – 90^0 to axis
	124.3 – 124.6	Joints 60^0 – 90^0 to axis
	128 – 133	Joints 70^0 – 90^0 to axis
	132.6 – 132.9	Vertical joint
	133.2 – 135.8	Joint 10^0 to axis
	143 – 147	Joints 45^0 – 90^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-8	8.3 - 12.8	Joints 10^0 - 80^0 to axis
	12.8 – 16.8	Joints 20^0 - 80^0 to axis
UC-9	12 – 15.1	Joints 50^0 – 90^0 to axis
	15.1 - 17.7	Joints 80^0 – 90^0 to axis
	17.7 – 42	Joints 0^0 – 90^0 to axis
	19 – 20.4	Vertical joint
	30.9 – 31.4	Vertical joint
	37.7 – 37.9	Joints 20^0 to axis
	47	Joints 50^0 – 90^0 to axis
	62 – 62.2	Joint 35^0 to axis
	62	Joint 85^0 to axis
	66.7	Joint 55^0 to axis
	78 - 83	Joints 70^0 – 90^0 to axis
	83 – 88	Joints 30^0 – 90^0 to axis
	88.8 – 88.9	Joint 90^0 to axis
	96 – 98	Joints 50^0 – 60^0 to axis
	102.2 – 102.3	Joints 80^0 and $10^0$to axis
	102.3 -103	Joints 50^0 – 90^0 to axis
	108 – 113	Joints 10^0 – 90^0 to axis
	115.1 – 115.9	Joint 10^0 to axis
	118.9 – 119.3	Joints 50^0 to axis
	126.9 – 127.7	Joints 20^0 – 90^0 to axis
	129.1 – 129.3	Joints $\cap$ 90^0 and 70^0
	132 – 132.3	Joints $\cap$ 60^0 and 70^0
	135.6 – 136.1	Joints 20^0 to axis
	136.6 – 136.8	Joint 80^0 to axis
	137.2	Joint 80^0 to axis
	139.4 – 139.5	Joint 70^0 to axis
	140.9 – 142.5	Joints 80^0 – 90^0 to axis
	148 - 153	Joints 80^0 – 90^0 to axis
	156.6 – 157.3	Joints 20^0 & 90^0 to axis
	159.4	Joints 90^0
	159.8 – 160	Joints 70^0
	163 – 167.7	Joints 80^0 – 90^0
	167.7 – 173.4	Joints 30^0 – 90^0 to axis
	173.4 – 178	Joints 30^0 – 90^0 to axis
	178 – 183	Joints 80^0 to axis
	183 – 188	Joints 50^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-9 (continued)	188 - 193	Joints 0^0 – 90^0 to axis
	198 – 203	Joints 30^0 – 90^0 to axis
	206.9 – 207.4	Joint 10^0 to axis
	214.7 – 214.9	Joints 10^0 – 20^0 to axis
	228 – 233	Joints 0^0 – 90^0 to axis
UC-10	84.3	Joint 70^0 to axis
	85	Joint 70^0 to axis
	85.7	Joint 60^0 to axis
	88.2	Joint 80^0 to axis
	89.5 – 94	Joints 0^0 – 90^0 to axis
	98 – 103	Joints 0^0 – 90^0 to axis
	104.6 – 106.3	Joints 0^0 – 80^0 to axis
	111.5-112.7	Joints 20^0 to axis
	114.6 – 115.8	Joints ∩ 10^0 - 30^0 to axis
	119.3 – 119.8	Joints ∩ 10^0 - 30^0 to axis
	120.3 – 120.5	Joints ∩ 10^0 - 30^0 to axis
	124.3 – 124.6	Joints ∩ 10^0 - 30^0 to axis
	126 – 126.4	Joints 20^0 to axis
	127.2 – 127.5	Joint 20^0 to axis
	130.6 – 131.3	Joints ∩ 10^0 -60^0 to axis
	134.2 – 137.1	Joints ∩ 0^0 - 80^0 to axis
	138.9 – 139.5	Joints ∩ 0^0 & 60^0 to axis
	140.6 – 141.1	Joints ∩ 20^0 - 80^0 to axis
	145.2 – 145.9	Joints ∩ 20^0 - 60^0 to axis
	146.5 – 147	Joints ∩ 20^0 - 60^0 to axis
	148 – 153	Joints 40^0 – 80^0 to axis
	155 – 155.7	Joints ∩ 20^0 - 60^0 to axis
	159.4 – 160.1	Joints 40^0 – 60^0 to axis
	167	Joint 40^0 to axis
	168.7 – 174	Joints 40^0 – 80^0 to axis
	179.4 – 179.9	∩ Joints 20^0 & 40^0 to axis
	201.7 – 201.8	Open joint, 60^0 to axis
	213.8	Joint, 30^0 to axis
	224 – 225.5	Joints 50^0 – 80^0 to axis
	229.3	Joint 80^0 to axis
	242	Two closely spaced joints, 90^0 & 80^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-11	26 – 30.5	Joints 10^0 – 90^0 to axis
	45 – 55	Joints 20^0 – 90^0 to axis
	55 - 65	Joints 10^0 – 90^0 to axis
	65 – 75	Joints 20^0 – 80^0 to axis
	75 - 85	Joints 0^0 – 90^0 to axis
	85 – 95	Joints 10^0 – 70^0 to axis
	95 - 105	Joints 10^0 – 70^0 to axis
	105 - 115	Joints 15^0 – 90^0 to axis
	125 – 135	Joints 10^0 – 70^0 to axis
	135 – 145	Joints 15^0 – 90^0 to axis
	145 - 155	Joints 15^0 – 90^0 to axis
	155 – 165	Joints 40^0 – 85^0 to axis
	165 – 173	Joints 0^0 – 30^0 to axis
	175 - 185	Joints 0^0 – 45^0 to axis
	185 - 195	Joints 20^0 – 90^0 to axis
	195 - 205	Joints 20^0 – 90^0 to axis
	220.4	Joints 30^0 – 90^0 to axis
	240.85	Joint 90^0 to axis
	241.6 - 245	Joints 45^0 – 90^0 to axis
	259 - 265	∩ Joints 10^0 - 90^0 to axis
	265 – 271.4	Joints 0^0 – 85^0 to axis
	275 – 276.2	Joints 85^0 – 90^0 to axis
	276.2 - 285	Joints 60^0 – 80^0 to axis
	289.6 – 290.05	Joints 50^0 – 90^0 to axis
	306.5 – 306.9	Joints 10^0 – 80^0 to axis
	306.9 – 308.9	Joint 85^0 to axis
	311.2 – 313.8	Joints 60^0 – 90^0 to axis
	315.3 – 319	Joints 85^0 to axis
	319 – 319.7	Joints 20^0 – 90^0 to axis
	321.3 – 321.5	Joints 20^0 – 80^0 to axis
UC-12	35.5 – 40	Joints 5^0 – 90^0 to axis
	40 - 45	Joints 5^0 – 90^0 to axis
	46.2 – 48.3	Joints 0^0 – 90^0 to axis
	46.9 – 49.1	Joint at 0^0 with ∩ Joints 20^0
	63 – 73	Joints 0^0 – 90^0 to axis
	86.3 – 86.9	∩ Joints 10^0 & 45^0 to axis
	88.4 – 89	∩ Joints 30^0 & 45^0 to axis
	92 – 93.1	Joints 10^0 – 70^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-12 (continued)	94.3 – 94.5	Joints 45^0 – 60^0 to axis
	101 – 101.4	Joints 60^0 to axis
	103 – 107.8	Joints 0^0 – 90^0 to axis
	107.8	∩ Joints 60^0 – 80^0 to axis
	108.9 – 109.3	Joints 20^0 – 80^0 to axis
	155.3	Joint 60^0 to axis
	155.8	Joint 60^0 to axis
	156.1	Joint 60^0 to axis
	156.4 – 156.5	∩ Joints 50^0 & 80^0 to axis
	157.1 – 158.3	Joints 45^0 – 80^0 to axis
	158.8 – 159	∩ Joints 45^0 to axis
	175.2	Joint 80^0 to axis
	180.2 – 192.8	Joints 10^0 – 90^0 to axis
	222.8	Joint 60^0 to axis
	225 – 225.3	Joints 0^0 – 5^0 to axis
	225.5 – 225.9	Joints 0^0 – 5^0 to axis
	230.5	∩ Joints 0^0 & 60^0 to axis
	232	Joint 45^0 to axis
	233 – 234.6	Joints 40^0 – 60^0 to axis
	234.6 – 234.9	∩ Joints 30^0 - 70^0 to axis
	234.9 – 239.6	Joints 45^0 - 90^0 to axis
	243 – 244.3	∩ Joints 5^0 - 90^0 to axis
	253 – 263	Joints 30^0 - 90^0 to axis
	264.2	Joints 20^0 - 60^0 to axis
	264.9	∩ Joint 85^0 to axis
	264.9 – 272.8	Joints 60^0 - 80^0 to axis
	272.8 – 273	Joints 0^0 - 90^0 to axis
	275.2 – 276.6	Joints 90^0 to axis
	281.7 – 281.9	∩ Joints 35^0 & 65^0 to axis
	283 – 289.5	Joints 35^0 - 90^0 to axis
	293.1	Joint 30^0 to axis
	293.4	∩ Joints 35^0 to axis
	296.9	Joints 0^0 - 30^0 to axis
	297.4	Joints 0^0 - 30^0 to axis
	303.3	Joint 10^0 to axis
	303.9	Joint 20^0 to axis
	306.2	Joint 20^0 to axis
	306.4	Joint 20^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-12 (continued)	307.3	Joint 20^0 to axis
	308.1	∩ Joints 20^0 & 40^0 to axis
	311.9	Joint 10^0 to axis
	312.7 – 313	Joint 10^0 to axis
	314 – 317.7	Joints 5^0 - 90^0 to axis
	319.4	∩ Joints 20^0 & 40^0 to axis
	323.5	∩ Joints 40^0 & 70^0 to axis
UC-13	53	Joints 20^0 & 45^0 to axis
	54.4	Joints 30^0 & 90^0 to axis
	55	Joints 30^0 & 90^0 to axis
	56	Joints 30^0 & 90^0 to axis
	60 – 65.4	Joints 0^0 & 90^0 to axis
	65.4 – 87.4	Joints 0^0 & 90^0 to axis
	90 – 91.4	Joints 10^0 to axis
	94.2 – 95.6	∩ Joints 10^0 to axis
	97.7 – 99.7	Joints 30^0 - 60^0 to axis
	100.5 – 101.8	∩ Joints 40^0 & 70^0 to axis
	110 – 114	Joints 10^0 - 90^0 to axis
	114.8 – 116.5	Joints 45^0 to axis
	120 – 129.1	Joints 5^0 - 70^0 to axis
	129.1	Joint 60^0 to axis
	136.4	Joints 0^0 - 80^0 to axis
	200.8 – 201.3	Joint 20^0 to axis
	202.1 – 203.6	Joint 0^0 to axis
	211.1 – 211.8	Joint 0^0 - 20^0 to axis
	229.5	Joints 60^0 to axis
	239.9	Joint 30^0 to axis
	245.75	Joint 10^0 - 30^0 to axis
	257.5	Joint 15^0 - 70^0 to axis
	258.2	Joint 15^0 - 70^0 to axis
	258.6	Joint 15^0 - 70^0 to axis
	260.2	Joint 15^0 - 70^0 to axis
	262.2	Joint 15^0 - 70^0 to axis
	263.3	Joint 15^0 - 70^0 to axis
	268 - 272	Joints, 60^0 to axis
	277.1	Joints 15^0 - 80^0 to axis
	279.4 – 280.1	Joints 15^0 - 80^0 to axis
	280.55	Vertical fractures

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-13 (continued)	281.3 – 281.9	Vertical fractures
	284.7	Vertical fractures
	287.2	Joint 50^0 to axis
	307.9	Joint 30^0 to axis
	310.2	Joint 30^0 to axis
	311.5	Joint 30^0 to axis
	312.9 – 313.1	Joint 0^0 to axis between two 90^0 joints
	342.7 – 343.9	Joints 0^0 - 10^0 to axis
	344.6	Joints 30^0 to axis
	346.4 – 347.9	Joint 0^0 - 10^0 to axis
	348.1 – 348.5	Joint 5^0 to axis
	352.2 – 352.8	Joint 20^0 to axis
UC - 14	76.1 – 81	Fractures 30^0 - 60^0, 45^0 to axis
	104 – 108	Fractures 45^0 & 90^0 to axis
	111.8 – 114	Fractures 30^0 - 90^0 to axis
	114 - 124	Fractures 30^0 - 90^0 to axis
	139.5 – 139.9	Fractures 60^0 to axis
	140.7 – 141.1	Fractures 60^0 to axis
	147.7 – 148.7	Fractures 60^0 & 90^0 to axis
	149 – 151	Fractures 60^0 - 70^0 to axis
	154.2 – 157	Fractures 90^0 to axis
	164 - 166	Fractures 60^0 - 90^0 to axis
	166 – 170.8	Fractures 60^0 - 90^0 to axis
	174 – 176	Fractures 45^0 & 90^0 to axis
	176 – 178.7	Fractures 90^0 to axis
	178.7 – 179.7	Fractures 90^0 to axis
	185.9 - 186	Fractures 70^0 - 80^0 to axis
	186 - 188	Fractures 70^0 - 80^0 to axis
	190.3 – 192.2	Fracture zone 80^0 - 90^0 to axis
	194 – 195.5	Fractures 45^0 & 90^0 to axis
	195.5 – 199	Fractures 80^0 - 90^0 to axis
	204.5 – 205.1	Fractures 30^0 to axis
	219.5 – 220.8	Fractures 30^0 to axis
	225.5 - 226	Fracture zone 45^0 to axis
New person logging, used “breaks” instead of joints or fractures	224.3 – 226.8	Breaks 45^0 & 90^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-14 (continued)	234.7 – 239.5	Breaks 80^0 - 90^0 to axis
	239.5 – 243.2	Breaks 90^0 to axis
	248 – 248.5	Joint 20^0 to axis
	250	∩ Joints 45^0 to axis
	252.3	Joints 70^0 to axis
	252.7	Joints 70^0 to axis
	253.2	Joints 40^0 to axis
	253.5 – 253.7	Joints 30^0 to axis
	254 – 258.6	∩ Joints 30^0 - 90^0 to axis
	258.6 – 260.1	Joints 20^0 - 40^0 to axis
	260.2 – 263.8	Joints 50^0 to axis
	264 – 274	Joints 10^0, 50^0 & 90^0 to axis
	274.5	Fracture 90^0 to axis
	251.1	Joint 50^0 to axis
	278	Joints 20^0 - 85^0 to axis
	284 – 292.1	Joints, some intersecting, 20^0 - 85^0 to axis
	294 – 297.4	Joints 10^0 - 85^0 to axis
	306.9	Joint 60^0 to axis
	309.1	Fractures 40^0 - 50^0 to axis
	309.8	Joint 35^0 to axis
	312.2	Joint 45^0 to axis
	312.5 – 313.7	Joints 10^0 - 60^0 to axis
	315.4	Joint 60^0 to axis
	316.5 - 317	Joint 10^0 to axis
	317.6	Joint 50^0 to axis
	318.7	Joint 50^0 to axis
	324 – 325	Joints 30^0 - 50^0 to axis
	325 – 331.5	Joints 20^0 - 80^0 to axis
	344 – 346.5	Joints 5^0 - 50^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

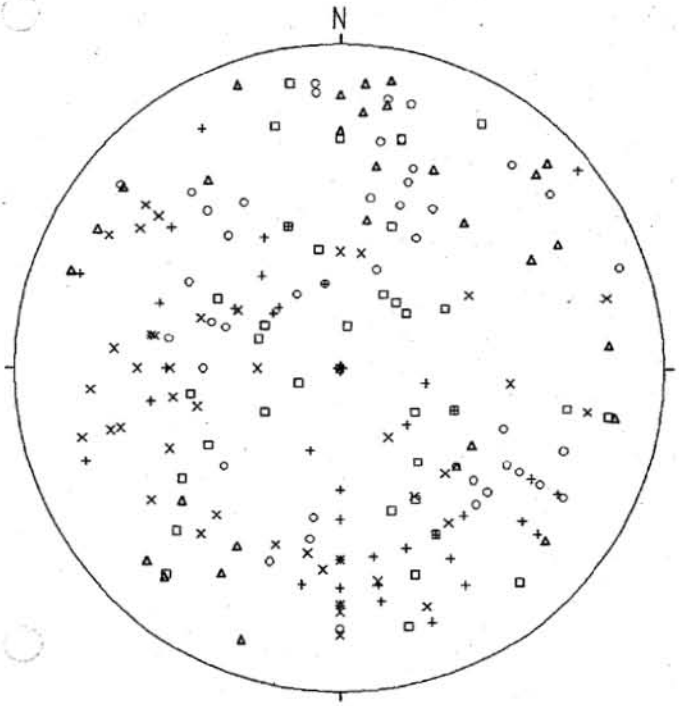
Boring	Depth (ft bgs)	Observation
UC-21	65.6-66.6	Vertical joints
	76.8	∩ Joint 30^0 - 90^0 to axis
	77.8	∩ Joint 30^0 - 90^0 to axis
	78	∩ Joint 30^0 - 90^0 to axis
	78.3	∩ Joint 30^0 - 90^0 to axis
	78.6	∩ Joint 30^0 - 90^0 to axis
	79.2	∩ Joint 30^0 - 90^0 to axis
	79.5	∩ Joint 30^0 - 90^0 to axis
	80.5	∩ Joint 30^0 - 90^0 to axis
	82.2	∩ Joint 30^0 - 90^0 to axis
	82.4	∩ Joint 30^0 - 90^0 to axis
	82.9-83.1	∩ Joint 30^0 - 90^0 to axis
	83.7	Joint 30^0 - 90^0 to axis
	84	Joint 30^0 - 90^0 to axis
	84.7	Joint 30^0 - 90^0 to axis
	84.8	Joint 30^0 - 90^0 to axis
	85.1	Joint 30^0 - 90^0 to axis
	86-91	∩ Joints 15^0 - 85^0 to axis
	96-106	Joints 45^0 - 90^0 to axis
	100	∩ Joint 30^0 & 45^0 to axis
	107.4	Joints 45^0 - 90^0 to axis
	108.3	Joints 45^0 - 90^0 to axis
	111.5-111.8	Joints 45^0 - 90^0 to axis
	116-119.7	Joints some ∩ 20^0 - 90^0 to axis
	122.5-126	Joints 20^0 - 40^0 to axis
	126.5-128.8	Joints 15^0 - 85^0 to axis
	136.5-139.5	Joints 60^0 - 80^0 to axis
	141-143.1	Joints 20^0 - 30^0 to axis
	143.1-146.1	Joints 10^0 - 80^0 to axis
	149.3 – 156	Joints 0.5-2.5', 10^0 - 90^0 to axis
	152-154	Vertical fracture
	159.5	∩ Joint set 15^0 & 60^0 to axis
	162.6-164.2	∩ Joints 10^0 - 70^0 to axis
	164.7-165.4	Vertical fracture
	172.3	Horizontal fractures
	181 – 183	Joints $??^0$ - 90^0 to axis
	183 – 186.1	Joints 70^0 - 90^0 to axis
	186.1 – 187	∩ Joints 0^0 - 90^0 to axis
	189.7 – 193	Joints 50^0 - 90^0 to axis
	193 – 193.7	∩ Joints 20^0 - 60^0 to axis

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
UC-21 (continued)	193.7 – 196.4	Joints 90^0 to axis
	196.4 – 203.1	Highly fractured 10^0 - 80^0 to axis
	211.1 – 213.2	Joints 20^0 - 80^0 to axis
	213 – 215.2	Joints 20^0 - 80^0 to axis
	215 - 220	Joints 20^0 - 80^0 to axis
	223.6 – 224.1	Joints 70^0 to axis
	243 - 248	∩ Joints 0^0 - 90^0 to axis
	249	Joint 45^0 - 80^0 to axis
	250.1	Joint 45^0 - 80^0 to axis
	250.8	Joint 45^0 - 80^0 to axis
	251.3	Joint 45^0 - 80^0 to axis
	251.6	Joint 45^0 - 80^0 to axis
	252	Joint 45^0 - 80^0 to axis
	252.5	Joint 45^0 - 80^0 to axis
	254.5 – 255	Joints 10^0 - 80^0 to axis
	258.7 – 261	Joints 10^0 - 90^0 to axis
	290.4 – 291.4	Joints 5^0 - 50^0 to axis
	295	∩ Joints 45^0 to axis
	297.3 – 299.5	Joints 30^0 to axis
	316.1 – 319.1	Joints 50^0 - 90^0 to axis
G2DB2 Drilling by diamond coring	29-34	Fractures 30^0 to 60^0
	34 – 42	Low angle fractures 0^0 to 45^0 and nearly vertical fractures
	49 – 50	Near vertical fracture
	53 – 55	Vertical fracture
	60 - 61.5	Vertical fracture
	82 92	Very fractured vertical and intersecting
Short core run, core barrel jammed because of fractures in the core	92 – 94.7	Highly fractured slickensides, and clay filing
	94.7 – 102	Fractures 0^0 to 45^0
	102 – 112	Near vertical and low angle fractures
	112 – 122	Fractures 45^0 to 60^0
	122 – 132	Low angle to vertical fractures
	132 – 142	Fractures 45^0
	142 – 152	Low angle fractures
	162 – 172	Low angle to vertical open fractures
	172 - 212	Low angle to 60^0 fractures
G2DB2	222 - 252	Widely spaced Low angle to 60^0 fractures

Table B3 – Summary of Fracture Orientation Reported in Bedrock Boring Logs

Boring	Depth (ft bgs)	Observation
(continued)	258.5	Low angle open fracture
	262 – 282	Widely spaced Low angle to 45^0 tight fractures
	282 - 292	Open low angle to 45^0 fractures
	292 – 302	Low angle to 30^0 and vertical fractures
	302 - 330	Low angle to 60^0fractures
	330 – 352	Highly fractured low angle to vertical fractures
G35DB Drilling by diamond coring	25 – 33.7	60^0 to 90^0 fractures
	33.7 – 41	Low angle to 75^0 fractures
	41 – 47	30^0 fractures
	47 – 49	60^0 to 90^0 fractures
	49 – 50.5	Vertical fractures
	58.7 – 65.7	Closely spaced 60^0 to 90^0 fractures
	66	60^0 fracture
	71.1	60^0 to 90^0 fractures
G36DB2 Drilling by diamond coring	38.3 – 48	Low angle fractures
	48 - 53	Low angle fractures
	53 – 61	45^0- 60^0 fractures
	63 -70	Closely spaced 30^0 to 60^0 fractures
	70 – 77.4	60^0 fractures
	77.4 – 108.6	Poor recovery 75^0 fractures



G&H SITE ATV FEATURE STEREONET
Projection ..... Schmidt
Number of Sample Points 260

- ▫ WELL UC-11.
- ▵ WELL UC-12.
- + WELL UC-13.
- ○ WELL NEP-3.
- × WELL UG-1.

COLOG, INC.

Figure B1 - Schmidt Plot

Appendix C

Summary of Bedrock Hydraulic Conductivity Values

Table C1 – Summary of Bedrock Hydraulic Conductivity and Storativity Values Obtained by Gaudet (1988)

Drawdown Data Set	Conceptual Model	*K* (cm/s)	Storativity
UC22	Porous medium	2.24E-04	
UC7A-1	Porous medium	2.18E-04	1.1E-05
UC7A-2	Porous medium	2.18E-04	1.1E-05
UC7A-3	Porous medium	2.85E-04	1.6E-05
UC22	Vertical fracture	$(K_f K_m)^{0.5}$ = 2.03E-04	
UC22	Horizontal fracture	4.12E-04	
UC22	Dual porosity	4.12E-04	

K_f = hydraulic conductivity of fracture

K_m = hydraulic conductivity of rock matrix

Table C2 – Summary of Bedrock Hydraulic Conductivity Values Derived From Straddle Packer Hydraulic Testing (GeoTrans, 1994)

Well ID	Test	*K* (cm/s)	Interval Midpoint (ft below rock)	Interval Length (ft)
G35DB	packer	7.76E-06	28.6	9.8
	packer	6.00E-05	37.8	9.8
G36DB3	packer	3.53E-05	11.9	9.8
	packer	7.06E-06	21.4	9.8
	packer	1.76E-05	30.95	9.8
	packer	1.80E-04	40.35	9.8
	packer	1.06E-04	61.225	34.95
	packer	3.53E-06	83.4	9.8
	packer	4.59E-08	101.4	9.8
	packer	7.06E-07	111.4	9.8
	packer	2.05E-07	120.9	9.8
	packer	7.06E-06	138.9	9.8
	packer	1.06E-05	147.9	9.8
	packer	6.70E-07	163	10
	packer	4.59E-07	171	10
	packer	1.69E-04	179	10
	packer	1.06E-04	187	10
	packer	7.06E-07	195	10
	packer	1.06E-06	200	10
G2DB	packer	7.87E-04	190.25	10.5
G2DB2	packer	1.34E-04	317.25	10.5
	packer	1.34E-04	137.25	10.5
	packer	1.80E-04	127.25	10.5
	packer	1.02E-04	10.25	10.5

Table C3 - Summary of Bedrock Hydraulic Conductivity Values Derived From Slug Testing (GeoTrans, 1994)

Well ID	Interpretation Method	K (cm/s)	Interval Midpoint (ft below rock)
G1D	HVH	1.91E-03	12.5
G2D	HVH	2.47E-04	13.5
G3D	HVH	3.53E-05	14.9
G3DB	HVH	1.06E-05	56.5
GD4	HVH	3.53E-05	13
G5D	HVH	7.06E-05	14
G7D	HVH	2.12E-04	15
G10D	HVH	7.06E-05	15.5
G10DB	HVH	3.53E-05	39.5
G11D	HVH	3.53E-05	12.5
G12D	HVH	1.76E-04	15.5
G13D	HVH	7.06E-06	18.7
G14D	HVH	2.47E-05	12.8
G15D	HVH	2.47E-05	15.6
G16D	HVH	7.06E-06	14
G18D	HVH	2.47E-05	11.5
G19D	HVH	3.18E-05	12.5
G21D	HVH	2.47E-05	12.5
G22D	HVH	3.53E-05	13
G23D	HVH	1.41E-04	13.5
G24D	HVH	2.47E-05	16.5
G25D	HVH	7.06E-05	13.5
G26D	HVH	3.53E-05	9.5
G27D	HVH	3.18E-05	12.8
G28D	HVH	3.53E-05	12.5
GO1D	HVH	3.53E-05	12.5
GO1DB	HVH	1.76E-04	43.2
BW9	BR FALLING	2.61E-03	10.1
	BR RISING	2.40E-03	10.1
	HVH FALLING	1.40E-02	10.1
	HVH RISING	3.60E-02	10.1

BR RISING – Bouwer and Rice rising head
BR FALLING = Bouwer and Rice falling head
CBP RISING = Cooper, Bredehoeft and Papadopolous rising head
CBP FALLING = Cooper, Bredehoeft and Papadopolous falling head

HVH = Hvorslev variable head
HVH RISING = Hvorslev rising head
HVH FALLING – Hvorslev falling head

Table C3 - Summary of Bedrock Hydraulic Conductivity Values Derived From Slug Testing (GeoTrans, 1994)

Well ID	Interpretation Method	K (cm/s)	Interval Midpoint (ft below rock)
BW13	BR FALLING	2.51E-03	7
	BR RISING	1.09E-03	7
	HVH FALLING	7.52E-03	7
	HVH RISING	8.01E-03	7
BW2R	BR FALLING	2.12E-03	10
	BR RISING	8.47E-04	10
	HVH FALLING	1.50E-02	10
	HVH RISING	2.40E-03	10
BW6R	BR FALLING	1.41E-04	10.5
	BR RISING	1.41E-04	10.5
	HVH FALLING	7.76E-04	10.5
	HVH RISING	3.18E-04	10.5
BW15R	BR FALLING	1.52E-03	10
	BR RISING	2.12E-03	10
	HVH FALLING	4.30E-03	10
	HVH RISING	3.32E-03	10
BW16R	BR FALLING	7.06E-05	11
	HVH FALLING	4.23E-04	11
G34D	BR FALLING	1.34E-05	6
	CBP FALLING	1.87E-05	6
	BR RISING	2.82E-05	6
	CBP RISING	1.27E-06	6
G35D	BR FALLING	3.21E-06	10.8
	CBP FALLING	4.94E-06	10.8
	BR RISING	5.65E-06	10.8
	CBP RISING	1.73E-06	10.8
G35DB	CBP FALLING	4.94E-04	37.7
	BR RISING	1.24E-04	37.7
	CBP RISING	3.88E-04	37.7
G36D	BR FALLING	1.76E-05	15
	CBP FALLING	4.23E-05	15
	BR RISING	5.29E-04	15
	CBP RISING	2.26E-05	15

BR RISING – Bouwer and Rice rising head
BR FALLING = Bouwer and Rice falling head
CBP RISING = Cooper, Bredehoeft and Papadopolous rising head
CBP FALLING = Cooper, Bredehoeft and Papadopolous falling head

HVH = Hvorslev variable head
HVH RISING = Hvorslev rising head
HVH FALLING – Hvorslev falling head

Table C3 - Summary of Bedrock Hydraulic Conductivity Values Derived From Slug Testing (GeoTrans, 1994)

Well ID	Interpretation Method	K (cm/s)	Interval Midpoint (ft below rock)
G36DB	BR FALLING	1.02E-03	47
	CBP FALLING	2.68E-03	47
	BR RISING	3.32E-04	47
	CBP RISING	3.03E-03	47
G36DB2	BR FALLING	8.12E-04	181.4
	CBP FALLING	6.00E-04	181.4
	BR RISING	1.48E-04	181.4
	CBP RISING	6.00E-04	181.4

BR RISING – Bouwer and Rice rising head
BR FALLING = Bouwer and Rice falling head
CBP RISING = Cooper, Bredehoeft and Papadopolous rising head
CBP FALLING = Cooper, Bredehoeft and Papadopolous falling head

HVH = Hvorslev variable head
HVH RISING = Hvorslev rising head
HVH FALLING – Hvorslev falling head

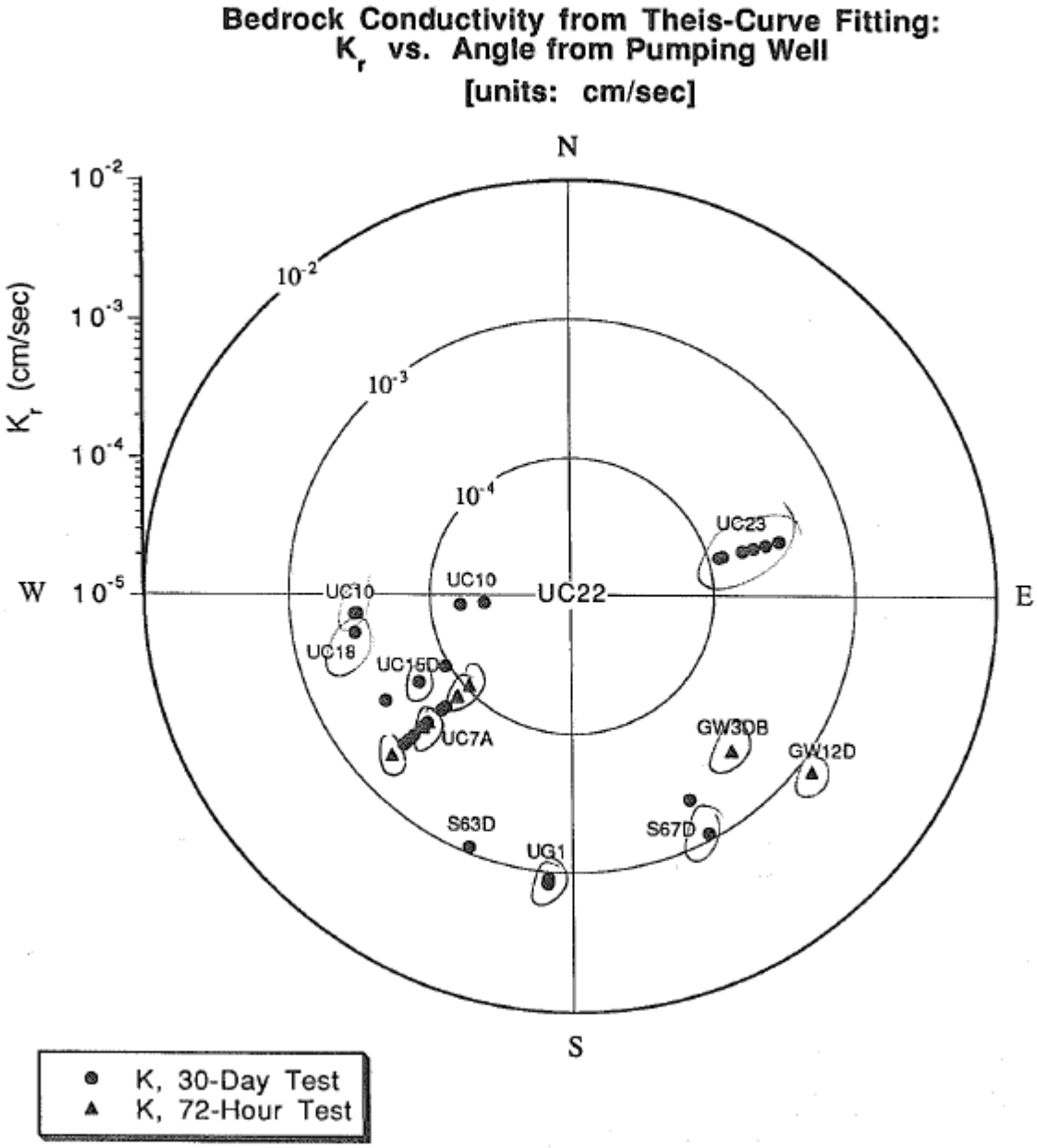
Table C4 – Summary of Bedrock Hydraulic Conductivity Values Obtained From 30 day and 72 hour Pumping Tests Performed Using Extraction Well UC22 (Moore, 2010)

Well ID	Interpretation Method	K (cm/s)	Interval Midpoint (ft below rock)
UC7A-1	Theis (30 day test)	1.7E-04	116.5
UC7A-2	Theis (30 day test)	2.3E-04	87.5
UC7A-3	Theis (30 day test)	3.6E-04	60.5
UC7A-4	Theis (30 day test)	6.8E-04	24.5
G3DB2	Theis (30 day test)	1.1E-04	124.5
GO1DB	Theis (30 day test)	2.7E-04	43.2
G36DB2	Theis (30 day test)	2.9E-04	181.4
S63D	Theis (30 day test)	3.7E-04	9.0
S67D	Theis (30 day test)	2.5E-04	13.5
UC15D	Theis (30 day test)	1.8E-04	224.0
UC15S	Theis (30 day test)	8.4E-05	32.1
UC18	Theis (30 day test)	2.1E-04	12.7
UC23-2	Theis (30 day test)	8.6E-05	370.5
UC23-3	Theis (30 day test)	2.1E-04	290.5
UC23-4	Theis (30 day test)	2.2E-04	251.5
UC23-5	Theis (30 day test)	2.6E-04	229.5
UG1-3	Theis (30 day test)	3.1E-04	367.0
UG1-4	Theis (30 day test)	3.4E-04	204.0
UG1-5	Theis (30 day test)	3.0E-04	149.0
UG1-6	Theis (30 day test)	2.9E-04	136.0

Table C4 – Summary of Bedrock Hydraulic Conductivity Values Obtained From 30 day and 72 hour Pumping Tests Performed Using Extraction Well UC22 (Moore, 2010)

Well ID	Interpretation Method	K (cm/s)	Interval Midpoint (ft below rock)
UG1-7	Theis (30 day test)	2.6E-04	98.0
UC7A-1	Theis (72 hr test)	8.1E-05	116.5
UC7A-2	Theis (72 hr test)	9.0E-05	87.5
UC7A-3	Theis (72 hr test)	7.2E-05	60.5
UC7A-4	Theis (72 hr test)	1.7E-04	24.5
G3DB	Theis (72 hr test)	1.4E-03	56.5

Figure C1 – Bedrock Hydraulic Conductivity Polar Plot Presented by Johnson (1994)



Appendix C Supplemental Material

Gaudet Calculations

UniFirst, Woburn
3140-001-007
Calculation 3140-001-1

Hydraulic Conductivity of Fractured Bedrock

10/19/88
Sharron C. Gaudet
11 pages (plus 3 Figures)

Purpose: To estimate the hydraulic conductivity and other aquifer parameters of the fractured bedrock underlying the UniFirst Woburn site.

Method: Type curve analysis of the results of the deep bedrock aquifer test (conducted from 2/29/88 to 3/3/88) in accordance with the procedures presented in Gringarten, A.C. 1982. "Flow-Test Evaluation of Fractured Reservoirs." Geological Society of America, Special Paper 189.

Assumption: The complex hydrogeologic system beneath the UniFirst site can be adequately represented by an "equivalent reservoir" solution. This is necessary in order to related the actual fractured bedrock aquifer behavior to that of a known theoretical model. The aquifer response will be examined in light of 4 different theoretical models, each with its own inherent assumptions. These theoretical models are:

1. Equivalent homogeneous porous media (Jacob's method)
2. Single vertical fracture in a homogeneous porous media
3. Single horizontal fracture in a homogeneous porous media
4. Heterogeneous, double-porosity system.

The assumptions associated with each of these models are included in the Calculation section.

Data Sources:

1. Drawdown vs. time data for wells UC7A (ports 1, 2, and 3) and UC22 (pumping well, Q = 20 gpm), from deep bedrock aquifer test conducted 2/29/88 to 3/3/88.
2. Compressibility of jointed rock from Table 2-5, page 55 of Freeze and Cherry. Groundwater. Prentice-Hall 1979.
3. Jacob's method from Kruseman and DeRidder 1983. Analysis and Evaluation of Pumping Test Data. International Institute for Land Reclamation and Improvement, The Netherlands, Bulletin 11.
4. Vertical fracture, horizontal fracture, and double-porosity methods from Gringarten 1982. "Flow-Test Evaluation of Fractured Reservoirs." Geological Society of America, Special Paper 189.

Results:

1. Jacob's method

UC22:	$K = 4.4 \times 10^{-4}$ ft/min
UC7A-1	
and	
UC7A-2:	$K = 4.3 \times 10^{-4}$ ft/min $S = 1.1 \times 10^{-5}$
UC7A-3:	$K = 5.6 \times 10^{-4}$ ft/min $S = 1.6 \times 10^{-5}$

2. Single vertical fracture

   $(K_f K_m)^{1/2} = 4.0 \times 10^{-4}$ ft/min

3. Single horizontal fracture

   $k_f = 8.1 \times 10^{-4}$ ft/min

4. Double-porosity

   $K = 8.1 \times 10^{-4}$ ft/min

Notation:

T=	Transmissivity (ft^2/min)
S=	Storativity
K=	Hydraulic conductivity (ft/min)
K_f=	Fracture hydraulic conductivity (ft/min)
K_m=	Matrix hydraulic conductivity (ft/min)
Q=	Pumping rate (gpm)
u=	Fluid viscosity (lb/ft·min)
p=	Fluid density (lb/ft^3)
g=	Gravitational constant (ft/min^2)
k_m=	Matrix permeability (ft^2)
k_f=	Fracture permeability (ft^2)
h=	Aquifer thickness (ft)
t=	Time (min)
Φ	Porosity
c_m=	Matrix compressibility (ft·min^2/lb)
x_f=	½ length of vertical fracture (ft)
P_{fD}=	Dimensionless pressure
Δs=	Drawdown (ft)
r=	Distance from the pumping well (ft)
r_f=	½ width of horizontal fracture

Calculation:

Initial examination of log-log, semi-log, and linear plots of drawdown vs. time in the pumping well (see Figures 1-3) reveals that the system response varies with time. At early times ($t < 5$ minutes), the change in drawdown (Δs) is proportional to $\sqrt{\Delta t}$ (indicated by a straight line with slope equal to 1/2 on the log-log plot). This is indicative of a high conductivity fracture (or Fracture zone) communicating with the well bore and contributing to an early well-bore-storage effect. At intermediate times (15 minutes $< t <$ 800 minutes Δs is proportional to $\log \Delta t$ (a straight line on the semi-log plot), indicating radial flow to the well. At large times ($t >$ 900 minutes), Δs is proportional to Δt, indicating pseudo-steady-state flow.

1. Jacob's Method

Assumptions:

The aquifer is a homogeneous porous media.

The aquifer is confined

Flow to the well is unsteady, ie drawdown differences over time are not negligible and the hydraulic gradient is not constant in time.

Water removed from storage is discharged instantaneously with decline of head

The diameter of the pumped well is very small (ie negligible well-bore storage).

The value of $u = \frac{r^2 S}{4Tt}$ is small ($u < 0.01$)

i.e. r is small and t is large.

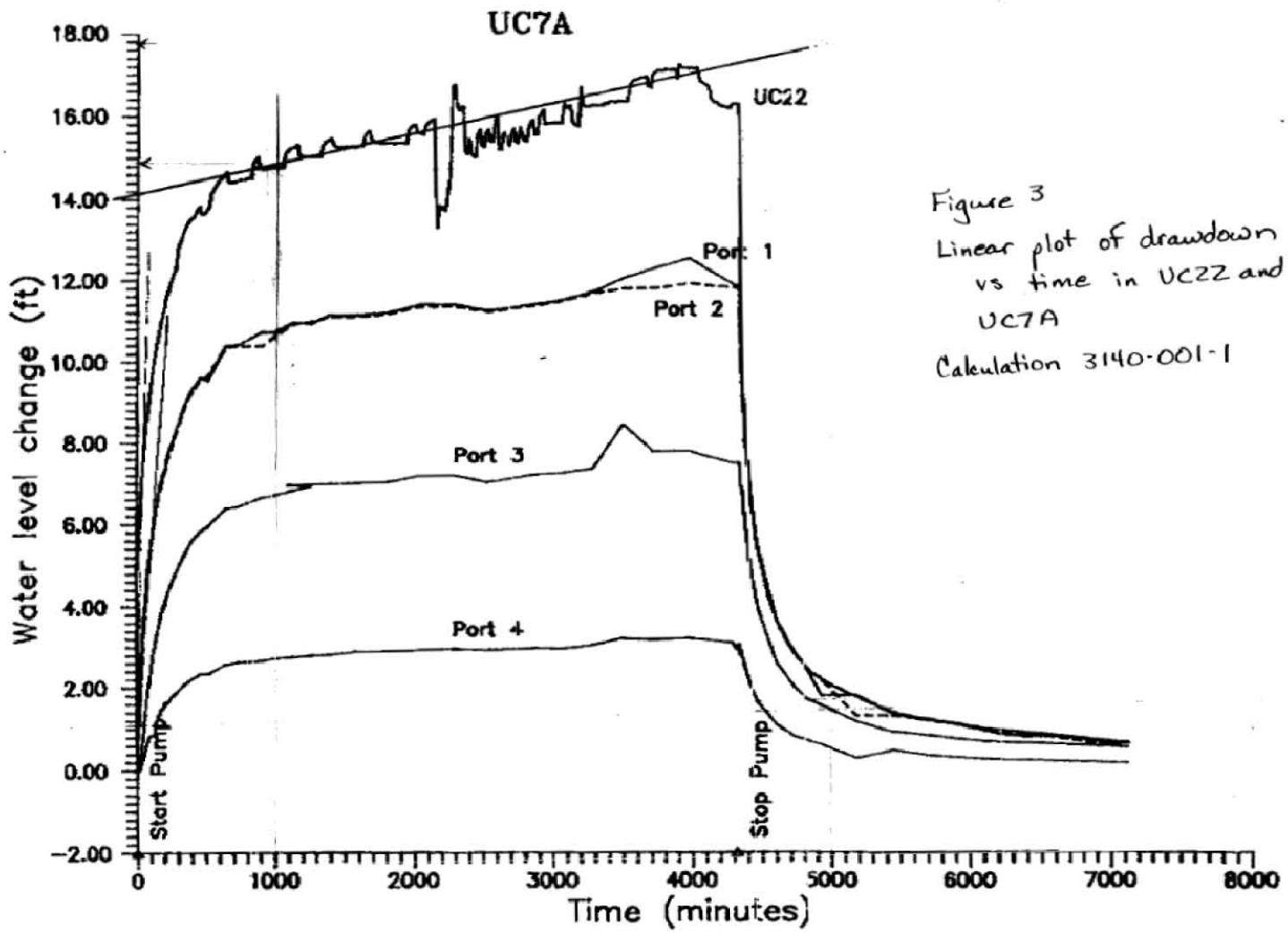


Figure 3
Linear plot of drawdown vs time in UC22 and UC7A
Calculation 3140-001-1

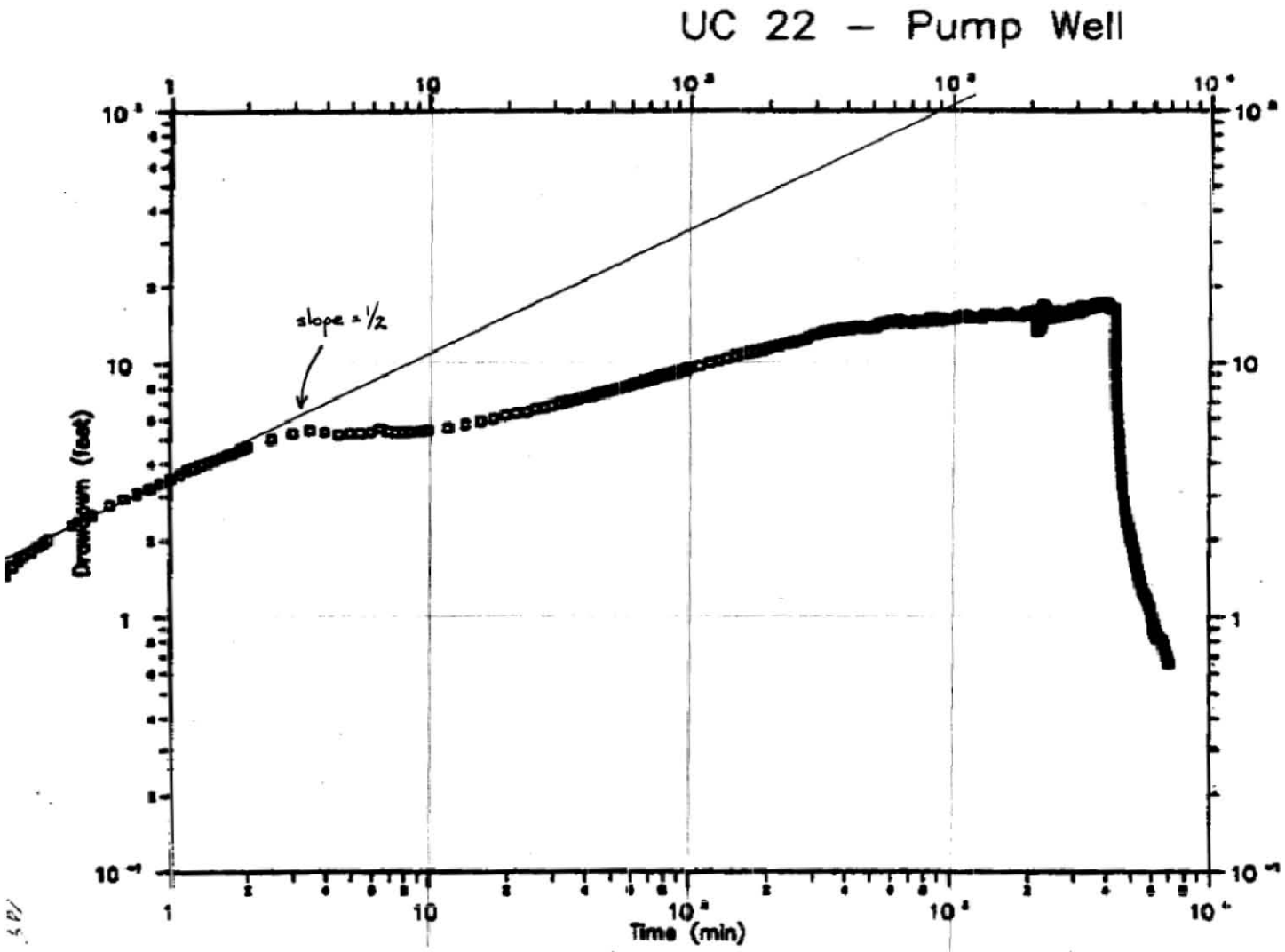


Figure 1 Log-log plot of drawdown vs time in UC22
Calculation 3140-001-1

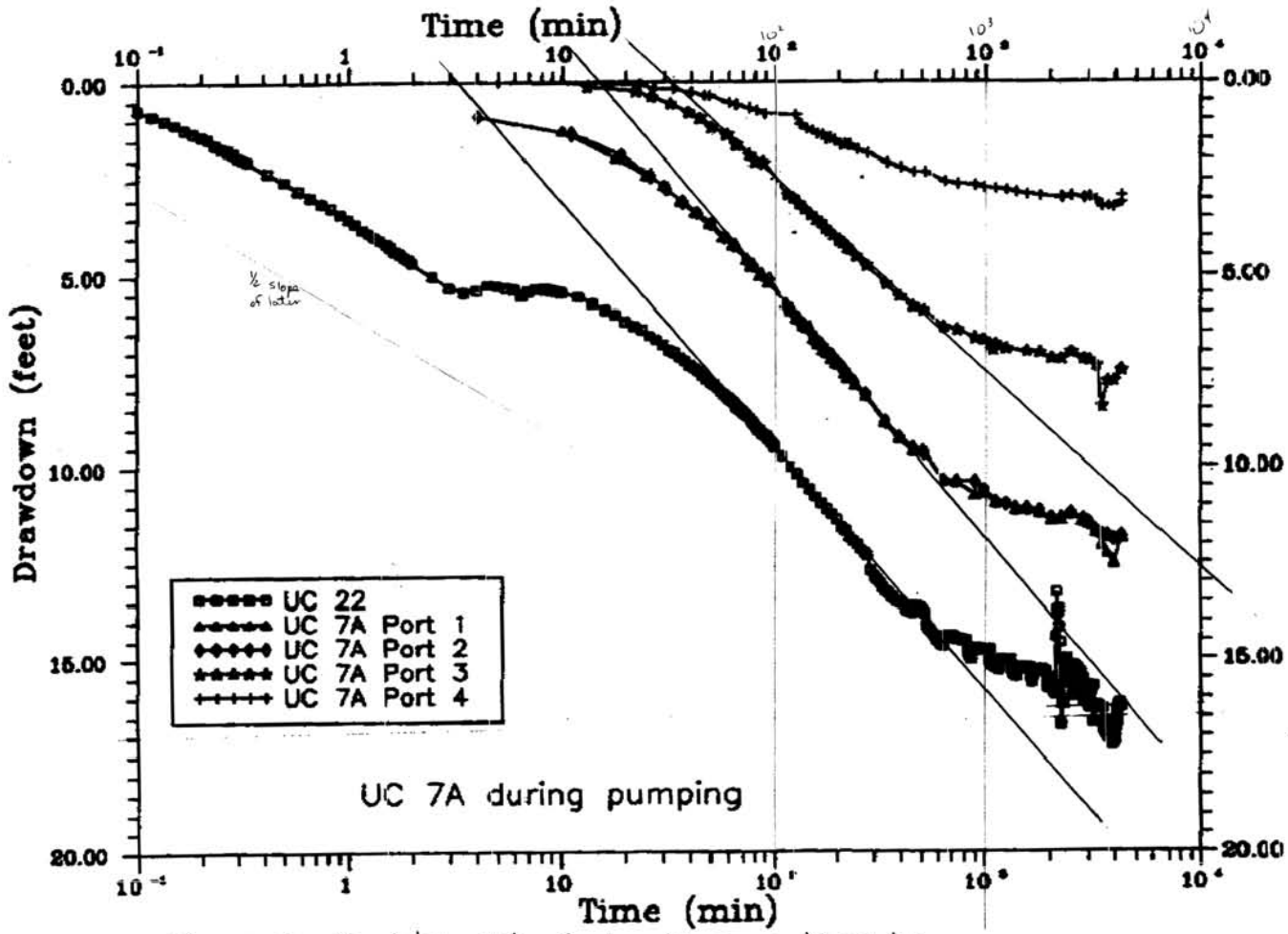


Figure 2 Semi-log plot of drawdown vs time in UC22 and UC7A.

Calculation:

Using Figure 2, the slope of the straight portion of Δs vs t and t_o (the time when the straight line crosses s=o) are obtained for each well. The slope is represented by "Δs" where Δs equals the change in drawdown across one log cycle of time. Storativity and transmissivity can then be found using the following formulas:

$$s = \frac{2.25^2 T t_o}{r^2}$$

$$T = \frac{2.3\ Q}{4\ \pi\ \Delta s}$$

UC22:

$$T = \frac{2.3\ (20\ \text{gpm})}{-4\ \pi\ (9.5 - 15.8\ \text{ft})} = 0.58\ \text{gpm/ft}$$

$$K = \frac{T}{h} = \frac{0.58\ \text{gpm/ft}}{175\ \text{ft}} \frac{(\text{ft}^3)}{(7.49\ \text{gal})}$$

$K = 4.4 \times 10^{-4}$ ft/min

UC7A-1 and UC7A-2:

$$T = \frac{2.3\ (20\ \text{gpm})}{4\ \pi\ (11.8 - 5.3\ \text{ft})} = 0.56\ \text{gpm/ft}$$

$K = 4.3 \times 10^{-4}$ ft/min

$$S = \frac{2.25\ (0.56\ \text{gpm/ft})\ (\text{ft}^3/7.49\ \text{gal})\ (10.3\ \text{min})}{(400\ \text{ft})^2} = 1.1 \times 10^{-5}$$

UC7A-3:

$$T = \frac{2.3\ (20\text{gpm})}{4\ \pi\ (7.5 - 2.5)\ \text{ft}} = 0.74\ \frac{\text{gpm}}{\text{ft}}$$

$K = 5.6 \times 10^{-4}$ ft/min

$$S = \frac{2.25\ (0.74\ \text{gpm/ft})\ (\text{ft}^3/7.49\ \text{gal})\ (12.1\ \text{min})}{(400\ \text{ft})^2} = 1.6 \times 10^{-5}$$

2. Single vertical fracture (or fracture zone) in a homogeneous porous media

Assumptions:

The aquifer is a homogenous porous media with the exception of a single-plane vertical fracture

The aquifer is confined.

The pumping well is located along the vertical fracture.

Water removed from storage is discharged instantaneously with decline of head.

Well-bore storage is negligible

Hydraulic conductivity in the direction parallel to the fracture represents the increase conductivity due the existence of a major trend of fractures in the x-direction (along the fracture).

Calculation:

Drawdown vs time in UC22 is plotted (see Figure 4, below) and overlaid with Figure 10 from Gringarten to find a match point (represented on Figure 4 by ɵ)

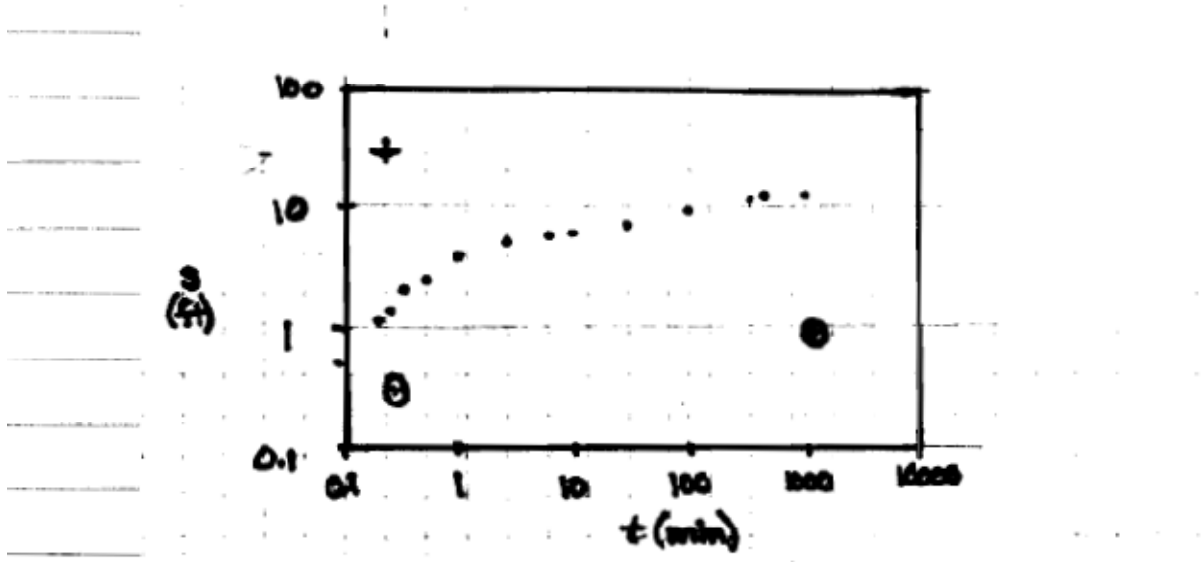


Figure 4

Drawdown vs time in UC22

Matchpoint: $\Delta s = 0.4$, $t=0.3$
$P_{fD}=0.1$, $t_{Df}=0.1$

$$t_{DF} = \frac{k_f t}{\Phi_m u c_m x_f^2} \quad \text{and} \quad P_{fD} = \frac{2\pi (k_f k_m)^{1/2} h}{Q u} \Delta spg$$

$$(k_f k_m)^{1/2} = \frac{Q}{4\pi} \frac{u}{h} \frac{P_{fD}}{\Delta spg}$$

$$(T_f T_m)^{1/2} = \frac{Q}{4\pi} \frac{P_{fD}}{\Delta spg} = \frac{20gpm}{4\pi} \frac{0.1}{0.3ft} = 0.58 \text{ gpm/}_{ft}$$

h=175 ft

$(K_f K_m)^{1/2} = 4.0X10^{-4}$ ft/min

The other equation can be used to find K_f if the storativity and fracture length are known. For instance, if $S=10^{-5}$ and x_f=500 ft

$$\Rightarrow \quad t_D = K_f\, t \quad \frac{1}{s} \quad \frac{h}{x_f^2}$$

$$K_f = \frac{t_D}{t} \quad s \quad \frac{x_f^2}{h} = \frac{0.1}{0.3 \text{ min}} \quad (10^{-5}) \quad \frac{(500 \text{ ft})^2}{(175 \text{ ft})}$$

$$K_f = 4.8 \times 10^{-3} \text{ ft/min}$$

$$\Rightarrow K_m = \frac{(4 \times 10^{-4})^2}{(4.8 \times 10^{-3})} \text{ ft/min} = 3.4 \times 10^{-5} \text{ ft/min}$$

3. Single horizontal fracture (or fracture zone) in a homogeneous porous media

Assumptions:

The aquifer is a homogeneous porous media with the exception of a single plane horizontal fracture.

The aquifer is confined.

The pumping wall intersects the center of the horizontal fracture.

Water removed from storage is discharged instantaneously with decline of head.

Well-bore storage is negligible.

The hydraulic conductivity, K_f, in the radial (horizontal) direction represents the increased conductivity due to the presence of the horizontal fracture system. The conductivity K_m in the vertical direction represents the matrix conductivity.

Calculation:

Figure 4 is used again, but this time compared with Figure 13 of Gringarten. The matchpoint is "ɵ" on Figure 4.

Matchpoint: $\Delta s=0.9$ ft $\quad t=1100$ min

$H_D=3,\ t_D=10^2,\ P_{fD}=0.1$

$$H_D=\frac{h}{r_t}\qquad \frac{(k_F)^{1/2}}{(k_m)}\qquad t_D=\frac{k_f t}{\Phi_m u c_m r_f^2}\qquad P_{fD}=\frac{2n\,(k_f k_m)^{1/2}\,r_f\,\Delta p}{Q\,u}$$

$$r_f\qquad \frac{(K_m)^{1/2}}{(K_F)}=\frac{h}{H_D}\qquad tD=\frac{K_f t}{\Phi_m u c_m p g r_f^2}\qquad P_{fD}=\frac{2\pi\,(K_f K_m)^{1/2}\,r_f\,\Delta s}{Q}$$

$$r_f^2\qquad \frac{(K_m)}{(K_F)}=\frac{(175)^2}{(\ 3\ )}=3400\qquad t_D=\frac{K_f t h}{S r_f^2}\qquad 0.1=\frac{2\pi\,(7.49)(0.9)}{20}\,(K_f K_m)^{1/2} r_f$$

$$\frac{K_f K_m r_f^2}{r_f^2\ {}^{km}/_{kf}}=\frac{2.23\text{x}10^{-3}}{3400}=6.56\text{x}10^{-7}$$

$$K_f^2=6.56\text{x}10^{-7}\ \Rightarrow\ \boxed{K_f=8.1\text{x}10^{-4}\ {}^{ft}/_{min}}$$

if $s=10^{-4} \Rightarrow r_f=125$ ft and $K_m=1.8\text{ x }10^{-4}\ {}^{ft}/_{min}$ $\quad (K_f K_m)^{1/2}=3.8\text{x}10^{-4}\ {}^{ft}/_{min}$

if $s=10^{-5} \Rightarrow r_f=395$ ft and $K_m=1.8\text{ x }10^{-5}\ {}^{ft}/_{min}$ $\quad (K_f K_m)^{1/2}=1.2\text{x}10^{-4}\ {}^{ft}/_{min}$

4. Double-porosity model

Assumptions:

The aquifer is confined.

The aquifer consists of two scales of different porosities and permeabilities. The first media consists of relatively wide pores of the first order (fissures + blocks). The blocks themselves are porous, consisting of grains separated by fine pores of the second order. The blocks feed liquid into the fissures and act as a uniformly distributed source.

Fissure compressibility is negligible.

Flow from the blocks to the fissures occurs under pseudo-steady-state conditions.

Calculation:

Figure 4 is used again, but now compared with Figure 23 of Gringarten. The matchpoint is "+" on Figure 4.

Matchpoint: $s=30$ ft $\quad t = 0.2$ min.

$P_{fD}=10 \quad \frac{t_d}{c_d} = 1 \quad c_D e^{25}=s$

$$P_{fD} = \frac{2\pi k_f h}{Q u} s \quad pg$$

$$= \left(\frac{k_f h}{u} pg\right) \frac{2\pi}{Q} s$$

$$T = P_{fD} \frac{Q}{2\pi S} = \frac{10\ (20\ \text{gpm})}{2\pi\ (30\ \text{ft})} = 1.06\ {}^{\text{gpm}}/_{\text{ft}}$$

$K = 8.1 \times 10^{-4}\ {}^{\text{ft}}/_{\text{min}}$

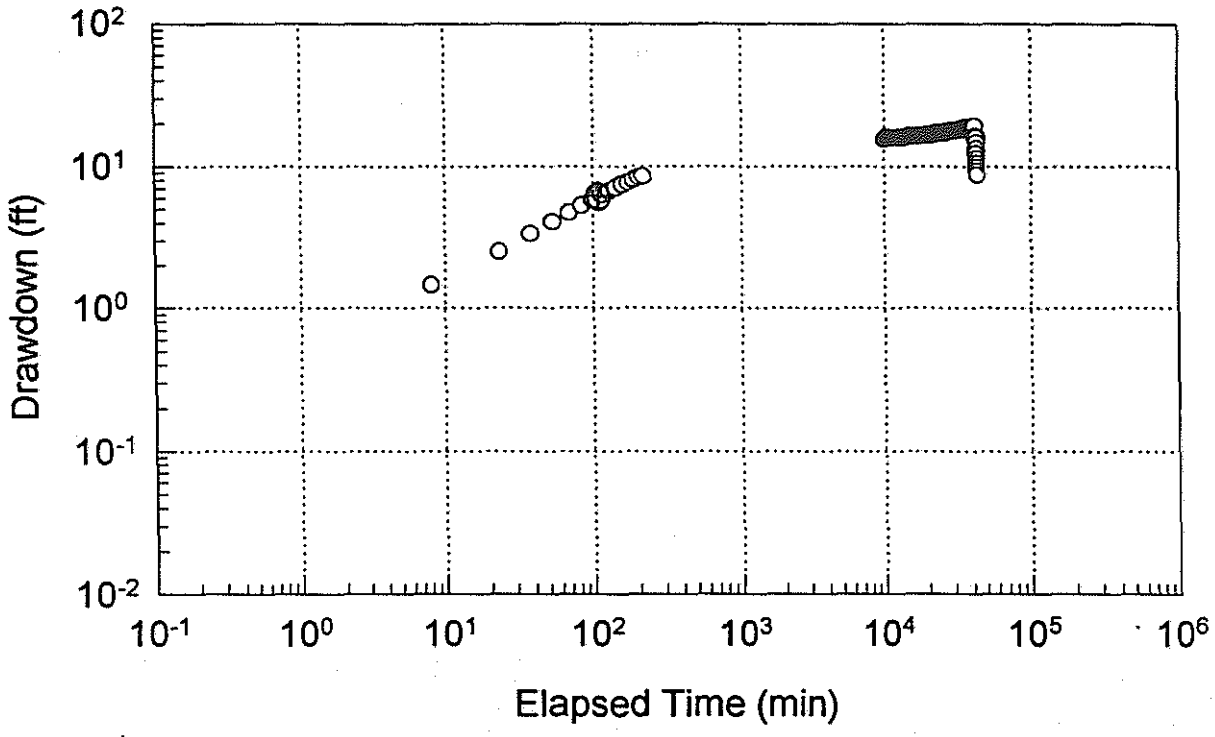
Appendix C Supplemental Material

UC22 Pumping Test Time – Drawdown Curves and Hydraulic Conductivity Calculation Summary (Moore, 2010)

The information contained in this packet corresponds to the following wells:

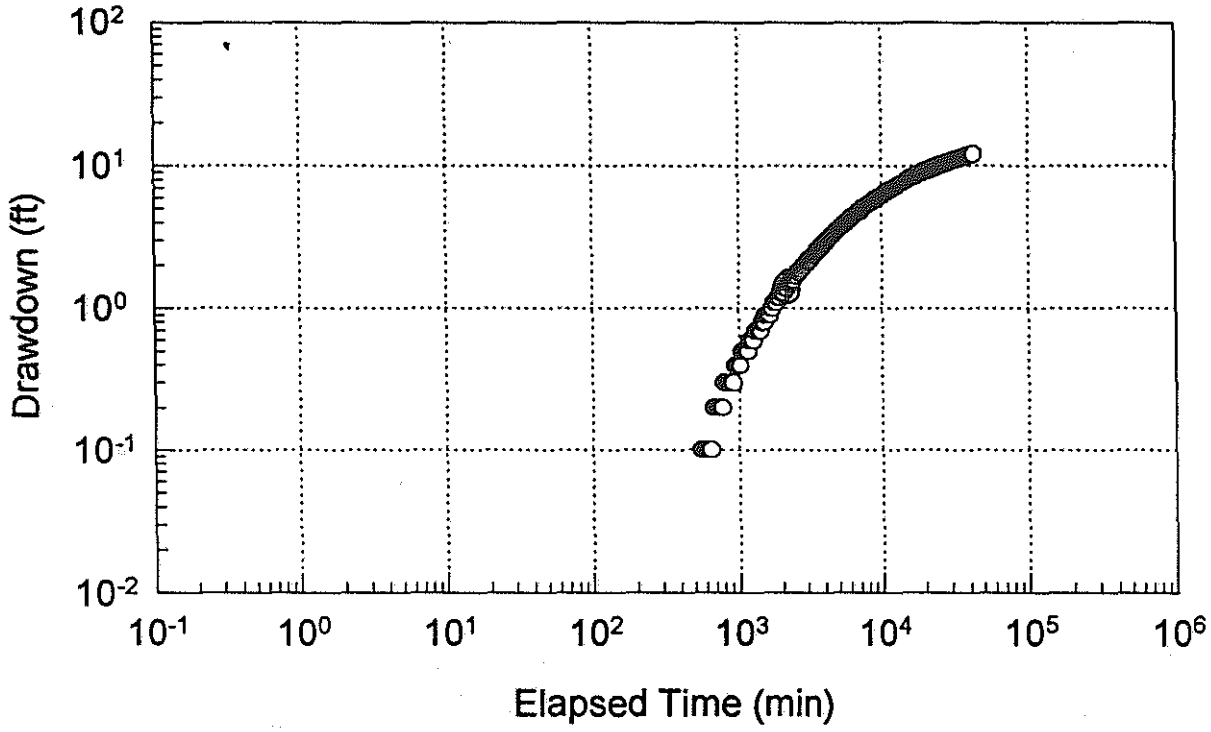
G01DB	UC7A-1	UC15S	UC23-5	UG1-7
G3DB2	UC7A-2	UC18	UG1-3	
G36DB2	UC7A-3	UC23-2	UG1-4	
S63D	UC7A-4	UC23-3	UG1-5	
S67D	UC15D	UC23-4	UG1-6	

G01DB Pump Test Data



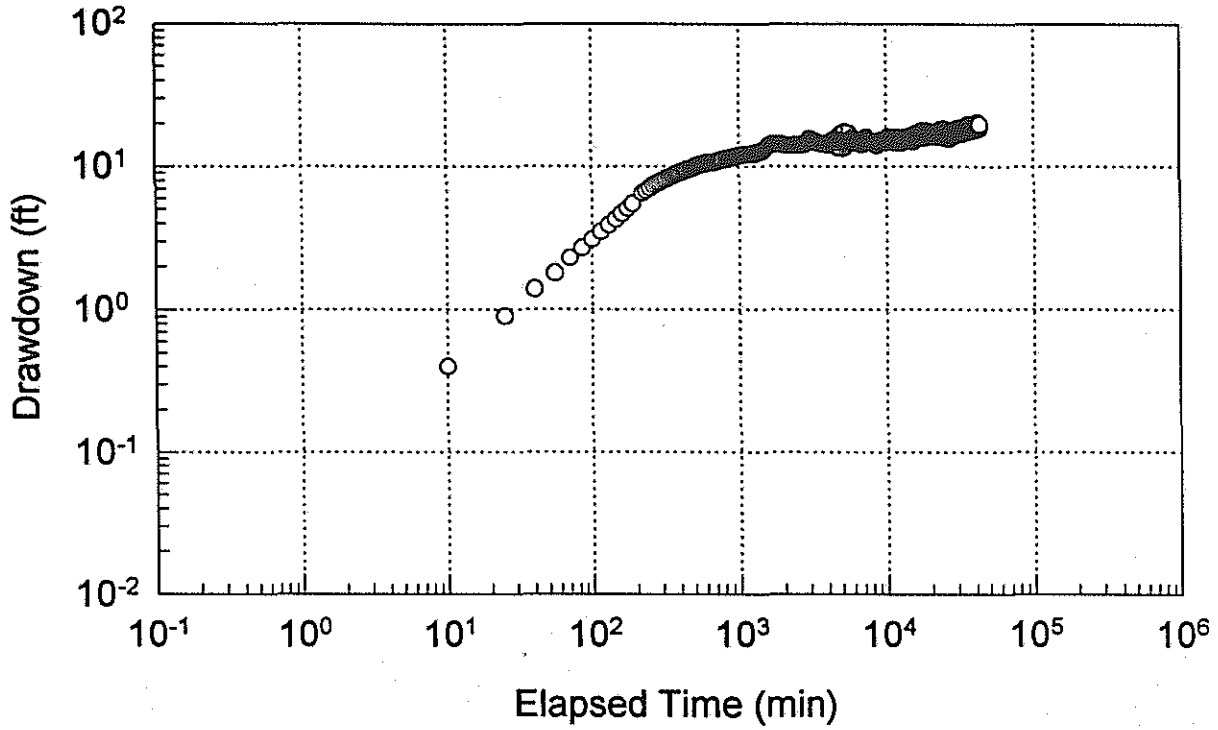
WELL	G01DB	G01DB	G01DB
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	2.4	2.4	2.4
DRAWDOWN [s] [ft]	6.0	6	6
TRANSMISSIVITY [T] [gal/day/ft]	2292	2292	2292
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.6E-04	2.7E-04	2.2E-04

G3DB2 Pump Test Data



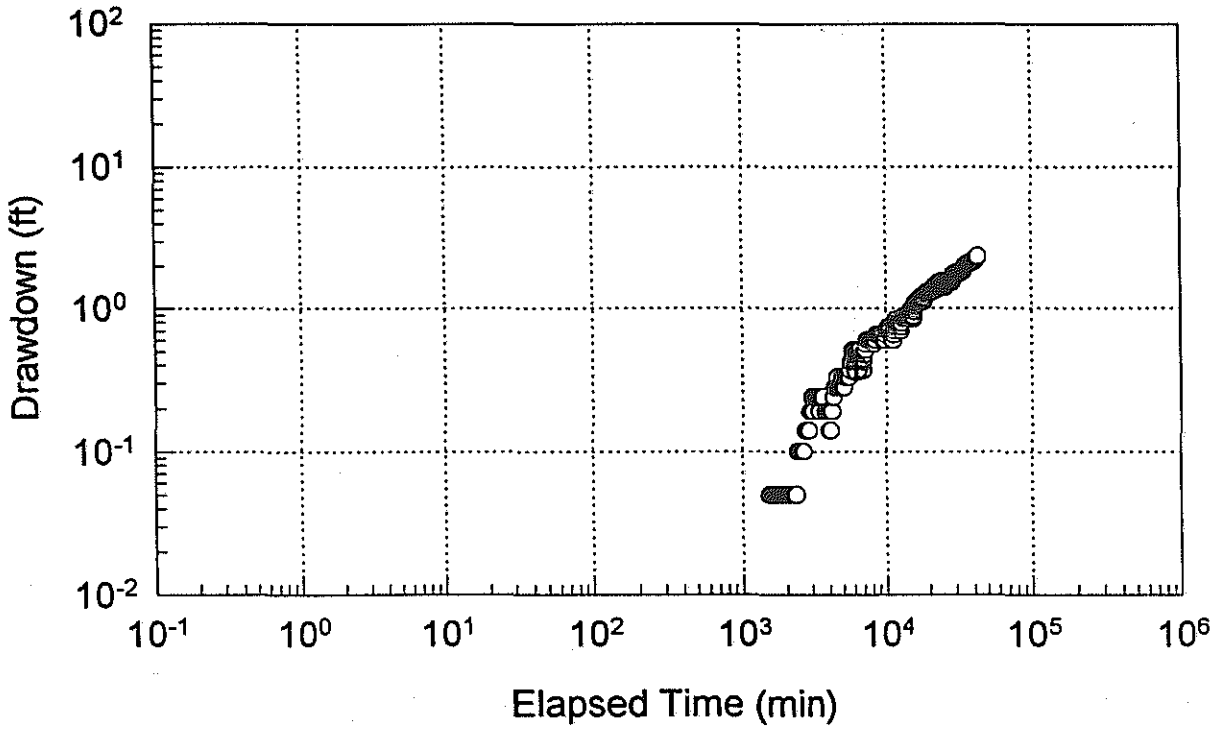
WELL	G3DB2	G3DB2	G3DB2
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	0.25	0.25	0.25
DRAWDOWN [s] [ft]	1.5	1.5	1.5
TRANSMISSIVITY [T] [gal/day/ft]	955	955	955
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	1.5E-04	1.1E-04	9.0E-05

G36DB2 Pump Test Data



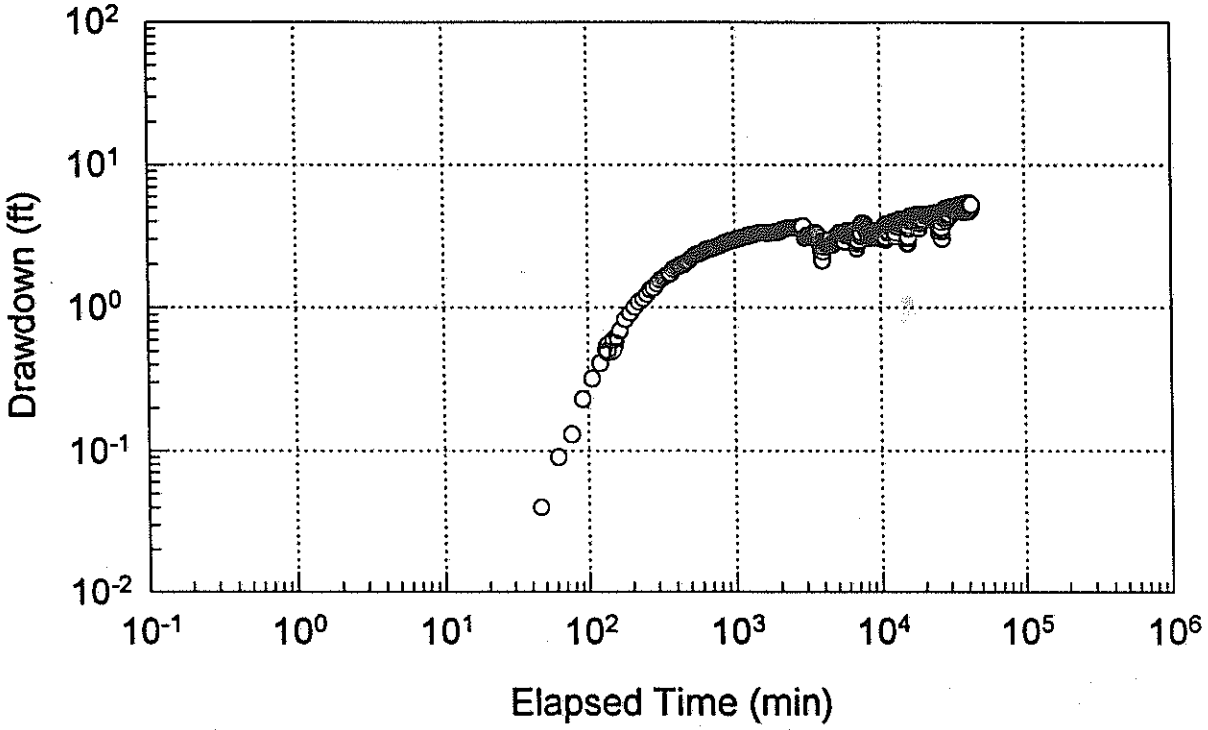
WELL	G36DB2	G36DB2	G36DB2
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	6	6	6
DRAWDOWN [s] [ft]	14	14	14
TRANSMISSIVITY [T] [gal/day/ft]	2456	2456	2456
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.9E-04	2.9E-04	2.3E-04

S63D Pump Test Data



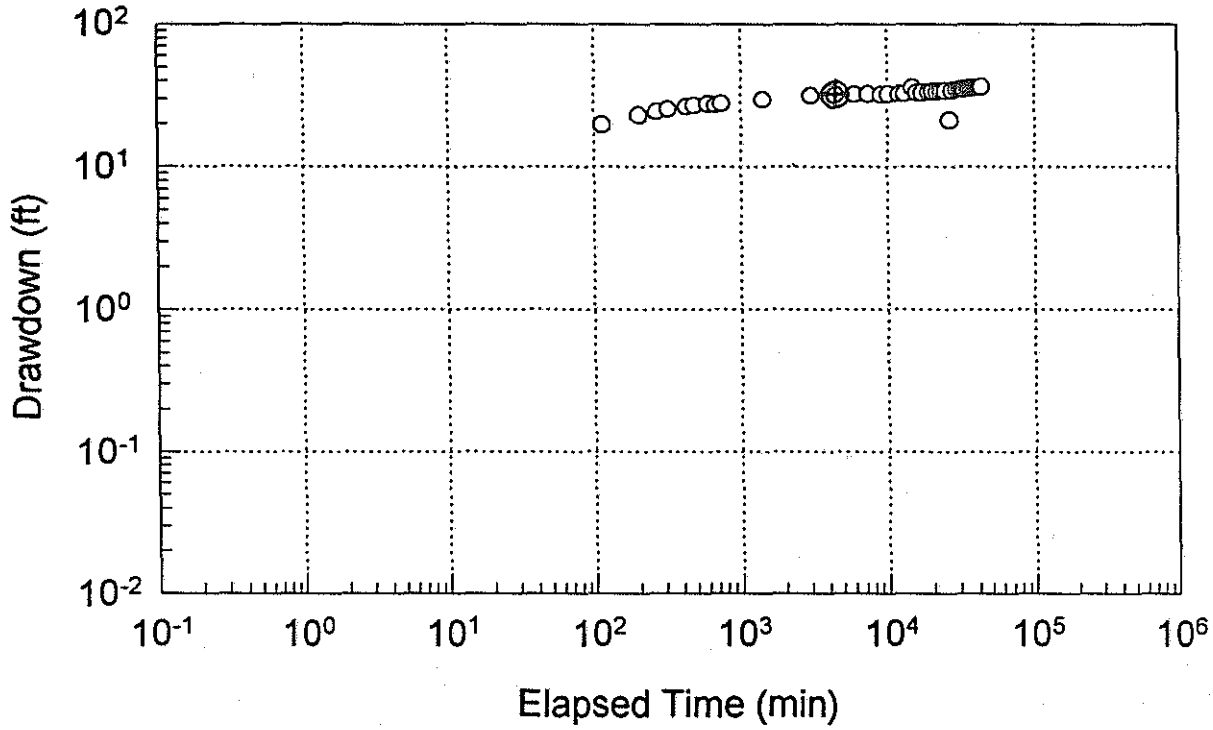
WELL	S63D	S63D	S63D
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	0.22	0.22	0.22
DRAWDOWN [s] [ft]	0.4	0.4	0.4
TRANSMISSIVITY [T] [gal/day/ft]	3152	3152	3152
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	5.0E-04	3.7E-04	3.0E-04

S67D Pump Test Data



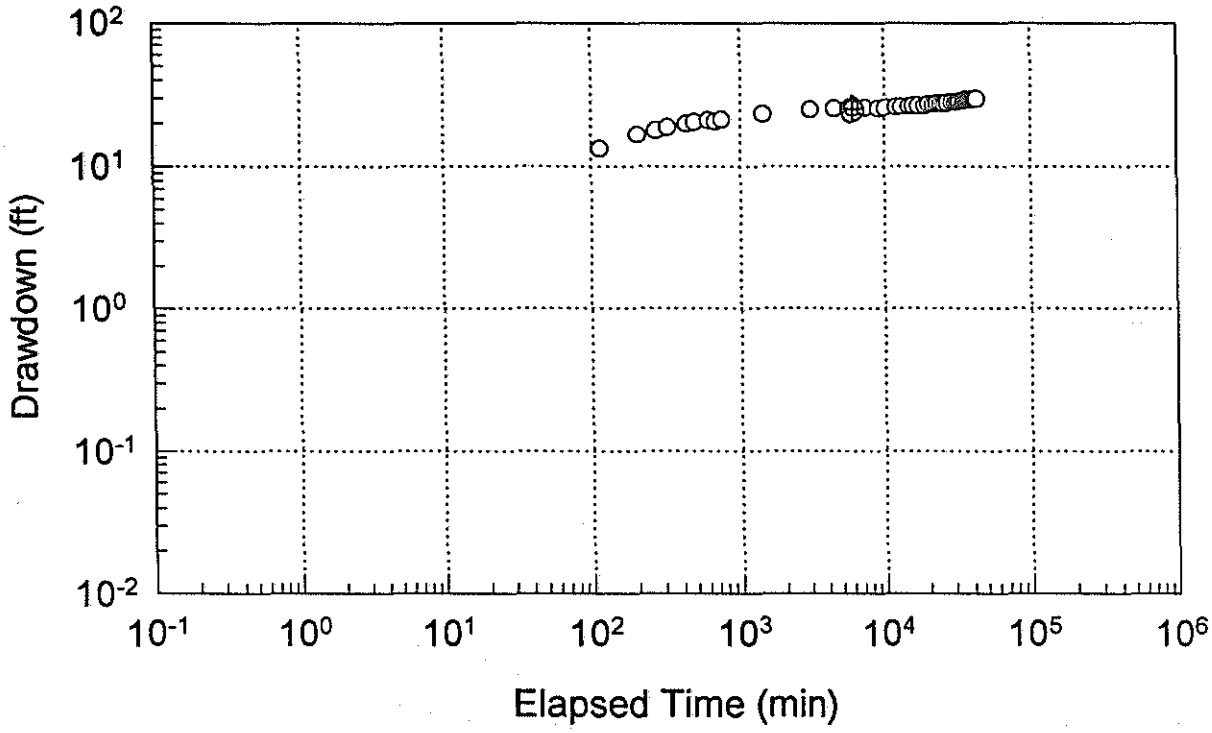
WELL	S67D	S67D	S67D
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	0.19	0.19	0.19
DRAWDOWN [s] [ft]	0.51	0.51	0.51
TRANSMISSIVITY [T] [gal/day/ft]	2135	2135	2135
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.4E-04	2.5E-04	2.0E-04

UC7A-1 Pump Test Data



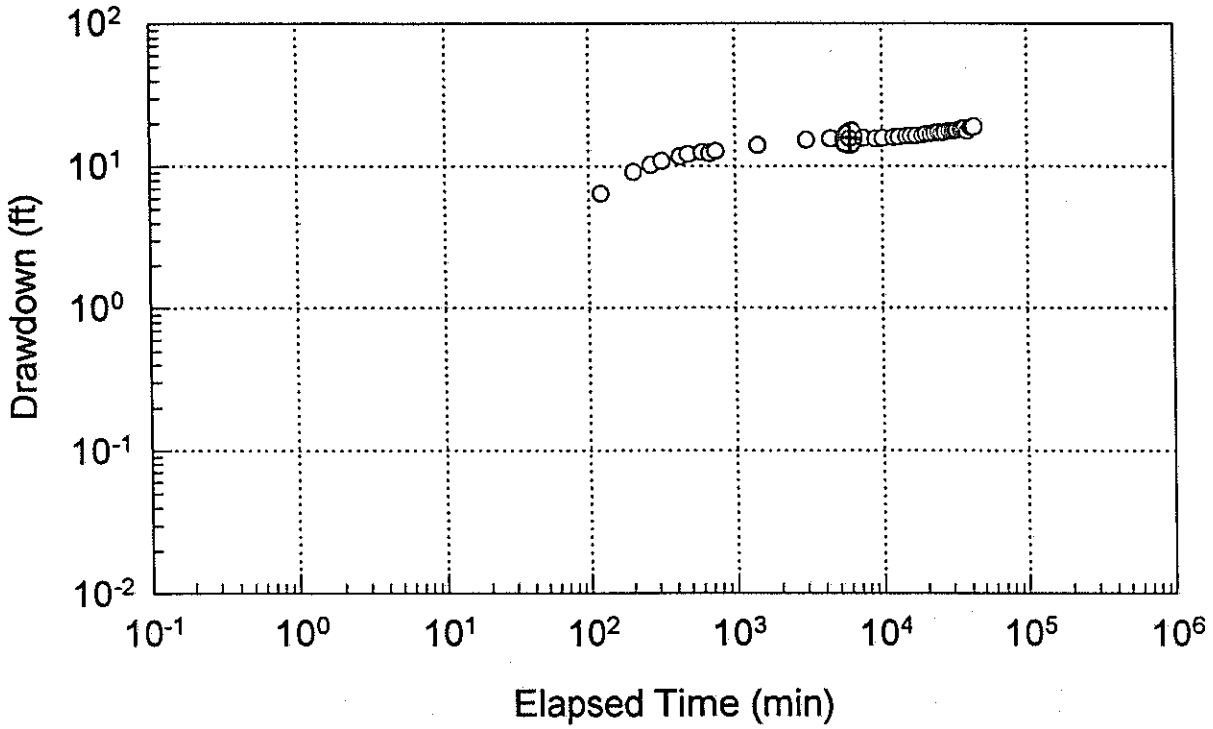
WELL	UC7A-1	UC7A-1	UC7A-1
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	9	9	9
DRAWDOWN [s] [ft]	35	35	35
TRANSMISSIVITY [T] [gal/day/ft]	1473	1473	1473
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	2.3E-04	1.7E-04	1.4E-04

UC7A-2 Pump Test Data



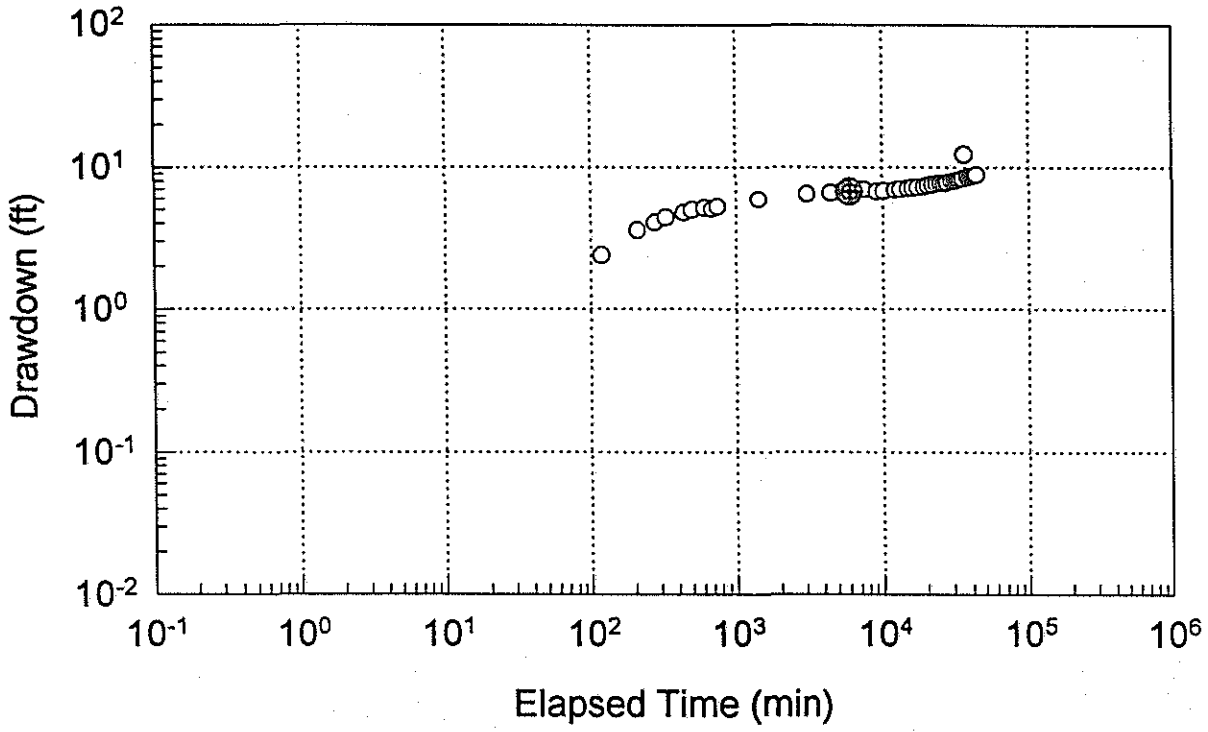
WELL	UC7A-2	UC7A-2	UC7A-2
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	9	9	9
DRAWDOWN [s] [ft]	27	27	27
TRANSMISSIVITY [T] [gal/day/ft]	1910	1910	1910
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.0E-04	2.3E-04	1.8E-04

UC7A-3 Pump Test Data



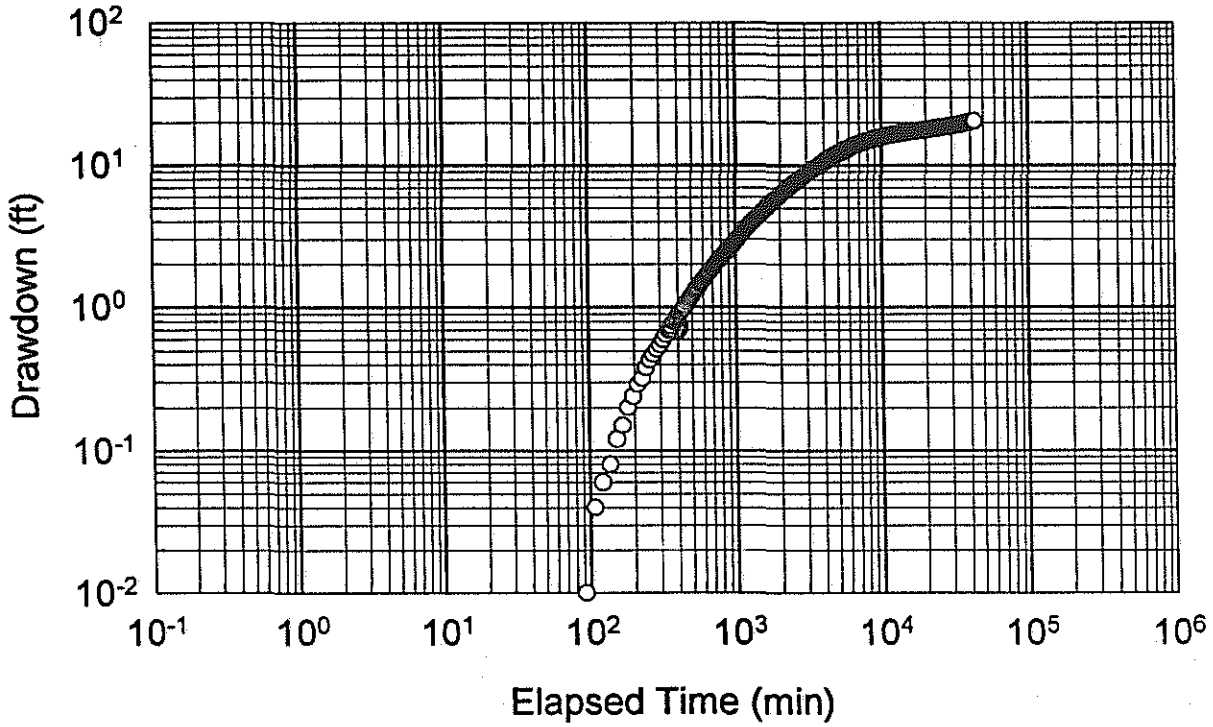
WELL	UC7A-3	UC7A-3	UC7A-3
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	8	8	8
DRAWDOWN [s] [ft]	15	15	15
TRANSMISSIVITY [T] [gal/day/ft]	3056	3056	3056
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	4.8E-04	3.6E-04	2.9E-04

UC7A-4 Pump Test Data



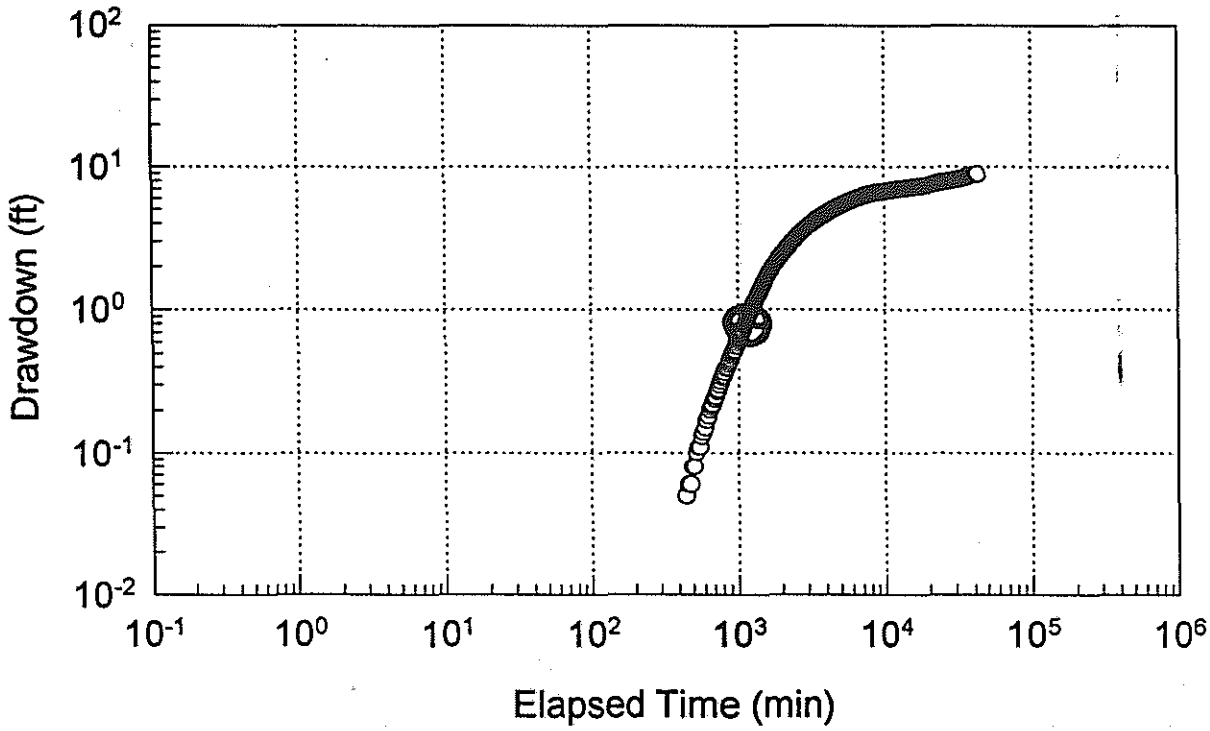
WELL	UC7A-4	UC7A-4	UC7A-4
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	7	7	7
DRAWDOWN [s] [ft]	7	7	7
TRANSMISSIVITY [T] [gal/day/ft]	5730	5730	5730
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	9.0E-04	6.8E-04	5.4E-04

UC15D Pump Test Data



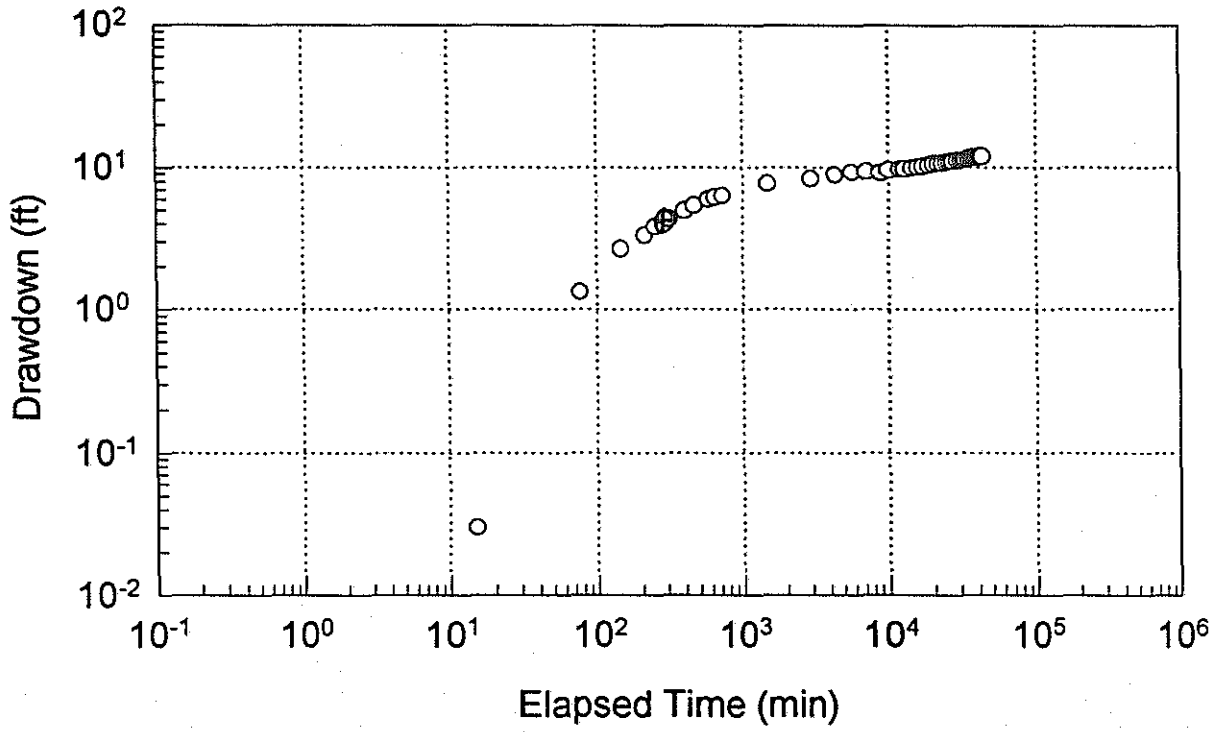
WELL	UC15D	UC15D	UC15D
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	0.21	0.21	0.21
DRAWDOWN [s] [ft]	0.78	0.78	0.78
TRANSMISSIVITY [T] [gal/day/ft]	1543	1543	1543
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	2.4E-04	1.8E-04	1.5E-04

UC15S Pump Test Data



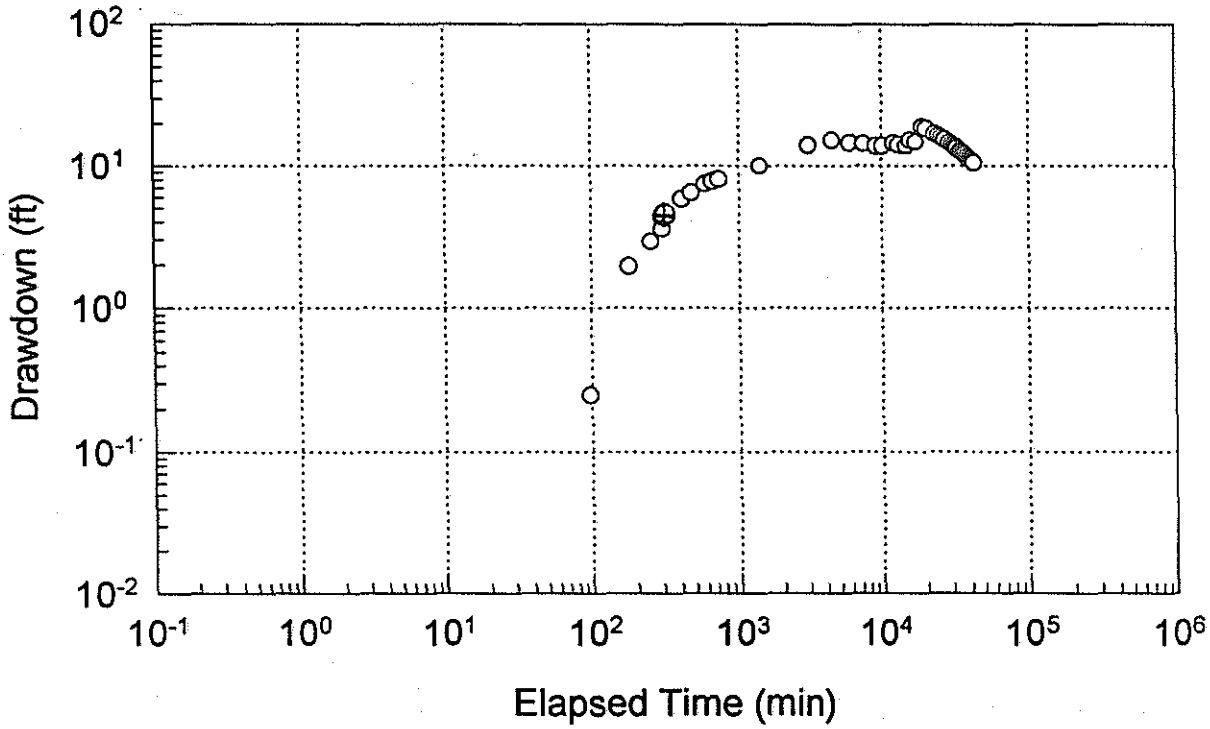
WELL	UC15S	UC15S	UC15S
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	0.1	0.1	0.1
DRAWDOWN [s] [ft]	0.8	0.8	0.8
TRANSMISSIVITY [T] [gal/day/ft]	716	716	716
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	1.1E-04	8.4E-05	6.8E-05

UC18 Pump Test Data



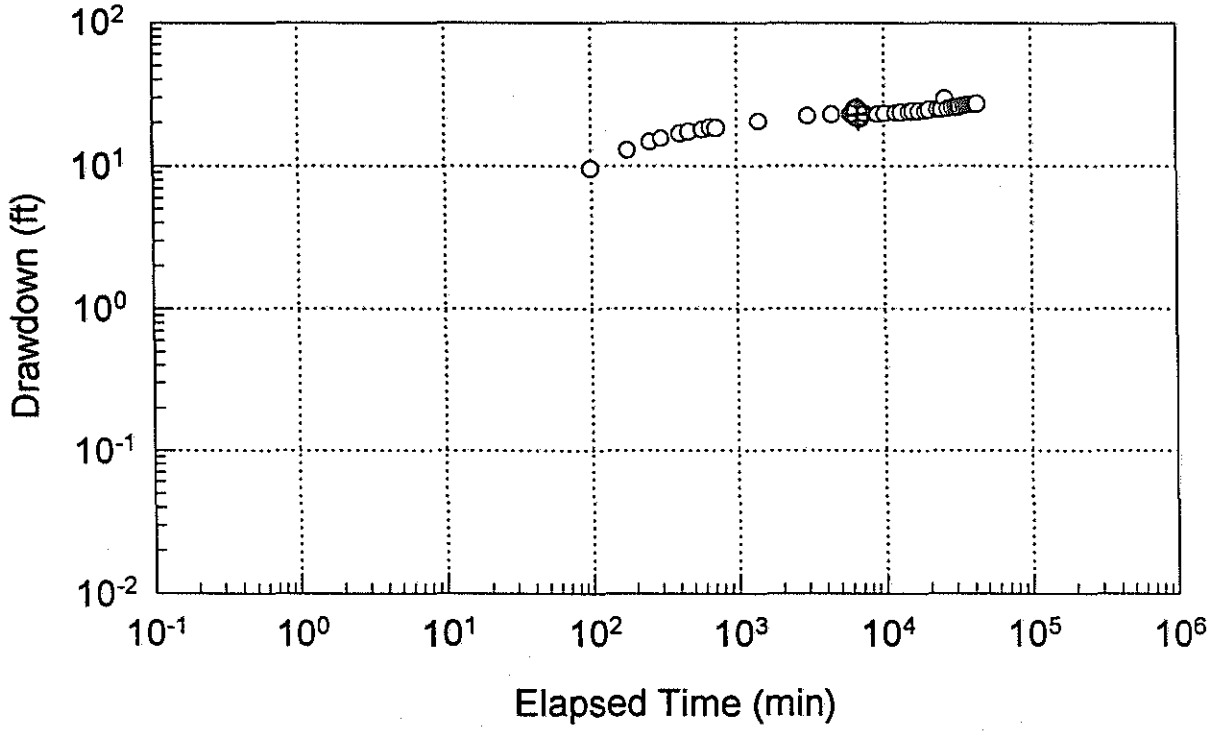
WELL	UC18	UC18	UC18
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	1.3	1.3	1.3
DRAWDOWN [s] [ft]	4.2	4.2	4.2
TRANSMISSIVITY [T] [gal/day/ft]	1774	1774	1774
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	2.8E-04	2.1E-04	1.7E-04

UC23-2 Pump Test Data



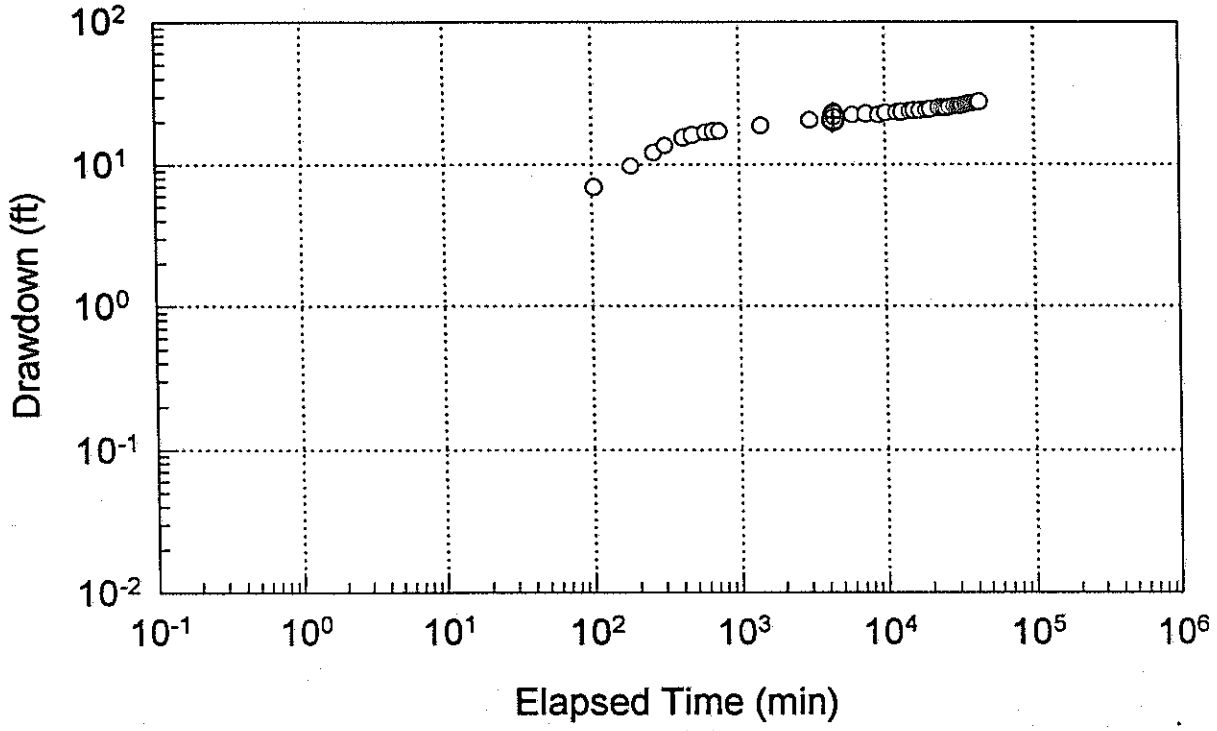
WELL	UC23-2	UC23-2	UC23-2
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	0.52	0.52	0.52
DRAWDOWN [s] [ft]	4.1	4.1	4.1
TRANSMISSIVITY [T] [gal/day/ft]	727	727	727
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	1.1E-04	8.6E-05	6.9E-05

UC23-3 Pump Test Data



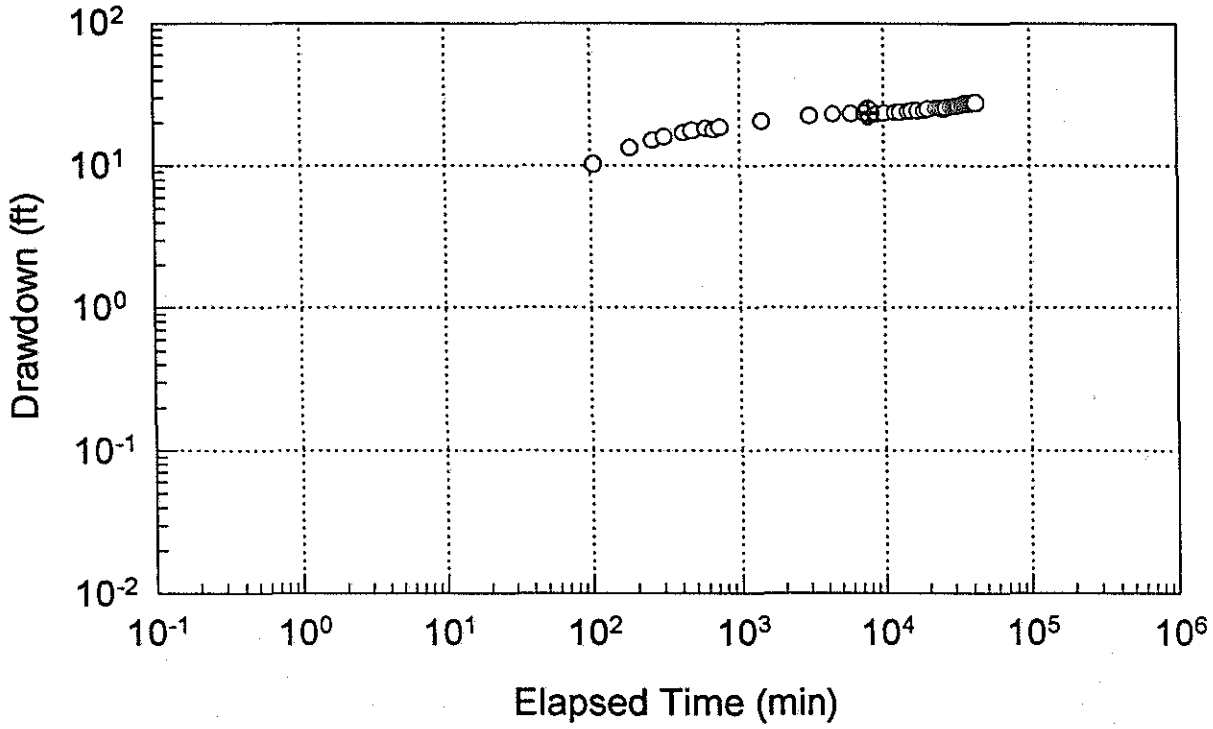
WELL	UC23-3	UC23-3	UC23-3
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	7	7	7
DRAWDOWN [s] [ft]	22	22	22
TRANSMISSIVITY [T] [gal/day/ft]	1823	1823	1823
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	2.9E-04	2.1E-04	1.7E-04

UC23-4 Pump Test Data



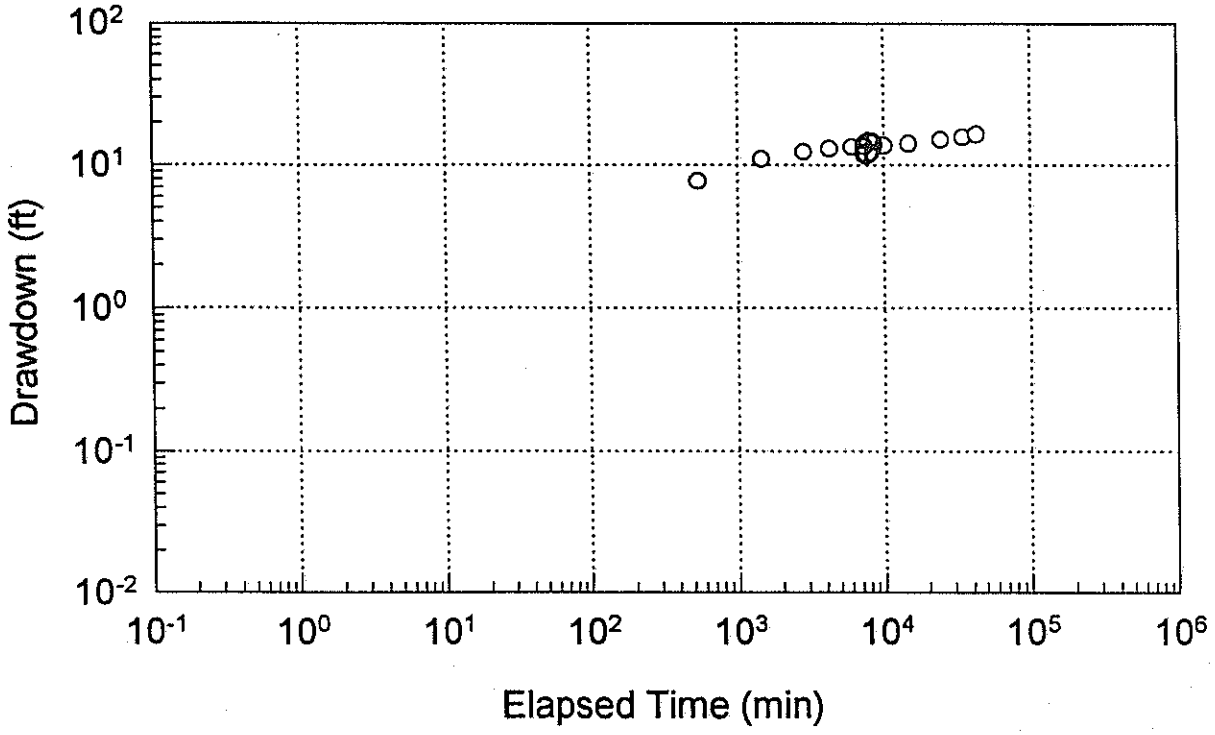
WELL	UC23-4	UC23-4	UC23-4
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	6.5	6.5	6.5
DRAWDOWN [s] [ft]	20	20	20
TRANSMISSIVITY [T] [gal/day/ft]	1862	1862	1862
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	2.9E-04	2.2E-04	1.8E-04

UC23-5 Pump Test Data



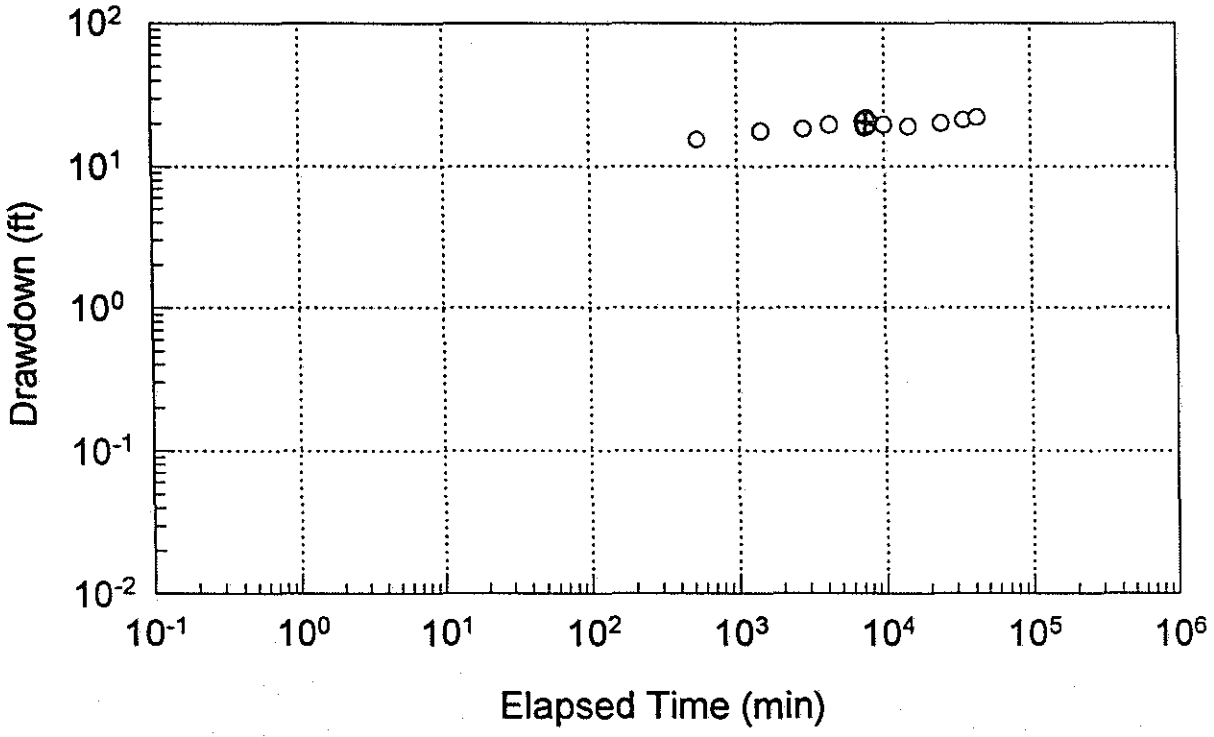
WELL	UC23-5	UC23-5	UC23-5
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	8	8	8
DRAWDOWN [s] [ft]	21	21	21
TRANSMISSIVITY [T] [gal/day/ft]	2183	2183	2183
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.4E-04	2.6E-04	2.1E-04

UG1-3 Pump Test Data



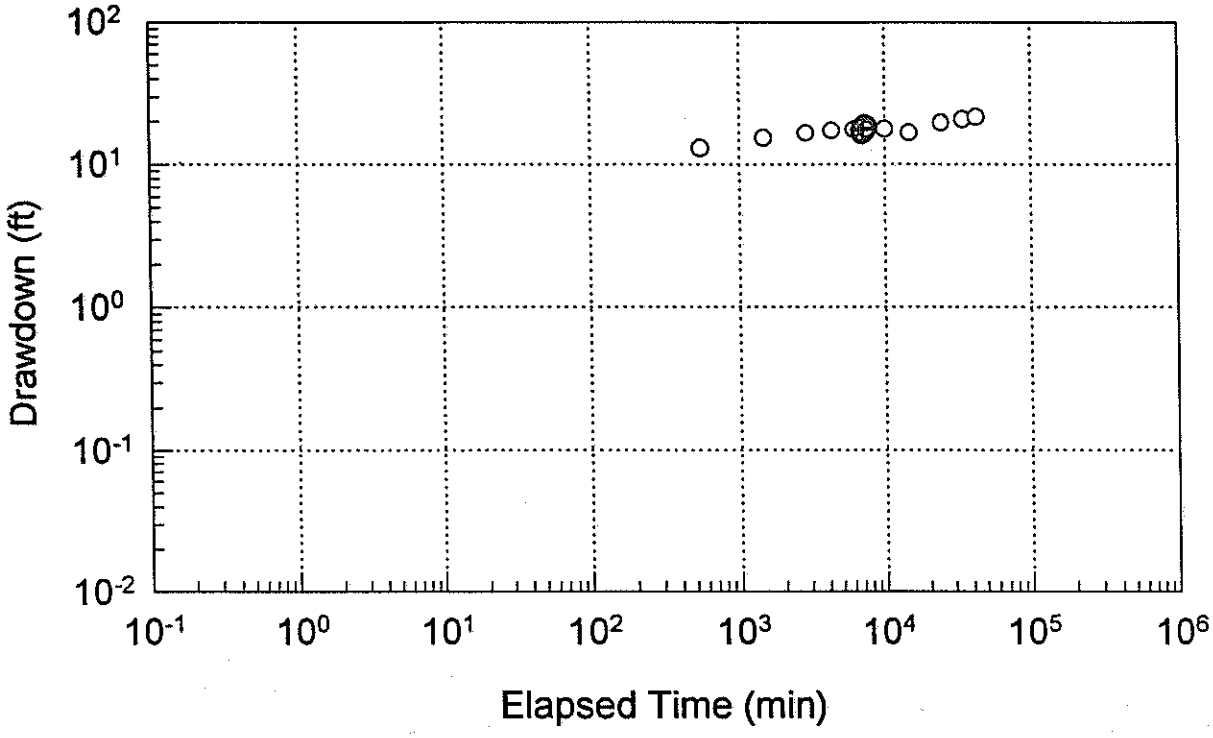
WELL	UG1-3	UG1-3	UG1-3
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	5.5	5.5	5.5
DRAWDOWN [s] [ft]	12	12	12
TRANSMISSIVITY [T] [gal/day/ft]	2626	2626	2626
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	4.1E-04	3.1E-04	2.5E-04

UG1-4 Pump Test Data



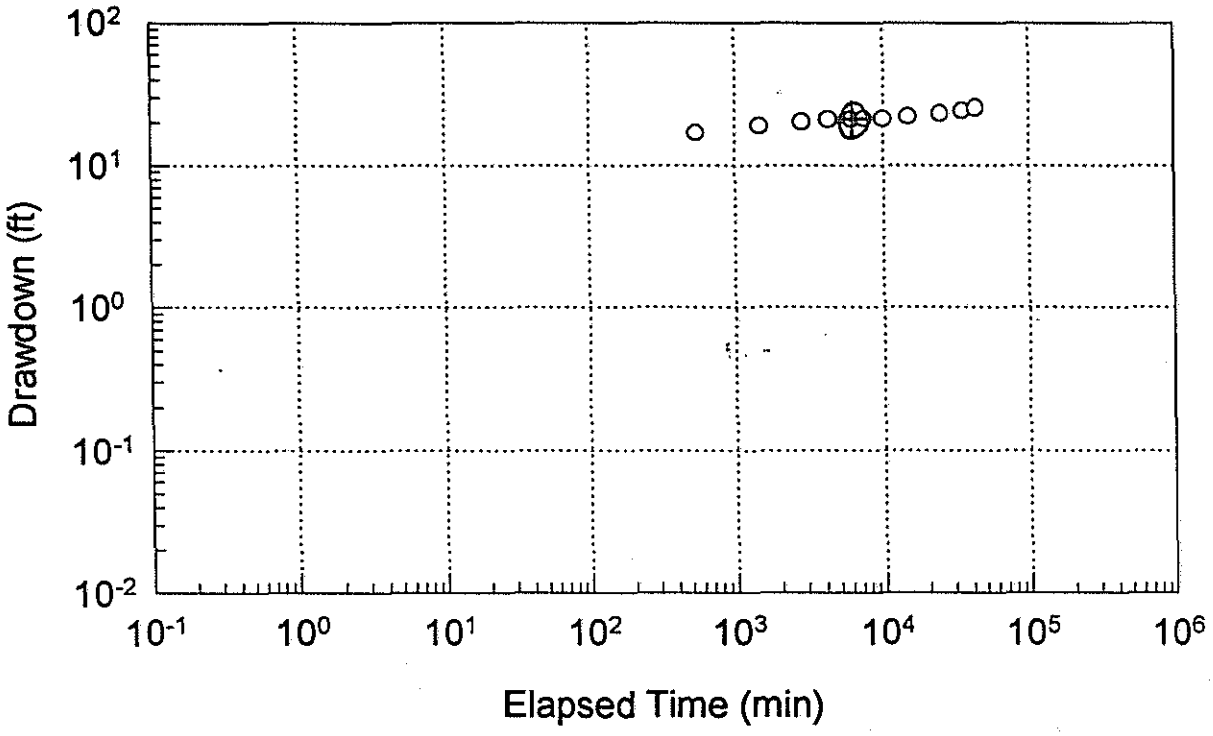
WELL	UG1-4	UG1-4	UG1-4
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	10	10	10
DRAWDOWN [s] [ft]	20	20	20
TRANSMISSIVITY [T] [gal/day/ft]	2865	2865	2865
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	4.5E-04	3.4E-04	2.7E-04

UG1-5 Pump Test Data



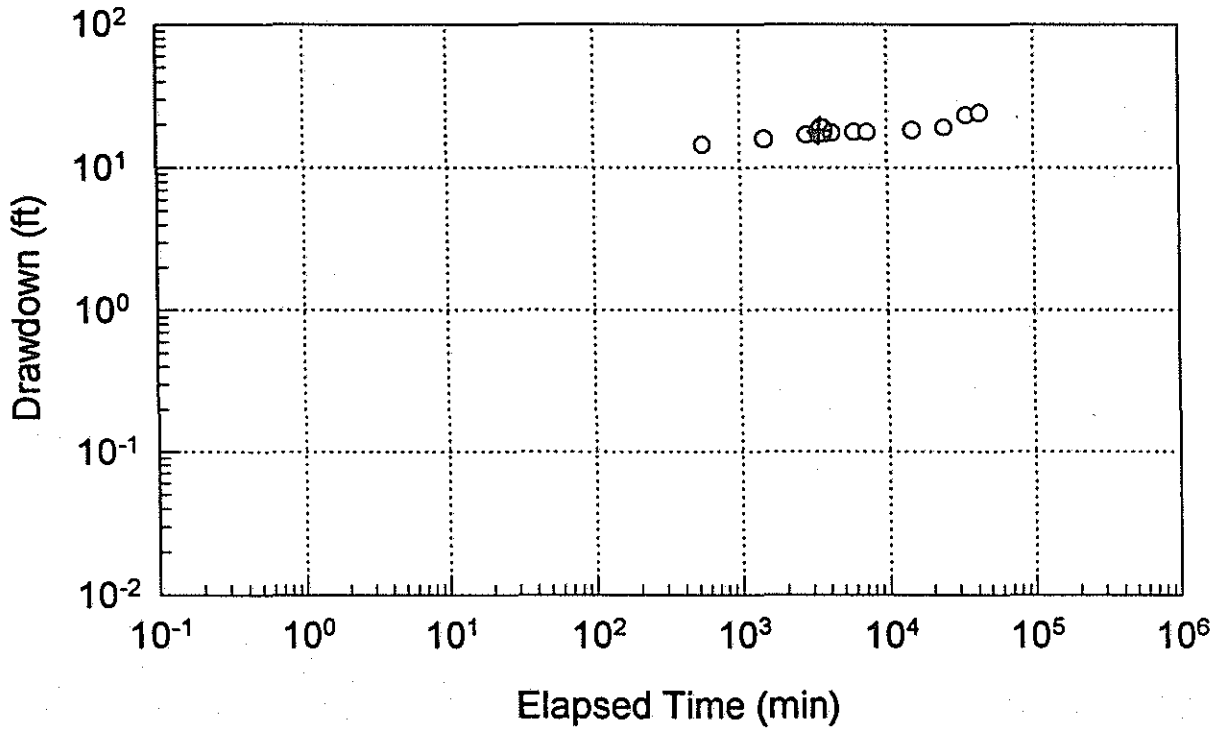
WELL	UG1-5	UG1-5	UG1-5
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	7	7	7
DRAWDOWN [s] [ft]	16	16	16
TRANSMISSIVITY [T] [gal/day/ft]	2507	2507	2507
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.9E-04	3.0E-04	2.4E-04

UG1-6 Pump Test Data



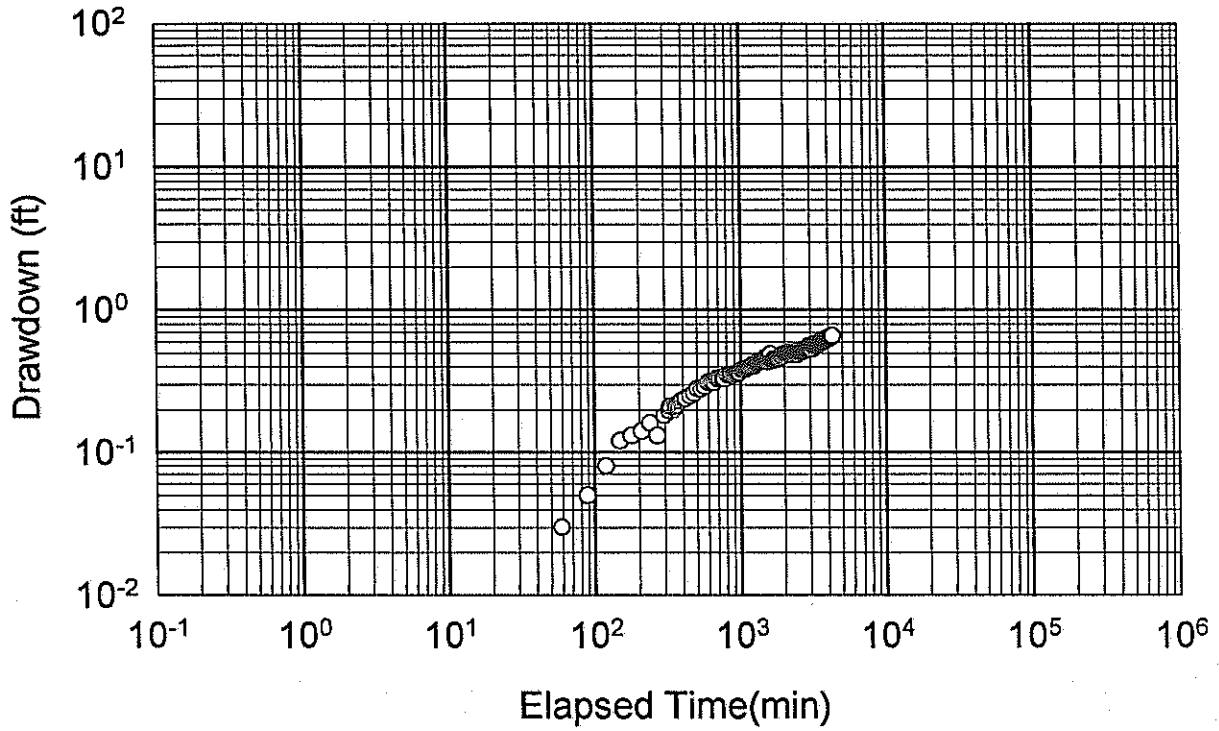
WELL	UG1-6	UG1-6	UG1-6
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	9	9	9
DRAWDOWN [s] [ft]	21	21	21
TRANSMISSIVITY [T] [gal/day/ft]	2456	2456	2456
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.9E-04	2.9E-04	2.3E-04

UG1-7 Pump Test Data



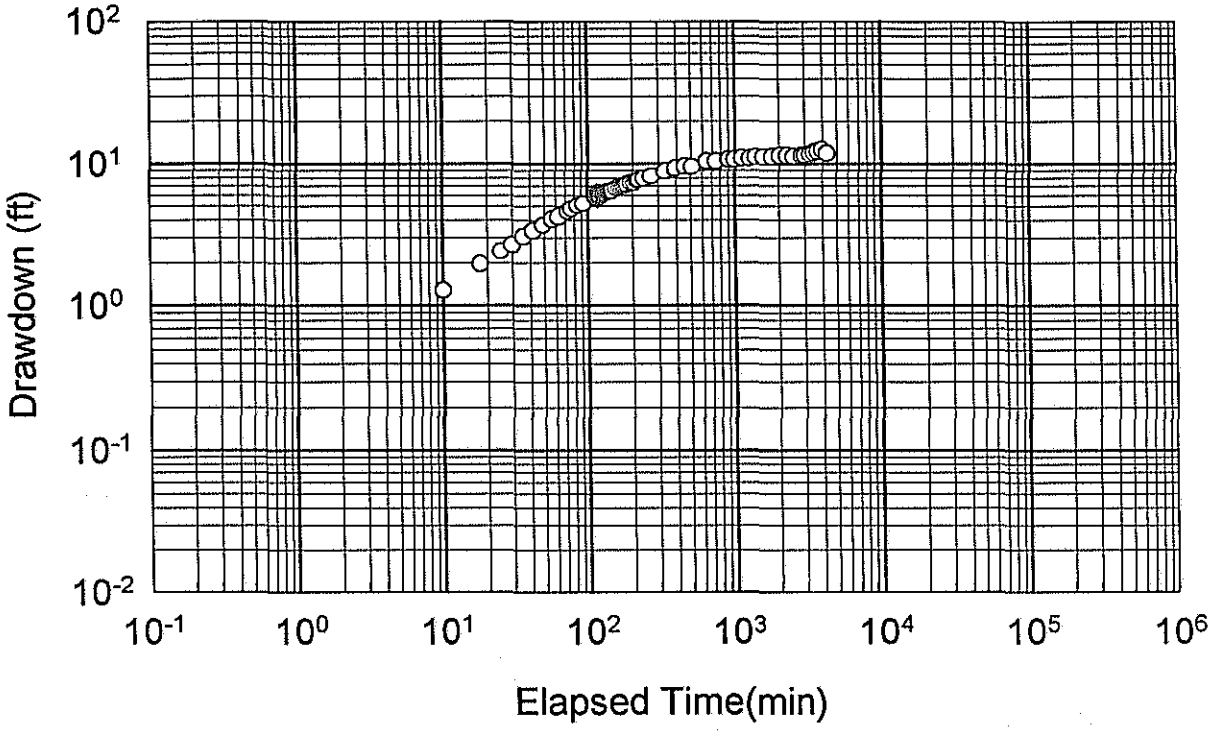
WELL	UG1-7	UG1-7	UG1-7
PUMPING RATE [Q] [gal/min]	50	50	50
WELL FUNCTION [W(u)]	6.5	6.5	6.5
DRAWDOWN [s] [ft]	17	17	17
TRANSMISSIVITY [T] [gal/day/ft]	2191	2191	2191
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	3.4E-04	2.6E-04	2.1E-04

G12D 72 Hour Pump Test Data



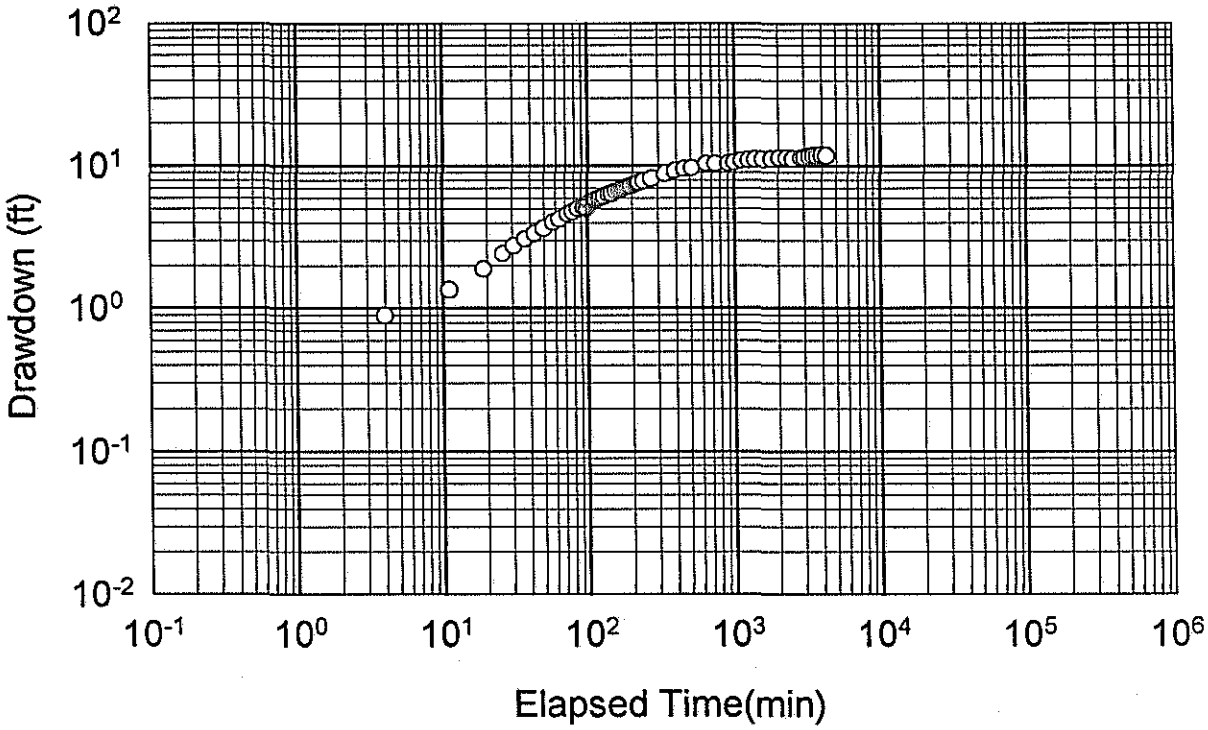
WELL (72 Hour)	GW12D	GW12D	GW12D
PUMPING RATE [Q] [gal/min]	20	20	20
WELL FUNCTION [W(u)]	0.57	0.57	0.57
DRAWDOWN [s] [ft]	0.4	0.4	0.4
TRANSMISSIVITY [T] [gal/day/ft]	3266	3266	3266
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	5.1E-04	3.9E-04	3.1E-04

UC7A-1 72 Hour Pump Test Data



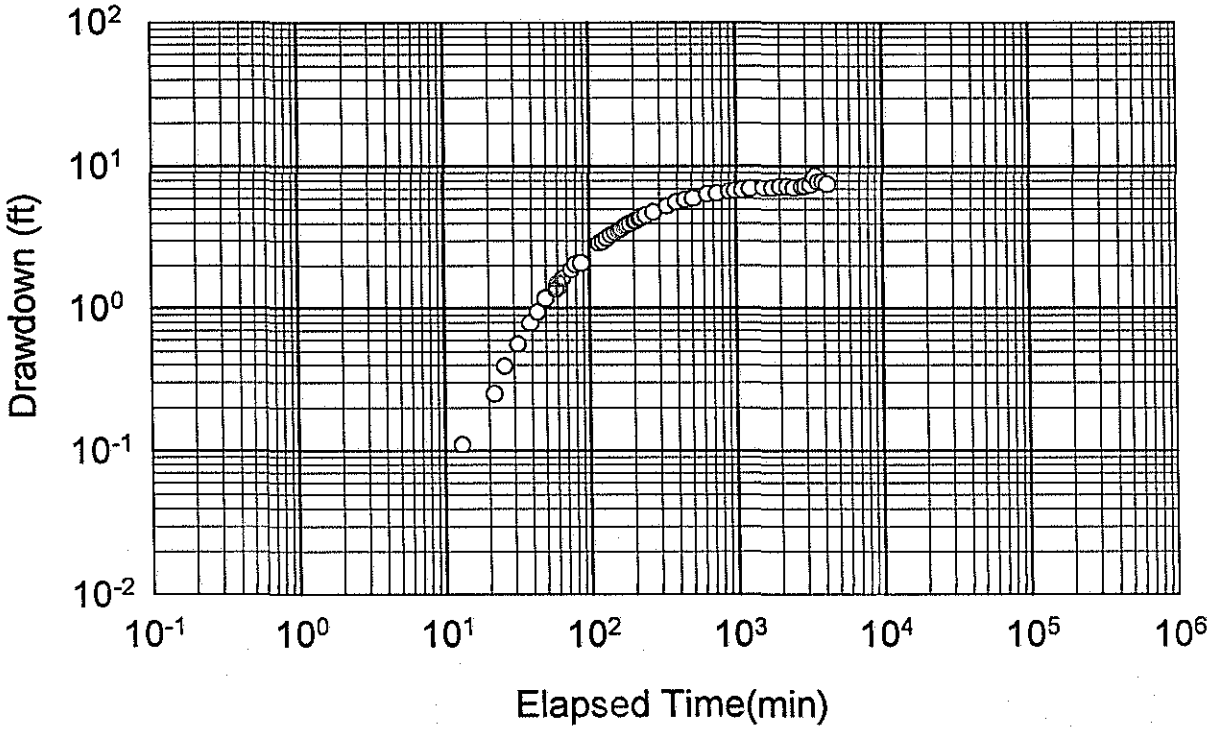
WELL (72 Hour)	UC7A-1	UC7A-1	UC7A-1
PUMPING RATE [Q] [gal/min]	20	20	20
WELL FUNCTION [W(u)]	1.8	1.8	1.8
DRAWDOWN [s] [ft]	6	6	6
TRANSMISSIVITY [T] [gal/day/ft]	688	688	688
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	1.1E-04	8.1E-05	6.5E-05

UC7A-2 72 Hour Pump Test Data



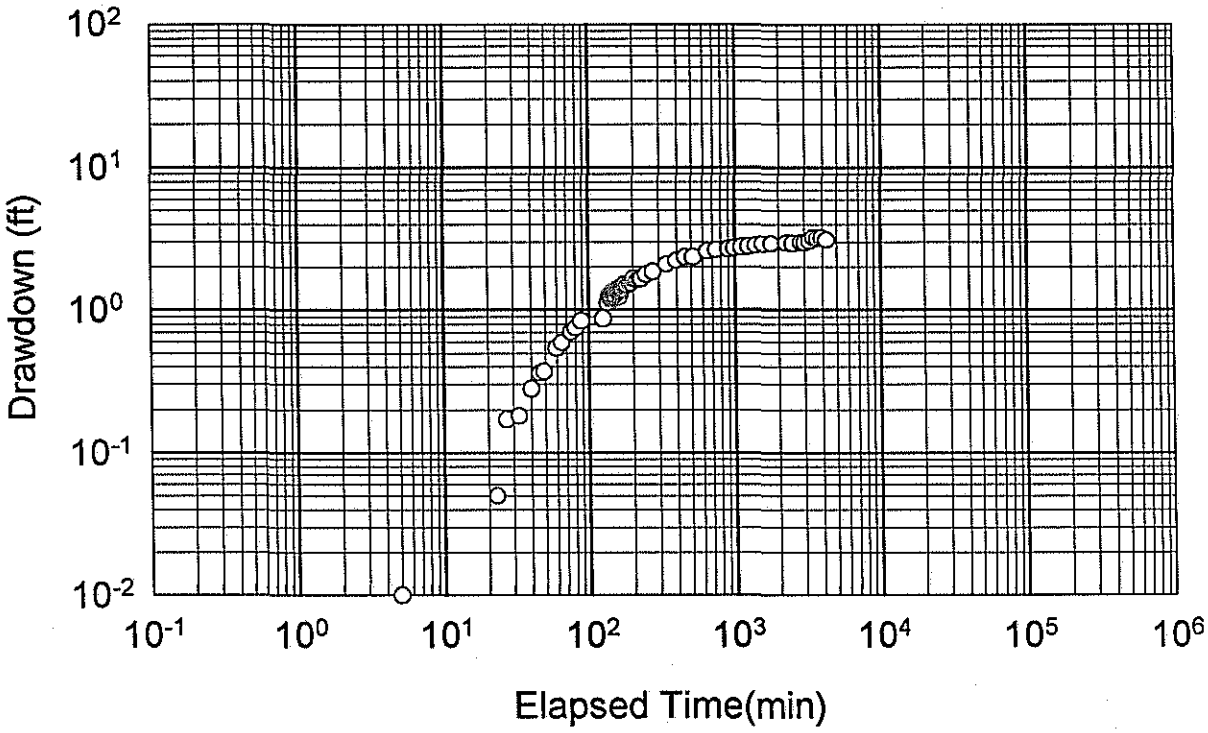
WELL (72 Hour)	UC7A-2	UC7A-2	UC7A-2
PUMPING RATE [Q] [gal/min]	20	20	20
WELL FUNCTION [W(u)]	1.7	1.7	1.7
DRAWDOWN [s] [ft]	5.1	5.1	5.1
TRANSMISSIVITY [T] [gal/day/ft]	764	764	764
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	1.2E-04	9.0E-05	7.2E-05

UC7A-3 72 Hour Pump Test Data



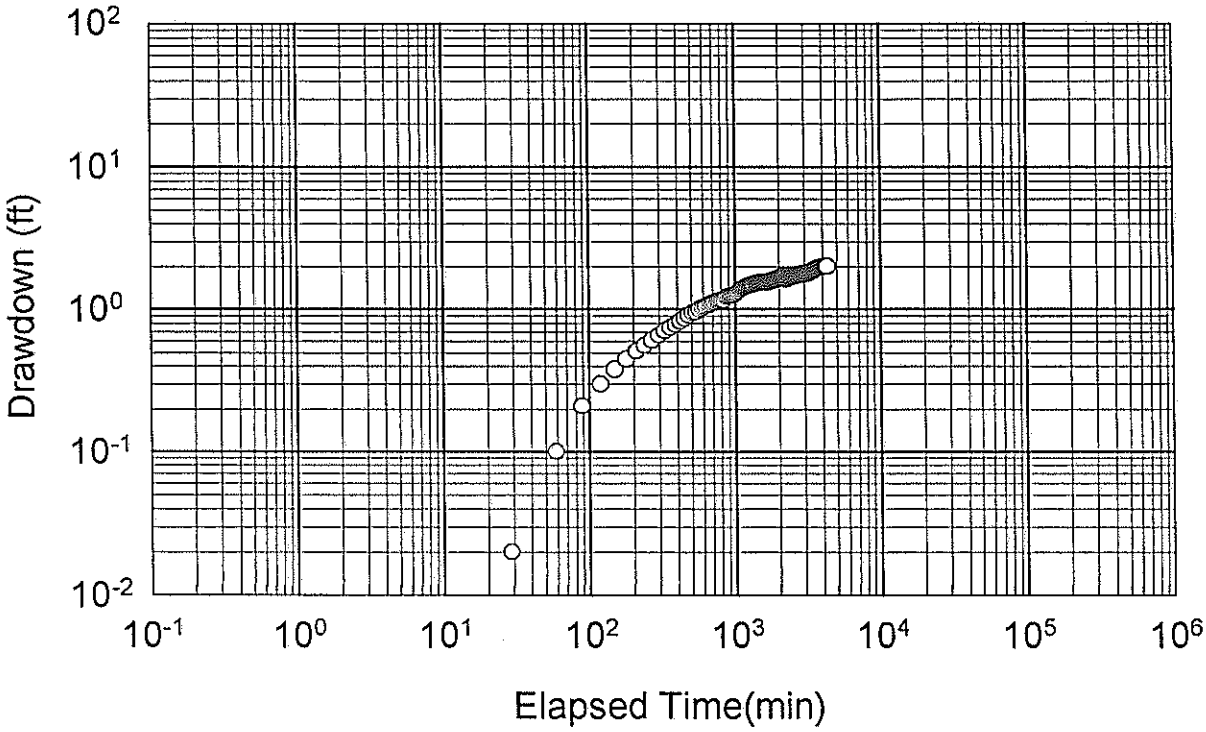
WELL (72 Hour)	UC7A-3	UC7A-3	UC7A-3
PUMPING RATE [Q] [gal/min]	20	20	20
WELL FUNCTION [W(u)]	0.4	0.4	0.4
DRAWDOWN [s] [ft]	1.5	1.5	1.5
TRANSMISSIVITY [T] [gal/day/ft]	611	611	611
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	9.6E-05	7.2E-05	5.8E-05

UC7A-4 72 Hour Pump Test Data



WELL (72 Hour)	UC7A-4	UC7A-4	UC7A-4
PUMPING RATE [Q] [gal/min]	20	20	20
WELL FUNCTION [W(u)]	0.9	0.9	0.9
DRAWDOWN [s] [ft]	1.4	1.4	1.4
TRANSMISSIVITY [T] [gal/day/ft]	1473	1473	1473
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	2.3E-04	1.7E-04	1.4E-04

G3DB 72 Hour Pump Test Data

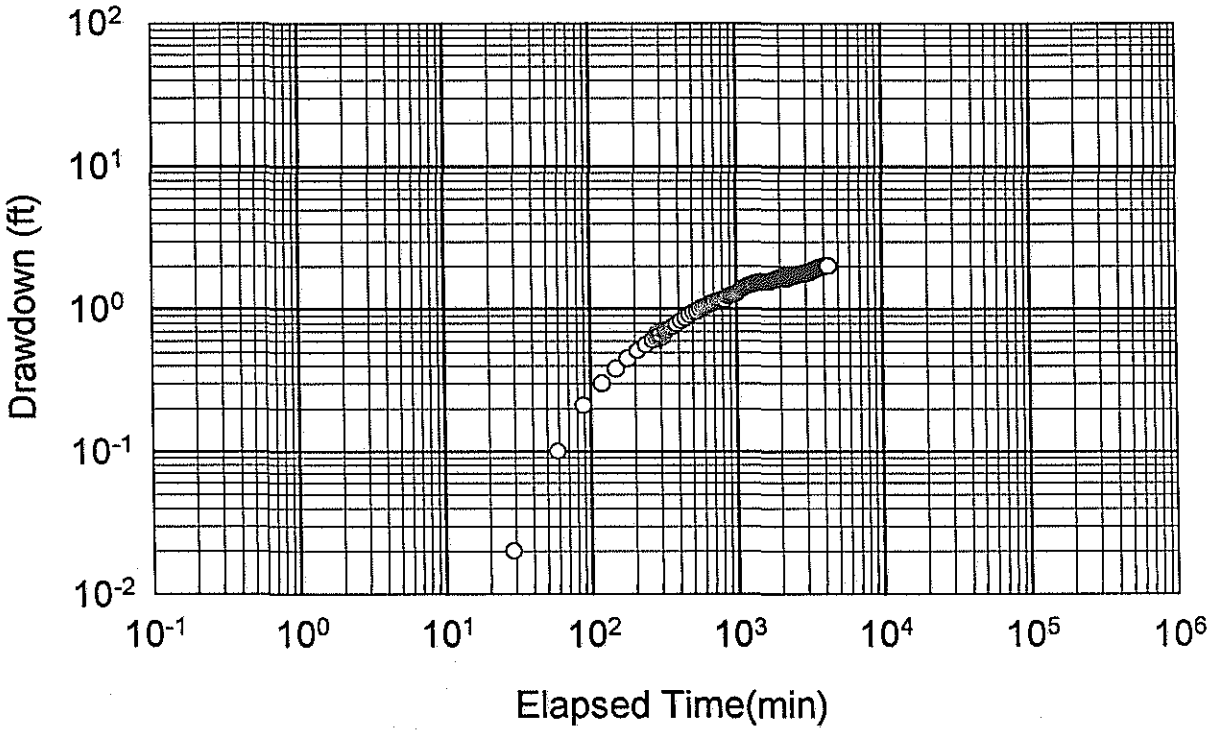


THIS PLOT HAS A CORRECTED TITLE. IT WAS G3DB2 72 hr. ---
didn't belong

ALSO, DISK HAS BEEN UPDATED WITH LATEST CHANGES.

G3DB

G3DB2 72 Hour Pump Test Data



WELL (72 Hour)	G3DB	G3DB	G3DB
PUMPING RATE [Q] [gal/min]	20	20	20
WELL FUNCTION [W(u)]	1	1	1
DRAWDOWN [s] [ft]	0.2	0.2	0.2
TRANSMISSIVITY [T] [gal/day/ft]	11460	11460	11460
AQUIFER DEPTH [D] [ft]	300	400	500
HYDRAULIC CONDUCTIVITY [K] [cm/sec]	1.8E-03	1.4E-03	1.1E-03

Appendix D

Unconsolidated Deposits and Bedrock Water-Level Data

Table D1 - Unconsolidated Deposits Water Level Data
May 1992
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft. NGVD 1929)
DP10	5/14/1992	89.88
DP11	5/14/1992	86.56
DP12	5/14/1992	85.34
DP13	5/14/1992	84.51
DP14	5/14/1992	55.50
DP18D	5/14/1992	59.27
DP18S	5/14/1992	59.32
DP19	5/14/1992	58.05
DP1D	5/14/1992	52.42
DP1S	5/14/1992	52.43
DP20	5/14/1992	72.98
DP21D	5/14/1992	71.98
DP21S	5/14/1992	71.85
DP22	5/14/1992	69.93
DP24D	5/14/1992	79.46
DP24S	5/14/1992	79.39
DP26	5/14/1992	56.51
DP28	5/14/1992	91.30
DP29	5/14/1992	90.44
DP2D	5/14/1992	47.81
DP2M	5/14/1992	47.67
DP2S	5/14/1992	49.33
DP3	5/14/1992	53.01
DP31	5/14/1992	63.90
DP32	5/14/1992	56.95
DP33	5/14/1992	46.10
DP35	5/14/1992	77.21
DP36	5/14/1992	55.77
DP37D	5/14/1992	52.59
DP37S	5/14/1992	52.28
DP38	5/14/1992	76.61
DP39	5/14/1992	64.53
DP4	5/14/1992	59.03
DP40	5/14/1992	82.74
DP41	5/14/1992	43.79
DP5	5/14/1992	59.69
DP6D	5/14/1992	61.85
DP6S	5/14/1992	57.75
DP7	5/14/1992	55.78
DP8	5/14/1992	60.26
DP9D	5/14/1992	90.51
DP9S	5/14/1992	90.52
EPA1	5/14/1992	44.03
EPA2	5/14/1992	47.58
EPA3	5/14/1992	51.70
G10S	5/12/1992	90.37
G11S	5/12/1992	75.98
G12S	5/12/1992	75.24
G13S	5/12/1992	79.45
G14S	5/12/1992	83.04
G15S	5/12/1992	88.48

Table D1 - Unconsolidated Deposits Water Level Data
May 1992
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft. NGVD 1929)
G16S	5/12/1992	91.75
G17S	5/12/1992	94.93
G18S	5/12/1992	93.69
G19M	5/12/1992	90.13
G19S	5/12/1992	93.87
G1S	5/12/1992	89.39
G20M	5/12/1992	88.94
G20S	5/12/1992	91.67
G21S	5/12/1992	75.74
G22S	5/12/1992	74.77
G23S	5/12/1992	74.79
G24S	5/12/1992	85.59
G25S	5/12/1992	90.21
G26S	5/12/1992	90.74
G27S	5/12/1992	93.66
G28S	5/12/1992	78.27
G29S	5/12/1992	95.98
G2M	5/12/1992	89.83
G2S	5/12/1992	90.81
G31S	5/12/1992	92.15
G32S	5/12/1992	90.99
G34S	5/12/1992	84.17
G35S	5/12/1992	82.56
G3S	5/12/1992	72.21
G4S	5/12/1992	84.77
G5S	5/12/1992	86.45
G6A	5/12/1992	90.52
G6B	5/12/1992	92.02
G6C	5/12/1992	90.47
G6S	5/12/1992	89.95
G7S	5/12/1992	88.48
G8S	5/12/1992	95.20
G9S	5/12/1992	90.38
GO1S	5/14/1992	60.33
IUS2B	5/14/1992	56.08
IUS2C	5/14/1992	56.52
IUS3A	5/14/1992	59.80
IUS3B	5/14/1992	59.69
IUS3C	5/14/1992	60.43
NEP101	5/14/1992	54.51
NEP102	5/14/1992	56.18
NEP103	5/14/1992	50.99
NEP104	5/14/1992	51.02
NEP108	5/14/1992	54.47
NEP109	5/14/1992	52.46
RW5	5/12/1992	82.90
S22	5/14/1992	82.79
S39	5/11/1992	44.00
S6	5/14/1992	55.25
S63S	5/14/1992	58.73
S64M	5/11/1992	54.87

Table D1 - Unconsolidated Deposits Water Level Data
May 1992
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft. NGVD 1929)
S64S	5/11/1992	54.07
S65M	5/14/1992	57.50
S65S	5/14/1992	57.54
S67M	5/14/1992	69.57
S67S	5/14/1992	69.68
S68D	5/11/1992	43.92
S68S	5/11/1992	43.92
S70M	5/14/1992	57.50
S70S	5/14/1992	57.34
S71S	5/14/1992	60.89
S72M	5/14/1992	44.92
S72S	5/14/1992	44.92
S73S	5/14/1992	48.30
S74S	5/14/1992	47.28
S8	5/11/1992	43.83
S81M	5/14/1992	51.47
S81S	5/14/1992	52.46
S82	5/11/1992	49.16
S84D	5/11/1992	44.79
S84M	5/11/1992	43.96
S84S	5/11/1992	43.94
S85M	5/11/1992	44.53
S85S	5/11/1992	44.36
S86D	5/11/1992	43.61
S86S	5/11/1992	42.59
S87D	5/11/1992	44.17
S87M	5/11/1992	44.15
S87S	5/11/1992	44.11
S89D	5/11/1992	44.01
S89M	5/11/1992	43.88
S89S	5/11/1992	43.87
S90M	5/11/1992	44.10
S90S	5/11/1992	44.18
S91D	5/11/1992	43.83
S91M	5/11/1992	43.92
S91S	5/11/1992	43.61
S93D	5/11/1992	43.59
S93M	5/11/1992	43.36
S93S	5/11/1992	43.31
S94D	5/11/1992	43.70
S94M	5/11/1992	43.70
S94S	5/11/1992	43.73
S97M	5/11/1992	44.57
S97S	5/11/1992	45.67
UC6	5/14/1992	57.43

Table D2 - Unconsolidated Deposits Water Level Data
September 2010
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
DP1D	9/13/2010	50.17
DP1S	9/13/2010	50.17
DP2D	9/13/2010	46.65
DP2M	9/13/2010	46.33
DP2S	9/13/2010	50.27
DP3	9/13/2010	59.51
DP36	9/13/2010	52.87
DP37D	9/13/2010	49.75
DP37S	9/13/2010	NM
G11S	9/13/2010	Dry (71.5')
G12S	9/13/2010	Dry (68.96')
G13S	9/13/2010	72.78
G16S	9/13/2010	92.12
G17S	9/13/2010	93.38
G19M	9/13/2010	70.94
G19S	9/13/2010	89.14
G1S	9/13/2010	81.86
G20M	9/13/2010	80.07
G20S	9/13/2010	84.10
G21S	9/13/2010	71.03
G22S	9/13/2010	Dry (61.99')
G23S	9/13/2010	Dry (67.44')
G24S	9/13/2010	81.36
G26S	9/13/2010	89.91
G28S	9/13/2010	71.27
G29S	9/13/2010	93.30
G2M	9/13/2010	90.92
G2S	9/13/2010	90.88
G37S	9/13/2010	82.3
G38S	9/13/2010	65.22
G39S	9/13/2010	65.89
G3S	9/13/2010	61.57
G5S	9/13/2010	86.00
G8S	9/13/2010	93.95
G9S	9/13/2010	90.40
GO1S	9/13/2010	Dry (55.86')
IUS2B	9/13/2010	54.05
IUS2C	9/13/2010	NM
IUS3A	9/13/2010	57.13
IUS3B	9/13/2010	57.66
IUS3C	9/13/2010	57.44
K42D	9/13/2010	49.54
K42M	9/13/2010	55.13
K42S	9/13/2010	NM
K55D	9/13/2010	NM
K55M	9/13/2010	63.14
K55S	9/13/2010	Dry (65.69')
K60D	9/13/2010	NM
K60M	9/13/2010	58.20
K60S	9/13/2010	59.74

Table D2 - Unconsolidated Deposits Water Level Data
September 2010
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
S22	9/13/2010	Dry (55.11')
S63S	9/13/2010	53.90
S64M	9/13/2010	51.50
S64S	9/13/2010	50.81
S65M	9/13/2010	52.97
S65S	9/13/2010	Dry (54.02')
S67M	9/13/2010	65.62
S67S	9/13/2010	69.09
S70M	9/13/2010	68.59
S70S	9/13/2010	54.01
S71S	9/13/2010	56.41
S7R	9/13/2010	91.10
S81M	9/13/2010	48.87
S81S	9/13/2010	49.54
S82	9/13/2010	48.10
S97M	9/13/2010	43.94
S97S	9/13/2010	43.95
UC10D	9/13/2010	55.10
UC10M	9/13/2010	56.20
UC10S	9/13/2010	56.23
UC19M	9/13/2010	56.81
UC19S	9/13/2010	56.95
UC24D	9/13/2010	53.53
UC24S	9/13/2010	53.86
UC25	9/13/2010	Dry (59.93')
UC26D	9/13/2010	54.63
UC26S	9/13/2010	55.71
UC29D	9/13/2010	NM
UC29S	9/13/2010	56.36
UC30	9/13/2010	Dry (59.76')
UC31D	9/13/2010	53.03
UC31M	9/13/2010	NM
UC31S	9/13/2010	53.62
UC32	9/13/2010	Dry (67.22')
UC33	9/13/2010	62.87
UC34	9/13/2010	Dry (68.56')
UC35	9/13/2010	Dry (66.41')
UC36	9/13/2010	Dry (67.96')
UC6	9/13/2010	53.47
UC6S	9/13/2010	53.68
UG10	1/1/1900	55.62
UG11	9/13/2010	54.89
UG13	9/13/2010	73.59
UG14	9/13/2010	60.82
UG15	9/13/2010	66.00
UG16	9/13/2010	69.45
UG17	9/13/2010	54.02
UG18	9/13/2010	70.73
UG19	9/13/2010	Dry (62.25')
UG20	9/13/2010	61.59

Table D2 - Unconsolidated Deposits Water Level Data
September 2010
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
UG8	9/14/2010	52.32
UG9	9/14/2010	50.01

Notes:

NM - Not measured
Dry (##) - Value in parentheses indicates elevation at which dry measurement was recorded

Table D3 - Upper 100 Feet of Bedrock Water Level Data
May 1992
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
G10D	5/12/1992	92.45
G10DB	5/12/1992	89.47
G11D	5/12/1992	74.96
G12D	5/12/1992	73.40
G13D	5/12/1992	81.75
G14D	5/12/1992	82.51
G15D	5/12/1992	85.97
G16D	5/12/1992	85.02
G17D	5/12/1992	95.37
G18D	5/12/1992	93.74
G19D	5/12/1992	89.09
G1D	5/12/1992	88.71
G20D	5/12/1992	88.73
G21D	5/12/1992	73.55
G22D	5/12/1992	76.06
G23D	5/12/1992	74.85
G24D	5/12/1992	85.61
G25D	5/12/1992	89.51
G26D	5/12/1992	93.35
G27D	5/12/1992	93.18
G28D	5/12/1992	75.78
G2D	5/12/1992	90.71
G31D	5/12/1992	89.78
G34D	5/12/1992	82.39
G35D	5/12/1992	81.56
G35DB	5/12/1992	81.76
G36D	5/12/1992	72.28
G36DB	5/12/1992	71.29
G36S	5/12/1992	73.50
G3D	5/12/1992	72.29
G3DB	5/12/1992	71.40
G4D	5/12/1992	80.83
G5D	5/12/1992	86.69
G7D	5/12/1992	89.39
GO1D	5/14/1992	60.47
GO1DB	5/14/1992	63.35
IUS1	5/14/1992	74.26
IUS2A	5/14/1992	56.05
NEP101B	5/14/1992	53.75
NEP102B	5/14/1992	55.56
NEP103B	5/14/1992	61.39
NEP104B	5/14/1992	50.01
NEP105B	5/14/1992	59.80

Table D3 - Upper 100 Feet of Bedrock Water Level Data
May 1992
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
NEP108B	5/14/1992	55.38
NEP110B	5/14/1992	48.97
RW1	5/12/1992	85.40
RW10	5/12/1992	72.81
RW2	5/12/1992	84.10
RW3	5/12/1992	82.09
RW4	5/12/1992	82.00
RW6	5/12/1992	81.56
RW7	5/12/1992	73.38
RW8	5/12/1992	73.17
RW9	5/12/1992	72.97
S63D	5/14/1992	58.69
S64D	5/11/1992	54.73
S65DR	5/11/1992	56.45
S66D	5/14/1992	57.54
S67D	5/14/1992	67.90
S69D	5/14/1992	60.70
S70D	5/14/1992	57.76
S71D	5/14/1992	60.92
S72D	5/14/1992	44.98
S73D	5/14/1992	48.26
S74D	5/14/1992	47.23
S81D	5/14/1992	49.14
S90D	5/11/1992	44.06
S97D	5/11/1992	44.96
UC10-3	5/12/1992	63.51
UC10-4	5/12/1992	63.68
UC10-5	5/12/1992	59.94
UC10-6	5/12/1992	57.26
UC11-6	5/12/1992	59.39
UC15S	5/14/1992	59.88
UC16	5/14/1992	65.16
UC17	5/14/1992	66.50
UC18	5/14/1992	64.23
UC19	5/14/1992	61.53
UC20	5/14/1992	65.45
UC4	5/14/1992	68.01
UC5	5/14/1992	65.21
UC7A-2	5/13/1992	61.65
UC7A-3	5/13/1992	60.35
UC7A-4	5/13/1992	59.21
UC7A-5	5/13/1992	64.18
UC8	5/14/1992	69.07
UC9-4	5/12/1992	63.60
UC9-6	5/12/1992	69.08
UG1-7	5/13/1992	62.34

Table D4 - Upper 100 Feet of Bedrock Water Level Data
September 2010
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
G11D	9/13/2010	65.96
G12D	9/13/2010	Dry (49.11')
G13D	9/13/2010	73.63
G16D	9/13/2010	82.30
G17D	9/13/2010	92.91
G19D	9/13/2010	68.91
G1D	9/13/2010	79.01
G1DB	9/13/2010	76.21
G20D	9/13/2010	78.89
G21D	9/13/2010	50.91
G22D	9/13/2010	50.67
G23D	9/13/2010	65.68
G24D	9/13/2010	81.44
G26D	9/13/2010	90.37
G28D	9/13/2010	63.00
G2D	9/13/2010	91.03
G36D	9/13/2010	48.67
G36DBR	9/13/2010	45.49
G36S	9/13/2010	55.14
G37D	9/13/2010	80.64
G38D	9/13/2010	65.25
G39D	9/13/2010	66.00
G3D	9/13/2010	48.88
G5D	9/13/2010	87.88
GO1D	9/13/2010	53.23
GO1DB	9/13/2010	32.96
IUS1	9/14/2010	Dry (61.38')
IUS2A	9/13/2010	53.90
RW10	9/13/2010	59.51
RW11	9/13/2010	47.41
RW12	9/13/2010	Dry (54.46')
RW13	9/13/2010	62.73
RW14	9/13/2010	<63.05'
RW15	9/13/2010	62.46
RW16	9/13/2010	63.73
RW17	9/13/2010	60.80
RW18	9/13/2010	61.66
RW19	9/13/2010	61.21
RW20	9/13/2010	66.05
RW21	9/13/2010	59.13
RW22	9/13/2010	42.72
RW7	9/13/2010	50.12
RW8	9/13/2010	49.02
RW9	9/13/2010	49.89
S21	9/13/2010	53.51
S63D	9/13/2010	Dry (35.42')
S64D	9/13/2010	51.30
S65DR	9/13/2010	52.34
S66D	9/13/2010	53.47
S67D	9/13/2010	61.31
S69D	9/13/2010	55.04

Table D4 - Upper 100 Feet of Bedrock Water Level Data
September 2010
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft, NGVD 1929)
S70D	9/13/2010	53.61
S71D	9/13/2010	55.28
S81D	9/13/2010	47.57
S97D	9/13/2010	44.13
UC10-4	9/14/2010	46.13
UC12-5	9/13/2010	NM
UC15S	9/13/2010	50.73
UC16	9/13/2010	55.54
UC17	9/13/2010	54.57
UC18	9/13/2010	55.42
UC19	9/13/2010	51.83
UC20	9/13/2010	60.39
UC4	9/13/2010	62.89
UC5	9/13/2010	62.44
UC7A-2	9/13/2010	23.19
UC7A-3	9/13/2010	33.07
UC7A-4	9/13/2010	49.39
UC7A-5	9/13/2010	67.65
UC8	9/13/2010	63.92
UG12	9/13/2010	56.34
UG1-7	9/14/2010	40.06

Notes:

NM - Not measured
Dry (##) - Value in parentheses indicates elevation at which dry measurement was recorded
< ## - Water level is below the level of possible measurement

Table D5 - Deep Bedrock Water Level Data
May 1992
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft. NGVD 1929)
G36DB2	5/12/1992	64.16
G3DB2	5/12/1992	64.71
G3DB3	5/12/1992	84.13
UC10-2	5/12/1992	63.09
UC11-2	5/12/1992	59.53
UC12-2	5/12/1992	33.71
UC12-3	5/12/1992	64.82
UC15D	5/14/1992	63.84
UC23-1	5/13/1992	79.44
UC23-2	5/13/1992	63.68
UC23-3	5/13/1992	59.00
UC23-4	5/13/1992	62.76
UC23-5	5/13/1992	63.28
UC7A-1	5/13/1992	61.60
UC9-2	5/12/1992	65.36
UG1-1	5/13/1992	37.33
UG1-2	5/13/1992	61.61
UG1-3	5/13/1992	61.35
UG1-4	5/13/1992	62.54
UG1-5	5/13/1992	62.62
UG1-6	5/13/1992	62.31

Table D6 - Deep Bedrock Water Level Data
September 2010
(Source: GeoTrans, 2010)

Well Name	Measurement Date	Water Level Elevation (ft. NGVD 1929)
G1DB2	9/13/2010	46.57
G1DB3	9/13/2010	93.59
G2DB	9/13/2010	91.11
G2DB2	9/13/2010	91.11
G36DB2	9/13/2010	49.52
UC10-1	9/14/2010	39.42
UC10-2	9/14/2010	38.61
UC11-2	9/14/2010	46.14
UC12-2	9/13/2010	NM
UC15D	9/13/2010	30.35
UC22	9/13/2010	7.23
UC23-1	9/13/2010	28.10
UC23-2	9/13/2010	28.60
UC23-3	9/13/2010	14.45
UC23-4	9/13/2010	44.80
UC23-5	9/13/2010	64.40
UC7A-1	9/13/2010	23.19
UG1-1	9/14/2010	41.35
UG1-2	9/14/2010	42.18
UG1-4	9/14/2010	53.37
UG1-5	9/14/2010	37.16

Notes: NM - Not measured

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
AB1	12/10/87	2.00	46.2	48.65	42.2	37.2	
AB2M	8/12/93	2.00	46.2	48.81	-11.8	-21.8	
AB2R	8/10/93	2.00	46.3	48.61	-75.7	-85.7	
AB2SS	8/3/93	2.00	46.2	48.35	43.2	33.2	
B1	1/8/85	1.50	53	52.805	49	39	
B2	1/1/85	NA	50.2	49.78	NA	NA	
B2A	NA	NA	50.4	50.28	NA	NA	
B3	1/1/85	NA	50.8	50.7	NA	NA	
B3A	NA	NA	52.2	51.95	NA	NA	
B4	1/9/85	1.50	43.3	NA	38	28	
B5	1/9/85	1.50	52.2	51.945	47.2	37.2	
BCW10	9/25/85	2.00	46.31	48.93	17.31	12.31	
BCW13	10/17/85	2.00	46.39	48.42	1.38	-3.61	
BCW14	11/14/85	2.00	44.87	47.08	-12.63	-17.63	
BCW8	10/3/85	2.00	45.21	47.8	-7.79	-12.79	
BDW6	4/14/93	2.00	NA	48.33	NA	NA	
BMW17	4/9/93	2.00	NA	47.81	NA	NA	
BOW10	9/19/85	2.00	46.56	48.97	44.06	34.06	
BOW13	10/19/85	2.00	46.23	49.05	42.53	32.53	
BOW14	11/15/85	2.00	44.78	47.57	40.78	30.78	
BOW15	9/2/92	2.00	44.5	46.73	24.5	14.5	
BOW16	8/25/92	2.00	45.4	47.76	10.4	0.39	
BOW8	10/4/85	2.00	45.24	47.66	42.24	32.24	
BOW9	10/10/85	2.00	46.16	48.94	42.16	32.16	
BSSW15	9/10/92	2.00	44.9	46.87	42.4	32.4	
BSSW16	8/25/92	2.00	45.4	47.92	42.9	32.9	
BSSW17	4/9/93	2.00	NA	48.25	NA	NA	
BSSW5	9/16/92	2.00	45.3	47.63	42.8	32.8	
BSSW6	7/20/84	2.00	46.38	48.01	34.78	29.98	
BSW1	8/31/83	2.00	45.24	47.74	20.24	10.24	
BSW10	9/26/85	2.00	46.23	49.18	29.23	24.23	
BSW12	9/19/85	2.00	45.32	47.14	16.82	11.82	
BSW13	10/18/85	2.00	46.56	49.82	28.56	23.56	
BSW14	11/15/85	2.00	45	47.31	21	16	
BSW2	8/30/83	2.00	45.06	47.57	35.06	25.06	
BSW6	7/17/84	2.00	45.97	48.24	25.97	21.17	
BSW7	7/24/84	2.00	45.71	47.52	36.71	31.91	
BSW8	10/5/85	2.00	45.02	47.62	27.02	22.02	
BSW9	10/9/85	2.00	46.19	48.82	26.19	21.19	
BUG1-1	4/23/93	2.00	50.5	53.815	-31.1	-32.7	
BUG1-10	4/23/93	0.75	50.5	53.78	38.1	36.1	
BUG1-11	4/23/93	0.75	50.5	53.74	47.1	42.1	
BUG1-2	4/23/93	0.75	50.5	53.78	-26.7	-27.7	
BUG1-3	4/23/93	0.75	50.5	53.8	-18.2	-20.2	
BUG1-4	4/23/93	0.75	50.5	53.78	-10.6	-12.6	
BUG1-5	4/23/93	0.75	50.5	53.77	-1.6	-3.6	
BUG1-6	4/23/93	0.75	50.5	53.78	6.1	4.1	
BUG1-7	4/23/93	0.75	50.5	53.778	13.6	11.6	
BUG1-8	4/23/93	0.75	50.5	53.75	21.8	19.8	
BUG1-9	4/23/93	0.75	50.5	53.803	29.9	27.9	
BW1	8/18/83	2.00	45.09	47.19	12.29	2.29	
BW10	9/26/85	2.00	46.57	48.99	1.57	-8.43	
BW11	8/28/85	2.00	46.18	48.4	17.18	12.18	
BW12	9/18/85	2.00	45.13	47.43	-29.87	-34.87	
BW13	10/14/85	2.00	46.62	49.25	-15.18	-20.18	
BW14	11/15/85	2.00	44.65	46.77	-30.35	-40.35	
BW15R	9/8/92	2.00	45	46.91	-8.5	-18.5	
BW16R	8/24/92	2.00	45.2	48.03	-77.8	-87.8	
BW17R	4/7/93	2.00	NA	47.36	NA	NA	
BW17RD	9/1/94	4.00	45.5	47.43	-33	-53	
BW18R	9/1/94	2.00	45.7	47.47	0.2	-9.8	
BW18RD	9/1/94 [3,4]	NA	46	48.75	NA	NA	
BW18RD-L	9/1/94	4.00	NA	NA	NA	NA	
BW18RD-U	9/1/94	8.00	NA	NA	NA	NA	
BW2	8/19/83	2.00	44.21	46.82	9.7	-0.29	
BW2R	9/9/92	2.00	45	47.32	-40	-50	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
BW3	8/26/83	2.00	45.07	47.16	11.27	1.27	
BW4	8/25/83	2.00	43.37	46.05	11.37	1.37	
BW5	9/24/83	2.00	45.39	47.79	15.39	5.39	
BW5R	9/16/92	2.00	45.2	47.5	-2.8	-12.8	
BW6R	9/21/92	2.00	46.7	48.67	9.2	-0.79	
BW6RD	9/1/94 [3,4]	NA	46.6	48.49	NA	NA	
BW6RD-L	9/1/94	8.00	NA	NA	NA	NA	
BW6RD-U	9/1/94	12.00	NA	NA	NA	NA	
BW7	7/23/84	2.00	45.85	47.47	16.15	6.45	
BW8	10/1/85	2.00	45.41	47.81	-20.59	-30.59	
BW9	10/8/85	2.00	45.94	48.66	11.94	1.94	
CHM1	7/26/90	1.50	53.9	53.355	50.9	40.9	
CHM10	4/24/92	1.50	53.4	53.205	28.4	18.4	
CHM11	4/24/92	1.50	53.3	53.305	50.3	40.3	
CHM12	4/24/92	1.50	51.4	51.425	51.4	41.4	
CHM13	4/27/92	1.50	50.6	50.305	47.9	37.9	
CHM14	4/27/92	1.50	51.5	51.63	48.5	38.5	
CHM15	4/27/90	1.50	54	53.74	49	39	
CHM16	4/27/90	1.50	53.5	53.43	52.5	42.5	
CHM17	4/27/90	1.50	52.1	51.975	50.1	40.1	
CHM18	4/27/90	1.50	50.8	50.74	50.8	40.8	
CHM19	4/27/90	1.50	51.9	51.82	51.9	41.9	
CHM2	7/26/90	1.50	56.1	55.87	56.1	45.6	
CHM3	7/26/90	1.50	56.5	56.915	56.5	47	
CHM4	7/26/90	1.50	51.1	50.755	51.1	43.1	
CHM5	10/3/90	1.50	52.7	52.535	49.3	39.3	
CHM6	10/3/90	1.50	NA	NA	NA	NA	
CHM7	10/3/90	1.50	53.7	53.405	48.8	38.8	
CHM8	10/3/90	1.50	53.4	53.255	52.2	42.2	
CHM9	10/3/90	1.50	52.7	52.645	52.7	43.4	
CHR1	NA	NA	53.8	53.83	NA	NA	
CHR2	NA	NA	53.9	53.89	NA	NA	
CHR3	NA	NA	53.9	53.88	NA	NA	
CHR4	NA	NA	53.5	53.5	NA	NA	
CHR5	NA	NA	53.6	53.62	NA	NA	
CHR6	NA	NA	53.7	53.66	NA	NA	
DP10	1/17/92	0.38	95	95.01	82.6	81.6	
DP11	1/20/92	0.38	94	93.775	84.4	83.4	
DP12	1/21/92	0.38	91.3	91.005	74.7	73.7	
DP13	1/21/92	0.38	89.4	89.195	79.3	78.3	
DP14	1/22/92	0.38	63.1	62.85	54.1	53.1	
DP15	1/23/92	0.38	69	68.92	63.2	62.2	
DP16	1/24/92	0.38	74.5	74.17	56.9	55.9	
DP17	1/27/92	0.38	75.4	75.02	68.3	67.3	
DP18D	1/29/92	0.38	73.4	73.19	48.4	47.4	
DP18S	1/28/92	0.38	73.1	73.1	55.6	54.6	
DP19	1/30/92	0.38	69.6	69.505	53.1	52.1	
DP1D	10/24/91	0.38	52.4	52.54	35.8	34.8	
DP1S	10/24/91	0.38	52.4	52.285	45.8	44.8	
DP20	1/30/92	0.38	80.7	80.465	64.6	63.6	
DP21D	2/3/92	0.38	79.4	79.055	60.6	59.6	
DP21S	2/3/92	0.38	79.3	79.09	68	67	
DP22	2/5/92	0.38	82.1	81.81	66	65	
DP23	2/6/92	0.38	84.9	84.58	78	77	
DP24D	2/7/92	0.38	84.5	84.355	71.7	70.7	
DP24S	2/7/92	0.38	84.5	84.355	74.1	73.1	
DP25	2/10/92	0.38	63.4	63.18	48.9	47.9	
DP26	2/13/92	0.38	69	68.735	51.3	50.3	
DP27	2/14/92	0.38	74.7	74.535	67.8	66.8	
DP28	2/15/92	0.38	97.7	97.55	88	87	
DP29	2/15/92	0.38	91.7	91.695	77.8	76.8	
DP2D	10/25/91	0.38	51.4	51.55	15.2	14.2	
DP2M	10/25/91	0.38	51.5	51.585	30.5	29.5	
DP2S	10/25/91	0.38	51.5	51.765	44.9	43.9	
DP3	10/28/91	0.38	59.8	59.635	45.6	44.6	
DP30	2/15/92	0.38	63.8	63.685	54.2	53.2	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
DP31	2/17/92	0.38	76.2	75.91	60.7	59.7	
DP32	2/18/92	0.38	64.8	64.59	52.8	51.8	
DP33	2/18/92	0.38	55.1	54.71	49.5	48.5	
DP34	2/19/92	0.38	86.1	85.88	81.4	80.4	
DP35	2/19/92	0.38	83.3	83.05	68.4	67.4	
DP36	2/20/92	0.38	59	58.785	51	50	
DP37D	2/20/92	0.38	59.8	59.535	42.8	41.8	
DP37S	2/20/92	0.38	59.9	59.58	45.8	44.8	
DP38	2/21/92	0.38	81.4	81.285	70.7	69.7	
DP39	2/25/92	0.38	70	69.725	59.2	58.2	
DP4	1/9/92	0.38	72.4	72.275	53.3	52.3	
DP40	2/27/92	0.38	87.3	87.285	78.8	77.8	
DP41	2/29/92	0.38	50.9	50.67	35.5	34.5	
DP5	1/9/92	0.38	72.2	72.025	56.3	55.3	
DP6D	1/9/92	0.38	68.8	68.715	41.2	40.2	
DP6S	1/10/92	0.38	68.4	68.375	51.2	50.2	
DP7	1/10/92	0.38	71.4	71.285	51.8	50.8	
DP8	1/13/92	0.38	75.3	74.985	53.4	52.4	
DP9D	1/16/92	0.38	95.6	95.475	85.5	84.5	
DP9S	1/16/92	0.38	95.6	95.35	89.2	88.2	
EPA1	11/24/87	2.00	58	60.19	38	28	
EPA2	12/2/87	2.00	60.4	62.59	40.9	30.9	
EPA3	12/1/87	2.00	60.9	62.93	45.9	35.9	
ESS-1	7/1/96	NA	NA	98.28	NA	NA	
ESS-10	7/1/96	NA	NA	89.8	NA	NA	
ESS-2	7/1/96	NA	NA	91.9	NA	NA	
ESS-3	7/1/96	NA	NA	93.81	NA	NA	
ESS-4	7/1/96	NA	NA	94.62	NA	NA	
ESS-5	7/1/96	NA	NA	93.85	NA	NA	
ESS-6	7/1/96	NA	NA	94.08	NA	NA	
ESS-7	7/1/96	NA	NA	92.15	NA	NA	
ESS-8	7/1/96	NA	NA	91.15	NA	NA	
ESS-9	7/1/96	NA	NA	91.4	NA	NA	
ESSBW-1	NA	NA	NA	93.85	NA	NA	
ESSBW-2	NA	NA	NA	93.28	NA	NA	
ESSBW-3	NA	NA	NA	94.11	NA	NA	
ESSBW-4	NA	NA	NA	92.13	NA	NA	
ESSBW-5	NA	NA	NA	91.43	NA	NA	
ESSBW-6	NA	NA	NA	91.15	NA	NA	
G10D	9/19/84	1.50	96.9	99.2	67.4	52.4	Abandoned - June 2006
G10DB	9/17/84	1.50	96.9	99.035	41.5	26.5	Abandoned - June 2006
G10S	9/11/84	2.00	97	98.88	82	72	Abandoned - June 2006
G11D	9/4/84	1.50	91.1	92.98	62.1	47.1	
G11S	9/1/84	2.00	91.4	93.475	75.4	70.4	
G12D	9/14/84	1.50	93.5	96.325	57.5	47.5	
G12S	9/18/84	2.00	93.5	96.265	78.5	68.5	
G13D	9/25/85	1.50	94	96.48	56.8	41.8	
G13S	9/26/85	2.00	94	96.17	77	67	
G14D	10/3/85	1.50	94.2	94.08	66.5	51.5	Abandoned - June 2006
G14S	10/4/85	2.00	94.2	93.91	82.4	72.4	Abandoned - June 2006
G15D	10/1/85	1.50	97.8	97.445	66.3	51.3	Abandoned - June 2006
G15S	10/2/85	2.00	97.7	97.39	83.7	73.7	Abandoned - June 2006
G16D	10/29/85	1.50	97.9	97.775	53.6	38.6	
G16S	10/22/85	2.00	97.9	97.8	77.8	67.8	
G17D	10/17/85	1.50	97.9	97.745	40.9	25.9	
G17S	10/18/85	2.00	97.9	97.59	60.7	50.7	
G18D	10/7/85	1.50	97.9	97.51	60.9	45.9	Abandoned - June 2006
G18S	10/9/85	2.00	98	97.425	76.2	66.2	Abandoned - June 2006
G19D	11/4/85	1.50	98	97.43	39.2	24.2	
G19M	11/6/85	2.00	98	97.48	63.5	53.5	
G19S	11/6/85	2.00	98	97.465	88	78	
G1D	6/17/85	2.00	97.9	100.45	56.4	46.4	
G1DB	6/16/88	1.25	97.1	96.52	6.1	1.1	
G1DB2	6/16/88	1.25	97	96.85	-38	-43	
G1DB3	6/16/88	1.25	97.1	96.51	-87.9	-92.9	
G1S	6/22/83	2.00	97.6	99.715	71.1	61.1	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
G20D	10/23/85	1.50	97	96.81	27	12	
G20M	10/24/85	2.00	96.9	96.65	48.5	38.5	
G20S	10/25/85	2.00	96.8	96.46	71.8	61.8	
G21D	10/10/85	1.50	95.1	95.03	62.1	47.1	
G21S	10/10/85	2.00	95.2	97.55	76.2	66.2	
G22D	9/12/85	1.50	93.8	96.18	56	41	
G22S	9/6/85	2.00	93.9	96.32	76.6	61.6	
G23D	10/18/85	1.50	91.5	91.14	59	44	
G23S	10/15/85	2.00	91.3	90.935	75.3	65.3	
G24D	10/7/85	1.50	96.2	96.58	64.2	49.2	
G24S	10/2/85	2.00	96.2	98.625	80.2	70.2	
G25D	10/11/85	1.50	97.4	97.02	64.7	49.7	Abandoned - June 2006
G25S	10/4/85	2.00	97.3	96.96	77.2	67.2	Abandoned - June 2006
G26D	9/18/85	1.50	97.4	100.155	72.4	57.4	
G26S	9/19/85	2.00	97.4	100.235	86.4	76.4	
G27D	9/21/85	1.50	97.5	98.765	72	57	Abandoned - June 2006
G27S	9/30/85	2.00	97.4	99.27	86.2	76.2	Abandoned - June 2006
G28D	9/25/85	1.50	94	93.91	64.5	49.5	
G28S	10/1/85	2.00	94	96.905	79.4	69.4	
G29S	1/10/86	2.00	96.5	96.135	86.8	71.8	
G2D	6/14/83	2.00	97.4	99.75	62.9	47.9	
G2DB	1/8/92	1.50	97.7	99.02	-113.8	-123.8	
G2DB2	12/23/91	1.50	97.5	99.97	-244	-254	
G2M	6/14/83	2.00	97.4	99.635	74.4	69.4	
G2S	6/14/83	2.00	97.6	100.085	88.6	78.6	
G30S	1/23/86	NA	NA	NA	NA	NA	Abandoned
G31D	1/17/86	1.50	97.5	99.88	64.5	49.5	Abandoned - June 2006
G31S	1/17/86	2.00	97.3	99.225	79.4	69.4	Abandoned - June 2006
G32S	1/21/86	2.00	97.8	99.88	82.8	72.8	Abandoned - June 2006
G34D	9/5/90	1.50	93.9	93.675	66.7	56.7	Abandoned - June 2006
G34S	9/6/90	2.00	94	93.695	82	72	Abandoned - June 2006
G35D	8/29/90	1.50	93.9	93.45	65.4	55.4	Abandoned - June 2006
G35DB	8/28/90	1.50	93.9	93.62	37.9	27.9	Abandoned - June 2006
G35S	8/30/90	2.00	93.9	93.62	80.9	70.9	Abandoned - June 2006
G36D	9/14/90	1.50	92.2	92.01	51.2	41.2	
G36DB	10/3/90	1.50	92	91.89	19.5	9.5	Abandoned, replaced by G36DBR in 1999
G36DB2	10/3/90	1.50	91.8	91.49	-115.2	-125.2	
G36DBR	9/17/99	2.00	NA	92.25	NA	NA	
G36S	9/12/90	2.00	92.8	94.725	64.8	54.8	
G37D	7/13/10	2.00	96.89	99.43	21.59	11.59	
G37S	7/13/10	2.00	96.89	99.56	53.59	43.59	
G38D	7/15/10	2.00	90.04	89.66	43.44	33.44	
G38S	7/15/10	2.00	90.04	89.69	66.24	56.24	
G39D	7/19/10	2.00	87.95	87.66	50.05	40.05	
G39S	7/19/10	2.00	87.95	87.59	72.55	62.55	
G3D	6/21/83	2.00	91	93.555	44.6	29.6	
G3DB	8/28/84	1.50	91.1	93	10.1	-4.9	Abandoned - June 2006
G3DB2	6/20/88	1.25	90.8	90.335	-62.2	-67.2	Abandoned - June 2006
G3DB3	6/20/88	1.25	90.9	90.63	-98.1	-103.1	Abandoned - November 2002
G3S	6/22/83	2.00	91	93.895	69	54	
G4D	6/9/83	2.00	93.2	95.445	63.7	48.7	Abandoned - June 2006
G4S	6/9/83	2.00	93.7	95.85	77.7	67.7	Abandoned - June 2006
G5D	6/13/83	2.00	93.6	95.75	67.6	52.6	
G5S	6/23/83	2.00	93.3	96.11	82.3	72.3	Damaged- 1996
G6A	1/1/85	NA	97.1	99.19	NA	NA	Abandoned - June 2006
G6B	1/1/85	NA	97	98.6	NA	NA	Abandoned - June 2006
G6C	1/1/85	NA	97	99.23	NA	NA	Abandoned - June 2006
G6S	6/15/83	6.00	97	97.375	NA	NA	Abandoned - June 2006
G7D	6/16/83	2.00	96.3	98.43	60.3	45.3	Abandoned - June 2006
G7S	6/23/83	2.00	96.6	99.03	90.6	75.6	Abandoned - June 2006
G8S	6/30/83	2.00	98.2	101.955	64.2	54.2	
G9S	8/28/84	2.00	95	97.22	82	77	
GO1D	10/4/84	1.50	73.2	72.95	48.9	33.9	
GO1DB	10/1/84	1.50	73.3	73.05	18.3	3.3	
GO1S	10/4/84	2.00	73.2	73.125	65.2	55.2	
IUS1	11/23/83	2.00	87.6	88.13	75.6	61.1	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
IUS2A	3/21/84	2.00	61.4	63.11	-9.6	-27.6	
IUS2B	3/13/84	2.00	61.2	62.58	21.2	6.2	
IUS2C	3/13/84	2.00	61.2	63.23	51.2	41.2	
IUS3A	4/2/84	2.00	66.7	66.845	19.7	3.7	
IUS3B	4/4/84	2.00	67	67.07	37	22	
IUS3C	4/6/84	2.00	67	67.07	62.2	42.4	
K42D	7/20/93	1.12	55.8	55.82	-9.2	-10.2	
K42M	7/21/93	1.12	56.3	56.24	11.3	10.3	
K42S	7/16/93	1.12	55.9	55.9	35.9	34.9	
K43D	7/1/93	1.12	94.9	94.675	79.5	78.5	
K43S	7/1/93	1.12	94.9	94.715	86.9	85.9	
K44D	6/30/93	1.12	93.4	93.31	77.2	76.2	
K44S	6/30/93	1.12	93.8	93.55	85.6	84.6	
K45	7/19/93	1.12	88.7	88.555	73.3	72.3	
K46	7/1/93	1.12	91.2	91.12	83.2	82.2	
K47	7/1/93	1.12	93.4	93.395	79	78	
K48	7/7/93	1.12	84.5	84.62	68.9	67.9	
K49D	7/6/93	1.12	82.7	82.545	59.7	58.7	
K49M	7/6/93	1.12	82.3	82.27	67.3	66.3	
K49S	7/6/93	1.12	82.3	82.225	75.3	74.3	
K50	7/7/93	1.12	80.7	80.57	63.7	62.7	
K51D	7/2/93	1.12	83.3	83.1	58.2	57.2	
K51M	7/6/93	1.12	83	82.96	63	62	
K52	7/16/93	NA	NA	NA	NA	NA	
K53D	7/13/93	1.12	78.3	78.1	43.3	42.3	
K53M	7/14/93	1.12	78.4	78.37	53.8	52.8	
K54D	7/13/93	1.12	82.4	82.285	47.4	46.4	
K54M	7/14/93	1.12	82.2	81.985	54.7	53.7	
K55D	7/8/93	1.12	84.7	84.435	46.7	45.7	
K55M	7/12/93	1.12	84.5	84.455	56.3	55.3	
K55S	7/12/93	1.12	84.5	84.44	67.7	66.7	
K56D	7/8/93	1.12	83.8	83.59	45.8	44.8	
K56M	7/12/93	1.12	83.8	83.92	56.8	55.8	
K56S	7/17/93	1.12	83.9	83.845	66.9	65.9	
K57D	7/15/93	1.12	74.8	74.66	44.3	43.3	
K57M	7/15/93	1.12	74.6	74.555	50.6	49.6	
K57S	7/16/93	1.12	74.8	74.69	57.8	56.8	
K58D	7/16/93	1.12	73.4	73.37	51.4	50.4	
K58S	7/15/93	1.12	73.6	73.479	56.6	55.6	
K59D	8/27/93	1.12	90.8	90.37	76.2	75.2	
K59S	8/27/93	1.12	90.7	90.49	83.1	82.1	
K60D	10/5/93	1.25	88.1	87.72	42	41	
K60M	10/6/93	1.25	88.1	87.91	49.1	48.1	
K60S	10/6/93	1.25	88.3	88.25	58.3	57.3	
K61D	10/7/93	1.25	87.9	87.9	43.8	42.8	
K61M	10/8/93	1.25	87.9	87.585	49.9	48.9	
K61S	10/11/93	1.25	87.8	87.6	57.8	56.8	
K62D	10/14/93	1.25	87.8	87.7	46	45	
K62M	10/15/93	1.25	88.1	87.7	51.1	50.1	
K62S	10/16/93	1.25	88.1	88.1	56.1	55.1	
K63D	10/12/93	1.25	88.6	88.44	41.1	40.1	
K63M	10/12/93	1.25	88.6	88.49	50	49	
K63S	10/13/93	1.25	88.5	88.38	56.9	55.9	
K64D	10/16/93	1.25	88.6	88.4	46.7	45.7	
MR1SS	8/16/93	2.00	48.6	50.01	45.6	35.6	
MR2SS	8/13/93	2.00	50.8	50.37	45.8	35.8	
MW1S	8/30/88	2.00	47.6	47.18	42.1	32.1	
MW2S	8/31/88	2.00	45.5	45.22	41	31	
MW3S	9/2/88	2.00	46	45.7	42	32	
MW4D	8/24/93	2.00	44.5	47.16	-45.5	-50.5	
MW4M	8/25/93	2.00	44.5	46.54	9.5	-0.5	
MW4S	9/2/88	2.00	45.5	47.12	40	30	Destroyed; not found in 1993
MW4SS	8/20/93	2.00	44.4	46.03	41.4	31.4	
NEP101	8/19/88	2.00	60.3	62.79	55.5	48.3	
NEP101B	8/18/88	2.00	60.2	62.975	34.9	29.7	
NEP102	8/23/90	2.00	62.1	62.05	52.3	45.1	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
NEP102B	8/23/90	2.00	62.1	62.005	21.3	16.1	
NEP103	8/25/88	2.00	59.1	61.93	52.7	47.5	
NEP103B	8/25/88	2.00	59	62.02	39	31.8	
NEP104	8/30/88	2.00	59.9	63.285	48.9	41.7	
NEP104B	8/30/88	2.00	59.9	62.905	25.1	17.9	
NEP105B	9/1/88	2.00	59.8	62.75	45	37.8	
NEP106B	9/2/88	2.00	58.2	61.04	17.4	10.2	
NEP107B	9/7/88	2.00	60.8	63.705	17	9.8	
NEP108	3/30/89	2.00	61.1	63.115	40.6	30.6	
NEP108B	3/28/89	2.00	61	63.39	11	6	
NEP109	4/7/89	2.00	59.3	61.52	52.3	42.3	
NEP109B	4/6/89	2.00	59.2	NA	27.2	22.2	
NEP110B	4/13/89	3.50	59.7	62.17	50.7	-40.3	
NEP2	5/7/65	6.00	60.1	60.055	33.1	-439.9	
NEP3	1/21/80	6.00	60.7	60.87	14.7	-879.3	
NEPA	4/7/89	6.00	61.3	63.23	1.3	-538.7	
NEPB	4/10/89	6.00	60.3	61.905	18.3	-539.7	
OL1	12/3/87	2.00	48.3	50.09	39.3	29.3	
OL10	4/8/88	1.50	51	50.855	48.5	38.5	
OL11	4/8/88	1.50	50.7	50.615	49.7	39.7	
OL12	4/8/88	1.50	50.4	50.33	47.9	37.9	
OL13	4/8/88	1.50	50.5	50.4	48.5	38.5	
OL14	1/2/90	2.00	52.3	52.195	47.3	37.3	
OL15	1/2/90	2.00	51.8	51.71	46.8	36.8	
OL16	1/2/90	2.00	51.4	51.25	48.4	38.4	
OL17	1/2/90	2.00	50.8	50.71	49.8	38.8	
OL18	1/4/90	2.00	50.9	50.855	-3.6	-13.6	
OL19	1/8/90	2.00	52	51.835	2	-8	
OL2	12/4/87	2.00	46.3	48.275	42.3	37.3	
OL3	12/4/87	2.00	47.1	49.18	43.1	38.1	
OL4	12/3/87	2.00	47.2	48.975	39.2	24.2	
OL5	12/4/87	2.00	46.5	49.585	43	38	
OL6	6/16/87	4.00	51.7	51.52	NA	NA	
OL7	6/16/87	4.00	50.9	50.785	NA	NA	
OL8	4/8/88	1.50	51.9	51.74	49.9	39.9	
OL9	4/8/88	1.50	51.8	51.685	49.8	39.8	
RMW1	12/6/91	2.00	93.8	93.91	91.8	81.8	
RMW2	12/6/91	2.00	93.9	NA	91.9	81.9	
RMW3	12/6/91	2.00	52.3	51.965	50.3	40.3	
RW1	9/6/90	4.00	96.9	91.55	84.9	64.9	Abandoned - November 2002
RW10	9/7/90	4.00	91.1	85.45	66.1	46.1	
RW11	6/11/92	4.00	93.5	87.41	64.2	44.2	
RW12	6/12/92	4.00	94.1	88.36	69.5	49.5	
RW13	6/12/92	4.00	90.7	85.13	74.7	54.7	
RW14	6/16/92	4.00	90.8	85.05	79	59	
RW15	6/17/92	4.00	90.8	85.22	78.4	58.4	
RW16	6/18/92	4.00	90.8	85.19	79.2	59.2	
RW17	6/18/92	4.00	91	85.09	76.9	56.9	
RW18	6/19/92	4.00	91.3	85.57	77.8	57.8	
RW19	6/22/92	4.00	92	85.58	77.8	57.8	
RW2	9/3/90	4.00	94.4	88.6	81.4	61.4	Abandoned - November 2002
RW20	6/23/92	4.00	92.2	86.05	72.9	52.9	
RW21	6/23/92	4.00	92.2	86.42	76	56	
RW22	6/26/92	48.00	98	97.97	73	19	Reconfigured- August 2010
RW3	8/30/90	4.00	94.3	88.53	82.3	62.3	Abandoned - November 2002
RW4	6/14/88	8.00	94.2	89.21	72.2	21.2	Abandoned - November 2002
RW5	6/10/88	8.00	94.2	88.96	77.2	72.2	Abandoned - November 2002
RW6	8/30/90	4.00	94.2	88.44	82.2	62.2	Abandoned - November 2002
RW7	9/13/90	4.00	92.5	86.35	64.5	44.5	
RW8	9/11/90	4.00	91.9	85.71	63.9	43.9	
RW9	9/10/90	4.00	91.3	85.31	66.3	46.3	
S10	7/17/81	1.40	82.5	84.88	78.5	-4.5	
S11	8/4/81	1.40	43	45.7	39	-43	
S21	9/14/81	1.50	77.7	77.035	73.7	46.2	
S22	9/22/81	1.50	85	84.135	81	41	
S37	NA	NA	NA	NA	NA	NA	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
S38	NA	2.50	55	NA	NA	NA	
S39	6/23/67	24.00	45	53.06	-33	-43	
S4	7/1/81	1.40	53.5	56.45	49.5	-37.5	
S40	9/18/64	24.00	45	54.33	-24	-34	
S41	2/21/62	6.00	61	60.41	16	-297	
S42	NA	6.00	80	NA	NA	NA	
S44	1/1/40	24.00	85	NA	NA	NA	
S45	1/1/63	2.00	45	NA	NA	NA	
S46	4/4/58	24.00	50	50.46	14	-1	
S47	1/1/45	NA	74.4	74.965	NA	NA	
S5	7/7/81	1.40	52.5	53.98	48.5	-13	
S6	7/14/81	1.40	62.2	64.845	58.2	-31.8	
S60	8/7/81	1.40	122.4	NA	88.3	78.3	
S63D	4/23/85	1.50	69.5	69.415	43.5	33.5	
S63S	4/23/85	1.50	70	69.495	58	48	
S64D	4/10/85	1.50	57.8	59.815	17.8	2.8	
S64M	4/10/85	1.50	57.7	59.655	30.7	25.7	
S64S	4/10/85	1.50	57.6	59.455	47.6	42.6	
S65D	4/9/85	1.50	76.9	80.08	35.5	20.5	Destroyed; replaced by S65DR in 1991
S65DR	1/10/91	2.00	77.6	79.89	30.6	20.6	
S65M	4/9/85	1.50	77	76.435	50	40	
S65S	4/9/85	1.50	76.8	76.42	72.8	52.8	
S66D	4/16/85	1.50	69.6	70.17	49.9	34.9	
S67D	4/11/85	1.50	83.3	83.05	23.3	8.3	
S67M	4/11/85	1.50	83.3	83.03	50.3	40.3	
S67S	4/11/85	1.50	83.2	83.06	59.2	49.2	
S68D	4/23/85	1.50	45.5	48.485	-9.5	-59.5	
S68S	4/23/85	1.50	45.2	47.34	30.7	0.2	
S69D	3/18/85	1.50	75.4	75.495	35.4	20.4	
S7	6/24/81	1.40	95.1	97.57	91.1	67.1	
S70D	12/17/85	1.50	69.4	69.43	2.4	-12.6	
S70M	4/9/85	1.50	70	69.51	28	8	
S70S	4/9/85	1.50	70	69.3	55	40	
S71D	2/1/85	1.50	71.4	70.93	48.7	28.7	
S71S	2/1/85	1.50	71.4	71.01	60.4	55.4	
S72D	4/16/85	1.50	50.2	51.2	-71.8	-86.8	
S72M	4/16/85	1.50	50.9	52.18	-3.6	-41.6	
S72S	4/16/85	1.50	51.2	52.225	37.2	-2.8	
S73D	1/4/85	1.50	52	54.315	11	-4.5	
S73S	1/4/85	1.50	52.6	54.145	42.6	17.6	
S74D	1/15/85	1.50	48.2	49.475	-24.8	-40.3	
S74S	1/15/85	1.50	48	49.71	40	-10	
S75D	1/9/85	1.50	56.9	57.01	-23.1	-38.1	
S75M	1/9/85	1.50	56.7	57.165	6.7	-18.3	
S75S	1/9/85	1.50	57	56.715	28	13	
S76D	1/23/85	1.50	53	55.08	-82	-97	
S76M	1/23/85	1.50	52.4	53.92	-25.6	-75.6	
S76S	1/23/85	1.50	53.4	54.555	38.4	-11.6	
S77D	2/18/85	1.50	44.9	47.01	-88.6	-93.6	
S77M	2/18/85	1.50	44.7	47.14	-25.3	-30.3	
S77S	2/18/85	1.50	44.7	47.19	19.7	14.7	
S77SS	2/18/85	1.50	44.6	46.06	36.6	31.6	
S78D	2/2/85	1.50	45.8	49.04	-49.7	-64.7	
S78S	2/2/85	1.50	45.4	47.6	40.4	20.4	
S79D	4/18/85	1.50	47.4	49.19	-65.1	-80.1	
S79S	5/29/85	1.50	48	48.88	43	23	
S7R	10/18/94	2.00	107.8	95.77	89.8	84.8	
S8	7/25/81	1.40	45.1	47.68	41.1	-83.4	
S80M	11/20/84	1.50	48.7	49.68	-6.3	-16.3	
S80S	11/20/84	1.50	48.7	49.65	3.7	-6.3	
S81D	2/8/85	1.50	54.1	55.935	-12.9	-27.9	
S81M	2/8/85	1.50	55.4	57.385	20.4	5.4	
S81S	2/8/85	1.50	54.7	55.935	44.7	34.7	
S82	3/18/85	1.50	57	58.455	32	22	
S83	2/28/85	1.50	48.1	51.3	-21.9	-31.9	Destroyed; replaced by S83M in 1983
S83M	8/17/83	2.00	48.2	50.59	-21.8	-31.8	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
S83SS	8/2/93	2.00	48.5	50.35	45.5	35.5	
S84D	3/5/85	1.50	46.2	48.315	-26.8	-31.8	
S84M	3/5/85	1.50	46	47.985	6	1	
S84S	3/5/85	1.50	45.9	47.905	32.9	27.9	
S85M	2/26/85	1.50	46.1	47.84	-18.9	-24.9	
S85S	2/26/85	1.50	46.1	47.805	26.1	16.1	
S86D	3/6/85	1.50	44.3	46.72	-2.7	-7.7	
S86S	3/6/85	1.50	44.7	46.725	24.7	14.7	
S87D	10/16/85	2.00	45.6	48.475	-30.9	-32.9	
S87M	10/1/85	2.00	46.3	48.045	9.3	7.3	
S87S	10/2/85	2.00	45.4	48.335	38.4	36.4	
S88D	10/10/85	2.00	44.2	47.78	-32.8	-34.8	
S88M	10/11/85	2.00	44.2	47.24	7.2	5.2	
S88S	10/11/85	2.00	44.2	47.55	37.2	35.2	
S89D	10/8/85	2.00	43.8	46.36	-72.7	-74.7	
S89M	10/10/85	2.00	43.8	45.58	-9.2	-11.2	
S89S	10/9/85	2.00	43.8	46.745	14.8	12.8	
S90D	10/23/85	2.00	47.3	50.125	-17.7	-19.7	
S90M	10/1/85	2.00	47.2	49.545	10.2	8.2	
S90S	10/1/85	2.00	47.3	49.73	40.3	38.3	
S91D	10/8/85	2.00	44.4	47.495	-32.6	-34.6	
S91M	10/2/85	2.00	45.3	48.57	8.3	6.3	
S91S	10/2/85	2.00	44.7	47.565	37.7	35.7	
S92D	10/31/85	2.00	43	45.6	-33.5	-35.5	
S92I	11/1/85	2.00	43	45.75	-12	-14	
S92M	11/1/85	2.00	43	45.73	6	4	
S92S	11/1/85	2.00	43	45.77	34	29	
S93D	10/29/85	2.00	43.4	46.14	-33.6	-35.6	
S93M	10/29/85	2.00	43.4	46.205	1.9	-0.1	
S93S	10/29/85	2.00	43.4	46.16	33.4	29.4	
S94D	10/21/85	2.00	45.9	48.64	-30.7	-32.7	
S94M	10/22/85	2.00	46.1	48.785	9.1	7.1	
S94S	10/22/85	2.00	45.8	48.55	33.8	31.8	
S95D	11/8/85	2.00	43	45.29	-30	-32	
S95M	11/9/85	2.00	43	45.54	6	4	
S95S	11/9/85	2.00	43	45.67	34	29	
S96D	10/28/85	2.00	43	45.49	-34	-36	
S96M	10/29/85	2.00	43	46.16	6	4	
S96S	10/29/85	2.00	43	45.24	33	29	
S97D	11/11/85	2.00	48.6	50.855	12.1	4.6	
S97M	11/11/85	2.00	48.5	51.415	25.5	23.5	
S97S	11/11/85	2.00	48.9	52.045	39.9	34.9	
UC10-1	5/26/87	3.50	69.6	69.6	-161	-174.4	
UC10-2	5/26/87	3.50	69.6	69.6	-145	-157.4	
UC10-3	5/26/87	3.50	69.6	69.6	-102	-112.4	
UC10-4	5/26/87	3.50	69.6	69.6	-78	-88.4	
UC10-5	5/26/87	3.50	69.6	69.6	-55	-59.4	
UC10-6	5/26/87	3.50	69.6	69.6	-8	-23.4	
UC10D	9/23/92	2.00	69.6	69.05	20.1	15.1	
UC10M	9/24/92	2.00	69.8	69	38.8	33.8	
UC10S	9/24/92	2.00	69.6	69.03	59.6	49.6	
UC11-1	9/9/87	3.50	70.2	70.2	-250	-264.8	
UC11-2	9/9/87	3.50	70.2	70.2	-183	-202.8	
UC11-3	9/9/87	3.50	70.2	70.2	-131.8	-141.8	
UC11-4	9/9/87	3.50	70.2	70.2	-95.8	-102.8	
UC11-5	9/9/87	3.50	70.2	70.2	-12.8	-22.8	
UC11-6	9/9/87	3.50	70.2	70.2	29	18.2	
UC12-1	9/14/87	3.50	74.8	74.8	-238	-268	
UC12-2	9/14/87	3.50	74.8	74.8	-182.2	-202.2	
UC12-3	9/14/87	3.50	74.8	74.8	-115.2	-125.2	
UC12-4	9/14/87	3.50	74.8	74.8	-72	-84.2	
UC12-5	9/14/87	3.50	74.8	74.8	-3	-20.2	
UC12-6	9/14/87	3.50	74.8	74.8	24	15.8	
UC13-1	9/25/87	3.50	83.3	83.3	-95.7	-271.7	
UC13-2	9/25/87	3.50	83.3	83.3	-58.7	-68.7	
UC13-3	9/25/87	3.50	83.3	83.3	-19.7	-30.7	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
UC13-4	9/25/87	3.50	83.3	83.3	21.3	11.3	
UC13-5	9/25/87	4.50	83.3	83.3	83.3	68.3	
UC14-1	10/14/87	3.50	59.2	59.2	-266.8	-286.8	
UC14-2	10/14/87	3.50	59.2	59.2	-222.8	-235.8	
UC14-3	10/14/87	3.50	59.2	59.2	-163.8	-176.8	
UC14-4	10/14/87	3.50	59.2	59.2	-85.8	-97.8	
UC14-5	10/14/87	3.50	59.2	59.2	-16.8	-38.8	
UC15	9/29/87	6.00	70.7	70.7	16.7	-8.3	
UC15D	NA	2.00	70.7	70.02	-199.3	-209.3	
UC15S	NA	2.00	70.7	70.47	-7.4	-17.4	
UC16	9/30/87	6.00	72.8	72.485	61.8	44.4	
UC17	10/1/87	6.00	73.5	73.13	61.8	43.5	
UC18	10/2/87	6.00	73.2	72.79	59.8	40.2	
UC19	10/5/87	6.00	70.9	70.28	30.6	12.3	
UC19M	9/22/92	2.00	70.8	70	43.3	38.3	
UC19S	9/21/92	2.00	70.9	70.31	64.4	54.4	
UC20	10/6/87	6.00	73.1	72.87	65.1	46.1	
UC21	1/22/88	3.50	54.1	54.1	-7.9	-265	Abandoned
UC22	1/13/88	8.00	84.7	85.527	69.7	-105.3	
UC23-1	1/3/91	6.00	91.1	89.895	-303	-308.9	
UC23-2	1/3/91	6.00	91.1	89.895	-283	-292.9	
UC23-3	1/3/91	6.00	91.1	89.895	-197	-212.9	
UC23-4	1/3/91	6.00	91.1	89.895	-164	-173.9	
UC23-5	1/3/91	6.00	91.1	89.895	-141	-151.9	
UC24D	9/22/92	2.00	69.8	69.41	22.8	17.8	
UC24S	9/21/92	2.00	69.9	69.31	60.9	50.9	
UC25	9/23/92	2.00	71.9	71.727	66.4	56.4	
UC26D	12/7/93	2.00	69.1	68.875	39.3	34.3	
UC26S	12/3/93	2.00	69.2	68.86	60.2	53.4	
UC29D	12/7/93	2.00	70.7	70.42	50.9	45.9	
UC29S	12/8/93	2.00	70.8	70.545	60.8	54	
UC30	12/9/93	2.00	73.8	73.47	64.8	59	
UC31D	12/13/93	2.00	69.3	69.025	22.5	17.5	
UC31M	12/10/93	2.00	69.2	68.9	40.4	35.4	
UC31S	12/14/93	2.00	69.5	69.15	58.5	52.3	
UC32	4/1/94 [3]	NA	NA	72.62	NA	NA	
UC33	4/6/94 [3]	NA	NA	72.54	NA	NA	
UC34	4/8/94 [3]	NA	NA	74.06	NA	NA	
UC35	4/13/94 [3]	NA	NA	73.64	NA	NA	
UC36	4/13/94 [3]	NA	NA	73.76	NA	NA	
UC4	11/4/86	2.00	73.6	72.82	63.7	53.8	
UC5	11/4/86	2.00	73	72.3	64.1	54.2	
UC6	11/14/86	2.00	68.3	67.9	35.2	25.3	
UC6S	9/23/92	2.00	67.5	67.2	59.5	49.5	
UC7-1	12/1/86	3.50	71	70.66	NA	NA	
UC7-2	12/1/86	3.50	71	70.66	NA	NA	
UC7-3	12/1/86	3.50	71	70.66	NA	NA	
UC7-4	12/1/86	3.50	71	70.66	NA	NA	
UC7-5	12/1/86	3.50	71	70.66	NA	NA	
UC7A-1	12/1/86	3.50	71	68.585	-60	-77	
UC7A-2	12/1/86	3.50	71	68.585	-21	-46	
UC7A-3	12/1/86	3.50	71	68.585	6	-18	
UC7A-4	12/1/86	3.50	71	68.585	50	9	
UC7A-5	12/1/86	4.50	71	68.585	71	53	
UC8	1/8/87	4.50	74.2	73.865	66.5	53.4	
UC9-1	5/12/87	3.50	84.5	84.5	-143.5	-153.5	
UC9-2	5/12/87	3.50	84.5	84.5	-85.5	-97.5	
UC9-3	5/12/87	3.50	84.5	84.5	-54.5	-65.5	
UC9-4	5/12/87	3.50	84.5	84.5	-17.5	-27.5	
UC9-5	5/12/87	3.50	84.5	84.5	34.5	24.5	
UC9-6	5/12/87	3.50	84.5	84.5	66.5	46.5	
UG1-1	3/27/91	4.50	73.1	73.35	-413	-426.9	
UG1-2	3/27/91	4.50	73.1	73.35	-397	-407.9	
UG1-3	3/27/91	6.00	73.1	73.35	-301	-316.9	
UG1-4	3/27/91	6.00	73.1	73.35	-143	-153.9	
UG1-5	3/27/91	6.00	73.1	73.35	-91	-98.9	

Table E1 - Well Construction Details
(Source: DDMS, 2010)

Well Name	Install Date	Well Diameter (inches)	Ground Surface Elevation (ft, NGVD 1929)	Top of Casing Elevation (ft, NGVD 1929)	Top of Screen Elevation (ft, NGVD 1929)	Bottom of Screen Elevation (ft, NGVD 1929)	Well Status
UG1-6	3/27/91	6.00	73.1	73.35	-75	-85.9	
UG1-7	3/27/91	6.00	73.1	73.35	-38	-47.9	
UG2-1	6/8/91	0.38	47.2	50.135	5.2	4.2	
UG2-2	6/8/91	0.38	47.3	50.145	9.3	8.3	
UG2-3	6/8/91	0.38	47.3	50.155	23.3	22.3	
UG2-4	6/8/91	0.38	47.3	50.14	38.3	37.3	
UG3-1	6/8/91	0.38	71.1	71.53	50.1	49.1	
UG4-1	6/13/91	1.00	46.9	49.585	-21.1	-23.1	
UG4-2	6/13/91	0.38	46.9	49.585	-7.1	-8.1	
UG4-3	6/13/91	0.38	46.9	49.585	7.9	6.9	
UG4-4	6/13/91	0.38	46.9	49.585	22.9	21.9	
UG4-5	6/13/91	0.38	46.9	49.585	37.9	36.9	
UG5	2/1/93	2.00	50.8	50.53	48.8	39.8	
UG6	2/1/93	2.00	50.1	50	47.6	38.6	
UG7D	2/2/93	2.00	51.5	51.155	26	17	
UG7S	2/1/93	2.00	51.5	51.265	49.5	40.5	
UG8	7/12/10	2.00	60.74	60.36	57.54	47.54	
UG9	6/7/10	2.00	62.08	61.83	53.58	43.58	
UG10	6/10/10	2.00	70.48	70.18	63.28	53.28	
UG11	6/11/10	2.00	71.66	71.21	60.76	50.76	
UG12	6/10/10	2.00	80.09	79.74	64.29	54.29	
UG13	7/17/10	2.00	96	95.7	83.3	73.3	
UG14	7/18/10	2.00	88.95	88.54	70.55	60.55	
UG15	6/8/10	2.00	87.7	87.33	72.9	62.9	
UG16	6/8/10	2.00	85.92	85.52	78.32	68.32	
UG17	6/14/10	2.00	69.5	69.17	60.2	50.2	
UG18	6/12/10	2.00	88.9	88.56	74.6	64.6	
UG19	7/18/10	2.00	91.46	91.14	71.96	61.96	
UG20	6/9/10	2.00	81.7	81.29	65	55	
WB1M	8/20/93	2.00	45.2	46.58	10.2	0.2	
WB1SS	8/19/93	2.00	46.1	47.06	43.1	33.1	
WE1	1/28/87	2.00	NA	53.56	NA	NA	
WE2	1/27/87	2.00	NA	53.58	NA	NA	
WE3	1/29/87	2.00	NA	53.17	NA	NA	

Notes:

1. NA - data not available in DDMS database.
2. Top and bottom of screen for the Solinst wells are set equal to the top and bottom of sand pack from the DDMS database.
3. Install date - date of boring log completion
4. Boring log indicated only a month and year, so the first day of the month was assumed.

Appendix F

VOC Concentration Data and Concentration Versus Time Plots

Historic Summary of Tetrachloroethene, Trichloroethene, 1,2-Dichloroethene, Vinyl Chloride, 1,1-Dichloroethene, 1,1,1-Trichloroethane, Chloroform, and 1,2-Dichloroethane Concentrations in Selected Monitoring Wells and Recovery Wells (Concentrations in ug/L).

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G1S	8/30/1983		ND (10)	BMDL (10)	ND (10)			BMDL (10)	ND (10)	ND (10)	ND (10)	ND (10)
G1S	11/8/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G1S	11/6/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1S	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G1S	3/27/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1S	5/30/2007	L1	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1S	5/30/2007	L2	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1S	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1S	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1S	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G1D	6/30/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G1D	8/30/1983		BMDL (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G1D	11/8/1983		BMDL (10)	BMDL (10)	BMDL (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G1D	11/6/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1D	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G1D	3/27/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1D	5/31/2007	L1	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1D	5/31/2007	L2	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1D	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1D	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1D	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G1DB	3/27/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1DB	5/30/2007		U (0.5)	19		31	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB	4/22/2008		U (0.5)	14		21	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB	4/22/2008	DUP	U (0.5)	14		21	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB	5/7/2009		U (0.5)	17		26	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB	5/7/2009	DUP	U (0.5)	16		24	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB	6/16/2010		U (1)	41		51	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G1DB	6/16/2010	DUP	U (1)	36		46	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G1DB2	3/27/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1DB2	5/30/2007		U (0.5)	4.8		7.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB2	4/22/2008		U (0.5)	1.4		1.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB2	5/7/2009		U (0.5)	4.2		6.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB2	6/16/2010		U (1)	2.2		2.1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G1DB3	3/27/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G1DB3	6/26/2007		U (0.5)	U (0.5)		U (0.5)	U (0.75)	3.8	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB3	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	4	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB3	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	4	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G1DB3	6/16/2010		U (1)	U (1)		U (1)	U (1)	4.8	U (1)	U (1)	U (1)	U (1)
G2S	6/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G2S	8/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G2S	11/8/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G2S	12/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G2S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G2D	6/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	BMDL (10)	BMDL (10)	ND (10)
G2D	8/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G2D	11/8/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G2D	12/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G2D	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G2DB	2/27/1992		ND (5)	ND (5)	ND (5)			ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
G2DB	3/18/1992		ND (5)	ND (5)	ND (5)			ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
G2DB2	2/27/1992		ND (5)	ND (5)	ND (5)			ND (5)	ND (5)	ND (5)	11	ND (5)
G2DB2	2/27/1992	DUP	ND (5)	ND (5)	ND (5)			ND (5)	ND (5)	ND (5)	12	ND (5)
G2DB2	3/18/1992		ND (5)	ND (5)	ND (5)			ND (5)	ND (5)	ND (5)	8	ND (5)
G2DB2	3/18/1992	DUP	ND (5)	ND (5)	ND (5)			ND (5)	ND (5)	ND (5)	8	ND (5)
G2M	6/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G2M	8/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G2M	11/8/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G2M	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G3S	6/30/1983		17	558	660			141	BMDL (10)	BMDL (10)	10	ND (10)
G3S	8/30/1983		33	785	1230			256	BMDL (10)	ND (10)	ND (10)	ND (10)
G3S	11/9/1983		29	1160	1800			118	BMDL (10)	BMDL (10)	ND (10)	ND (10)
G3S	11/9/1983		34	1180	1940			228	BMDL (10)	BMDL (10)	ND (10)	ND (10)
G3S	2/9/1984		12	399	611			65	BMDL (10)	ND (10)	ND (10)	ND (10)
G3S	2/9/1984		21	638	984			87	BMDL (10)	ND (10)	ND (10)	ND (10)
G3S	10/10/1984		BMDL (10)	256	371			25	ND (10)	BMDL (10)	ND (10)	ND (10)
G3S	10/10/1984		33	928	1140			98	ND (10)	ND (10)	ND (10)	ND (10)
G3S	4/24/1985		ND (500)	R	1400 J			ND (1000)	ND (500)	ND (500)	ND (500)	ND (500)
G3S	4/24/1985		37.9	1305	1541			166.7	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3S	5/15/1985		29 J	1200	920			48	ND (5)	ND (5)	ND (5)	ND (5)
G3S	5/15/1985		37.2	1462	1237			43.1	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3S	6/19/1985		15 J	610	2500			140 J	ND (25)	ND (25)	R	ND (25)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G3S	6/19/1985		26.1	1831	1750			53.2	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3S	6/19/1985	DUP	30	1200	3000			180 J	ND (25)	ND (25)	R	ND (25)
G3S	11/6/1985		ND (41)	905	820			ND (100)	ND (28)	ND (38)	ND (16)	ND (28)
G3S	11/15/1985		7	791	1120			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G3S	10/29/1987		35	1300	1400			160				
G3S	10/29/1987		29.3	613	911			129	ND (14)	ND (19)	ND (8)	ND (14)
G3S	4/4/1989		ND (210)	1800	1520			ND (500)	ND (140)	ND (190)	ND (80)	ND (140)
G3S	3/1/1991		12	R	R			6 J	U (5)	1 J	U (5)	U (5)
G3S	3/1/1991	DIL	9 J	400	370			U (34)	U (17)	U (17)	U (17)	U (17)
G3S	5/13/2005		1.5	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G3D	6/30/1983		28	908	1010			126	BMDL (10)	ND (10)	BMDL (10)	ND (10)
G3D	8/30/1983		62	910	1680			304	BMDL (10)	ND (10)	ND (10)	ND (10)
G3D	11/9/1983		40	2140	2500			231	BMDL (10)	BMDL (10)	ND (10)	ND (10)
G3D	2/9/1984		30	886	1300			186	BMDL (10)	ND (10)	ND (10)	ND (10)
G3D	2/9/1984		36	1660	1780			173	ND (10)	ND (10)	ND (10)	ND (10)
G3D	10/10/1984		53	2360	2370			50	BMDL (10)	ND (10)	ND (10)	ND (10)
G3D	10/10/1984		41	1760	1510			17	ND (10)	ND (10)	BMDL (10)	ND (10)
G3D	10/10/1984		33	1110	1140			12	ND (10)	BMDL (10)	ND (10)	ND (10)
G3D	4/24/1985		ND (500)	R	1800 J			ND (1000)	ND (500)	ND (500)	R	ND (500)
G3D	4/24/1985		61.6	2424	2076			316.8	3.3	ND (3.8)	ND (1.6)	ND (2.8)
G3D	5/15/1985		65.4	3006	1789			149.8	3.9	ND (3.8)	ND (1.6)	ND (2.8)
G3D	5/15/1985		49 J	2000 J	1100 J			220 J	ND (5)	ND (5)	ND (5)	ND (5)
G3D	6/19/1985		75	2700	4400			350 J	ND (25)	ND (25)	R	ND (25)
G3D	6/19/1985		54.3	3197	2399			113.9	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3D	6/19/1985	DUP	50	2600	4200			290 J	ND (25)	ND (25)	R	ND (25)
G3D	11/6/1985		52.2	2330	1760			147	ND (28)	ND (38)	ND (16)	ND (28)
G3D	11/15/1985		56	2520	2010			327	ND (1)	ND (1)	ND (1)	ND (1)
G3D	10/29/1987		70	R	R			250	ND			
G3D	10/29/1987		53.2	1200	1390			250	ND (14)	ND (19)	ND (8)	ND (14)
G3D	4/4/1989		ND (210)	980	960			ND (500)	ND (140)	ND (190)	ND (80)	ND (140)
G3D	3/1/1991		5 J	210 J	170			U (10)	U (5)	U (5)	U (5)	U (5)
G3D	3/1/1991	COL	9 J	330 J	310			U (25)	U (13)	U (13)	U (13)	U (13)
G3D	3/1/1991	DUP	U (25)	220 J	200			U (50)	U (25)	U (25)	U (25)	U (25)
G3D	3/1/1991	DUP	7	R	R			U (10)	U (5)	U (5)	U (5)	U (5)
G3D	5/16/2005		12	U (5)		1.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G3DB	10/10/1984		BMDL (10)	52	53			BMDL (10)	ND (10)	ND (10)	25	ND (10)
G3DB	10/10/1984		28	1370	908			46	ND (10)	ND (10)	BMDL (10)	ND (10)
G3DB	10/10/1984		31	1230	962			88	ND (10)	ND (10)	BMDL (10)	ND (10)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G3DB	4/24/1985		1100 J	R	7500 J			ND (5000)	ND (2500)	ND (2500)	R	ND (2500)
G3DB	4/24/1985		46.8	2221	1079			88.5	BMDL (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3DB	5/15/1985		34 J	1800 J	670 J			40 J	ND (5)	ND (5)	ND (5)	ND (5)
G3DB	5/15/1985		44.9	3095	1097			47.8	BMDL (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3DB	6/19/1985		50	2300	1700			140 J	ND (50)	ND (50)	R	ND (50)
G3DB	6/19/1985		38.6	2895	1131			56.1	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G3DB	6/19/1985	DUP	45	2200	1900			125 J	ND (25)	ND (25)	R	ND (25)
G3DB	11/6/1985		BMDL (41)	1570	980			BMDL (100)	ND (28)	ND (38)	ND (16)	ND (28)
G3DB	11/15/1985		4.55	1660	823			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G3DB	10/29/1987		BMDL (21)	563	354			BMDL (50)	ND (14)	ND (19)	ND (8)	ND (14)
G3DB	10/29/1987		ND	1200	530			23	ND			
G3DB	4/4/1989		ND (82)	563	311			ND (200)	ND (56)	ND (76)	ND (32)	ND (56)
G3DB	3/1/1991		7	R	R			U (10)	U (5)	U (5)	U (5)	U (5)
G3DB	3/1/1991	DIL	4 J	200	200			U (20)	U (10)	U (10)	U (10)	U (10)
G3DB	5/20/2005		36	28		19	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G3DB2	4/4/1989		ND (41)	423	497			ND (100)	ND (28)	ND (38)	ND (16)	ND (28)
G3DB2	3/6/1991		U (5)	240	190			U (10)	U (5)	U (5)	U (5)	U (5)
G3DB2	5/20/2005		U (0.5)	U (3.8)		2.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G3DB3	4/4/1989		7.64	400	634			53.6	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G4S	7/1/1983		BMDL (10)	125	237			19	ND (10)	ND (10)	ND (10)	ND (10)
G4S	8/30/1983		BMDL (10)	78	271			BMDL (10)	ND (10)	ND (10)	ND (10)	ND (10)
G4S	11/9/1983		BMDL (10)	44	176			BMDL (10)	ND (10)	ND (10)	ND (10)	ND (10)
G4S	2/9/1984		BMDL (10)	46	69			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G4S	10/10/1984		ND (10)	51	172			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G4S	4/22/1985		ND (5)	19	21			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
G4S	4/22/1985		ND (4.1)	17.5	ND (2)			ND (10)	ND (2.8)	ND (4)	1.7	ND (2.8)
G4S	6/19/1985		ND (4.1)	15.7	13			ND (10)	ND (2.8)	ND (3.8)	2.1	ND (2.8)
G4S	6/19/1985	RE	ND (5)	10 J	R			ND (10)	ND (5)	ND (5)	R	ND (5)
G4S	11/26/1985		ND (4.1)	18.1	86.8			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G4S	12/6/1985		ND (1)	23.3	86.5			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G4S	5/16/2005		U (0.5)	3.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G4D	6/30/1983		BMDL (10)	372	860			138	ND (10)	ND (10)	ND (10)	ND (10)
G4D	8/30/1983		BMDL (10)	431	1660			298	BMDL (10)	ND (10)	ND (10)	ND (10)
G4D	11/9/1983		BMDL (10)	189	2020			69	ND (10)	ND (10)	ND (10)	ND (10)
G4D	2/9/1984		BMDL (10)	217	904			26	BMDL (10)	ND (10)	ND (10)	ND (10)
G4D	10/10/1984		11	484	2600			93	ND (10)	BMDL (10)	ND (10)	ND (10)
G4D	4/22/1985		5	371.8	807			46.7	BMDL (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
G4D	4/22/1985	RE	ND (50)	200	790			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G4D	6/19/1985		ND (25)	390	1900			ND (50)	ND (25)	R	R	ND (25)
G4D	6/19/1985		BMDL (4.1)	380.9	1122			BMDL (10)	ND (2.8)	ND (3.8)	2.1	ND (2.8)
G4D	11/26/1985		BMDL (4.1)	192	862			58.3	BMDL (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G4D	12/6/1985		ND (1)	264	1430			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G4D	11/4/1987		ND	120	670			ND	ND			
G4D	5/16/2005		U (0.5)	8.5		1.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G5S	6/30/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
G5S	8/30/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G5S	11/8/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G5S	11/26/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G5S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G5D	6/30/1983		ND (10)	10	ND (10)			ND (10)	ND (10)	BMDL (10)	BMDL (10)	ND (10)
G5D	8/30/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G5D	11/8/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G5D	11/26/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G5D	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6A	10/1/1985		ND (4.1)	7	10.2			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6A	10/3/1985		ND (1)	7.48	4.93			ND (1)	ND (1)	ND (1)	8.97	ND (1)
G6A	10/22/1985		ND (4.1)	9.57	23.1			BMDL (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6A	10/23/1985		ND (1)	5.35	11.7			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6A	11/14/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6A	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6A	11/26/1985		ND (4.1)	2.67	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6A	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6A	12/20/1985		ND (4.1)	BMDL (1.9)	5.81			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6A	12/24/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	25.8	ND (1)
G6B	10/1/1985		ND (4.1)	194	21.9			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6B	10/3/1985		ND (1)	134	8.27			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6B	10/22/1985		ND (4.1)	131	3.74			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6B	10/23/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6B	11/14/1985		ND (4.1)	50.7	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6B	11/15/1985		ND (1)	68.8	7.96			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6B	12/20/1985		ND (4.1)	31.6	3.26			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6B	12/24/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	12	ND (1)
G6C	10/1/1985		5.11	316	11600			2710	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6C	10/3/1985		ND (1)	210	5825			ND (1)	ND (1)	ND (1)	403	ND (1)
G6C	10/22/1985		ND (4.1)	108	12100			313	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6C	10/23/1985		ND (1)	86.5	7820			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G6C	11/14/1985		BMDL (4.1)	198	98.2			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6C	11/15/1985		ND (1)	283	135			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6C	11/26/1985		BMDL (4.1)	79.7	138			BMDL (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6C	12/6/1985		ND (1)	95.4	205			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6C	12/20/1985		ND (82)	728	3490			539	ND (56)	ND (76)	ND (32)	ND (56)
G6C	12/24/1985		ND (1)	852	3820			57.6	5.15	ND (1)	ND (1)	ND (1)
G6C	6/9/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G6C	6/9/2006	DUP	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G6S	7/1/1983		ND (10)	BMDL (10)	BMDL (10)			BMDL (10)	ND (10)	ND (10)	ND (10)	ND (10)
G6S	7/1/1983		ND (10)	BMDL (10)	BMDL (10)			BMDL (10)	ND (10)	ND (10)	ND (10)	ND (10)
G6S	8/30/1983		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
G6S	11/8/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G6S	2/8/1984		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
G6S	10/11/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G6S	4/22/1985		ND (4.1)	6.6	5.1			BMDL (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6S	10/22/1985		ND (4.1)	BMDL (1.9)	10.5			BMDL (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6S	10/23/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6S	11/14/1985		ND (4.1)	2.65	14.1			BMDL (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G6S	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G6S	11/2/1987		ND	7	ND			ND	10			
G6S	5/20/2005		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G7S	7/1/1983		BMDL (10)	274	217			13	ND (10)	ND (10)	BMDL (10)	ND (10)
G7S	8/30/1983		BMDL (10)	81	83			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G7S	11/8/1983		ND (10)	68	67			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G7S	2/8/1984		ND (10)	20	15			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G7S	10/9/1984		BMDL (10)	211	220			BMDL (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G7S	4/22/1985		8	310	340			15	ND (5)	ND (5)	ND (5)	ND (5)
G7S	4/22/1985		10	391	306			14.7	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
G7S	12/2/1985		ND (4.1)	63.9	69.9			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G7S	12/6/1985		ND (1)	62.5	46.2			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G7S	10/28/1987		ND	72	63			ND	ND			
G7S	3/29/1989		ND (4.1)	4.47	4.09			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G7D	7/1/1983		ND (10)	11	BMDL (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G7D	8/30/1983		BMDL (10)	BMDL (10)	BMDL (10)			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
G7D	11/8/1983		ND (10)	BMDL (10)	BMDL (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G7D	2/8/1984		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G7D	10/9/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G7D	4/22/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G7D	4/22/1985		ND (4.1)	ND (1.9)	ND (2)			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
G7D	12/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G7D	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G7D	3/29/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G8S	11/26/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G8S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G9S	10/9/1984		ND (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G9S	4/22/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
G9S	4/22/1985		ND (4.1)	3.4	ND (2)			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
G9S	11/26/1985		ND (4.1)	2.14	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G9S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G9S	10/28/1987		ND	ND	ND			ND	ND			
G10S	10/11/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G10S	4/22/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10S	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10S	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G10S	3/29/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10D	10/11/1984		10	11	BMDL (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
G10D	4/22/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10D	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10D	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G10D	3/29/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10DB	10/11/1984		BMDL (10)	BMDL (10)	ND (10)			ND (10)	ND (10)	ND (10)	17	ND (10)
G10DB	4/23/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	3.4	ND (2.8)
G10DB	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G10DB	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G10DB	3/29/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11S	10/10/1984		BMDL (10)	116	193			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G11S	4/23/1985		2 J	85	72			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
G11S	4/23/1985		BMDL (4.1)	131	76.2			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
G11S	6/19/1985		ND (4.1)	109.7	60.3			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11S	6/19/1985		ND (25)	100	R			ND (50)	ND (25)	R	R	ND (25)
G11S	11/14/1985		BMDL (4.1)	67.7	38.2			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11S	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11S	11/15/1985		ND (1)	65.8	40.5			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G11S	10/29/1987		ND	69	120			ND	ND			
G11S	10/29/1987		ND (4.1)	29.7	84.6			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11S	3/29/1989		ND (4.1)	39.6	27.7			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G11S	3/6/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	10/10/1984		BMDL (10)	59	63			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G11D	4/23/1985		12	70	220			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
G11D	4/23/1985		BMDL (4.1)	106.9	227			ND (10)	ND (2.8)	ND (4)	BMDL (1.6)	ND (2.8)
G11D	6/19/1985		ND (25)	800	300			ND (50)	ND (25)	R	R	ND (25)
G11D	6/19/1985		ND (4.1)	84.1	163.4			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11D	11/14/1985		ND (4.1)	52	106			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11D	11/15/1985		ND (1)	56.2	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G11D	11/3/1987		BMDL (4.1)	47.8	150			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11D	11/4/1987		ND	76	240			ND	ND			
G11D	3/29/1989		BMDL (4.1)	81.3	360			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G11D	3/6/1991		U (5)	26	110			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	12/11/1992		U (5)	24	27			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	2/8/1993		U (5)	29	21			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	3/30/1993		U (5)	61	45			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	5/17/1993		U (5)	12	7.1			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	8/9/1993		9.9	28	20			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	11/8/1993		5.4	28	26			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	3/24/1994		U (5)	6.4	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	5/6/1994		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	8/9/1994		U (5)	24	10			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	11/3/1994		U (5)	16	7.4			U (100)	U (5)	U (5)	U (5)	U (5)
G11D	5/8/1995		U (5)	8.9	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	11/8/1995		U (5)	49	23			U (10)	U (5)	U (5)	U (5)	U (5)
G11D	5/6/1996		U (5)	19	7.3			U (1)	U (5)	U (5)	U (5)	U (5)
G11D	11/5/1996		1.4	8.2		1.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G11D	5/6/1997		0.87	6.7		4.7	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
G11D	11/4/1997		1.4	15.2		7.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G11D	5/6/1998		2	10		2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G11D	4/10/1999		2	6.4		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	5/1/2000		ND (2)	4.5		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	6/23/2000		ND (2)	3.8		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	6/5/2001		ND (2)	3.9		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	6/5/2001	L1	ND (2)	9.4		2.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	6/5/2001	L2	ND (2)	9.9		2.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	6/5/2001	L3	ND (2)	10		2.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	6/18/2002		ND (2)	4.2		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G11D	4/29/2003		3	3		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G11D	4/30/2004		0.95	5.4		1.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G11D	5/12/2005		1.5	0.87		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G11D	6/12/2006		2	2.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G11D	5/30/2007		2.8	3.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G11D	4/22/2008		2.6	3		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G11D	5/7/2009		1.2	3.3		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G11D	6/16/2010		1.4	2.2		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G12S	10/10/1984		12	507	158			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
G12S	4/23/1985		8.8	597.5	128			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
G12S	4/23/1985	RE	ND (25)	420	95			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
G12S	6/19/1985		5 J	640	130 J			ND (50)	ND (25)	R	R	ND (25)
G12S	6/19/1985		6.5	783.7	87.3			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G12S	11/6/1985		7.72	397	124			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G12S	11/15/1985		8.02	580	120			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G12S	10/29/1987		ND	460	ND			ND	ND			
G12S	10/29/1987		ND (4.1)	288	16.8			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G12S	3/28/1989		6.76	442	96.6			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G12S	3/4/1991		U (13)	320	17			U (25)	U (13)	U (13)	U (13)	U (13)
G12S	5/17/1993		U (5)	8.4	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12S	3/23/1994		U (5)	7.3	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12S	5/6/1994		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12S	5/6/1996		U (5)	U (5)	U (5)			U (1)	U (5)	U (5)	U (5)	U (5)
G12S	11/5/1996		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G12S	5/6/1997		U (0.2)	U (0.2)		U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
G12S	5/6/1998		ND (0.5)	ND (0.5)		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G12S	5/1/2000		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12S	6/4/2001		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12S	4/28/2003		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12S	4/30/2004		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12S	6/13/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12S	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12S	5/7/2009		U (0.5)	1.5		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12S	7/8/2010		U (1)	2.7		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G12D	10/10/1984		18	651	506			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
G12D	4/23/1985		17.7	624	343			ND (10)	ND (2.8)	ND (4)	BMDL (1.6)	ND (2.8)
G12D	4/23/1985	RE	11 J	640	300			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
G12D	6/19/1985		15 J	1100	570			ND (50)	ND (25)	R	R	ND (25)
G12D	6/19/1985		12.3	998.7	284.9			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G12D	11/6/1985		11.8	480	170			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G12D	11/15/1985		12.4	716	202			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G12D	10/29/1987		ND	370	45			ND	ND			
G12D	10/29/1987		ND (21)	258	44.8			ND (50)	ND (14)	ND (19)	ND (8)	ND (14)
G12D	3/28/1989		BMDL (4.1)	227	69			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G12D	3/4/1991		6	490 J	68			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	12/11/1992		7.1	430	56			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	2/9/1993		U (5)	170	29			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	5/17/1993		U (5)	68	9.8			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	8/9/1993		U (5)	28	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	11/11/1993		U (5)	36	14			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	3/23/1994		U (5)	13	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	5/6/1994		U (5)	11	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	8/9/1994		U (5)	6.1	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	11/4/1994		9.4	49	23			U (100)	U (5)	U (5)	U (5)	U (5)
G12D	5/8/1995		U (5)	13	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	11/8/1995		U (5)	73	9.8			U (10)	U (5)	U (5)	U (5)	U (5)
G12D	5/6/1996		U (5)	U (5)	U (5)			U (1)	U (5)	U (5)	U (5)	U (5)
G12D	11/5/1996		U (1)	1.1		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G12D	5/6/1997		U (0.2)	0.94		0.51	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
G12D	5/6/1998		ND (0.5)	1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G12D	4/12/1999		ND (2)	25.5		1.8	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	4/12/1999	DUP	ND (2)	44.8		3	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	5/1/2000		ND (2)	3.9		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	6/5/2001		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	6/5/2001		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	6/5/2001	DUP	ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	6/18/2002		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	4/28/2003		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G12D	4/30/2004		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12D	6/13/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12D	5/30/2007		U (0.5)	0.62		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12D	4/22/2008		U (0.5)	2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12D	5/7/2009		U (0.5)	1.7		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G12D	6/16/2010		U (1)	1.3		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G13S	10/2/1985		5.8	54.8	503			439	ND (2.8)	ND (3.8)	4.89	ND (2.8)
G13S	10/3/1985		21.3	75	572			ND (1)	ND (1)	ND (1)	49.6	ND (1)
G13S	11/14/1985		ND (41)	83.3	838			1020	ND (28)	ND (38)	ND (16)	ND (28)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G13S	11/15/1985		6.72	141	1120			8240	ND (1)	2.05	ND (1)	ND (1)
G13S	12/21/1985		ND (41)	56	566			574	ND (28)	ND (38)	ND (16)	ND (28)
G13S	12/24/1985		ND (1)	103	8.78			192	1.6	ND (1)	ND (1)	ND (1)
G13S	4/5/1989		ND (210)	1310	1150			1930	ND (140)	ND (190)	ND (80)	ND (140)
G13S	4/5/1989	DUP	ND (210)	1390	1220			1440	ND (140)	ND (190)	ND (80)	ND (140)
G13S	5/23/1991		7	99	120			19	U	U	U	U
G13S	5/24/1991		8	180	170			38	U	U	U	U
G13S	5/25/1991		7	170	160			34	U	U	U	U
G13S	5/23/2005		3.4	2.2		0.73	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G13D	10/2/1985		BMDL (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	BMDL (1.6)	ND (2.8)
G13D	10/3/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	17.4	ND (1)
G13D	11/14/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G13D	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G13D	12/21/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G13D	12/24/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G13D	4/5/1989		ND (41)	348	862			1110	ND (28)	ND (38)	ND (16)	ND (28)
G13D	5/23/2005		U (0.5)	92		40	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G14S	10/11/1985		ND (1)	23.2	435			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G14S	11/15/1985		ND (1)	18.7	453			73500	ND (1)	ND (1)	ND (1)	ND (1)
G14S	12/6/1985		3.36	72.7	1020			720	ND (1)	ND (1)	ND (1)	ND (1)
G14S	10/28/1987		ND	ND	250			1500	ND			
G14S	10/28/1987	DUP	ND	ND	260			1600	ND			
G14S	3/31/1989		8.96	386	614			730	5.69	ND (3.8)	ND (1.6)	ND (2.8)
G14S	5/13/2005		4.4	U (0.5)		0.63	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G14D	10/10/1985		ND (210)	788	9320			6410	ND (140)	ND (190)	ND (80)	ND (140)
G14D	10/10/1985		ND (4.1)	5.62	120			129	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G14D	10/11/1985		160	830	6250			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G14D	11/14/1985		ND (41)	342	6270			1810	ND (28)	ND (38)	ND (16)	ND (28)
G14D	11/14/1985		ND (4.1)	14.4	419			1850	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G14D	11/15/1985		31.7	814	7410			19200	11.4	ND (1)	ND (1)	ND (1)
G14D	11/27/1985		ND (41)	42.4	824			3770	ND (28)	ND (38)	ND (16)	ND (28)
G14D	11/27/1985		ND (4.1)	16.5	265			211	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G14D	12/6/1985		17.3	588	7930			72100	7.63	ND (1)	52	ND (1)
G14D	1/7/1987		ND (4.1)	83.4	704			5010	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G14D	11/3/1987		9	R	R			R	6			
G14D	3/31/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G14D	3/31/1989	V1	29	391	326			1108		6		
G14D	5/13/2005		0.81	3.8		9.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G15S	10/10/1985		ND (210)	460	7090			5930	ND (140)	ND (190)	ND (80)	ND (140)
G15S	10/11/1985		29.1	436	6490			ND (1)	15.1	ND (1)	ND (1)	ND (1)
G15S	11/14/1985		ND (41)	19.7	4510			2760	ND (28)	ND (38)	ND (16)	ND (28)
G15S	11/15/1985		14.7	52.6	5830			13500	13.7	5.33	ND (1)	ND (1)
G15S	11/27/1985		ND (410)	ND (190)	6100			3320	ND (280)	ND (380)	ND (160)	ND (280)
G15S	12/6/1985		24.1	129	6970			1420	15.3	ND (1)	ND (1)	ND (1)
G15S	12/21/1985		4.98	37.2	5160			2770	11.1	BMDL (3.8)	ND (1.6)	ND (2.8)
G15S	12/24/1985		ND (1)	46.6	6100			617	11.9	ND (1)	ND (1)	32.9
G15S	10/28/1987		ND	ND	1200			2900	ND			
G15S	3/31/1989		ND (4.1)	ND (1.9)	2080			1940	3.02	ND (3.8)	ND (1.6)	ND (2.8)
G15S	5/6/1994		U (5)	U (5)	51			230	U (5)	U (5)	U (5)	U (5)
G15S	5/6/1994	DUP	U (5)	U (5)	57			250	U (5)	U (5)	U (5)	U (5)
G15S	5/18/2005		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G15S	6/7/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G15D	10/10/1985		972	9690	16000			2390	ND (28)	ND (38)	ND (16)	ND (28)
G15D	10/11/1985		396	6750	6380			ND (1)	17.3	7.8	ND (1)	ND (1)
G15D	11/14/1985		212	19.7	4510			1960	ND (28)	ND (38)	ND (16)	ND (28)
G15D	11/15/1985		347	4940	7800			7890	30.2	15.1	ND (1)	ND (1)
G15D	11/27/1985		ND (410)	ND (190)	5690			1390	ND (280)	ND (380)	ND (1.6)	ND (280)
G15D	12/6/1985		122	2350	8510			565	13	ND (1)	ND (1)	ND (1)
G15D	12/21/1985		4.98	37.2	5160			2770	14.9	BMDL (3.8)	ND (1.6)	ND (2.8)
G15D	12/24/1985		57.8	1020	7450			6500	ND (1)	ND (1)	ND (1)	ND (1)
G15D	11/3/1987		ND	200	7300			3600				
G15D	3/31/1989		ND (4.1)	ND (1.9)	6.48			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G15D	3/31/1989	V2	24	162	3144			3245	14			
G15D	5/23/1991		U	78 J	5900			6300	U	U	U	U
G15D	5/24/1991		U	100 J	6100			6600	U	U	U	U
G15D	5/25/1991		UJ	100 J	6200 J			4600 J	UJ	UJ	UJ	UJ
G15D	5/9/1994		6.3	41	720			1000	U (5)	U (5)	U (5)	U (5)
G15D	5/23/2005		0.66	2.4		24	U (0.75)	8.9	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G15D	6/7/2006		0.66	2		15	U (0.75)	7	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G16S	11/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16S	11/4/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G16S	11/26/1985		ND (4.1)	BMDL (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G16S	12/20/1985		ND (4.1)	5.17	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16S	12/24/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G16S	3/30/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G16S	3/30/1989	DUP	ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16D	11/1/1985		ND (4.1)	516	70.6			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16D	11/4/1985		ND (1)	1460	66.2			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G16D	11/26/1985		21.2	765	112			11.9	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16D	12/6/1985		15.1	1450	149			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G16D	12/20/1985		9.21	337	85			12.9	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16D	12/24/1985		32.1	1930	208			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G16D	10/28/1987		ND	1700	250			120	ND			
G16D	3/30/1989		22.9	765	238			101	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16D	3/30/1989	DUP	22.8	914	220			95.4	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G16D	5/23/1991		16 J	790	150			130	U	U	U	U
G16D	5/24/1991		20 J	1200 J	160			130	U	U	U	U
G16D	5/24/1991	COL	17 J	1100 J	160			99	U	U	U	U
G16D	5/24/1991	DUP	21 J	880 J	200			120	U	U	U	U
G16D	5/25/1991		21 J	1000 J	220 J			150 J	UJ	UJ	UJ	UJ
G16D	5/16/2005		U (0.5)	35		8.3	U (0.75)	5.2	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G17S	11/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G17S	11/4/1985		4.4	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G17S	11/26/1985		ND (4.1)	ND (1.9)	2.33			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G17S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G17S	12/21/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G17S	12/24/1985		ND (1)	2.41	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G17D	11/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G17D	11/4/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G17D	11/26/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G17D	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G17D	12/21/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G17D	12/24/1985		ND (1)	ND (1)	2.95			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G18S	11/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	5.27	ND (2.8)
G18S	11/4/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G18S	12/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G18S	12/20/1985		ND (4.1)	13.5	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18S	12/24/1985		ND (1)	23.2	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G18S	3/31/1989		ND (4.1)	8.78	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18S	6/8/2006		U (0.5)	1.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G18D	11/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18D	11/4/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G18D	12/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18D	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G18D	12/20/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18D	12/24/1985		ND (1)	2.91	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G18D	3/31/1989		ND (4.1)	9.78	2.49			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G18D	6/9/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	11/15/1985		58.4	7710	90.9			BMDL (10)	ND (2.8)	ND (3.8)	1.72	ND (2.8)
G19S	11/15/1985		44.3	5390	84.4			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19S	11/19/1985		ND (1)	7130	107			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19S	12/2/1985		78	6020	160			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19S	12/6/1985		85.4	8060	130			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19S	12/20/1985		81.8	8340	129			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19S	12/20/1985		73.9	7020	112			ND (10)	ND (2.8)	ND (3.8)	BMDL (1.6)	ND (2.8)
G19S	12/20/1985		BMDL (210)	6080	169			BMDL (500)	ND (140)	ND (190)	ND (80)	ND (140)
G19S	12/24/1985		78.1	7500	138			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19S	10/30/1987		83	R	100			ND	ND			
G19S	3/28/1989		40.2	4932	150			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19S	11/11/1993		6.6	530	45			U (10)	U (5)	U (5)	U (5)	U (5)
G19S	3/24/1994		U (5)	290	35			U (10)	U (5)	U (5)	U (5)	U (5)
G19S	5/9/1994		U (5)	280	95			U (10)	U (5)	U (5)	U (5)	U (5)
G19S	6/23/2004		U (0.5)	2.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	5/17/2005		U (0.5)	1.1		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	5/30/2007	L1	U (0.5)	1.1		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	5/30/2007	L2	U (0.5)	1.1		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	4/22/2008		U (0.5)	1.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	5/7/2009		U (0.5)	0.82		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G19S	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G19M	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	2.22	ND (2.8)
G19M	11/19/1985		ND (1)	4.72	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19M	11/27/1985		ND (4.1)	9.22	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19M	12/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19M	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19M	12/6/1985		ND (1)	20.8	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19M	12/20/1985		ND (4.1)	11.1	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19M	12/24/1985		ND (1)	53.5	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19M	10/29/1987		BMDL (4.1)	204	3.68			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19M	3/28/1989		BMDL (4.1)	744	11.2			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19M	5/9/1994		10	750	210			13	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G19M	5/17/2005		U (5)	340		240	U (7.5)	14	U (5)	U (5)	U (7.5)	U (5)
G19M	5/17/2005	DUP	U (5)	350		240	U (7.5)	13	U (5)	U (5)	U (7.5)	U (5)
G19M	5/31/2007	L1	U (2.5)	230		190	U (3.8)	8.2	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G19M	5/31/2007	L1D	2.6	220		190	3.9	9.4	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G19M	5/31/2007	L2	U (2.5)	260		230	U (3.8)	9.8	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G19M	4/22/2008		2.5 J	240		200	U (3.8)	12	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G19M	4/22/2008	DUP	UJ (2.5)	240		200	U (3.8)	12	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G19M	5/7/2009		2.5	220		150	U (3.79)	11	U (2.5)	U (2.5)	U (3.79)	U (2.5)
G19M	5/7/2009	DUP	U (2.5)	200		150	U (3.79)	10	U (2.5)	U (2.5)	U (3.79)	U (2.5)
G19M	6/16/2010		2.2	240 D		130	7.4	5.2	U (1)	U (1)	U (1)	U (1)
G19M	6/16/2010	DUP	U (5)	220		110	5.8	U (5)	U (5)	U (5)	U (5)	U (5)
G19D	11/15/1985		ND (4.1)	3.46	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19D	11/19/1985		ND (1)	5.42	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19D	11/26/1985		ND (4.1)	50.7	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19D	12/6/1985		ND (1)	49.4	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19D	12/20/1985		ND (4.1)	23.2	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19D	12/24/1985		ND (1)	33.4	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G19D	10/29/1987		ND (4.1)	76.6	BMDL (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19D	3/28/1989		BMDL (4.1)	193	4.15			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G19D	5/9/1994		U (5)	370	180			U (10)	U (5)	U (5)	U (5)	U (5)
G19D	5/17/2005		5.7	510		420	U (7.5)	13	U (5)	U (5)	U (7.5)	U (5)
G19D	5/31/2007	L2	U (5)	370		420	U (7.5)	U (10)	U (5)	U (5)	U (7.5)	U (5)
G19D	5/31/2007	L3	U (5)	400		410	U (7.5)	U (10)	U (5)	U (5)	U (7.5)	U (5)
G19D	6/26/2007	L1	U (5)	250		370	U (7.5)	U (10)	U (5)	U (5)	U (7.5)	U (5)
G19D	6/4/2008	L2	U (5)	480		510	U (7.5)	19	U (5)	U (5)	U (7.5)	U (5)
G19D	6/4/2008	L3	U (5)	530		530	7.8	20	U (5)	U (5)	U (7.5)	U (5)
G19D	5/7/2009		U (5)	300		330	U (7.5)	18	U (5)	U (5)	U (7.5)	U (5)
G19D	6/16/2010		U (10)	220		350	U (10)	12	U (10)	U (10)	U (10)	U (10)
G20S	10/31/1985		ND (4.1)	133	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20S	11/4/1985		ND (1)	636	15.8			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20S	11/26/1985		14.6	1010	86.3			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20S	12/6/1985		15	1645	111			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20S	12/21/1985		18.4	1140	123			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20S	12/24/1985		11	ND (1)	120			1470	ND (1)	ND (1)	ND (1)	ND (1)
G20S	10/30/1987		ND	2000	800			ND	ND			
G20S	3/28/1989		BMDL (4.1)	153	92.4			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20S	11/11/1993		12	460	1900			120	U (5)	U (5)	U (5)	U (5)
G20S	11/11/1993	DUP	12	800	2600			70	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G20S	3/24/1994		U (5)	45	150			U (10)	U (5)	U (5)	U (5)	U (5)
G20S	5/9/1994		U (5)	150	420			23	U (5)	U (5)	U (5)	U (5)
G20S	5/18/2005		0.58	20		110	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20S	5/31/2007	L1	U (2.5)	27		200	U (3.8)	U (5)	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G20S	5/31/2007	L2	U (2.5)	34		240	U (3.8)	U (5)	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G20S	4/22/2008		U (0.5)	9.5		56	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20S	5/7/2009		U (0.5)	5.4		27	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20S	6/16/2010		1.6	48		290 D	1.2	5.9	U (1)	U (1)	U (1)	U (1)
G20S	8/27/2010		U (5)	26		220	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
G20M	11/1/1985		ND (4.1)	28.3	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20M	11/4/1985		ND (1)	15.1	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20M	11/26/1985		ND (4.1)	41.8	3.89			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20M	12/6/1985		ND (1)	43.9	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20M	12/21/1985		4.32	313	31.3			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20M	12/24/1985		ND (1)	ND (1)	29.9			274	ND (1)	ND (1)	ND (1)	ND (1)
G20M	10/30/1987		ND (21)	358	121			ND (50)	ND (14)	ND (19)	ND (8)	ND (14)
G20M	3/28/1989		8.69	578	116			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20M	5/9/1994		U (5)	180	320			U (10)	U (5)	U (5)	U (5)	U (5)
G20M	5/18/2005		1	54		240	2.4	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20M	5/31/2007	L1	U (2.5)	28		150	U (3.8)	U (5)	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G20M	5/31/2007	L1D	U (2.5)	27		140	U (3.8)	U (5)	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G20M	5/31/2007	L2	U (2.5)	32		160	U (3.8)	U (5)	U (2.5)	U (2.5)	U (3.8)	U (2.5)
G20M	4/22/2008		U (1)	34		160	U (1.5)	U (2)	U (1)	U (1)	U (1.5)	U (1)
G20M	5/7/2009		U (1)	22		100	U (1.5)	U (2)	U (1)	U (1)	U (1.5)	U (1)
G20M	6/16/2010		U (1)	5.3		52	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G20M	8/27/2010		U (1)	U (1)		2.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G20M	8/27/2010	DUP	U (1)	U (1)		3.2	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G20D	11/1/1985		ND (4.1)	15.8	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	11.7	ND (2.8)
G20D	11/4/1985		ND (1)	8.69	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20D	11/26/1985		ND (4.1)	6.98	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20D	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20D	12/21/1985		ND (4.1)	25.8	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20D	12/24/1985		ND (1)	31.3	1.78			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G20D	10/29/1987		ND (4.1)	38.4	6.12			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20D	3/28/1989		ND (4.1)	47.5	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G20D	5/9/1994		U (5)	47	23			U (10)	U (5)	U (5)	U (5)	U (5)
G20D	5/9/1994	DUP	U (5)	43	21			U (10)	U (5)	U (5)	U (5)	U (5)
G20D	5/18/2005		U (0.5)	17 J		42	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G20D	5/31/2007	L1	U (0.5)	1.5		15	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20D	5/31/2007	L2	U (0.5)	4.5		25	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20D	5/31/2007	L3	U (0.5)	1.2		13	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20D	4/22/2008		U (0.5)	4.2		22	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20D	5/7/2009		0.95	23		150	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G20D	6/16/2010		U (1)	5.1		28	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G20D	8/27/2010		U (1)	4.7		29	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G21S	10/23/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G21S	10/28/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G21S	11/6/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	4.31	ND (2.8)
G21S	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G21S	10/30/1987		ND	ND	ND			ND	ND			
G21S	3/28/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G21S	3/4/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G21S	6/12/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21S	5/30/2007	L1	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21S	5/30/2007	L2	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21S	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21S	5/7/2009		U (0.5)	U (0.5)		0.82	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21S	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G21D	10/23/1985		ND (4.1)	3.52	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	BMDL (1.6)	ND (2.8)
G21D	10/28/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G21D	11/6/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G21D	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G21D	11/3/1987		ND	ND	ND			ND	ND			
G21D	3/28/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G21D	3/4/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G21D	6/8/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21D	5/30/2007	L1	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21D	5/30/2007	L2	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21D	5/30/2007	L3	U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21D	4/22/2008		U (0.5)	0.95		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21D	5/7/2009		U (0.5)	0.74		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G21D	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G22S	10/2/1985		24	462	603			17.2	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G22S	10/3/1985		44.8	1049	194			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G22S	11/6/1985		24.7	566	513			15	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G22S	11/15/1985		28.5	1000	928			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G22S	12/21/1985		38.8	924	870			49.8	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G22S	12/24/1985		26.9	1440	1320			ND (1)	ND (1)	ND (1)	ND (1)	79.2
G22S	10/28/1987		BMDL (21)	446	392			ND (50)	ND (14)	ND (19)	ND (8)	ND (14)
G22S	4/4/1989		ND (41)	191	423			ND (100)	ND (28)	ND (38)	ND (16)	ND (28)
G22S	3/4/1991		17	R	R			U (10)	U (5)	U (5)	U (5)	U (5)
G22S	3/4/1991	DIL	22 J	780 J	570 J			U (100)	U (50)	U (50)	U (50)	U (50)
G22S	5/23/2005		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22S	5/30/2007	L1	U (0.5)	0.99		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22S	4/22/2008		U (0.5)	2.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22S	5/7/2009		U (0.5)	3.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22S	6/16/2010		U (1)	1.1		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G22D	10/2/1985		50.8	673	1550			74.1	BMDL (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G22D	10/3/1985		74	2446	696			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G22D	11/6/1985		BMDL (41)	1450	1280			BMDL (100)	ND (28)	ND (38)	ND (16)	ND (28)
G22D	11/15/1985		16.2	1820	1310			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G22D	12/21/1985		45.3	1170	1020			72.5	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G22D	12/24/1985		35.9	1810	1400			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G22D	10/28/1987		46.1	1200	1120			130	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G22D	4/4/1989		ND (410)	1530	971			ND (1000)	ND (280)	ND (380)	ND (160)	ND (280)
G22D	3/4/1991		38	R	R			46	U (5)	U (5)	U (5)	U (5)
G22D	3/4/1991	DIL	26 J	980	620			U (83)	U (42)	U (42)	U (42)	U (42)
G22D	5/23/2005		0.78	21		2.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22D	5/31/2007	L1	U (0.5)	4.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22D	5/31/2007	L2	U (0.5)	4.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22D	5/31/2007	L3	U (0.5)	1.7		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22D	4/22/2008		U (0.5)	3		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22D	5/7/2009		U (0.5)	2.8		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G22D	6/16/2010		U (1)	1.4		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G23S	11/1/1985		ND (4.1)	83.8	313			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G23S	11/4/1985		ND (1)	78.1	242			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G23S	11/6/1985		BMDL (4.1)	77.3	207			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G23S	11/15/1985		ND (1)	60.6	186			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G23S	10/28/1987		ND (4.1)	66	185			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G23S	4/4/1989		ND (4.1)	20.4	84.3			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G23S	3/5/1991		U (5)	39	130			U (10)	U (5)	U (5)	U (5)	U (5)
G23S	5/6/1998		1	ND (0.5)		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G23S	5/10/2005		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23S	6/12/2006		0.93	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G23S	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23S	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23S	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G23D	11/1/1985		ND (4.1)	214	765			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G23D	11/4/1985		1	205	623			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G23D	11/6/1985		BMDL (4.1)	118	359			ND (10)	ND (2.8)	ND (3.8)	2.37	ND (2.8)
G23D	11/15/1985		ND (1)	157	493			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G23D	10/28/1987		BMDL (21)	146	632			ND (50)	ND (14)	ND (19)	ND (8)	ND (14)
G23D	4/4/1989		ND (41)	134	565			ND (100)	ND (28)	ND (38)	ND (16)	ND (28)
G23D	3/5/1991		U (13)	150	420			U (25)	U (13)	U (13)	U (13)	U (13)
G23D	12/11/1992		27	110	240			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	2/8/1993		U (5)	120	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	3/30/1993		7.8	160	300			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	5/17/1993		6.8	170	280			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	8/9/1993		6.6	140	250			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	8/9/1993	DUP	5.6	140	230			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	11/8/1993		12	100	150			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	3/24/1994		10	45	42			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	5/6/1994		6.1	54	72			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	8/9/1994		5.7	66	77			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	11/4/1994		7.1	49	38			U (100)	U (5)	U (5)	U (5)	U (5)
G23D	5/8/1995		U (5)	43	34			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	11/8/1995		U (5)	63	35			U (10)	U (5)	U (5)	U (5)	U (5)
G23D	5/6/1996		U (5)	41	23			U (1)	U (5)	U (5)	U (5)	U (5)
G23D	11/5/1996		1.6	28		18	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G23D	5/6/1997		1.1	23.5		18.4	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
G23D	11/4/1997		3.6 D	44 D		16.6 D	U (3)	U (3)	U (3)	U (3)	U (3)	U (3)
G23D	5/6/1998		ND (0.5)	18		14	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G23D	4/10/1999		ND (2)	31.4		11.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	5/3/2000		ND (2)	17.8		8.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	6/5/2001		ND (2)	22.5		8.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	6/5/2001	L1	ND (2)	19.3		12.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	6/5/2001	L2	ND (2)	26.9		9.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	6/5/2001	L3	ND (2)	24.3		8.6	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	6/18/2002		ND (2)	18.1		7.5	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	4/29/2003		ND (2)	16.7		8.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G23D	4/30/2004		1.7	21		6.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23D	5/10/2005		0.86	8.6		2.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G23D	6/12/2006		1.4	16		5.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23D	5/30/2007		1.5	14		6.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23D	4/22/2008		1.4	9.9		3.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23D	5/7/2009		1.2	6.1		1.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G23D	6/16/2010		U (1)	4		1.4	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G24S	10/10/1985		BMDL (4.1)	198	252			90.5	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24S	10/11/1985		ND (1)	83.9	364			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G24S	11/26/1985		BMDL (4.1)	304	385			102	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24S	12/6/1985		ND (1)	447	539			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G24S	12/21/1985		ND (4.1)	195	513			115	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24S	12/24/1985		ND (1)	272	669			33.7	ND (1)	ND (1)	ND (1)	ND (1)
G24S	3/29/1989		BMDL (4.1)	179	84.3			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24S	5/11/2005		U (0.5)	42		5.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24S	5/31/2007	L1	U (0.5)	31		4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24S	5/31/2007	L2	U (0.5)	34		4.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24S	4/22/2008		0.97	30		1.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24S	5/7/2009		0.66	27		2.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24S	6/16/2010		U (1)	5		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G24D	10/10/1985		ND (4.1)	153	199			56	ND (2.8)	ND (3.8)	5.59	ND (2.8)
G24D	10/11/1985		ND (1)	115	174			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G24D	11/26/1985		BMDL (4.1)	270	331			65.2	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24D	12/6/1985		ND (1)	373	4609			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G24D	12/21/1985		ND (4.1)	201	333			50.1	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24D	12/24/1985		ND (1)	272	3.72			472	ND (1)	ND (1)	ND (1)	ND (1)
G24D	3/29/1989		BMDL (4.1)	217	143			73.5	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G24D	5/11/2005		0.52	46		8.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	5/31/2007	L3	U (0.5)	34		5.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	6/26/2007	L1	U (0.5)	16		5.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	6/26/2007	L1D	U (0.5)	15		5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	6/26/2007	L2	U (0.5)	27 J		4.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	4/22/2008		U (0.5)	31		4.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	4/22/2008	DUP	0.5	24		3.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	5/7/2009		U (0.5)	24		2.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	5/7/2009	DUP	0.51	24		2.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G24D	6/16/2010		1	19		3.4	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G24D	6/16/2010	DUP	1	19		3.1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G25S	10/22/1985		4.71	78.9	933			1580	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G25S	10/28/1985		ND (1)	101	1412			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G25S	11/14/1985		BMDL (4.1)	70.4	1010			2600	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G25S	11/15/1985		7.28	87.2	1220			5110	ND (1)	ND (1)	ND (1)	ND (1)
G25S	12/21/1985		ND (4.1)	27.1	527			1140	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G25S	12/24/1985		ND (1)	27.3	557			343	1.02	ND (1)	ND (1)	ND (1)
G25S	10/28/1987		ND	ND	ND			ND				
G25S	3/29/1989		BMDL (4.1)	18.2	100			224	ND (2.8)	ND (3.8)	ND (1.6)	4.4
G25S	6/8/2006		0.69	0.66		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G25S	6/8/2006	DUP	0.62	0.58		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G25D	10/28/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G25D	10/31/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G25D	11/4/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	69.7	ND (1)	ND (1)
G25D	11/14/1985		BMDL (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G25D	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G25D	12/21/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G25D	12/24/1985		ND (1)	2.41	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G25D	3/29/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26S	10/1/1985		ND (4.1)	14.7	64			21	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26S	10/3/1985		ND (1)	1.67	13.1			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G26S	10/22/1985		ND (4.1)	12.1	86.3			12.1	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26S	10/23/1985		ND (1)	71.6	2460			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G26S	11/14/1985		ND (4.1)	11.5	22.9			BMDL (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26S	11/15/1985		ND (1)	16.3	42.3			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G26S	10/28/1987		ND	5	19			ND	ND			
G26S	3/30/1989		ND (4.1)	10.9	17.2			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26D	10/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26D	10/3/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	5.46	20.7	ND (1)
G26D	10/22/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	BMDL (1.6)	ND (2.8)
G26D	10/23/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G26D	11/14/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G26D	11/15/1985		7.21	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G26D	3/30/1989		ND (4.1)	13.9	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G27S	10/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G27S	10/3/1985		ND (1)	3.32	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G27S	10/22/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G27S	10/23/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G27S	11/14/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G27S	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G27S	3/30/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G27S	6/8/2006		U (0.5)	1.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G27D	10/1/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	8.56	ND (2.8)
G27D	10/3/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	6.23	ND (1)
G27D	10/22/1985		ND (4.1)	3.58	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	2.65	ND (2.8)
G27D	10/23/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G27D	11/14/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G27D	11/15/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G27D	3/30/1989		ND (4.1)	11.2	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G27D	6/8/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28S	10/2/1985		29.4	517	950			222	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G28S	10/3/1985		40.3	1433	786			ND (1)	ND (1)	ND (1)	89	ND (1)
G28S	11/6/1985		69.2	2570	1440			261	ND (28)	ND (38)	ND (16)	ND (28)
G28S	11/15/1985		68.8	2890	2370			811	ND (1)	3.46	ND (1)	ND (1)
G28S	12/20/1985		80.9	2080	3200			1650	4.25	BMDL (3.8)	ND (1.6)	ND (2.8)
G28S	12/24/1985		69.7	3670	3250			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G28S	3/28/1989		30.1	521	741			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G28S	5/11/2005		0.86	21		0.81	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28S	5/30/2007	L1	U (0.5)	12		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28S	5/30/2007	L2	U (0.5)	11		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28S	4/22/2008		0.72	5.9		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28S	5/7/2009		U (0.5)	2.7		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28S	6/16/2010		U (1)	1.8		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G28D	10/2/1985		24.4	470	1210			188	ND (2.8)	ND (3.8)	3.47	ND (2.8)
G28D	10/3/1985		45.2	1186	114			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
G28D	11/6/1985		57.4	2270	1520			237	ND (28)	ND (38)	ND (16)	ND (28)
G28D	11/15/1985		58.8	2480	2370			806	ND (1)	3.8	ND (1)	ND (1)
G28D	12/20/1985		89	2210	3440			1660	ND (28)	ND (38)	ND (16)	ND (28)
G28D	12/24/1985		69.7	2980	3050			158	5.02	ND (1)	ND (1)	ND (1)
G28D	3/28/1989		32.2	1030	1080			592	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G28D	5/11/2005		2.1	50		27	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28D	5/31/2007	L1	1.2	27		12	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28D	5/31/2007	L2	1.3	28		10	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28D	5/31/2007	L3	1.2	27		13	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28D	4/22/2008		0.71	8.8		4.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28D	5/7/2009		0.66	7.2		5.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G28D	6/16/2010		1.1	3.7		2.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G29S	10/30/1987		ND	5	ND			ND	ND			
G29S	3/31/1989		70.1	1960	923			ND (100)	ND (28)	ND (38)	ND (16)	ND (28)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G29S	3/31/1989	DUP	ND (4.1)	5.72	4.32			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G29S	5/30/2007	L1	U (0.5)	U (0.5)		1.5	U (0.75)	1.1	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G29S	5/30/2007	L2	U (0.5)	U (0.5)		1.5	U (0.75)	1.1	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G29S	5/30/2007	L3	U (0.5)	U (0.5)		1.6	U (0.75)	1.4	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G29S	4/22/2008		U (0.5)	0.58		1.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G29S	5/7/2009		U (0.5)	U (0.5)		1.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G29S	6/16/2010		U (1)	1.5		1.2	U (1)	6.8	U (1)	U (1)	U (1)	U (1)
G31S	3/30/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G31D	3/30/1989		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
G32S	6/8/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G34S	3/6/1991		U (50)	280	530			160	U (50)	U (50)	U (50)	U (50)
G34S	5/9/1994		U (5)	200	180			20	U (5)	U (5)	U (5)	U (5)
G34S	6/18/2002		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G34S	4/29/2003		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G34S	4/30/2004		0.61	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G34S	5/10/2005		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G34S	6/8/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G34D	3/6/1991		U (50)	830	1600			370	U (50)	U (50)	U (50)	U (50)
G34D	5/9/1994		U (5)	110	76			U (10)	U (5)	U (5)	U (5)	U (5)
G34D	6/18/2002		ND (2)	32.6		13.6	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G34D	4/29/2003		ND (2)	15.3		8.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G34D	4/30/2004		1	5.9		4.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G34D	5/10/2005		0.83	3.1		3.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G34D	6/8/2006		0.81	2.6		2.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G35S	3/5/1991		13 J	13 J	390 J			180 J	U (13)	U (13)	U (13)	U (13)
G35S	3/5/1991	COL	11 J	6	240 J			69 J	U (5)	U (5)	U (5)	U (5)
G35S	3/5/1991	DUP	U (13)	U (13)	300 J			80 J	U (13)	U (13)	U (13)	U (13)
G35S	5/10/2005		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G35D	3/6/1991		6 J	230	R			R	5 J	U (8)	U (8)	U (8)
G35D	3/6/1991	DIL	U (170)	U (170)	3100			940	U (170)	U (170)	U (170)	U (170)
G35D	5/10/2005		1.2	4.2		22	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G35DB	3/5/1991		U (50)	170	1300			130	U (50)	U (50)	U (50)	U (50)
G35DB	3/5/1991	CLP	ND (25)	170	740			140	ND (25)	ND (25)	ND (25)	ND (25)
G35DB	5/10/2005		2.4	100		87	U (1.9)	U (2.5)	U (1.2)	U (1.2)	U (1.9)	U (1.2)
G36S	3/5/1991		U (25)	430	120			U (50)	U (25)	U (25)	U (25)	U (25)
G36S	8/27/1991		8	600	150			0.4 J	U	U	U	U
G36S	8/27/1991	DIL	7 JD	410 D	110 D			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G36S	12/10/1992		9.8	330	130			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	2/8/1993		5.8	220	69			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	5/17/1993		U (5)	210	32			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	8/9/1993		U (5)	100	24			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	3/23/1994		U (5)	75	18			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	5/6/1994		U (5)	53	14			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	8/9/1994		U (5)	38	9.6			U (10)	U (5)	U (5)	U (5)	U (5)
G36S	5/6/1996		U (5)	5.6	U (5)			U (1)	U (5)	U (5)	U (5)	U (5)
G36S	11/5/1996		U (1)	2		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G36S	5/6/1997		0.24	1.2		U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
G36S	5/6/1998		ND (0.5)	ND (0.5)		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G36S	4/12/1999		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36S	5/1/2000		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36S	6/23/2000		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36S	6/5/2001		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36S	6/19/2002		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36S	4/29/2003		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36S	4/30/2004		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36S	6/12/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36S	5/30/2007		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36S	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	UJ (0.5)
G36S	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36S	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G36D	3/5/1991		42 J	2100 J	1500 J			UJ (100)	UJ (50)	UJ (50)	UJ (50)	UJ (50)
G36D	8/27/1991	DIL	16 J	670	400			U	U	U	U	U
G36D	12/10/1992		11	370	220			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	2/8/1993		5.9	200	110			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	5/17/1993		6.1	220	81			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	8/9/1993		U (5)	110	28			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	11/8/1993		U (5)	180	81			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	3/23/1994		U (5)	120	48			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	3/23/1994	DUP	U (5)	120	48			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	5/6/1994		U (5)	73	30			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	8/9/1994		U (5)	54	20			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	11/4/1994		U (5)	73	38			U (100)	U (5)	U (5)	U (5)	U (5)
G36D	11/4/1994	DUP	U (5)	78	41			U (100)	U (5)	U (5)	U (5)	U (5)
G36D	5/8/1995		U (5)	18	7.9			U (10)	U (5)	U (5)	U (5)	U (5)
G36D	11/8/1995		U (5)	59	22			U (10)	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G36D	5/6/1996		U (5)	20	6.3			U (1)	U (5)	U (5)	U (5)	U (5)
G36D	11/5/1996		U (1)	8		3.3	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G36D	5/6/1997		0.26	4		3	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
G36D	11/4/1997		U (1)	22.3 D		7.2 D	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G36D	5/6/1998		ND (0.5)	3		1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
G36D	4/12/1999		ND (2)	6.4		2.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	5/3/2000		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	5/3/2000	DUP	ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	6/5/2001		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	6/5/2001	DUP	ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	6/5/2001	L1	ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	6/5/2001	L2	ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	6/18/2002		ND (2)	5.2		2.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	4/29/2003		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36D	4/30/2004		U (0.5)	0.55		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36D	11/3/2005		U (0.5)	0.6		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36D	6/12/2006		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36D	5/30/2007		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36D	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36D	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36D	6/16/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G36DB	3/1/1991		6	R	R			U (10)	U (5)	U (5)	5	U (5)
G36DB	3/1/1991	CLP	4 J	88	92			ND (10)	ND (5)	ND (5)	2 J	ND (5)
G36DB	3/1/1991	DIL	U (10)	230	240			U (20)	U (10)	U (10)	U (10)	U (10)
G36DB	8/27/1991	DIL	5 J	350	310			U	U	U	U	U
G36DB	8/27/1991	DUP	5 J	300	270			U	U	U	U	U
G36DB	12/10/1992		7.6	150	150			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB	2/9/1993		34	200	110			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB	5/17/1993		40	310	250			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB	8/9/1993		68	140	120			U (10)	U (5)	5.7	U (5)	U (5)
G36DB	11/8/1993		100	130	100			U (10)	U (5)	12	U (5)	U (5)
G36DB	3/24/1994		110	66	55			U (10)	U (5)	12	U (5)	U (5)
G36DB	5/6/1994		110	48	41			U (10)	U (5)	11	U (5)	U (5)
G36DB	8/9/1994		94	94	72			U (10)	U (5)	U (5)	9.2	U (5)
G36DB	11/3/1994		43	90	66			U (100)	U (5)	U (5)	U (5)	U (5)
G36DB	5/8/1995		62	73	48			U (10)	U (5)	5.2	U (5)	U (5)
G36DB	11/8/1995		67	39	28			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB	5/6/1996		50	34	20			U (1)	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G36DB	12/18/1996		30	23		15	U (10)	U (10)	U (10)	1 J	U (10)	U (10)
G36DB	5/6/1997		32.4	26.2		16.6	U (0.2)	U (0.2)	0.29	2.2	U (0.2)	U (0.2)
G36DB	5/6/1998		32	30		12	ND (0.5)	ND (0.5)	ND (0.5)	1	ND (0.5)	ND (0.5)
G36DB	4/13/1999		34.5	31.2		24.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	5/3/2000		12.5	18.9		7.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/23/2000		42.7	24.6		20.8	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/23/2000		43.9	25.3		21	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/5/2001		28.6	19.5		12.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/5/2001	L1	16.2	35.9		25	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/5/2001	L2	15.4	35.6		24.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/18/2002	21d	40.9	22.2		29.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	6/18/2002	DUP	39.8	21.6		28.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	7/9/2002	21d	31.3	32.6		42	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	7/9/2002	42d	36	25		36	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	4/29/2003		5.4	11.1		26.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DBR	4/30/2004		0.58	4.7		10	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	5/12/2005		13	12		5.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	5/12/2005	DUP	14	13		6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	6/12/2006		7	20		20	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	6/12/2006	DUP	7.7	19		18	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	5/31/2007		12	24		23	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	4/22/2008		9.6	31		23	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	4/22/2008	DUP	2.4 J	10 J		12 J	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	5/7/2009		4.2	17		19	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DBR	6/16/2010		3.1	15		20	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G36DB2	3/5/1991		7	R	R			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	3/5/1991	CLP	7 J	210	140			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
G36DB2	3/5/1991	CLP	9 J	300	200			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
G36DB2	3/5/1991	DIL	U (50)	310	270			U (100)	U (50)	U (50)	U (50)	U (50)
G36DB2	8/27/1991		3	350	270			3 J	U	U	0.4 J	U
G36DB2	8/27/1991	DIL	3 JD	220 D	180 D			U	U	U	U	U
G36DB2	12/10/1992		U (5)	100	70			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	2/9/1993		U (5)	48	33			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	2/9/1993	DUP	U (5)	43	28			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	5/17/1993		33	68	21			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	8/9/1993		30	43	15			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	11/8/1993		45	51	17			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	11/8/1993	DUP	45	53	17			U (10)	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
G36DB2	3/23/1994		35	34	11			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	5/6/1994		37	39	13			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	5/6/1994	DUP	35	38	12			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	8/9/1994		40	39	13			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	8/9/1994	DUP	39	39	12			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	11/3/1994		44	45	15			U (100)	U (5)	U (5)	U (5)	U (5)
G36DB2	5/8/1995		32	36	11			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	11/8/1995		25	30	11			U (10)	U (5)	U (5)	U (5)	U (5)
G36DB2	5/6/1996		19	28	13			U (1)	U (5)	U (5)	U (5)	U (5)
G36DB2	12/18/1996		U (10)	2 J		U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
G36DB2	5/7/1997		12.1	21		13.7	U (0.2)	1.3	0.81	U (0.2)	U (0.2)	U (0.2)
G36DB2	11/4/1997		9.8	17.9		10.8	U (1)	1	0.66	U (1)	U (1)	U (1)
G36DB2	5/6/1998		13	23		13	ND (0.5)	2	1	ND (0.5)	ND (0.5)	ND (0.5)
G36DB2	4/13/1999		16.2	22.8		11.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	5/3/2000		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	6/5/2001		8.1	18.5		7.3	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	6/5/2001	L1	4	19		8.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	6/5/2001	L2	4.2	20.2		9.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	6/5/2001	L2D	6.5	20.4		8.8	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	6/18/2002		6.6	25.7		10.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	4/29/2003		5.4	24.6		11.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
G36DB2	4/30/2004		2.5	23		11	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	5/12/2005		U (0.5)	18		11	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	6/12/2006		U (0.5)	16		11	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	5/31/2007		U (0.5)	7.1		5.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	6/4/2008		U (0.5)	15		15	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	6/4/2008	DUP	U (0.5)	15		16	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	5/29/2009		U (0.5)	7.4		7.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
G36DB2	6/16/2010		U (1)	14		9.6	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G37S	10/6/2010	L1	U (1)	33		3	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G37S	10/6/2010	L2	U (1)	54		4.4	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G37D	10/6/2010	L1	U (1)	11		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G37D	10/6/2010	L1D	U (1)	11		1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G37D	10/6/2010	L2	U (1)	11		1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G38S	10/6/2010	L1	31	2.5		2.3	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G38S	10/6/2010	L2	30	2.4		2.1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G38D	10/6/2010	L1	27 J	1.8		1.6	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G38D	10/6/2010	L2	30	2		1.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW1	3/5/1991		U (62)	U (62)	1900			1200	U (62)	U (62)	U (62)	U (62)
RW1	3/5/1991	CLP	ND (250)	82 J	3600			3000	ND (250)	ND (250)	ND (250)	ND (250)
RW1	5/18/1991		10 J	310	R			R	5 J	U	U	U
RW1	5/18/1991	DIL	U	300	3600			2200	U	U	U	U
RW1	10/5/1992		9.8	160	1400			600	5.9	U (5)	U (5)	U (5)
RW1	3/19/1993		U (5)	110	1700			1000	U (5)	U (5)	U (5)	U (5)
RW1	8/20/1993		U (5)	43	2100			750	U (5)	U (5)	U (5)	U (5)
RW1	2/15/1994		U (5)	150	710			210	U (5)	U (5)	U (5)	U (5)
RW1	8/11/1994		U (5)	66	440			110	U (5)	U (5)	U (5)	U (5)
RW2	3/6/1991		U (5)	U (5)	2100			1500	U (5)	U (5)	U (5)	U (5)
RW2	3/6/1991	COL	U (50)	U (50)	2500			2100	U (50)	U (50)	U (50)	U (50)
RW2	3/6/1991	DUP	U (50)	U (50)	1900			1400	U (50)	U (50)	U (50)	U (50)
RW2	5/18/1991		11 J	250	R			R	U	U	U	U
RW2	5/18/1991	DIL	10 J	240	960			870	U	U	U	U
RW2	10/5/1992		U (5)	16	670			690	U (5)	U (5)	U (5)	U (5)
RW2	3/19/1993		5.3	160	500			550	U (5)	U (5)	U (5)	U (5)
RW2	8/20/1993		6.6	160	570			150	U (5)	U (5)	U (5)	U (5)
RW2	2/15/1994		5.1	150	380			250	U (5)	U (5)	U (5)	U (5)
RW2	8/11/1994		U (5)	51	96			170	U (5)	U (5)	U (5)	U (5)
RW2	11/4/1994		5.7	120	320			200	U (5)	U (5)	U (5)	U (5)
RW2	5/8/1995		U (5)	31	62			12	U (5)	U (5)	U (5)	U (5)
RW2	11/9/1995		U (5)	93	260			78	U (5)	U (5)	U (5)	U (5)
RW2	5/8/1996		U (5)	74	71			36	U (5)	U (5)	U (5)	U (5)
RW2	11/5/1996		3.3	64 E		68 E	1.8	32	2.8	U (1)	U (1)	U (1)
RW2	11/5/1996	DIL	3.1	64		72	U (2)	27	2.5	U (2)	U (2)	U (2)
RW2	5/6/1997		0.35	1.8		2.4	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
RW2	11/4/1997		0.66	2.5		5.3	U (1)	0.71	U (1)	U (1)	U (1)	U (1)
RW2	5/6/1998		ND (0.5)	1		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
RW2	4/12/1999		5.1	2.1		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW2	5/2/2000		4.7	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW2	6/4/2001		ND (2)	ND (2)		ND (2)	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW3	3/1/1991		U (84)	U (84)	2200			1800	U (84)	U (84)	U (84)	U (84)
RW3	3/1/1991	CLP	ND (500)	ND (500)	2500			3000	ND (500)	ND (500)	ND (500)	ND (500)
RW3	5/18/1991		29 J	1300	1300			710	U	U	U	U
RW3	10/5/1992		9.6	210	620			340	U (5)	U (5)	U (5)	U (5)
RW3	3/19/1993		U (5)	150	460			140	U (5)	U (5)	U (5)	U (5)
RW3	8/20/1993		U (5)	140	140			U (10)	U (5)	U (5)	U (5)	U (5)
RW3	2/15/1994		U (5)	46	130			U (10)	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW3	8/11/1994		5.1	170	130			U (10)	U (5)	U (5)	U (5)	U (5)
RW4	4/6/1989		ND (410)	408	2000			3500	ND (280)	ND (380)	ND (160)	ND (280)
RW4	4/6/1989	DUP	ND (410)	411	1920			3430	ND (280)	ND (380)	ND (160)	602
RW4	3/29/1991		U (50)	540	1600			880	U (50)	U (50)	U (50)	U (50)
RW4	3/29/1991	COL	12	R	R			R	U (5)	U (5)	U (5)	U (5)
RW4	3/29/1991	COL	10 J	620	1700			960	U (50)	U (50)	U (50)	U (50)
RW4	3/29/1991	DUP	U (50)	580	1600			930	U (50)	U (50)	U (50)	U (50)
RW4	5/18/1991		7 J	360	1200			730	U	U	U	U
RW4	5/18/1991	DIL	U	340	1200			670	U	U	U	U
RW4	10/5/1992		U (5)	480	1100			310	U (5)	U (5)	U (5)	U (5)
RW4	3/19/1993		17	440	220			U (10)	U (5)	U (5)	U (5)	U (5)
RW4	8/20/1993		21	650	380			40	U (5)	U (5)	U (5)	U (5)
RW4	8/20/1993	DUP	U (5)	670	410			U (10)	U (5)	U (5)	U (5)	U (5)
RW4	2/15/1994		18	510	360			62	U (5)	U (5)	U (5)	U (5)
RW4	8/11/1994		16	500	330			22	U (5)	U (5)	U (5)	U (5)
RW4	8/11/1994	DUP	18	530	340			25	U (5)	U (5)	U (5)	U (5)
RW5	3/31/1989		ND (210)	ND (95)	813			765	ND (140)	ND (190)	ND (80)	ND (140)
RW5	4/1/1991		U (25)	23 J	630			410	U (25)	U (25)	U (25)	U (25)
RW5	5/18/1991		13 J	510	360			46	U	U	U	U
RW5	10/5/1992		6.8	98	70			U (10)	U (5)	U (5)	U (5)	U (5)
RW5	3/19/1993		36	920	350			23	U (5)	U (5)	U (5)	U (5)
RW5	2/15/1994		33	730	240			40	U (5)	U (5)	U (5)	U (5)
RW5	8/11/1994		23	350	180			U (10)	U (5)	U (5)	U (5)	U (5)
RW6	3/29/1991		5 J	200	700			140	U (50)	U (50)	U (50)	U (50)
RW6	5/18/1991		19 J	660	1800			720	U	U	U	U
RW6	10/5/1992		25	750	930			180	U (5)	U (5)	U (5)	U (5)
RW6	3/19/1993		120	3000	1100			140	U (5)	U (5)	U (5)	U (5)
RW6	3/19/1993	DUP	120	3700	1000			240	U (5)	U (5)	U (5)	U (5)
RW6	8/20/1993		120	5100	1900			140	17	U (5)	U (5)	U (5)
RW6	8/18/1994		53	2100	740			36	U (5)	U (5)	U (5)	U (5)
RW6	11/4/1994		48	950	320			15	U (5)	U (5)	U (5)	U (5)
RW6	5/8/1995		19	520	240			U (10)	U (5)	U (5)	U (5)	U (5)
RW6	11/9/1995		23	800	270			U (10)	U (5)	U (5)	U (5)	U (5)
RW6	5/8/1996		16	560	210			U (1)	U (5)	U (5)	U (5)	U (5)
RW6	11/5/1996		25	170 E		120 E	6.8	1.2	U (1)	1.4	3.5	U (1)
RW6	11/5/1996	DIL	19 D	330		160	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
RW6	5/6/1997		7.3	124		28.7	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW6	11/4/1997		2	29.1		13.4	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW6	5/6/1998		4	77		13	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
RW6	4/12/1999		11.4	84.9		40.1	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW6	5/2/2000		3.5	21.2		6.6	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW6	6/4/2001		4.8	31.5		10.5	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW7	3/6/1991		14	570	340			U (25)	U (12)	U (12)	U (12)	U (12)
RW7	5/18/1991		13 J	540	320			U	U	U	U	U
RW7	5/18/1991	DIL	U	450	260			U	U	U	U	U
RW7	10/1/1992		15	410	290			U (10)	U (5)	U (5)	U (5)	U (5)
RW7	3/15/1993		42	270	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
RW7	8/20/1993		9.6	280	150			U (10)	U (5)	U (5)	U (5)	U (5)
RW7	2/16/1994		57	160	87			U (10)	U (5)	5.2	U (5)	U (5)
RW7	8/11/1994		11	190	73			U (10)	U (5)	U (5)	U (5)	U (5)
RW7	3/14/2007		U (0.5)	9.8 J		U (0.5)	U (0.75)	J (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW7	5/30/2007		1.5	3.6		0.72	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW7	8/20/2007		U (0.5)	5.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW7	11/12/2007		12	4.2		1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW7	4/22/2008		U (0.5)	0.89		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW7	5/7/2009		U (0.5)	1.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW7	6/17/2010		U (1)	1.7		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW8	3/6/1991		8 J	370	320			U (25)	U (12)	U (12)	U (12)	U (12)
RW8	5/18/1991		9 J	310 J	250 J			2 J	UJ	UJ	UJ	UJ
RW8	5/18/1991	RE	8 J	290	230			2 J	U	U	U	U
RW8	10/1/1992		9.7	270	240			U (10)	U (5)	U (5)	U (5)	U (5)
RW8	3/15/1993		68	260	250			U (10)	U (5)	6.8	U (5)	U (5)
RW8	8/20/1993		26	260	150			U (10)	U (5)	U (5)	U (5)	U (5)
RW8	2/16/1994		84	150	96			U (10)	U (5)	7.7	U (5)	U (5)
RW8	3/14/2007		1.4 J	15 J		4.1	U (0.75)	U (1)	J (0.5)	J (0.5)	U (0.75)	J (0.5)
RW8	5/30/2007		1.1	4.3		1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	8/20/2007		1.6	8.6		1.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	11/12/2007		18	5		1.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	4/22/2008		1.6	1.9		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	4/22/2008	DUP	1.6	2		0.62	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	5/7/2009		U (0.5)	3.1		1.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	5/7/2009	DUP	U (0.5)	3.2		1.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW8	6/17/2010		U (1)	2.4 J		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW8	6/17/2010	DUP	2.2	2.3		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW9	3/6/1991		U (5)	14	24			U (10)	U (5)	U (5)	U (5)	U (5)
RW9	5/18/1991		4 J	160	230			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW9	10/1/1992		8.3	230	250			U (10)	U (5)	U (5)	U (5)	U (5)
RW9	3/15/1993		180	72	90			U (10)	U (5)	23	U (5)	U (5)
RW9	8/20/1993		42	190	120			U (10)	U (5)	U (5)	U (5)	U (5)
RW9	2/16/1994		160	31	26			U (10)	U (5)	16	U (5)	U (5)
RW9	8/11/1994		18	170	55			U (10)	U (5)	U (5)	U (5)	U (5)
RW9	3/14/2007		19 J	3 J		0.91	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW9	5/30/2007		4.2	4.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW9	8/20/2007		2.1	3.9		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW9	11/12/2007		16	3.7		1.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW9	4/22/2008		4.5	2.5		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW9	5/7/2009		0.63	1		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW9	6/17/2010		2.4	1.7		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW9	6/17/2010	DUP	2.1	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW10	3/6/1991		13	430	450			U (25)	U (12)	U (12)	U (12)	U (12)
RW10	5/18/1991		6 J	180	280			U	U	U	U	U
RW10	10/1/1992		U (5)	130	190			U (10)	U (5)	U (5)	U (5)	U (5)
RW10	3/15/1993		210	86	80			U (10)	U (5)	34	U (5)	U (5)
RW10	8/20/1993		190	140	93			U (10)	U (5)	30	U (5)	U (5)
RW10	2/16/1994		180	37	31			U (10)	U (5)	18	U (5)	U (5)
RW10	2/16/1994	DUP	160	34	29			U (10)	U (5)	18	U (5)	U (5)
RW10	8/11/1994		62	77	34			U (10)	U (5)	5.5	U (5)	U (5)
RW10	11/3/1994		130	49	24			U (100)	U (5)	11	U (5)	U (5)
RW10	5/8/1995		40	40	15			U (10)	U (5)	U (5)	U (5)	U (5)
RW10	11/9/1995		170	35	21			U (10)	U (5)	11	U (5)	U (5)
RW10	5/8/1996		41	27	9.4			U (1)	U (5)	U (5)	U (5)	U (5)
RW10	11/5/1996		30	12		7.1	U (1)	U (1)	U (1)	2.1	U (1)	U (1)
RW10	5/6/1997		15.6	14.8		3.1	U (0.2)	U (0.2)	U (0.2)	0.84	U (0.2)	U (0.2)
RW10	11/4/1997		59.6 E	28.4 D		9.4	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
RW10	5/6/1998		25	16		4	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
RW10	4/9/1999		63.6	7.3		4.5	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	4/9/1999	DUP	62.2	6.8		4.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	5/1/2000		79	6.2		5.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	5/1/2000	DUP	91.8	6.4		4.6	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	6/4/2001		40.8	7.8		3.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	6/4/2001	DUP	39.2	7		3	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	6/18/2002		71.2	7.5		4.6	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	4/30/2003		45.6	5.5		3.3	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW10	4/30/2004		42	4.4		2.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW10	5/25/2005		38	4.4		2.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	6/7/2006		11	4		0.67	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	3/14/2007		20 J	3 J		0.83	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	5/30/2007		0.63	0.72		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	8/20/2007		8.9	2.2		0.55	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	11/12/2007		28	4		2.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	4/22/2008		U (0.5)	2.5		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW10	6/17/2010		8.6	2		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW10	6/17/2010	DUP	9	2.1		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW11	10/1/1992		19	310	350			U (10)	U (5)	U (5)	U (5)	U (5)
RW11	3/15/1993		20	490	360			U (10)	U (5)	U (5)	U (5)	U (5)
RW11	8/20/1993		12	420	220			U (10)	U (5)	U (5)	U (5)	U (5)
RW11	2/16/1994		13	210	97			U (10)	U (5)	U (5)	U (5)	U (5)
RW11	8/11/1994		9.3	160	100			U (10)	U (5)	U (5)	U (5)	U (5)
RW11	11/9/1995		U (5)	150	25			U (10)	U (5)	U (5)	U (5)	U (5)
RW11	3/14/2007		6.2 J	12 J		2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	5/30/2007		U (0.5)	17		1.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	5/30/2007	DUP	U (0.5)	17		1.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	8/20/2007		U (0.5)	14		1.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	11/12/2007		11	6.1		1.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	4/22/2008		3.3	2.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	5/7/2009		U (0.5)	1.8		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW11	6/17/2010		U (1)	2.6		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW12	10/1/1992		13	430	190			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	3/15/1993		10	280	160			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	8/20/1993		8.1	260	130			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	2/16/1994		U (5)	100	29			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	8/11/1994		U (5)	130	34			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	8/11/1994	DUP	U (5)	130	32			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	11/3/1994		6.7	220	74			U (100)	U (5)	U (5)	U (5)	U (5)
RW12	5/8/1995		U (5)	130	25			U (10)	U (5)	U (5)	U (5)	U (5)
RW12	5/8/1996		U (5)	54	6.3			U (1)	U (5)	U (5)	U (5)	U (5)
RW12	11/5/1996		1.5	36		8.3	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW12	5/6/1997		0.4	18.7		2.3	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)	U (0.2)
RW12	11/4/1997		55.8 D	33.9 D		8.8 D	U (3)	U (3)	U (3)	U (3)	U (3)	U (3)
RW12	5/6/1998		1	39		3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
RW12	4/9/1999		3	106		8.3	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW12	5/1/2000		ND (2)	62		5.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW12	6/4/2001		2.6	31.4		2.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW12	6/18/2002		ND (2)	46		2.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW12	4/30/2003		22.2	10.3		2.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW12	4/30/2004		1.1	21		1.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	5/25/2005		U (0.5)	7.8		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	6/7/2006		U (0.5)	4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	3/14/2007		1.4 J	20 J		1.4	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	5/30/2007		U (0.5)	1.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	5/30/2007	DUP	U (0.5)	1.1		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	8/20/2007		3.9	3.5 J		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	11/12/2007		3.3 J	4.2		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	4/22/2008		U (0.5)	6.6		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	5/7/2009		U (0.5)	3.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW12	6/17/2010		U (1)	3.3		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW13	10/1/1992		U (5)	22	37			U (10)	U (5)	U (5)	U (5)	U (5)
RW13	3/15/1993		350	60	U (5)			U (10)	U (5)	54	U (5)	U (5)
RW13	8/20/1993		250	44	32			U (10)	7.5	45	U (5)	U (5)
RW13	2/15/1994		170	25	21			U (10)	U (5)	18	U (5)	U (5)
RW13	8/11/1994		140	26	19			U (10)	U (5)	17	U (5)	U (5)
RW13	11/3/1994		150	28	22			U (100)	U (5)	18	U (5)	U (5)
RW13	5/8/1995		160	19	16			U (10)	U (5)	12	U (5)	U (5)
RW13	11/9/1995		210	32	22			U (10)	U (5)	16	U (5)	U (5)
RW13	5/8/1996		190	19	10			U (1)	U (5)	9.6	U (5)	U (5)
RW13	11/5/1996		93	8		8.1	U (5)	U (5)	U (5)	5.9	U (5)	U (5)
RW13	5/6/1997		104	10.2		5.6	U (0.2)	U (0.2)	0.5	4.9	U (0.2)	U (0.2)
RW13	11/4/1997		240 D	24 D		21 D	U (3)	U (3)	U (3)	9.8	U (3)	U (3)
RW13	5/6/1998		126	14		7	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
RW13	4/9/1999		144	9.9		7.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW13	5/1/2000		129	9		6.4	ND (2)	ND (2)	ND (1)	2	ND (2)	ND (2)
RW13	6/4/2001		80.3	10.6		4.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW13	6/18/2002		90.2	5.5		3.8	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW13	4/29/2003		76.4	4.7		3.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW13	4/30/2004		60	5.3		2.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	6/3/2005		44	2.4		1.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	6/7/2006		40	2.9		1.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	3/14/2007		39 J	3.9 J		1.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	3/14/2007	DUP	39 J	4.1 J		1.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW13	5/30/2007		25	3.4		0.92	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	5/30/2007	DUP	26	3.2		0.95	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	8/20/2007		29	3.2		1.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	8/20/2007	DUP	29	3.2		1.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	11/12/2007		31	4.9		2.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	11/12/2007	DUP	30	4.9		2.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	4/22/2008		20	2.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	4/22/2008	DUP	19	2.4		0.9	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	5/7/2009		20	1.7		0.94	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	5/7/2009	DUP	21	1.8		0.99	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW13	7/8/2010		15	1.6		1.1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW13	7/8/2010	DUP	14	1.6		1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW14	10/1/1992		U (5)	5.2	15			U (10)	U (5)	U (5)	U (5)	U (5)
RW14	3/15/1993		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
RW14	3/14/2007		38 J	3.9 J		1.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW14	5/30/2007		25	3.1		1.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW14	8/20/2007		3.8	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW14	11/12/2007		7.3	1.2		0.69	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW14	4/22/2008		18	2.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW14	5/7/2009		19	1.7		0.94	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW14	6/17/2010		U (1)	U (1)		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW15	10/1/1992		U (5)	8.3	24			U (10)	U (5)	U (5)	U (5)	U (5)
RW15	3/15/1993		U (5)	15	7.9			U (10)	U (5)	U (5)	U (5)	U (5)
RW15	3/14/2007		3.7 J	12 J		1.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW15	5/30/2007		6.1	4.9		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW15	8/20/2007		17	2.2		0.78	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW15	11/12/2007		21	5.1		2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW15	4/22/2008		1.2	1.9		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW15	5/7/2009		8.9	2.4		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW15	6/17/2010		7.1	3.4		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW16	10/1/1992		U (5)	43	140			U (10)	U (5)	U (5)	U (5)	U (5)
RW16	10/1/1992	DUP	U (5)	43	140			U (10)	U (5)	U (5)	U (5)	U (5)
RW16	3/15/1993		U (5)	130	86			U (10)	U (5)	U (5)	U (5)	U (5)
RW16	8/20/1993		97	47	19			U (10)	U (5)	11	U (5)	U (5)
RW16	2/15/1994		U (5)	15	9.5			U (10)	U (5)	U (5)	U (5)	U (5)
RW16	3/14/2007		38 J	4.3 J		1.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW16	5/30/2007		2.9	7		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW16	8/20/2007		8.7	6.5		0.84	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW16	11/12/2007		27	7		3.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW16	4/22/2008		2.2	3.8		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW16	5/7/2009		15	2.1		0.74	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW16	6/17/2010		1.8	3.7		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW17	10/1/1992		U (5)	48	190			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	3/15/1993		15	390	270			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	8/20/1993		29	440	290			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	2/15/1994		31	330	190			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	8/11/1994		54	240	190			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	11/3/1994		65	330	210			U (100)	U (5)	U (5)	U (5)	U (5)
RW17	5/8/1995		61	210	130			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	11/9/1995		44	180	110			U (10)	U (5)	U (5)	U (5)	U (5)
RW17	5/8/1996		41	120	70			U (1)	U (5)	U (5)	U (5)	U (5)
RW17	11/5/1996		34	69 E		57 E	1.8	U (1)	U (1)	1.8	U (1)	U (1)
RW17	11/5/1996	DIL	31	65		54	U (2)	U (2)	U (2)	U (2)	U (2)	U (2)
RW17	5/6/1997		37.2	91.1		41.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW17	11/4/1997		98 D	68.8 D		44.2 D	U (5)	U (5)	U (5)	U (5)	U (5)	U (5)
RW17	5/6/1998		21	70		33	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)	ND (2.5)
RW17	4/9/1999		15.9	54.3		34.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW17	5/1/2000		12.7	34.6		21.6	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW17	6/4/2001		12.5	40.2		22.5	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW17	6/18/2002		20.5	40.3		22.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW17	4/30/2003		14.7	29.2		18.2	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW17	4/30/2004		11	27		16	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	5/25/2005		43	21		14	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	6/7/2006		12	17		12	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	3/14/2007		13 J	22 J		12	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	5/31/2007		24	13		8.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	5/31/2007	DUP	23	13		9.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	8/20/2007		9.2	21		11	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	8/20/2007	DUP	9.8	20		9.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	11/12/2007		6.9	44		24	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	11/12/2007	DUP	6.5	42		24	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	4/22/2008		13	2.6		0.64	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	4/22/2008	DUP	10	2.7		0.54	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	5/7/2009		10	8.4		5.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	5/7/2009	DUP	9.8	8.7		6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW17	6/17/2010		16	7.5		5.1	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW17	6/17/2010	DUP	16	7.4		5.2	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW18	10/1/1992		U (5)	22	64			U (10)	U (5)	U (5)	U (5)	U (5)
RW18	3/15/1993		U (5)	U (5)	5.2			U (10)	U (5)	U (5)	U (5)	U (5)
RW18	2/15/1994		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
RW18	3/14/2007		15 J	14 J		5.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW18	5/31/2007		U (0.5)	1		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW18	8/20/2007		3.8	4.6		2.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW18	11/12/2007		13	24		14	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW18	4/22/2008		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW18	5/7/2009		U (0.5)	U (0.5)		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW18	6/17/2010		1.3	1.7		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW19	10/1/1992		U (5)	28	56			U (10)	U (5)	U (5)	U (5)	U (5)
RW19	3/15/1993		U (5)	37	70			U (10)	U (5)	U (5)	U (5)	U (5)
RW19	3/15/1993	DUP	U (5)	35	62			U (10)	U (5)	U (5)	U (5)	U (5)
RW19	2/15/1994		U (5)	6.6	9.5			U (10)	U (5)	U (5)	U (5)	U (5)
RW19	8/11/1994		39	65	57			U (10)	U (5)	U (5)	U (5)	U (5)
RW19	3/14/2007		30 J	3.9 J		3.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	5/31/2007		11	4.9		2.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	5/31/2007	DUP	12	4.8		3.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	8/20/2007		33	17		40	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	11/12/2007		20	30		30	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	4/22/2008		9.2	1.9		2.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	5/7/2009		13	4.4		3.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW19	6/17/2010		3.4	2.8		2.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW20	10/1/1992		U (5)	64	160			U (10)	U (5)	U (5)	U (5)	U (5)
RW20	3/15/1993		U (5)	120	92			U (10)	U (5)	U (5)	U (5)	U (5)
RW20	8/20/1993		22	91	87			U (10)	U (5)	U (5)	U (5)	U (5)
RW20	2/15/1994		72	53	42			U (10)	U (5)	7.1	U (5)	U (5)
RW20	8/11/1994		83	67	70			U (10)	U (5)	8.3	U (5)	U (5)
RW20	11/3/1994		90	55	59			U (100)	U (5)	8.1	U (5)	U (5)
RW20	11/3/1994	DUP	100	61	59			U (100)	U (5)	11	U (5)	U (5)
RW20	5/8/1995		31	46	38			U (10)	U (5)	U (5)	U (5)	U (5)
RW20	5/8/1995	DUP	22	30	24			U (10)	U (5)	U (5)	U (5)	U (5)
RW20	11/10/1995		17	26	14			U (10)	U (5)	U (5)	U (5)	U (5)
RW20	5/8/1996		21	20	13			U (1)	U (5)	U (5)	U (5)	U (5)
RW20	5/8/1996	DUP	22	22	14			U (1)	U (5)	U (5)	U (5)	U (5)
RW20	11/5/1996		23	18		15	U (1)	U (1)	U (1)	1.7	U (1)	U (1)
RW20	5/6/1997		9.8	10.2		9.2	U (0.2)	U (0.2)	U (0.2)	0.52	U (0.2)	U (0.2)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW20	11/4/1997		13.6	12.7		13.7	U (1)	U (1)	U (1)	0.59	U (1)	U (1)
RW20	5/6/1998		18	22		13	ND (0.5)	ND (0.5)	ND (0.5)	1	ND (0.5)	ND (0.5)
RW20	4/9/1999		10.1	8.9		6.8	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW20	5/1/2000		ND (2)	6.5		4.4	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW20	6/5/2001		ND (2)	8.3		4.3	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW20	6/18/2002		11.7	10.9		5.9	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW20	4/29/2003		8.1	7.3		4.7	ND (2)	ND (2)	ND (1)	ND (2)	ND (2)	ND (2)
RW20	4/30/2004		5.6	6.2		3.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	4/30/2004	DUP	5.4	6.2		3.5	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	5/25/2005		6.6	5.9		3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	5/25/2005	DUP	6.9	6.1		2.8	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	6/7/2006		5	5.2		2.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	3/14/2007		6.7 J	1.6 J		1.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	5/30/2007		13	5.3		2.3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	8/20/2007		19	5.1		3.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	11/12/2007		31	6.9		5.6	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	4/22/2008		9.6	5		2.7	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	5/7/2009		14	4.7		3	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW20	6/17/2010		8.9	4		2	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW21	10/1/1992		U (5)	35	70			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	3/15/1993		U (5)	33	13			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	8/20/1993		U (5)	21	41			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	2/15/1994		U (5)	U (5)	7.9			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	2/15/1994	DUP	U (5)	U (5)	8			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	8/11/1994		U (5)	15	14			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	9/13/1994		U (5)	13	10			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	9/13/1994	DUP	U (5)	14	10			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	11/9/1995		U (5)	6.1	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	11/9/1995	DUP	U (5)	6.1	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
RW21	3/14/2007		U (0.5)	3.2 J		0.69	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW21	5/31/2007		0.85	3.5		0.99	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW21	8/20/2007		15	4.7		2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW21	11/12/2007		22	17		10	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW21	4/22/2008		4.3 J	3.2 J		1.2	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW21	5/7/2009		1.4	3.1		0.64	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW21	6/17/2010		U (1)	3.4		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
RW22	10/5/1992		13	1300	160			U (10)	U (5)	U (5)	U (5)	U (5)
RW22	10/5/1992	DUP	14	1300	170			U (10)	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
RW22	12/11/1992		34	2600	1300			49	U (5)	U (5)	U (5)	U (5)
RW22	3/19/1993		100	500	260			U (10)	U (5)	10	U (5)	U (5)
RW22	5/17/1993		42	3300	2000			120	U (5)	U (5)	U (5)	U (5)
RW22	8/20/1993		U (5)	4600	3400			220	U (5)	U (5)	U (5)	U (5)
RW22	8/20/1993	DUP	52	4800	3500			200	U (5)	U (5)	U (5)	U (5)
RW22	11/11/1993		33	3100	2900			200	U (5)	U (5)	U (5)	U (5)
RW22	5/6/1994		6.2	460	270			19	U (5)	U (5)	U (5)	U (5)
RW22	11/3/1994		50	2200	2500			154	11	U (5)	U (5)	U (5)
RW22	5/8/1995		33	2600	2100			30	U (5)	U (5)	U (5)	U (5)
RW22	11/9/1995		34	3800	3500			130	6.1	U (5)	U (5)	U (5)
RW22	5/8/1996		27	2200	2100			85	U (5)	U (5)	U (5)	U (5)
RW22	1/15/1997		U (50)	1000		1400	U (50)	130	U (50)	U (50)	U (50)	U (50)
RW22	5/6/1997		2.5	158		179	1.1	0.75	0.3	U (0.2)	U (0.2)	U (0.2)
RW22	11/4/1997		31	2360 D		2650 D	U (120)	258 D	5.6	U (5)	U (5)	U (5)
RW22	5/6/1998		ND (12)	391		555	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)
RW22	4/9/1999		12.2	1080		209	4.4	2.4	ND (1)	ND (2)	ND (2)	ND (2)
RW22	5/11/2000		10.2	506		610	4.7	30.6	ND (1)	ND (2)	ND (2)	ND (2)
RW22	6/4/2001		10.6	890		1020	9.4	2.1	2.2	ND (2)	ND (2)	ND (2)
RW22	7/9/2002		15.2	781		1390	27.4	88.1	4.8	ND (2)	ND (2)	ND (2)
RW22	7/9/2002	DUP	13.4	685		1150	20.2	57.8	4.8	ND (2)	ND (2)	ND (2)
RW22	4/30/2003		5.7	391		728	12.4	16.8	2.2	ND (2)	ND (2)	ND (2)
RW22	4/30/2003	DUP	5.8	394		725	12.6	16.1	2.4	ND (2)	ND (2)	ND (2)
RW22	4/30/2004		6	300		620	8.7	U (10)	U (5)	U (5)	U (7.5)	U (5)
RW22	5/25/2005		U (5)	150		400	U (7.5)	U (10)	U (5)	U (5)	U (7.5)	U (5)
RW22	6/7/2006		UJ (0.5)	4.4 J		U (0.5)	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW22	6/7/2006	DUP	5.1 J	7.8 J		1.1	U (0.75)	U (1)	U (0.5)	U (0.5)	U (0.75)	U (0.5)
RW22	3/5/2007		U (5)	210		630	14	U (10)	U (5)	U (5)	U (7.5)	U (5)
RW22	5/31/2007		1.5	130		430	6.8	3.8	0.64	U (0.5)	U (0.75)	U (0.5)
RW22	5/31/2007	DUP	1.4	140		440	6.6	4.2	0.6	U (0.5)	U (0.75)	U (0.5)
RW22	8/20/2007		U (5)	160		480	U (7.5)	U (10)	U (5)	U (5)	U (7.5)	U (5)
RW22	11/12/2007		1.8	220		720	10	9.4	1.3	U (0.5)	U (0.75)	U (0.5)
RW22	4/22/2008		U (5)	110		420	U (7.5)	U (10)	U (5)	U (5)	U (7.5)	U (5)
RW22	5/7/2009		U (5)	130		560	8.2	U (10)	U (5)	U (5)	U (7.5)	U (5)
RW22	6/17/2010		U (10)	46		340	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
RW22	8/30/2010		U (10)	73		460	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)
RW22	9/3/2010		U (10)	220		500	U (10)	27	U (10)	U (10)	U (10)	U (10)
RW22	9/13/2010		U (5)	180		420	5.5	18	U (5)	U (5)	U (5)	U (5)
AB1	12/17/1987		ND	ND	ND				ND	ND	ND	

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
AB1	12/17/1987	DUP	ND	ND	ND				ND	ND	6 J	
AB1	9/2/1993		U	U	4			U	U	U	U	U
AB2M	8/31/1993		21.2 JD	363 BD	UD			UD	UD	UD	UD	UD
AB2R	8/31/1993		20.7 D	144 D	UD			UD	UD	UD	UD	UD
AB2SS	8/30/1993		U	U	U			U	U	U	U	U
B1	1/10/1990		0.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
B2A	1/10/1990		ND (0.5)	ND (0.5)	71.8	67.7	4.1	ND (0.5)	ND (0.5)	ND (0.5)	0.5	ND (0.5)
B3A	1/10/1990		12.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
B4	1/10/1990		ND (0.5)	ND (0.5)	0.8	0.8	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
B5	1/10/1990		6.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
BCW10	11/18/1985		ND (1)	89			ND (1)	ND (2)	ND (1)	2	ND (1)	ND (1)
BCW10	11/19/1985		ND (1)	91.3	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BCW10	9/4/1992		U	380			U	U	U	U	U	U
BCW10	4/29/1993		< (12)	300			< (12)	< (5)	< (12)	5 J	< (12)	< (12)
BCW10	8/13/1993		0.8 J	131 D			U	U	1.3 J	3.5	1.1 J	U
BCW10	12/7/1993		DU	300 D			DU	DU	DU	DU	DU	DU
BCW10	4/12/1994		UD (50)	289 D			UD (50)	UD (25)	UD (50)	UD (50)	UD (50)	UD (50)
BCW13	11/18/1985		ND (1)	1700			1400	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BCW13	11/19/1985		ND (1)	1250	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BCW13	9/9/1992		U	35	U			U	U	U	U	U
BCW13	10/28/1993		U	14.4			U	U	U	U	U	U
BCW14	11/18/1985		ND (1)	24			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BCW14	11/19/1985		ND (1)	37.6	11.6			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BCW14	9/2/1992		U	120			U	U	U	3 J	2 J	U
BCW14	4/28/1993		< (5)	130 J			< (5)	< (2)	< (5)	2 J	2 J	< (5)
BCW14	4/28/1993	DUP	< (5)	76 J			< (5)	< (2)	< (5)	2 J	1 J	< (5)
BCW14	8/17/1993		U	120 D			U	U	U	U	U	U
BCW14	12/6/1993		DU	50.4 D			DU	DU	DU	DU	DU	DU
BCW14	12/6/1993	DUP	DU	37 D			DU	DU	DU	DU	DU	DU
BCW14	4/11/1994		UD (20)	166 D			UD (20)	UD (10)	UD (20)	UD (20)	UD (20)	UD (20)
BCW8	11/18/1985		TR	40			1.7	ND (2)	ND (1)	2	ND (1)	ND (1)
BCW8	11/19/1985		ND (1)	48.5	2.33			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BCW8	9/8/1992		U	250			U	U	U	U	3 J	U
BDW6	5/5/1993		< (250)	8700			< (250)	< (100)	< (250)	160 J	< (250)	< (250)
BDW6	8/26/1993		U	25580 D			U	U	U	U	U	U
BDW6	12/8/1993		DU	25675 D			DU	DU	DU	DU	DU	DU
BDW6	4/13/1994		UD (500)	5428 D			UD (500)	UD (250)	UD (500)	153 JD	148 JD	UD (500)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BMW17	5/4/1993		< (5)	170			< (5)	< (2)	< (5)	1 J	< (5)	< (5)
BOW10	11/18/1985		ND (1)	2.9			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BOW10	11/19/1985		ND (1)	15	6.82			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BOW10	9/4/1992		8 J	390			U	U	U	U	U	U
BOW10	4/29/1993		< (50)	1800			< (50)	370	< (50)	< (50)	< (50)	< (50)
BOW10	8/13/1993		0.6 J	27			U	U	U	U	1 J	U
BOW10	12/7/1993		DU	143 D			DU	DU	DU	DU	DU	DU
BOW10	4/12/1994		UD (100)	585 D			UD (100)	46 JD	UD (100)	UD (100)	UD (100)	UD (100)
BOW13	11/18/1985		ND (1)	54000			5000	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BOW13	11/19/1985		ND (1)	36200	3870			ND (1)	ND (1)	ND (1)	301	ND (1)
BOW13	10/20/1987		ND	4177	206			ND		ND	ND	
BOW13	9/10/1992		U	1 J	32			U	U	U	U	U
BOW13	10/28/1993		U	2.2 J			0.6 J	2.4 J	U	U	U	U
BOW14	11/18/1985		61	54000			2100	ND (2)	ND (1)	ND (1)	1600	ND (1)
BOW14	11/19/1985		54.3	37900	1680			ND (1)	ND (1)	ND (1)	320	ND (1)
BOW14	10/20/1987		ND	13514	4500			ND		ND	76 J	
BOW14	9/15/1992		1 J	150			U	U	U	U	1 J	U
BOW14	4/28/1993		< (25)	110			< (25)	< (10)	< (25)	< (25)	< (25)	< (25)
BOW14	8/26/1993		U	395 D			U	U	U	U	U	U
BOW14	12/6/1993		DU	1056 D			70 DJ	DU	DU	DU	DU	DU
BOW14	4/11/1994		UD (10)	53.9 D			10.8 D	UD (5)	UD (10)	UD (10)	UD (10)	UD (10)
BOW15	9/30/1992		U	U	U			U	U	U	U	U
BOW15	9/30/1992	DUP	U	U	U			U	U	U	U	U
BOW15	10/28/1993		U	2.2 J			U	U	U	U	U	U
BOW16	9/16/1992		U	47	6 J			U	U	U	U	U
BOW8	8/30/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
BOW8	11/8/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
BOW8	11/18/1985		2.4	42			30	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BOW8	11/19/1985		ND (1)	34.7	24.6			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BOW8	9/9/1992		23 J	660			U	U	U	U	U	U
BOW8	12/2/1992		DU	131 D			DU	DU	DU	DU	DU	DU
BOW8	4/23/1993		17	490			< (5)	< (2)	< (5)	3 J	< (5)	< (5)
BOW8	8/13/1993		11	139 JD			U	U	1 J	1.7 J	U	U
BOW8	4/6/1994		5.2 JD	222 D			UD (20)	UD (10)	UD (20)	UD (20)	UD (20)	UD (20)
BOW9	11/18/1985		2.4	5700			TR	ND (2)	3	140	240	71
BOW9	10/20/1987		ND	1730	ND			ND		40	92	
BOW9	11/19/1990		ND (1)	3960	ND (1)			ND (1)	ND (1)	90.5	195	ND (1)
BOW9	9/14/1992		U	59	U			U	U	1 J	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BSSW15	9/29/1992		U	1 J			U	U	U	U	U	U
BSSW15	10/28/1993		0.6 J	U			U	U	U	0.7 J	U	U
BSSW16	9/16/1992		U	160			U	U	U	3 J	U	U
BSSW16	4/26/1993		< (50)	1100			< (50)	< (20)	< (50)	20 J	< (50)	< (50)
BSSW16	8/13/1993		0.6 J	107 D			7.6	4.8	4.2 B	12	1.6 J	U
BSSW16	12/2/1993		DU	14.5 D			2.7 DJ	49.1 D	DU	1.3 DJ	DU	DU
BSSW16	4/8/1994		UD (10)	60.7 D			10.8 D	8.5 D	3 JD	11.2 D	7.1 JD	UD (10)
BSSW17	5/4/1993		< (100)	2500			36 J	68	46 J	67 J	< (100)	< (100)
BSSW5	10/1/1992		U	U	U			U	U	U	U	U
BSSW6	4/18/1985		ND (12500)	440000 J	ND (9000)			ND (10000)	ND (9500)	R	R	ND (5000)
BSSW6	6/17/1985	RE	ND (5000)	180000 J	ND (5000)			ND (10000)	ND (5000)	ND (5000)	R	ND (5000)
BSSW6	11/18/1985		ND (1)	430000			ND (1)	ND (2)	ND (1)	10000	24000	ND (1)
BSSW6	11/19/1985		74.2	14800	5.72			ND (1)	36.3	2830	11700	ND (1)
BSSW6	10/20/1987		ND	177765	ND			ND		2187	4453 J	
BSSW6	10/22/1987		ND	100000	ND			ND		2600	5400	
BSSW6	10/22/1987		ND	190000	ND			ND		2000	6000	
BSSW6	10/2/1992		U	3600	U			U	U	52 J	U	U
BSSW6	5/4/1993		< (250)	2700			< (250)	< (100)	< (250)	< (250)	< (250)	< (250)
BSSW6	8/21/1993		U	4900 BD			U	U	133 JD	U	U	U
BSSW6	12/8/1993		DU	124200 D			DU	DU	DU	DU	10400 DJ	DU
BSSW6	4/12/1994		UD (200)	1518 D			UD (200)	UD (100)	UD (200)	UD (200)	UD (200)	UD (200)
BSW1	4/18/1985		ND (125)	590 J	ND (90)			ND (100)	ND (95)	ND (175)	R	ND (50)
BSW1	6/17/1985	RE	ND (25)	480 J	ND (25)			ND (50)	ND (25)	R	R	ND (25)
BSW1	11/18/1985		22	750			110	ND (2)	ND (1)	12	ND (1)	ND (1)
BSW1	10/21/1987		9.6	814	4.4			ND		ND	5.9	
BSW1	11/19/1990		9.42	688	178			ND (1)	ND (1)	11.6	ND (1)	ND (1)
BSW1	9/18/1992		2 J	79	U			U	U	U	U	U
BSW1	4/22/1993		1 J	32			< (5)	< (2)	< (5)	1 J	< (5)	< (5)
BSW1	8/12/1993		1.6 J	27 D			U	U	U	U	U	U
BSW1	12/1/1993		DU	34.6 D			DU	DU	DU	DU	DU	DU
BSW1	4/5/1994		0.6 J	17.1			U (2)	U (1)	U (2)	U (2)	U (2)	U (2)
BSW10	11/18/1985		ND (1)	ND (1)			ND (1)	ND (2)	ND (1)	1.9	ND (1)	ND (1)
BSW10	11/19/1985		ND (1)	7.81	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BSW10	9/24/1992		U	2 J			U	U	U	U	U	U
BSW12	11/18/1985		ND (1)	ND (1)			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BSW12	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BSW12	9/8/1992		U	4 J			U	U	U	U	U	U
BSW13	11/18/1985		ND (1)	1500			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BSW13	11/19/1985		ND (1)	610	22.3			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BSW13	9/11/1992		U	180	U			U	U	U	U	U
BSW13	4/28/1993		< (5)	70			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BSW13	8/17/1993		U	25			U	U	U	U	U	U
BSW13	10/28/1993		U	7.2			U	U	U	U	U	U
BSW13	12/7/1993		U	U			U	U	U	U	U	U
BSW13	4/11/1994		UD (20)	61 D			UD (20)	UD (10)	UD (20)	UD (20)	UD (20)	UD (20)
BSW14	11/18/1985		ND (1)	37			7.4	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BSW14	11/19/1985		ND (1)	48	13			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BSW14	9/15/1992		U	U			U	U	U	U	U	U
BSW2	4/18/1985		14 J	130	920			33 J	ND (21)	26	ND (21)	ND (21)
BSW2	6/17/1985	RE	ND (50)	200 J	2100 J			300 J	ND (50)	R	R	ND (50)
BSW2	11/18/1985		34	840			2500	360	3	120	ND (1)	ND (1)
BSW2	11/19/1985		ND (1)	121	768			ND (1)	ND (1)	13.6	ND (1)	ND (1)
BSW2	10/20/1987		ND	1651	3693			73		100	54	
BSW2	9/28/1992		U	2 J	U			U	U	U	U	U
BSW2	4/22/1993		< (5)	2 J			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BSW6	4/18/1985		ND (2300)	100000	ND (2300)			ND (4500)	ND (2300)	3000	2800	ND (2300)
BSW6	4/18/1985	DUP	ND (2500)	110000	ND (2500)			ND (5000)	ND (2500)	3200	3000	ND (2500)
BSW6	6/17/1985	RE	ND (2500)	140000 J	ND (2500)			ND (5000)	ND (2500)	R	R	ND (2500)
BSW6	11/18/1985		ND (1)	100000			ND (1)	ND (2)	ND (1)	4900	ND (1)	ND (1)
BSW6	11/19/1985		64.9	27400	ND (1)			ND (1)	ND (1)	2350	1240	ND (1)
BSW6	10/20/1987		ND	36272	ND			ND		911	115	
BSW6	10/2/1992		U	39000	U			U	U	990 J	U	U
BSW6	5/5/1993		< (500)	8400			< (500)	< (200)	< (500)	180 J	< (500)	< (500)
BSW6	8/26/1993		U	25500 D			U	U	U	U	U	U
BSW6	12/8/1993		DU	31620 D			DU	DU	DU	DU	DU	DU
BSW6	12/8/1993	DUP	DU	27420 D			DU	DU	3280 DJ	DU	DU	DU
BSW6	4/13/1994		UD (1000)	7110 D			UD (1000)	UD (500)	UD (1000)	UD (1000)	365 JD	UD (1000)
BSW7	4/18/1985		R	23 J	R			ND (10)	ND (9.5)	ND (17.5)	R	ND (5)
BSW7	6/27/1985		ND (25)	ND (25)	ND (25)			ND (50)	ND (25)	R	R	ND (25)
BSW7	11/18/1985		TR	3.7			2.7	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BSW7	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BSW7	10/22/1987		0.8	3	0.9			ND		ND	ND	
BSW7	9/3/1992		U	U	U			U	U	U	U	U
BSW8	11/18/1985		ND (1)	55			37	ND (2)	ND (1)	1.6	4.4	ND (1)
BSW8	11/19/1985		ND (1)	38.5	27.5			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BSW8	9/9/1992		U	120			U	U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BSW9	11/18/1985		6	12000			2.8	ND (2)	6.9	270	510	140
BSW9	11/19/1985		ND (1)	9340	ND (1)			ND (1)	ND (1)	203	537	ND (1)
BSW9	9/14/1992		U	59	U			U	U	1 J	U	U
BSW9	4/23/1993		< (5)	13			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BSW9	8/12/1993		U	36 D			U	U	U	U	U	U
BSW9	12/1/1993		DU	23.2 D			DU	DU	DU	DU	DU	DU
BSW9	4/5/1994		U	9			U	U	U	U	0.9 J	U
BUG1-1	5/11/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.2
BUG1-1	5/11/1993	DUP	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.73
BUG1-1	8/31/1993		U	0.2 J	U	U	U	U	U	U	U	U
BUG1-1	8/31/1993	COL	U	0.2 J	U	U	U	U	U	U	U	U
BUG1-10	5/11/1993		ND (0.5)	0.55	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
BUG1-11	5/11/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.1
BUG1-2	5/10/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.98	1
BUG1-3	5/10/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.78	1
BUG1-4	5/10/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.97	0.76
BUG1-4	8/31/1993		U	U	U	U	U	U	U	U	U	U
BUG1-5	5/10/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.71	0.76
BUG1-6	5/11/1993		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.2
BUG1-7	5/11/1993		2.9	0.65	1	1	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
BUG1-7	8/31/1993		2	0.7	0.9	0.9	U	U	U	U	U	U
BUG1-8	5/11/1993		0.8	0.89	0.45 J	0.45 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
BUG1-8	8/31/1993		5	0.9	2	2	U	U	U	U	U	U
BUG1-8	8/31/1993	COL	6	1	2	2	U	U	U	U	U	U
BUG1-9	5/11/1993		0.65	1.9	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
BW1	4/18/1985		14	31	ND (5)			ND (10)	ND (5)	2.6 J	ND (5)	ND (5)
BW1	6/27/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	R	ND (5)	ND (5)
BW1	11/18/1985		TR	5.4			2.3	ND (2)	ND (1)	34	ND (1)	ND (1)
BW1	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	27.8	ND (1)	ND (1)
BW1	9/18/1992		U	U	U			U	U	U	U	U
BW10	11/18/1985		ND (1)	170			ND (1)	ND (2)	ND (1)	3.5	1.3	ND (1)
BW10	11/19/1985		ND (1)	193	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BW10	10/20/1987		ND	291.2	ND			ND		6.2	115 J	
BW10	9/3/1992		U	1900			U	U	U	36 J	U	U
BW10	4/29/1993		< (25)	820			< (25)	< (10)	< (25)	< (25)	< (25)	< (25)
BW10	8/20/1993		1.2 J	521 D			U	U	6.1	14	5.1	0.9 J
BW10	12/7/1993		DU	1160 D			DU	DU	DU	DU	DU	DU

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BW10	4/12/1994		UD (100)	835 D			UD (100)	UD (50)	UD (100)	UD (100)	UD (100)	UD (100)
BW11	11/18/1985		ND (1)	1.3			ND (1)	ND (2)	ND (1)	1.1	4.8	ND (1)
BW11	11/19/1985		ND (1)	565	ND (1)			ND (1)	ND (1)	13.1	12.1	ND (1)
BW11	9/3/1992		U	14			U	U	U	U	U	U
BW12	11/8/1985		ND (1)	ND (1)			ND (1)	ND (2)	ND (1)	3.2	ND (1)	ND (1)
BW12	11/15/1985		ND (1)	ND (1)	19.5			ND (1)	ND (1)	2.78	ND (1)	ND (1)
BW12	11/18/1985		ND (1)	1.3			ND (1)	ND (2)	ND (1)	3.2	ND (1)	ND (1)
BW12	11/19/1985		ND (1)	10	ND (1)			ND (1)	ND (1)	2.44	ND (1)	ND (1)
BW12	9/4/1992		U	U			U	U	U	U	U	U
BW13	11/18/1985		ND (1)	230			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BW13	11/19/1985		ND (1)	105	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BW13	9/9/1992		U	750	U			U	U	U	20 J	U
BW13	4/28/1993		< (25)	600			< (25)	< (10)	< (25)	11 J	16 J	< (25)
BW13	8/27/1993		U	191 DB			U	U	U	UJ	5.4 DJ	U
BW13	10/28/1993		UD	241 D			UD	UD	UD	UD	UD	UD
BW13	12/7/1993		DU	324 D			DU	DU	DU	DU	10.2 JD	DU
BW13	4/12/1994		UD (100)	669 D			UD (100)	UD (50)	UD (100)	UD (100)	27 JD	UD (100)
BW14	11/18/1985		ND (1)	71			12	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
BW14	11/19/1985		ND (1)	163	59.7			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BW14	9/29/1992		U	1900			U	U	U	U	35 J	U
BW14	4/27/1993		< (500)	9900			< (500)	< (200)	< (500)	< (500)	160 J	< (500)
BW14	8/13/1993		U	3520 D			U	U	194 JD	U	U	U
BW14	12/6/1993		DU	3980 D			DU	DU	DU	DU	DU	DU
BW14	4/11/1994		UD (2000)	16300 D			UD (2000)	UD (1000)	UD (2000)	UD (2000)	990 JD	UD (2000)
BW15R	9/29/1992		U	6800			U	U	76 J	U	140 J	U
BW15R	4/30/1993		< (500)	11000			< (500)	< (200)	< (500)	220 J	180 J	< (500)
BW15R	8/20/1993		5.8 JD	4000 D			U	U	38 D	88 D	94 D	5.2 JD
BW15R	10/28/1993		UD	4120 D			UD	UD	UD	UD	UD	UD
BW15R	12/6/1993		DU	11160 D			DU	DU	DU	DU	DU	DU
BW15R	4/11/1994		UD (500)	6213 D			UD (500)	UD (250)	UD (500)	UD (500)	153 JD	UD (500)
BW15R	4/11/1994	DUP	UD (2000)	8500			UD (2000)	UD (1000)	UD (2000)	UD (2000)	UD (2000)	UD (2000)
BW16R	9/17/1992		4 J	59			U	U	U	U	U	U
BW16R	4/26/1993		< (5)	180			< (5)	< (2)	< (5)	3 J	15	< (5)
BW16R	8/12/1993		U	41 DB			U	U	U	U	U	U
BW16R	12/2/1993		U	15.9			U	U	U	U	0.6 J	U
BW16R	4/8/1994		0.6 J	24.8			U	U	U	U	U	U
BW17R	5/3/1993		< (25)	480			< (25)	< (10)	< (25)	< (25)	< (25)	< (25)
BW17R	8/23/1993		U	360 D			U	U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BW17R	12/6/1993		DU	215 D			DU	DU	DU	DU	DU	DU
BW17R	4/13/1994		UD (40)	219 D			UD (40)	UD (20)	UD (40)	UD (40)	UD (40)	UD (40)
BW17RD	8/24/1994		< (2)	94			< (2)	< (1)	< (2)	< (2)	2.5	< (2)
BW17RD	9/13/1994		<D (16)	219 D			<D (16)	<D (8)	<D (16)	<D (16)	<D (16)	<D (16)
BW18R	6/23/1994		UD	120000 D			UD	UD	UD	UD	UD	UD
BW18R	9/14/1994		<D (50)	1840 D			<D (50)	<D (25)	<D (50)	<D (50)	<D (50)	<D (50)
BW18RD	6/28/1994		<D (10000)	82400 D			<D (10000)	<D (5000)	<D (10000)	<D (10000)	<D (10000)	<D (10000)
BW18RD	6/28/1994		<D (10000)	78600 D			<D (10000)	<D (5000)	<D (10000)	<D (10000)	<D (10000)	<D (10000)
BW18RD	6/28/1994	DUP	<D (10000)	76800 D			<D (10000)	<D (5000)	<D (10000)	<D (10000)	<D (10000)	<D (10000)
BW18RD	9/8/1994		<D (2000)	191000 D			<D (2000)	<D (1000)	<D (2000)	<D (2000)	3440 D	<D (2000)
BW18RD	9/8/1994		<D (1000)	16800 D			<D (1000)	<D (500)	<D (1000)	<D (1000)	<D (1000)	<D (1000)
BW18RD	11/29/1994		<D (100)	144000 D			<D (100)	<D (50)	<D (100)	558 D	805 D	<D (100)
BW2	4/18/1985		2.9 J	19	4.9 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
BW2	6/17/1985	RE	1 J	32 J	R			ND (10)	ND (5)	ND (5)	R	ND (5)
BW2	11/18/1985		ND (1)	14			4.3	ND (2)	ND (1)	4.5	ND (1)	ND (1)
BW2	11/19/1985		ND (1)	20.6	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BW2	9/28/1992		U	2 J			U	U	U	U	U	U
BW2R	9/28/1992		U	5	U			U	U	U	2 J	U
BW2R	4/22/1993		< (5)	4 J			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BW3	4/17/1985		6.9	130	20			ND (10)	ND (5)	8	ND (5)	3.8 J
BW3	6/27/1985		ND (25)	80	ND (25)			ND (50)	ND (25)	R	R	ND (25)
BW3	11/18/1985		6.6	200			37	26	ND (1)	15	ND (1)	ND (1)
BW3	11/19/1985		ND (1)	143	42.9			ND (1)	ND (1)	16	13.4	ND (1)
BW3	9/17/1992		U	U	U			U	U	U	U	U
BW4	4/18/1985		2.5 J	14	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
BW4	6/17/1985	RE	ND (5)	6.2	ND (5)			ND (10)	ND (5)	ND (5)	R	ND (5)
BW4	11/18/1985		ND (1)	7.4			3.7	ND (2)	ND (1)	7.3	ND (1)	ND (1)
BW4	11/19/1985		ND (1)	441	4.07			ND (1)	ND (1)	14.3	24.3	ND (1)
BW4	10/21/1987		ND	2.1	1.1				ND	ND	ND	
BW4	9/17/1992		U	U			U	U	U	U	U	U
BW5	4/18/1985		R	3400 J	ND (180)			ND (200)	ND (190)	R	R	ND (100)
BW5	6/17/1985		ND (50)	2300	ND (50)			ND (100)	ND (50)	R	R	ND (50)
BW5	11/18/1985		4.2	6700			2.2	ND (2)	3	220	240	ND (1)
BW5	11/19/1985		ND (1)	5760	ND (1)			ND (1)	ND (1)	128	233	ND (1)
BW5	9/30/1992		U	130	U			U	U	2 J	U	U
BW5	4/30/1993		< (5)	69			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BW5	8/12/1993		U	35 D			U	U	U	1 J	U	U
BW5	12/1/1993		DU	15.5 D			DU	DU	DU	DU	DU	DU

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BW5	4/6/1994		UD (4)	142 D			UD (4)	UD (2)	UD (4)	2 JD	1.3 JD	UD (4)
BW5R	10/1/1992		U	U	U			U	U	U	U	U
BW5R	4/30/1993		< (5)	9			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BW5R	8/13/1993		U	24 D			U	U	U	U	0.5 J	U
BW5R	12/1/1993		DU	69.8 D			DU	DU	DU	DU	DU	DU
BW5R	4/6/1994		U	6.6			U	U	U	U	0.6 J	U
BW6R	10/21/1992		U	92000	U			U	U	U	U	U
BW6R	5/5/1993		< (2500)	69000			< (2500)	< (1000)	< (2500)	1200 J	< (2500)	< (2500)
BW6R	5/5/1993	DUP	< (2500)	64000			< (2500)	< (1000)	< (2500)	990 J	< (2500)	< (2500)
BW6R	8/26/1993		U	64000 DB			U	U	1214 DJ	1734 JD	U	U
BW6R	12/8/1993		DU	46750 D			DU	DU	DU	DU	DU	DU
BW6R	4/13/1994		UD (5000)	49375 D			UD (5000)	UD (2500)	UD (5000)	UD (5000)	UD (5000)	UD (5000)
BW6R	4/13/1994	DUP	UD (5000)	46575 D			UD (5000)	UD (2500)	UD (5000)	UD (5000)	UD (5000)	UD (5000)
BW6R	6/10/1994		UD	20900 D			UD	UD	UD	UD	UD	UD
BW6R	6/10/1994		<D (2000)	<D (2000)			<D (2000)	<D (1000)	<D (2000)	<D (2000)	<D (2000)	<D (2000)
BW6RD	8/29/1994		<D (2000)	80400 D			<D (2000)	<D (1000)	<D (2000)	<D (2000)	<D (2000)	<D (2000)
BW6RD	8/29/1994		<D (2000)	96900 D			<D (2000)	<D (1000)	<D (2000)	<D (2000)	<D (2000)	<D (2000)
BW6RD	8/31/1994		<D (1000)	35000 D			<D (1000)	<D (500)	<D (1000)	<D (1000)	<D (1000)	<D (1000)
BW6RD	9/14/1994		< (2000)	48100			< (2000)	< (1000)	< (2000)	< (2000)	< (2000)	< (2000)
BW6RD	9/14/1994		<D (2000)	47000 D			<D (2000)	<D (1000)	<D (2000)	<D (2000)	<D (2000)	<D (2000)
BW6RD	12/2/1994		<D (100)	61800 D			<D (100)	<D (50)	<D (100)	311 D	775 D	<D (100)
BW6RD	12/2/1994	DUP	<D (100)	42400 D			<D (100)	< (50)	<D (100)	271 D	698 D	<D (100)
BW7	4/18/1985		ND (5)	37	6.1			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
BW7	6/27/1985	RE	3 J	13 J	80 J			ND (10)	ND (5)	ND (5)	R	ND (5)
BW7	11/18/1985		2	8.4			9.7	ND (2)	ND (1)	ND (1)	2.7	ND (1)
BW7	11/19/1985		3.5	4.36	7.83			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BW7	9/3/1992		U	U			U	U	U	U	U	U
BW8	11/18/1985		ND (1)	180			1.2	ND (2)	ND (1)	3.6	11	ND (1)
BW8	11/19/1985		ND (1)	154	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
BW8	9/8/1992		U	130			U	U	U	U	U	U
BW8	4/26/1993		< (5)	91			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
BW8	8/13/1993		U	101 D			U	U	U	2	U	U
BW8	12/2/1993		DU	67.8 D			DU	DU	DU	DU	DU	DU
BW8	4/6/1994		UD (10)	82.5 D			UD (10)	UD (5)	UD (10)	UD (10)	4.8 JD	UD (10)
BW9	11/18/1985		1.6	3600			ND (1)	ND (2)	1.3	80	160	ND (1)
BW9	11/19/1985		ND (1)	2730	ND (1)			ND (1)	ND (1)	64.7	195	ND (1)
BW9	10/20/1987		ND	6727	ND			ND		154	207	
BW9	9/11/1992		U	76	U			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
BW9	4/23/1993		< (5)	76			< (5)	< (2)	< (5)	1 J	< (5)	< (5)
BW9	8/12/1993		U	76 D			U	U	U	U	U	U
BW9	12/1/1993		DU	51.1 D			DU	DU	DU	DU	DU	DU
BW9	4/5/1994		UD (10)	58.4 D			UD (10)	UD (5)	UD (10)	UD (10)	2.9 JD	UD (10)
CHM1	7/26/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM1	3/26/1992		ND (50)	ND (50)	ND (50)			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
CHM10	5/1/1992		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHM11	5/1/1992		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHM12	5/1/1992		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHM13	5/1/1992		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHM14	5/1/1992		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHM19	4/27/1992		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM2	7/26/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM3	7/26/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM4	7/26/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM5	10/3/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM5	3/26/1992		ND (50)	ND (50)	ND (50)			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
CHM6	10/3/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM6	3/26/1992		ND (500)	ND (500)	ND (500)			ND (1000)	ND (500)	ND (500)	ND (500)	ND (500)
CHM7	10/3/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM7	3/26/1992		BMQL (5)	BMQL (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHM8	10/3/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM8	3/26/1992		ND (500)	ND (500)	ND (500)			ND (1000)	ND (500)	ND (500)	ND (500)	ND (500)
CHM9	10/3/1990		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
CHM9	3/26/1992		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
CHR6	4/23/1992		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (50)	ND (50)
DP10	5/28/1992		U	U	U	U	U	U	U	U	U	U
DP10	5/28/1992	COL	U	U	U	U	U	U	U	U	U	U
DP10	8/3/1993		U	U	U	U	U	U	U	U	U	U
DP11	6/12/1992		U	U	U	U	U	U	U	U	U	U
DP11	4/6/1993		U	U	U	U	U	U	U	U	U	U
DP11	8/3/1993		U	U	U	U	U	U	U	U	U	U
DP12	5/29/1992		U	U	U	U	U	U	U	U	U	U
DP12	5/29/1992	COL	U	U	U	U	U	U	U	U	U	U
DP12	9/16/1992		1 J	U	U			U	U	U	U	U
DP12	4/5/1993		U	U	U	U	U	U	U	U	U	U
DP12	7/30/1993		U	U	U	U	U	U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
DP13	6/12/1992		0.3 J	U	U	U	U	U	U	U	U	U
DP14	6/12/1992		6	0.5	U	U	U	U	U	U	U	U
DP18D	4/22/1993		U	2	U	U	U	U	0.3 J	4	0.5	U
DP18D	8/2/1993		U	1	U	U	U	U	0.2 J	3	0.5 J	U
DP18S	6/5/1992		0.4 J	0.3 J	U	U	U	U	U	U	0.5	U
DP18S	9/16/1992		U	U	U			U	U	U	U	U
DP18S	8/2/1993		U	U	U	U	U	U	U	U	U	U
DP19	6/5/1992		U	U	U	U	U	U	U	4	0.5 J	U
DP19	8/3/1993		0.2 J	2	U	U	U	U	0.3 J	4	0.5 J	U
DP1D	12/17/1991		U	U	U			U	U	U	U	U
DP1S	12/17/1991		68	5	3 J			U	U	12	U	U
DP1S	12/17/1991	DUP	70	5	4 J			U	U	12	U	U
DP20	6/8/1992		U	0.6	U	U	U	U	U	U	U	U
DP20	8/3/1993		0.2 J	U	U	U	U	U	U	U	U	U
DP21D	4/23/1993		U	0.2 J	U	U	U	U	U	0.3 J	U	U
DP21D	4/23/1993	DUP	0.2 J	0.2 J	U	U	U	U	U	0.3 J	U	U
DP21D	8/2/1993		U	U	U	U	U	U	U	U	U	U
DP21S	6/5/1992		U	U	U	U	U	U	U	U	U	U
DP21S	7/29/1993		U	U	U	U	U	U	U	U	U	U
DP21S	7/29/1993	COL	U	U	U	U	U	U	U	U	U	U
DP22	4/23/1993		U	0.5	U	U	U	U	U	U	0.2 J	U
DP22	8/2/1993		U	U	U	U	U	U	U	U	U	U
DP24D	4/27/1993		U	15	5	5	U	U	U	U	U	U
DP24D	8/6/1993		0.2 J	11	3	3	U	U	U	U	U	U
DP24S	6/1/1992		0.7	40 EJ	6	6	U	U	U	U	U	U
DP24S	4/5/1993		14	7	0.4 J	0.4 J	U	U	U	3	U	U
DP26	6/2/1992		98	45	22			U	U	U	U	U
DP26	6/2/1992	COL	98	45	22			U	U	U	U	U
DP26	4/6/1993		3	0.7	0.4 J	0.4 J	U	U	U	U	U	U
DP26	8/6/1993		4	2	1	1	U	U	U	U	U	U
DP28	4/26/1993		U	U	U	U	U	U	U	U	U	U
DP29	5/27/1992		U	U	U	U	U	U	U	U	U	U
DP2D	12/17/1991		160	2 J	U			U	U	9	1 J	U
DP2D	4/5/1993		93	1	U	U	U	U	U	3	U	U
DP2M	12/17/1991		120	2 J	U			U	U	8	U	U
DP2M	4/5/1993		43	1	0.8	0.8	U	U	U	2	U	U
DP2S	12/17/1991		17	8	6			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
DP2S	4/5/1993		7	3	8.2	8	0.2 J	1	U	U	U	U
DP2S	4/5/1993	COL	7	3	8.3	8	0.3 J	1	U	U	U	U
DP3	12/17/1991		410 E	4 J	5			U	U	11	2 J	U
DP3	12/17/1991	DIL	360	U	U			U	U	9 J	U	U
DP31	6/12/1992		U	U	U	U	U	U	U	U	0.9	U
DP31	9/16/1992		U	U	U			U	U	U	U	U
DP31	8/3/1993		U	U	U	U	U	U	U	U	U	U
DP32	6/8/1992		0.2 J	2	U	U	U	U	U	0.6	0.6	U
DP32	9/16/1992		U	U	U			U	U	U	U	U
DP32	8/2/1993		U	2	U	U	U	U	U	U	U	U
DP32	8/2/1993	COL	U	2	0.2 J	0.2 J	U	U	U	U	U	U
DP35	6/12/1992		U	0.3 J	U	U	U	U	U	U	U	U
DP35	6/12/1992	COL	U	U	U	U	U	U	U	U	U	U
DP35	4/5/1993		U	0.2 J	U	U	U	U	U	U	U	U
DP35	7/30/1993		U	U	U	U	U	U	U	U	U	U
DP36	4/23/1993		U	U	U	U	U	U	U	U	U	U
DP37D	4/23/1993		U	0.2 J	U	U	U	U	U	U	U	U
DP37S	5/27/1992		U	1	0.4 J	0.4 J	U	U	U	U	U	U
DP37S	5/27/1992	COL	U	1	0.5	0.5	U	U	U	U	U	U
DP38	6/1/1992		0.8	2	U	U	U	U	0.3 J	1	U	U
DP38	6/1/1992	COL	0.7	1	U	U	U	U	0.3 J	0.9	U	U
DP38	9/16/1992		U	2 J	U			U	U	U	U	U
DP38	4/5/1993		0.5	1	U	U	U	U	U	0.6	U	U
DP38	8/2/1993		0.5 J	0.9	U	U	U	U	U	0.5	U	U
DP39	6/5/1992		U	0.7	U	U	U	U	U	U	U	U
DP39	8/3/1993		U	0.3 J	U	U	U	U	U	U	U	U
DP4	4/22/1993		1	1	1	1	U	U	U	U	U	U
DP40	6/12/1992		U	0.8	0.6	0.6	U	U	U	U	U	U
DP40	4/5/1993		U	2	1	1	U	U	U	U	U	U
DP40	7/30/1993		U	2	1	1	U	U	U	U	U	U
DP41	6/8/1992		U	U	U	U	U	U	U	U	U	U
DP41	6/8/1992	COL	U	U	U	U	U	U	U	U	U	U
DP41	8/3/1993		1	0.6	U	U	U	U	U	U	U	U
DP41	8/3/1993	COL	1	0.6	U	U	U	U	U	U	U	U
DP5	4/22/1993		4	0.9	0.3 J	0.3 J	U	U	U	2	U	U
DP6D	4/22/1993		18	10	6.3	6	0.3 J	U	0.2 J	2	0.9	U
DP6D	4/22/1993	DUP	16	9	5.2	5	0.2 J	U	U	2	0.9	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
DP6D	8/9/1993		11	6	4	4	U	U	U	0.6	0.3 J	U
DP6S	6/3/1992		57	44	21			U	U	U	11	U
DP6S	8/9/1993		7	7	8	8	U	0.3 J	U	0.6	150	U
DP7	6/3/1992		89	35	14			U	U	U	U	U
DP7	6/3/1992	COL	100	38	14			U	U	U	U	U
DP7	4/6/1993		6	2	0.5	0.5	U	U	U	U	U	U
DP7	4/6/1993	COL	6	2	0.5	0.5	U	U	U	U	U	U
DP7	8/9/1993		7	3	1	1	U	U	U	0.6	0.2 J	U
DP8	6/12/1992		U	0.4 J	U	U	U	U	U	U	U	U
DP9D	4/23/1993		U	U	U	U	U	U	U	U	U	U
DP9S	5/26/1992		U	U	U	U	U	U	U	U	U	U
DP9S	5/26/1992	COL	U	U	U	U	U	U	U	U	U	U
EPA1	12/16/1987		110	71						34		
EPA1	12/16/1987		96	37	2					26	ND	
EPA1	12/16/1987	DUP	92	41	1					26	ND	
EPA1	9/29/1988		96	38					ND	25		
EPA1	7/21/1989		34	13	ND					5		
EPA2	12/16/1987		12	9						ND		
EPA2	12/16/1987		9	R	2					ND	ND	
EPA2	9/29/1988		ND	ND					ND	ND		
EPA2	7/21/1989		ND	ND	ND					ND		
EPA3	12/16/1987		ND	ND						ND		
EPA3	12/16/1987		84	27	6					5	ND	
EPA3	9/29/1988		ND	ND					ND	ND		
EPA3	7/21/1989		ND	ND	ND					ND		
G39D	10/6/2010	L1	3.7	1		3.5	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G39D	10/6/2010	L2	4.5	1.7		6.8	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
G39S	10/6/2010	L1	44	1		U (1)	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
ESS-1	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-10	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-2	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-3	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-4	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-5	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-5	7/8/1996	DUP	ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-6	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-7	7/8/1996		ND (2)	ND (2)		ND (2)	ND (2)	ND (4)	ND (2)	ND (2)	ND (2)	ND (2)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
ESS-8	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
ESS-9	7/8/1996		ND (1)	ND (1)		ND (1)	ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
GO1S	10/11/1984		BMDL (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	BMDL (10)	ND (10)
GO1S	4/24/1985		5.7	2	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1S	4/24/1985		R	R	ND (5)			ND (10)	ND (5)	ND (5)	R	ND (5)
GO1S	5/15/1985		R	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1S	5/15/1985		5.8	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
GO1S	6/19/1985		ND (25)	ND (25)	ND (25)			ND (50)	ND (25)	ND (25)	R	ND (25)
GO1S	6/19/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1S	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1S	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
GO1S	12/22/1987		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1S	4/5/1989		19.1	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1S	9/19/1990		ND	ND	ND				ND	ND	ND	
GO1S	9/19/1990	524	13	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.2 J	2	ND (0.5)
GO1S	2/28/1991		37	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
GO1S	12/21/1992		U	U	U			U	U	U	U	U
GO1S	2/9/1993		U	U	U			U	U	U	U	U
GO1S	3/29/1993		0.6 J	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ
GO1S	3/29/1993	RE	0.6	U	U	U	U	U	U	U	U	U
GO1S	3/22/1994		1 J	U (10)	U (10)			U (10)	U (10)	U (10)	2 J	U (10)
GO1S	5/10/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
GO1S	2/14/1995		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1S	2/6/1996		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	3 J	U (10)
GO1S	5/7/1996		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
GO1D	10/11/1984		123	82	47			BMDL (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
GO1D	4/24/1985		370 J	R	ND (50)			ND (100)	ND (50)	34 J	R	ND (50)
GO1D	4/24/1985		119	3.6	ND (2)			ND (10)	ND (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
GO1D	5/15/1985		2616	22.9	11.9			ND (10)	7.3	113.2	ND (1.6)	ND (2.8)
GO1D	5/15/1985		900 J	7 J	ND (5)			ND (10)	ND (5)	27 J	ND (5)	ND (5)
GO1D	11/15/1985		75.9	BMDL (1.9)	ND (1.6)			ND (10)	ND (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
GO1D	11/19/1985		105	12.1	ND (1)			ND (1)	ND (1)	3.46	ND (1)	ND (1)
GO1D	12/22/1987		1410	8.88	11.7			ND (10)	ND (2.8)	39.4	ND (1.6)	ND (2.8)
GO1D	4/5/1989		889	ND (19)	ND (16)			ND (100)	ND (28)	ND (38)	ND (16)	ND (28)
GO1D	9/20/1990	524	810 E	8	2	2	ND (0.5)	ND (0.5)	1	9	ND (0.5)	ND (0.5)
GO1D	9/20/1990	CLP	710	8 J	ND (20)			ND (40)	ND (20)	8 J	ND (20)	ND (20)
GO1D	2/28/1991		R	5	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
GO1D	2/28/1991	CLP	84	1 J	ND (5)			ND (10)	ND (5)	1 J	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
GO1D	2/28/1991	DIL	210	U (13)	U (13)			U (25)	U (13)	U (13)	U (13)	U (13)
GO1D	3/29/1993		3	U	U	U	U	U	U	U	3	U
GO1D	8/10/1993		3	U	U	U	U	U	U	U	1	U
GO1DB	10/11/1984		738	58	23			ND (10)	BMDL (10)	187	ND (10)	ND (10)
GO1DB	4/24/1985		R	ND (500)	ND (500)			ND (1000)	ND (500)	ND (500)	R	ND (500)
GO1DB	4/24/1985		516.4	18.9	10			ND (10)	4.9	77.4	ND (1.6)	ND (2.8)
GO1DB	5/15/1985		790.7	20.7	6.6			ND (10)	3	40.6	ND (1.6)	ND (2.8)
GO1DB	5/15/1985		2000 J	10 J	5 J			ND (10)	4 J	95 J	R	ND (5)
GO1DB	6/19/1985		3000	20	R			ND (50)	ND (25)	260	R	ND (25)
GO1DB	6/19/1985		2503	24.5	11.4			ND (10)	7.3	109.6	ND (1.6)	ND (2.8)
GO1DB	11/15/1985		1620	11.3	7.41			ND (10)	5.56	93.7	ND (1.6)	ND (2.8)
GO1DB	11/19/1985		2510	17	8.8			ND (1)	6.06	77.7	ND (1)	ND (1)
GO1DB	12/22/1987		191	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1DB	4/5/1989		13.4	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
GO1DB	9/20/1990	524	330	3	0.7	0.7	ND (0.5)	ND (0.5)	0.5 J	3	1	ND (0.5)
GO1DB	9/20/1990	CLP	180	3 J	ND (5)			ND (10)	ND (5)	2 J	1 J	ND (5)
GO1DB	2/28/1991		290	8 J	U (100)			U (200)	U (100)	3 J	U (100)	U (100)
GO1DB	5/15/1991		1000	U (50)	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)
GO1DB	5/29/1991		R	29	10			U (10)	U (5)	12	U (5)	U (5)
GO1DB	5/29/1991	DIL	1000	U (50)	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)
GO1DB	9/16/1992		390	8 J	U			U	U	U	U	U
GO1DB	9/17/1992		480 E	10 J	3 J			U	U	4 J	U	U
GO1DB	9/17/1992	DIL	380 D	9 JD	U			U	U	4 JD	U	U
GO1DB	12/21/1992		480	29	6.7			U	U	U	U	U
GO1DB	2/9/1993		330	24	6			U	U	U	U	U
GO1DB	3/29/1993		290 E	16	4 J			U	U	2 J	U	U
GO1DB	3/29/1993	524	360	13	3 J	3 J	U	U	U	2 J	U	U
GO1DB	5/12/1993		230	13	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1DB	5/12/1993	COL	240	14	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1DB	8/10/1993			15	4	4	U	U	0.9	2	1	U
GO1DB	8/10/1993	524	250 J									
GO1DB	11/10/1993		190	ND (10)	ND (10)			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
GO1DB	11/10/1993	COL	170	21	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1DB	3/22/1994		140	8 J	2 J			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	3/22/1994	COL	140	9 J	2 J			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	5/10/1994		110	6 J	1 J			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	5/10/1994	COL	110	6 J	1 J			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	8/10/1994		110	6 J	1 J			U (10)	U (10)	U (10)	1 J	U (10)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
GO1DB	8/10/1994	COL	100	6 J	1 J			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	11/8/1994		93	5.8	ND (5)			ND (10)	ND (5)	ND (5)	2.4 J	ND (5)
GO1DB	11/8/1994	COL	91	5.9	ND (5)			ND (10)	ND (5)	ND (5)	2.4 J	ND (5)
GO1DB	2/14/1995		73	4 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1DB	2/14/1995	COL	71	4.1 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
GO1DB	5/9/1995		67	4 J	ND (10)			ND (10)	ND (10)	ND (10)	2 J	ND (10)
GO1DB	5/9/1995	COL	68	4 J	ND (10)			ND (10)	ND (10)	ND (10)	2 J	ND (10)
GO1DB	8/9/1995		62	4 J	ND (10)			ND (10)	ND (10)	ND (10)	2 J	ND (10)
GO1DB	8/9/1995	COL	160	4 J	2 J			ND (10)	ND (10)	6 J	1 J	ND (10)
GO1DB	11/7/1995		81	5 J	U (10)			U (10)	U (10)	U (10)	2 J	U (10)
GO1DB	11/7/1995	COL	61	4 J	U (10)			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	2/6/1996		38	3 J	U (10)			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	2/6/1996		48	3 J	U (10)			U (10)	U (10)	U (10)	1 J	U (10)
GO1DB	5/7/1996		36	2 J	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
GO1DB	5/7/1996	DUP	46	3 J	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
GO1DB	4/22/1997		32	2		U (2)	U (2)	U (2)	U (1)	U (1)	2	U (1)
GO1DB	4/22/1998		30	2		U (2)	U (2)	U (2)	U (1)	U (1)	3	U (1)
GO1DB	4/8/1999		24	2		U (2)	U (2)	U (2)	U (1)	U (1)	0.9 J	U (1)
GO1DB	4/27/2000		26	2		U (2)	U (2)	U (2)	U (1)	U (1)	0.8 J	U (1)
GO1DB	4/27/2001		23	2		U (2)	U (2)	U (2)	U (1)	U (1)	220	U (1)
GO1DB	5/3/2002		20 J	2 J		U (2)	U (2)	U (2)	U (1)	U (1)		U (1)
GO1DB	5/3/2002	D									160	
GO1DB	5/3/2002	DIL	6	U (2)		U (4)	U (4)	U (4)	U (2)	U (2)		U (2)
GO1DB	5/3/2002	EX									260 E	
GO1DB	4/30/2003		15	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	28	U (1)
GO1DB	4/28/2004		15	2	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	36	U (1)
GO1DB	4/27/2005		12	2	U (2)	U (1)	U (1)	U (2)	U (1)	UJ (1)	15	U (1)
GO1DB	5/4/2006		12	2	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	5	U (1)
GO1DB	4/19/2007		8	1 J	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	4	U (1)
GO1DB	4/17/2008		8	1 J	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	1 J	U (1)
GO1DB	4/16/2009		7	1	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	0.6 J	U (1)
GO1DB	7/23/2010		6	1	U (2)	U (1)	U (1)	U (2)	U (1)	UJ (1)	0.4 J	UJ (1)
IUS1	12/8/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS1	12/8/1983		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS1	12/8/1983	DUP	ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS1	2/15/1991		U (25)	U (25)	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
IUS2A	5/1/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS2A	5/1/1984	DUP	ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
IUS2A	4/9/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
IUS2A	2/14/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS2B	5/1/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS2B	4/9/1985		2 J	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
IUS2B	2/14/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS2C	5/1/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS2C	4/9/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
IUS2C	2/14/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS2C	2/14/1991	COL	U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS2C	2/14/1991	DUP	U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS3A	5/1/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS3A	2/12/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
IUS3A	2/12/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
IUS3B	5/1/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS3B	2/12/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
IUS3B	2/12/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
IUS3B	2/12/1991	COL	U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS3B	2/12/1991	DUP	U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
IUS3C	5/1/1984		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
IUS3C	2/13/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
K42D	7/26/1993		540	17	2 J	2 J	U	U	U	U	U	U
K42M	7/27/1993		0.9	U	U	U	U	U	U	U	U	U
K42S	7/27/1993		0.5 J	U	0.3 J	0.3 J	U	U	U	U	U	U
K43D	7/22/1993		U	U	U	U	U	U	U	U	0.3 J	U
K43D	7/22/1993	COL	U	U	U	U	U	U	U	U	0.3 J	U
K43S	7/22/1993		U	U	U	U	U	U	U	U	U	U
K44D	7/26/1993		0.5	0.3 J	0.5 J	0.5 J	U	U	U	U	U	U
K44D	7/26/1993	COL	0.5 J	0.3 J	0.5 J	0.5 J	U	U	U	U	U	U
K44S	7/29/1993		U	U	U	U	U	U	U	U	U	U
K45	7/27/1993		U	0.2 J	U	U	U	U	U	U	U	U
K45	9/8/1993		0.4 J	0.5 J	U	U	U	U	U	U	U	U
K46	7/28/1993		U	U	0.3 J	0.3 J	U	U	U	U	U	U
K47	7/22/1993		U	U	U	U	U	U	U	U	U	U
K48	7/28/1993		1	1	0.7	0.7	U	U	U	0.4 J	U	U
K49D	7/23/1993		U	0.8	U	U	U	U	U	U	U	U
K49M	7/23/1993		U	0.4 J	U	U	U	U	U	U	U	U
K49S	7/29/1993		U	1	U	U	U	U	U	0.4 J	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
K50	7/23/1993		0.4 J	8	0.5 J	0.5 J	U	U	2	1	2	U
K51D	8/4/1993		U	U	U	U	U	U	U	U	U	U
K51D	9/7/1993		U	U	U	U	U	U	U	U	U	U
K51D	9/7/1993	COL	U	U	U	U	U	U	U	U	U	U
K51M	7/23/1993		U	0.2 J	U	U	U	U	U	U	U	U
K51M	7/23/1993	COL	U	0.2 J	U	U	U	U	U	U	U	U
K53D	7/23/1993		U	U	U	U	U	U	U	U	U	U
K53M	7/23/1993		U	0.4 J	U	U	U	U	U	U	U	U
K54D	7/23/1993		UJ	0.3 J	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ
K54D	7/23/1993	RE	U	U	U	U	U	U	U	U	U	U
K54M	7/27/1993		U	0.2 J	U	U	U	U	U	U	U	U
K54M	7/27/1993	COL	U	U	U	U	U	U	U	U	U	U
K55D	7/26/1993		260	44	11	11	U	U	8	37	U	U
K55M	8/4/1993		38	1	0.3 J	0.3 J	U	U	1	6	U	U
K55M	9/9/1993		26	1	U	U	U	U	U	3	U	U
K56D	7/26/1993		1	5	0.5 J	0.5 J	U	U	U	0.6	U	U
K56M	7/26/1993		0.3 J	2	U	U	U	U	U	0.5 J	U	U
K57D	7/27/1993		U	U	U	U	U	U	U	U	U	U
K57M	7/27/1993		U	U	U	U	U	U	U	U	U	U
K58D	7/28/1993		U	U	U	U	U	U	U	U	U	U
K58D	7/28/1993	COL	U	U	U	U	U	U	U	U	U	U
K58D	9/8/1993		U	U	U	U	U	U	U	U	U	U
K58D	9/8/1993	COL	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ
K58S	7/28/1993		U	U	U	U	U	U	U	U	0.3 J	U
K59D	9/9/1993		U	U	U	U	U	U	U	U	U	U
K59S	9/9/1993		U	U	U	U	U	U	U	U	U	U
K60D	10/19/1993		26	0.8	0.5 J	0.5 J	U	U	U	0.9	U	U
K60M	10/19/1993		180	10	4	4	U	U	3 J	18	U	U
K60S	10/19/1993		18	0.9	U	U	U	U	U	2	0.3 J	U
K60S	8/4/2010		U (0.05)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.025 J	U (1)
K61D	10/20/1993		32	5	5	5	U	U	0.3 J	2	U	U
K61M	10/20/1993		400	23	9 J	9 J	U	U	9 J	45	U	U
K61M	10/20/1993	COL	330	20	8 J	8 J	U	U	7 J	39	U	U
K62D	10/19/1993		11 J	2 J	3 J	3 J	UJ	UJ	UJ	0.5 J	UJ	UJ
K62M	10/19/1993		190 J	22	13	13	U	U	4	25	U	U
K62M	10/19/1993	COL	170 J	21	13	13	U	U	4	23	U	U
K62S	10/19/1993		120	11	4	4	U	U	2 J	13	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
K63D	10/18/1993		82	14 J	3 J	3 J	UJ	UJ	0.9 J	5 J	UJ	UJ
K63M	10/18/1993		90	13	1 J	1 J	U	U	U	10	U	U
K63M	10/18/1993	COL	98	14	2 J	2 J	U	U	U	10	U	U
K63S	10/18/1993		3	0.8	U	U	U	U	U	0.8	0.8	U
K64D	10/20/1993		29	6	1	1	U	U	0.2 J	1	0.3 J	U
MR1SS	8/31/1993		3.8	1.4 J	U			U	1.3 J	3.7	U	U
MR2SS	8/31/1993		UD	22.6 D	461 D			UD	UD	UD	UD	UD
MW4D	9/2/1993		U	3.6	U			U	U	U	4.1	U
MW4M	9/1/1993		U	U	U			U	U	U	U	U
MW4SS	9/1/1993		U	1.4 J	1.3 J			U	1.4 J	2.9	U	U
NEP101	9/29/1988		2000	870					10	530		
NEP101	7/21/1989		3300	950	7					330		
NEP101B	9/29/1988		860	250					3.5	150		
NEP101B	7/21/1989		250	47	10					9		
NEP102	9/29/1988		8.8	ND					ND	ND		
NEP102	7/21/1989		ND	ND	ND					ND		
NEP102B	9/29/1988		11	2.2					ND	ND		
NEP102B	7/21/1989		ND	ND	ND					ND		
NEP103B	9/29/1988		ND	ND					ND	ND		
NEP103B	7/21/1989		ND	ND	ND					ND		
NEP104	9/29/1988		63	24					ND	14		
NEP104	7/21/1989		30	9	ND					ND		
NEP104B	9/29/1988		11	4.8					ND	ND		
NEP104B	7/21/1989		10	4	ND					7		
NEP103	9/29/1988		ND	ND					ND	ND		
NEP103	7/21/1989		ND	ND	ND					ND		
NEP105B	9/29/1988		ND	ND					ND	ND		
NEP105B	7/21/1989		ND	ND	ND					ND		
NEP106B	9/29/1988		120	56					3.7	34		
NEP106B	7/21/1989		ND	ND	ND					ND		
NEP107B	9/29/1988		ND	ND					ND	ND		
NEP107B	7/21/1989		ND	ND	ND					ND		
NEP108	7/21/1989		6	8	4					ND		
NEP108B	7/21/1989		4	5	2					ND		
NEP109	7/21/1989		ND	ND	ND					ND		
NEP109B	7/21/1989		5	ND	ND					ND		
NEP110B	7/21/1989		21	18	ND					6		

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
NEP2	11/6/1987		330	59	11					16	ND	
NEP2	12/16/1987		280	79						20		
NEP2	12/16/1987		270	52	9					17	ND	
NEP3	12/16/1987		ND	ND	ND					ND	1 J	
NEP3	12/16/1987		120	65						10		
NEP3	8/23/1990	524	690	67	14 J	14 J	ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (17)
NEP3	8/23/1990	524	510 E	92 E	14.2	14	0.2 J	ND (0.5)	1.6	0.8	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	350	36	7 J	7 J	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
NEP3	8/23/1990	524	370 E	49 E	8.7	8.3	0.4 J	ND (0.5)	0.8	0.5	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	370 E	49 E	8.6	8.2	0.4 J	ND (0.5)	0.8	0.5	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	250 D	27 D	6 JD	6 JD	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
NEP3	8/23/1990	524	550	61	11 J	11 J	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)	ND (15)
NEP3	8/23/1990	524	390 E	55 E	9.7	9.3	0.4 J	ND (0.5)	0.9	0.5	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	310 E	39 E	6.9	6.5	0.4 J	ND (0.5)	0.6	0.4 J	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	320 D	33 D	7 D	7 D	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)	ND (6)
NEP3	8/23/1990	524	350 E	44 E	7.9	7.5	0.4 J	ND (0.5)	0.7	0.4 J	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	11	3.1	0.4	0.4 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
NEP3	8/23/1990	524	530 D	54 D	11 JD	11 JD	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)
NEP3	8/23/1990	524	570 E	97 E	16.4	16	0.4 J	ND (0.5)	2	0.8	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	50	8.3	1.7	1.3	0.4 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	390	41	6	6 J	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
NEP3	8/23/1990	524	450 E	46 E	8.6	8	0.6	ND (0.5)	0.4 J	0.4	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	550 E	92 E	15.6	15	0.6	ND (0.5)	1.9	0.7	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	560	60	12	12	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)
NEP3	8/23/1990	524	500 E	85 E	14.5	14	0.5	ND (0.5)	1.6	0.8	ND (0.5)	ND (0.5)
NEP3	8/23/1990	524	540 D	60 D	11 JD	11 JD	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)
NEP3	8/23/1990	524	630	63	10 J	10 J	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)
NEP3	8/23/1990	524	500 E	85 E	14.5	14	0.5	ND (0.5)	1.6	0.8	ND (0.5)	ND (0.5)
NEP3	8/23/1990	DIL	280 D	32 D		6 JD	U	U	U	U	U	U
NEPB	8/23/1990	524	1100 ED	74 D	11 JD	11 JD	ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (17)
NEPB	8/23/1990	524	590 E	88 E	13	13	ND (0.5)	ND (0.5)	2	1.5	ND (0.5)	ND (0.5)
NEPB	8/23/1990	524	350 E	39 E	7	7	ND (0.5)	ND (0.5)	0.8	0.6	ND (0.5)	ND (0.5)
NEPB	8/23/1990	524	220 D	20 D	4 JD	4 JD	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
NEPB	8/23/1990	524	330 E	36 E	6.9	6.9	ND (0.5)	ND (0.5)	0.5	0.6	ND (0.5)	ND (0.5)
NEPB	8/23/1990	524	360 D	31 D	6 JD	6 JD	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
NEPB	8/23/1990	524	760 ED	56 D	11 JD	11 JD	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)	ND (12)
NEPB	8/23/1990	524	400 D	35 D	7 JD	7 JD	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)	ND (8)
NEPB	8/23/1990	524	530 E	68 E	11	11	ND (0.5)	ND (0.5)	1.5	1.1	ND (0.5)	ND (0.5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
NEPB	8/23/1990	524	420 E	44 E	8.1	8.1	ND (0.5)	ND (0.5)	0.9	0.7	ND (0.5)	ND (0.5)
NEPB	8/23/1990	524	610 E	98 E	16	14	2	ND (0.5)	2.1	1.6	ND (0.5)	ND (0.5)
NEPB	8/23/1990	524	16	4.5	2.3	2.3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
NEPB	8/23/1990	524	640 D	54 D	9 JD	9 JD	ND (17)	ND (17)	ND (17)	ND (17)	ND (17)	ND (17)
OL1	12/15/1987		ND	ND	ND					ND		
OL10	1/10/1990		1.4	1.1	TR	TR	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL10	1/10/1990	DUP	2.3	1.9	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL11	1/10/1990		ND (0.5)	ND (0.5)	18.5	18.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL12	1/10/1990		ND (0.5)	ND (0.5)	2	2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL13	1/10/1990		ND (0.5)	1.7	320.2	318	2.2	2.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL14	1/10/1990		43.4	4.1	1.7	1.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL15	1/10/1990		14.9	3.1	0.6	0.6	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL16	1/10/1990		ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL17	1/10/1990		TR	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
OL18	1/10/1990		0.5	17.2	3.6	3.6	ND (0.5)	ND (0.5)	2.1	ND (0.5)	1.3	0.5
OL19	1/10/1990		15.1	3.3	1.3	1.3	ND (0.5)	ND (0.5)	0.6	ND (0.5)	2.5	ND (0.5)
OL2	12/15/1987		41	3100	R					ND		
OL2	12/15/1987		33	3400	1 J					ND		
OL3	12/15/1987		45	180	23					ND		
OL4	6/24/1988		ND	ND	ND					ND		
OL5	12/15/1987		ND	ND	ND					ND		
OL6	3/15/1990		520	470	2760	2760	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)	ND (500)
OL7	3/15/1990		ND (10)	16.6	621	621	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
OL8	1/10/1990		0.6	0.7	0.7	0.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.2	ND (0.5)
OL8	1/10/1990	DUP	ND (0.5)	0.7	0.7	0.7	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1.1	ND (0.5)
OL9	1/10/1990		ND (0.5)	ND (0.5)	0.5	0.5	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
RMW1	12/12/1991		ND	ND	ND			ND	ND	ND	ND	ND
RMW1	4/6/1993		U	U	U	U	U	U	U	U	U	U
RMW1	7/30/1993		U	U	U	U	U	U	U	U	U	U
RMW2	12/12/1991		ND	ND	ND			ND	ND	ND	ND	ND
RMW2	4/6/1993		3	3	6	5	1	3	U	U	U	U
RMW2	7/30/1993		0.6	0.7	0.8	0.8	U	U	U	U	U	U
RMW3	12/12/1991		19	ND	ND			ND	ND	ND	1 J	ND
RMW3	12/12/1991	DUP	15	ND	ND			ND	ND	ND	2 J	ND
S10	12/3/1981		ND	ND	ND			ND	ND	ND	ND	ND
S10	4/16/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S10	6/17/1985	RE	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	R	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S10	11/5/1987		ND	ND	ND				ND	ND	ND	
S11	12/3/1981		ND	69	10			ND	ND	ND	ND	ND
S11	4/16/1985		34	130	26			ND (10)	ND (5)	14	ND (5)	ND (5)
S11	6/18/1985	RE	70 J	150 J	58 J			ND (10)	ND (5)	69 J	ND (5)	ND (5)
S11	11/4/1987		55 J	47 J	6 J				ND	21 J	ND	
S21	11/2/1981		98	520	420			ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
S21	12/3/1981		100	660	580			ND	ND	< (10)	ND	ND
S21	10/11/1984		50	265	223			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
S21	4/11/1985		27 J	190 J	150 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S21	4/23/1985		30.7	246.3	143.6			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S21	5/30/1985		74	210	150			ND (10)	ND (5)	2.9 J	ND (5)	ND (5)
S21	11/15/1985		21.7	204	131			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S21	11/19/1985		64.6	287	198			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S21	12/22/1987		64.9	172	140			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S21	2/25/1991		59	120	66			U (10)	U (5)	U (5)	U (5)	U (5)
S21	8/10/1993		3	4	4	4	U	U	U	0.5	0.5 J	U
S21	8/3/2010		0.42	U (1)		0.073	U (1)	U (0.05)	U (1)	U (1)	0.39	U (1)
S22	11/2/1981		4	170	52			ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
S22	12/3/1981		ND	ND	ND			ND	ND	ND	ND	ND
S22	12/3/1981	DUP	ND	ND	ND			ND	ND	ND	ND	ND
S22	10/11/1984		18	88	32			ND (10)	ND (10)	BMDL (10)	ND (10)	ND (10)
S22	4/23/1985		ND (4.1)	2.1	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S22	4/24/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S22	5/30/1985		ND (5)	34	19			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S22	11/15/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S22	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S22	2/15/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S22	8/9/1993		15	19	24.2	24	0.2 J	U	0.2 J	2	U	U
S37	1/25/1981		ND	19	< (10)			ND	ND	ND	ND	ND
S37	11/2/1981		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S38	1/25/1981		89	280	210			ND	ND	< (10)	ND	ND
S38	11/2/1981		140	240	160			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S38	9/3/1982		57	100	61							
S39	5/14/1979		18.3	117.6						ND	1.1	
S39	7/24/1979		26	188								
S39	9/26/1979		9	63	ND				ND	2.1	ND	ND
S39	5/20/1980		31	102	23					2		
S39	1/25/1981		41	73	21			ND	ND	< (10)	ND	ND

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S39	12/6/1985		292	108	55.7			ND (1)	3.19	49.7	ND (1)	ND (1)
S39	12/6/1985		20.1	88	32.2			ND (1)	ND (1)	13.3	ND (1)	ND (1)
S39	12/6/1985		274	102	52.1			ND (1)	2.95	47.3	ND (1)	ND (1)
S39	12/6/1985		5.04	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S39	12/6/1985		241	102	52.5			ND (1)	3.22	47.7	ND (1)	ND (1)
S39	12/16/1985		129	71.8	35.8			ND (1)	ND (1)	21.5	ND (1)	ND (1)
S39	12/16/1985		84	52.9	26.4			ND (1)	ND (1)	16.1	ND (1)	ND (1)
S39	12/16/1985		121	66.9	35.9			ND (1)	ND (1)	19.7	ND (1)	ND (1)
S39	12/23/1985		88.7	51.4	26.9			ND (10)	ND (2.8)	18.8	ND (1.6)	ND (2.8)
S39	12/24/1985		94	55	28			< (1)	< (1)	17	< (1)	< (1)
S39	12/24/1985		76	55	30			< (1)	< (1)	16	< (1)	< (1)
S39	12/24/1985		84	54	27			< (1)	< (1)	18	< (1)	< (1)
S39	12/24/1985		ND (1)	65.5	29.7			ND (1)	2	16.1	ND (1)	ND (1)
S39	12/24/1985		96.6	64.7	31.5			ND (1)	1.95	17.2	ND (1)	ND (1)
S39	1/2/1986		70.7	57	21.3			ND (1)	1.36	11.4	ND (1)	ND (1)
S39	1/6/1986		91.7	57.9	24.2			ND (1)	ND (1)	23.1	ND (1)	ND (1)
S39	8/26/1991		9	10	2			U	U	U	U	U
S4	11/2/1981		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S4	12/3/1981		ND	ND	ND			ND	ND	ND	ND	ND
S4	4/16/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S4	6/19/1985		17	19	ND (25)			140 J	12 J	R	R	ND (25)
S40	5/14/1979		20.8	267.4						0.6	11.8	
S40	7/24/1979		10	208	28							
S40	7/24/1979	DUP	18	236	28							
S40	9/25/1979		13.4	183.6	ND				ND	ND	ND	ND
S40	5/20/1980		26	136	11					1		
S40	7/28/1980		24	140	7					1.2		
S40	9/28/1980		43	400	11			ND	ND	< (10)	ND	ND
S40	1/25/1981		36	210	14			ND	ND	ND	ND	ND
S40	12/6/1985		165	83.6	43.3			ND (1)	ND (1)	37.4	ND (1)	ND (1)
S40	12/6/1985		43.3	84.2	31			ND (1)	ND (1)	9.44	ND (1)	ND (1)
S40	12/6/1985		40.7	87.5	33.4			ND (1)	ND (1)	9.26	ND (1)	ND (1)
S40	12/6/1985		55.1	90.7	34.8			ND (1)	ND (1)	10.9	ND (1)	ND (1)
S40	12/16/1985		44.1	83.9	18.1			ND (1)	ND (1)	11.2	ND (1)	ND (1)
S40	12/16/1985		41	85	17.1			ND (1)	ND (1)	10.5	ND (1)	ND (1)
S40	12/23/1985		39.9	77.2	13.6			ND (10)	ND (2.8)	11.7	ND (1.6)	ND (2.8)
S40	12/24/1985		45	82	14			< (1)	< (1)	9	< (1)	< (1)
S40	12/24/1985		42	85	13			< (1)	< (1)	11	< (1)	< (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S40	12/24/1985		43	87	14			< (1)	< (1)	11	< (1)	< (1)
S40	12/24/1985		ND (1)	108	17.5			ND (1)	ND (1)	11.5	ND (1)	ND (1)
S40	12/24/1985		ND (1)	92.7	17			ND (1)	ND (1)	10.4	ND (1)	ND (1)
S40	1/2/1986		40.6	91.3	14.3			ND (1)	ND (1)	8.92	ND (1)	ND (1)
S40	1/6/1986		48	111	12.5			ND (1)	ND (1)	9.8	ND (1)	ND (1)
S40	8/21/1991		33	60	14			U	U	0.6 J	0.5 J	U
S40	8/21/1991	DIL	22 D	38 D	9 D			U	U	U	U	U
S41	1/25/1981		12	12	< (10)			ND	ND	ND	ND	ND
S41	11/2/1981		20	18	ND (1)			ND (1)	ND (1)	4	ND (1)	ND (1)
S41	4/24/1985		3 J	3 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S41	11/6/1987		18	5	ND					2	1	
S41	12/16/1987		65	14	ND					3 J	ND	
S41	12/16/1987		83	28						5		
S42	1/25/1981		ND	< (10)	ND			ND	ND	ND	ND	ND
S42	11/2/1981		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	1 JK	ND (1)
S44	12/2/1980		ND	ND	ND			ND	ND	ND	ND	ND
S44	5/29/1985		ND (5)	3.3 J	ND (5)			ND (10)	ND (5)	4.9 J	ND (5)	ND (5)
S44	6/17/1985	RE	ND (5)	2 J	ND (5)			ND (10)	ND (5)	R	ND (5)	ND (5)
S45	12/17/1987		2	ND	ND				ND	ND	ND	
S45	12/17/1987	DUP	ND	ND	ND				ND	ND	ND	
S46	9/22/1980		18.6	400			54.9		1.2	104	17.3	ND
S46	11/14/1980		28	1372	116			ND	ND	133	ND	ND
S46	11/2/1981		240	5	10			ND (5)	ND (5)	ND (5)	ND (5)	ND (5)
S46	4/18/1985		12	220	28			ND (10)	ND (5)	26	ND (5)	ND (5)
S46	4/18/1985	DUP	12	220	24			ND (10)	ND (5)	25	ND (5)	ND (5)
S46	10/8/1992		U	U			U	U	U	U	U	U
S46	10/8/1992		U	U			U	U	U	U	U	U
S47	11/14/1980		ND	53	12			ND	ND	28	ND	ND
S5	11/2/1981		2	1 K	ND (1)			ND (1)	2	110	1 JK	ND (1)
S5	12/3/1981		ND	ND	ND			ND	ND	48	ND	ND
S5	4/16/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S5	5/21/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S5	6/17/1985	RE	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S6	12/3/1981		410	< (10)	ND			ND	ND	ND	ND	ND
S6	4/16/1985		140	ND (5)	2.7 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S6	5/21/1985		160	3 J	3 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S6	5/21/1985	DUP	56	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S6	6/12/1985		3300 J	83 J	ND (20)			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S6	8/10/1993		6	0.5 J	0.6	0.6	U	U	U	U	U	U
S60	11/2/1981		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S60	12/3/1981		ND	ND	ND			ND	ND	ND	ND	ND
S63D	4/23/1985		270	140	91			ND (10)	ND (5)	10	ND (5)	ND (5)
S63D	4/24/1985		238.5	183.9	ND (1.6)			ND (10)	BMDL (2.8)	9.3	ND (1.6)	ND (2.8)
S63D	5/21/1985		40	130	84			ND (10)	ND (5)	4 J	ND (5)	ND (5)
S63D	6/12/1985		170 J	150	90			ND (18)	ND (19)	8.4 J	ND (47)	ND (14)
S63D	11/19/1985		380	120			40	ND (2)	ND (1)	13	ND (1)	ND (1)
S63D	11/19/1985		249	68.5	40			ND (1)	ND (1)	8.55	ND (1)	ND (1)
S63D	12/22/1987		792	76.8	26.2			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S63D	9/20/1990	524	830	120	30.3	30	0.3 J	ND (0.5)	3	7	2	ND (0.5)
S63D	9/20/1990	CLP	720	62	25			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
S63D	2/26/1991		1100	92	27 J			U (100)	U (50)	U (50)	U (50)	U (50)
S63D	9/17/1992		490	67	29			U	U	U	U	U
S63D	12/22/1992		57	7.7	U			U	U	U	U	U
S63D	2/9/1993		63	U	U			U	U	U	U	U
S63D	4/27/1993		33 J	3	1 J	1 J	U	U	U	U	U	U
S63D	5/12/1993		37	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63D	8/10/1993		18	0.9	0.3 J	0.3 J	U	U	U	U	0.3 J	U
S63D	11/9/1993		6.6	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63D	3/22/1994		11	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63D	5/10/1994		5 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63D	8/10/1994		5 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63D	11/8/1994		4.3 J	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63D	2/14/1995		3.8 J	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63D	5/9/1995		3 J	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S63D	8/8/1995		1 J	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S63D	11/7/1995		2 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63D	2/6/1996		3 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63D	5/7/1996		2 J	U (10)	U (10)			U (10)	U (10)	U (10)	2 J	U (10)
S63S	4/23/1985		86 J	72 J	44			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63S	4/24/1985		97.5	103.9	ND (1.6)			ND (10)	ND (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
S63S	5/21/1985		69	64	41			ND (10)	ND (5)	ND (5)	R	ND (5)
S63S	6/12/1985		56 J	48	31			ND (18)	ND (19)	3.1 J	ND (47)	ND (14)
S63S	12/22/1987		107	32	25.1			ND (10)	ND (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
S63S	9/20/1990	524	390 E	79 E	31.3 E	31 E	0.3 J	ND (0.5)	1	3	1	ND (0.5)
S63S	9/20/1990	CLP	290	55	29			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
S63S	2/26/1991		650	89	31 J			U (100)	U (50)	U (50)	U (50)	U (50)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S63S	12/22/1992		8.6	U	U			U	U	U	U	U
S63S	2/9/1993		20	U	U			U	U	U	U	U
S63S	2/9/1993	COL	22	U	U			U	U	U	U	U
S63S	4/27/1993		14	0.6	U	U	U	U	U	U	U	U
S63S	5/12/1993		17	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63S	8/10/1993		6	0.5 J	U	U	U	U	U	U	U	U
S63S	11/9/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63S	3/22/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63S	5/10/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63S	8/10/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63S	11/8/1994		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63S	2/14/1995		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S63S	5/9/1995		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S63S	8/8/1995		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S63S	11/7/1995		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63S	2/6/1996		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63S	5/7/1996		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S63S	10/17/2002		U (0.1)	U (0.1)		U (2)	U (10)	U (0.1)	U (0.1)	U (10)	U (0.1)	U (0.1)
S63S	8/3/2010		0.034 J	U (1)		0.0063 J	U (1)	U (0.05)	U (1)	U (1)	0.014 J	U (1)
S64D	4/10/1985		44 J	180 J	85 J			ND (10)	ND (5)	3 J	ND (5)	ND (5)
S64D	4/10/1985	DUP	42 J	170 J	80 J			ND (10)	ND (5)	3 J	ND (5)	ND (5)
S64D	4/26/1985		43.1	216.5	82.6			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
S64D	5/14/1985		43 J	200 J	70 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S64D	6/28/1985	RE	40 J	180 J	150 J			ND (50)	ND (25)	ND (25)	R	ND (25)
S64D	11/15/1985		22.5	110	68			ND (1)	ND (1)	2.86	ND (1)	ND (1)
S64D	11/15/1985		24	130			65	ND (2)	ND (1)	2.9	ND (1)	ND (1)
S64D	9/20/1990	524	650 E	510 E	70.8 E	70 E	0.8	ND (0.5)	5	3	ND (0.5)	ND (0.5)
S64D	9/20/1990	524			71.7 E							
S64D	9/20/1990	CLD	1600	210	60			ND (83)	ND (42)	ND (42)	ND (42)	ND (42)
S64D	9/20/1990	DU5	1100	470 E		71 E	0.7	ND (0.5)	4	3	0.2 J	ND (0.5)
S64D	2/25/1991		880	200	54			U (100)	U (50)	U (50)	U (50)	U (50)
S64D	2/25/1991	CLP	1000	200	66			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
S64D	4/26/1993		230	110	41	41	U	3	1 J	2 J	1 J	U
S64D	8/11/1993			100	53	52	1	2	1	2	1	U
S64D	8/11/1993	524	250									
S64M	4/10/1985		48 J	130 J	85 J			ND (10)	ND (5)	3 J	ND (5)	ND (5)
S64M	4/10/1985	DUP	47 J	130 J	86 J			ND (10)	ND (5)	3 J	ND (5)	ND (5)
S64M	4/26/1985		61.4	180.6	85.7			ND (10)	ND (2.8)	ND (4)	ND (2)	ND (2.8)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S64M	5/14/1985		41 J	110 J	58 J			ND (10)	ND (5)	ND (5)	2 J	ND (5)
S64M	5/14/1985	DUP	190	120	92			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
S64M	6/25/1985		R	R	110 J			ND (10)	R	R	ND (5)	ND (5)
S64M	6/25/1985	DUP	R	R	87 J			ND (10)	ND (5)	R	ND (5)	ND (5)
S64M	9/20/1990	524	130 E	120 E	50.4 E	50 E	0.4 J	ND (0.5)	0.4 J	3	13	ND (0.5)
S64M	9/20/1990	CLP	94	77	47			ND (10)	ND (5)	2 J	12	ND (5)
S64M	2/22/1991		99	75	49			U (10)	U (5)	U (5)	14	U (5)
S64M	4/26/1993		140	47	20	20	U	U	U	2	0.9 J	U
S64M	8/11/1993		92	33	14	14	U	U	0.4 J	2	0.8 J	U
S64S	4/10/1985		30 J	88 J	65 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S64S	4/26/1985		38.3	126.6	64			ND (10)	ND (2.8)	ND (4)	ND (2)	ND (2.8)
S64S	5/14/1985		34 J	95 J	49 J			ND (10)	ND (5)	ND (5)	2 J	ND (5)
S64S	6/25/1985		R	R	R			ND (10)	ND (5)	R	ND (5)	ND (5)
S64S	6/25/1985	DUP	R	R	R			ND (10)	ND (5)	R	ND (5)	ND (5)
S64S	9/20/1990	524	83	70 E	33.3 E	33 E	0.3 J	ND (0.5)	ND (0.5)	2	130 E	ND (0.5)
S64S	9/20/1990	CLP	66	53	33			ND (10)	ND (5)	2 J	84	ND (5)
S64S	2/22/1991		53	38	25			U (10)	U (5)	U (5)	16	U (5)
S64S	4/26/1993		22	9	3	3	U	U	U	0.5	0.3 J	U
S64S	8/11/1993		32 J	10	4	4	U	U	U	0.9	0.5	U
S65D	4/9/1985		16 J	44 J	31 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S65D	5/1/1985		15.3	66.3	28.1			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S65D	5/16/1985		10	33	21			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S65D	6/10/1985		11	37	24			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S65M	4/9/1985		9 J	34 J	20 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S65M	5/1/1985		10.8	49.2	18.9			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S65M	5/16/1985		8	29	19			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S65M	5/16/1985	DUP	7	26	16			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S65M	6/11/1985		9.5 J	33	18 J			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S65M	2/20/1991		38	29	17			U (10)	U (5)	U (5)	U (5)	U (5)
S65M	4/27/1993		3	1	0.6	0.6	U	U	U	1	U	U
S65M	4/27/1993	COL	3	1	0.6	0.6	U	U	U	1	U	U
S65M	8/6/1993		17	8	3	3	U	U	U	0.8	0.2 J	U
S65DR	2/25/1991		R	120	40			U (10)	U (5)	U (5)	U (5)	U (5)
S65DR	2/25/1991	CLP	800	94	43 J			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
S65DR	2/25/1991	DIL	1100	U (50)	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)
S65DR	4/26/1993		320	47	13	13	U	U	U	U	U	U
S65DR	8/11/1993		250	42	13	13	U	U	U	1 J	U	U
S65S	4/19/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S65S	5/1/1985		BMDL (4.1)	7	2.4			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S65S	5/16/1985		ND (5)	4 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S65S	6/11/1985		3.5 J	11	6.6			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S65S	9/19/1990	524	15	13	7	7	ND (0.5)	ND (0.5)	ND (0.5)	0.5 J	ND (0.5)	ND (0.5)
S65S	9/19/1990	CLP	13	10	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	6
S65S	2/15/1991		12	10	6			U (10)	U (5)	U (5)	U (5)	U (5)
S65S	4/27/1993		0.7	U	U	U	U	U	U	0.8	U	U
S66D	4/16/1985		3.2 J	9.8	5			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S66D	5/1/1985		5.2	20.5	7.7			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S66D	5/22/1985		R	12	7			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S66D	6/11/1985		5.4	16	9.3			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S66D	9/20/1990	524	1100 E	260 E	28.5	28	0.5	ND (0.5)	6	2	ND (0.5)	ND (0.5)
S66D	9/20/1990	CLP	1500	100	21 J			ND (150)	ND (76)	ND (76)	ND (76)	ND (76)
S66D	6/5/1992		1100	110	17 J			U	U	U	U	U
S66D	6/5/1992	COL	1300	140	25 J			U	U	U	U	U
S66D	4/26/1993		32	4	0.8	0.8	U	U	U	U	U	U
S66D	4/26/1993	COL	28	4	0.6	0.6	U	U	U	U	U	U
S66D	8/30/1993		24	3	U	U	U	U	U	U	U	U
S66D	8/30/1993	COL	27	4	U	U	U	U	U	U	U	U
S66D	9/20/1993		30	3	0.5	0.5	U	U	U	U	U	U
S66D	9/20/1993	COL	29	3	0.6	0.6	U	U	U	U	U	U
S67D	4/11/1985		ND (5)	33 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S67D	4/24/1985		ND (4.1)	48.6	ND (1.6)			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
S67D	5/22/1985		ND (5)	37	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S67D	6/11/1985		ND (13)	34	ND (20)			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S67D	2/19/1991		U (5)	60	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S67D	9/16/1992		U	30	U			U	2 J	U	U	U
S67D	8/6/1993		U	23	0.4 J	0.4 J	U	U	2	0.9	U	U
S67D	4/23/1997		0.6 J	22		0.6 J	U (2)	U (2)	3	0.5 J	U (1)	
S67D	4/23/1997											U (1)
S67M	4/11/1985		1 J	56 J	ND (5)			ND (10)	3 J	23 J	ND (5)	ND (5)
S67M	5/1/1985		ND (4.1)	62.5	ND (1.6)			ND (10)	3	14	ND (1.6)	ND (2.8)
S67M	5/22/1985		ND (5)	56	ND (5)			ND (10)	4 J	18	ND (5)	ND (5)
S67M	6/11/1985		ND (13)	54	ND (20)			ND (18)	4.2 J	19	ND (47)	ND (14)
S67M	9/19/1990	524	0.5 J	50 E	0.7	0.7	ND (0.5)	ND (0.5)	3	6	ND (0.5)	ND (0.5)
S67M	9/19/1990	524			0.5							
S67M	9/19/1990	CLD	ND (5)	42	ND (5)			ND (10)	2 J	4 J	ND (5)	ND (5)
S67M	9/19/1990	CLP	ND (5)	42	ND (5)			ND (10)	2 J	5 J	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S67M	9/19/1990	DU5	0.5 J	57 E		0.5	ND (0.5)	ND (0.5)	3	5	ND (0.5)	ND (0.5)
S67M	2/19/1991		U (5)	11 J	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S67M	2/19/1991	COL	U (5)	30 J	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S67M	2/19/1991	DUP	U (5)	12 J	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S67M	8/6/1993		U	10	U	U	U	U	1	3	U	U
S67M	4/23/1997		U (1)	U (1)	U (2)	U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S67S	4/11/1985		ND (5)	17 J	ND (5)			ND (10)	2 J	15 J	ND (5)	ND (5)
S67S	5/1/1985		ND (4.1)	24	ND (1.6)			ND (10)	3	14.2	ND (1.6)	ND (2.8)
S67S	5/22/1985		ND (5)	20	ND (5)			ND (10)	4 J	18	ND (5)	ND (5)
S67S	6/11/1985		ND (13)	49	ND (20)			ND (18)	3.1 J	17	ND (47)	ND (14)
S67S	9/19/1990		ND	ND	ND				ND	ND	ND	
S67S	9/19/1990	524	ND (0.5)	8	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	0.5	3	ND (0.5)	ND (0.5)
S67S	2/19/1991		U (5)	5	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S67S	8/6/1993		U	6	U	U	U	U	0.7	1	U	U
S67S	4/23/1997		93	1		1 J	U (2)	U (2)	U (1)	1	U (1)	U (1)
S68D	4/23/1985		112.4	118	40.2			ND (10)	ND (2.8)	16.8	ND (1.6)	ND (2.8)
S68D	4/23/1985		R	R	R			ND (10)	ND (5)	15 J	ND (5)	ND (5)
S68D	5/16/1985		88	88	37			ND (10)	ND (5)	13	ND (5)	ND (5)
S68D	5/16/1985	DUP	83	86	36			ND (10)	ND (5)	12	ND (5)	ND (5)
S68D	6/26/1985		85 J	73 J	80 J			ND (10)	ND (5)	29 J	ND (5)	ND (5)
S68D	8/21/1991		50	37	19			U	U	1	2	U
S68D	8/21/1991	DIL	38 D	28 D	15 D			U	U	1 JD	1 JD	U
S68D	10/16/2002		43	16		5	U (10)	U (0.1)	0.72	2 J	0.496	U (0.1)
S68S	4/23/1985		ND (2500)	ND (2500)	ND (2500)			ND (5000)	ND (2500)	1700 J	R	ND (2500)
S68S	4/23/1985		52.1	73.1	29.6			ND (10)	ND (2.8)	7	ND (1.6)	ND (2.8)
S68S	5/16/1985		47	54	29			ND (10)	ND (5)	6	ND (5)	ND (5)
S68S	6/26/1985		50	50 J	55			ND (50)	ND (25)	R	R	ND (25)
S68S	11/4/1987		47	47	28				ND	5	ND	
S68S	8/21/1991	DIL	48	30	17			U	U	1 J	2 J	U
S69D	4/9/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S69D	5/1/1985		ND (4.1)	BMDL (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S69D	9/19/1990		ND	ND	ND				ND	ND	ND	
S69D	9/19/1990	524	ND (0.5)	0.4 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
S69D	2/13/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S69D	8/4/1993		U	1	U	U	U	U	U	0.5 J	U	U
S7	11/2/1981		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S7	12/3/1981		ND	ND	ND			ND	ND	ND	ND	ND
S7	12/12/1991		ND	ND	ND			ND	ND	ND	ND	ND

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S7	9/17/1992		U	U	U	U	U	U	U	U	U	U
S7	9/17/1992	COL	U	U	U	U	U	U	U	U	U	U
S7	9/18/1992		U	U	U			U	U	U	U	U
S7	2/9/1993		U	U	U			U	U	U	U	U
S7	5/13/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S7	7/30/1993		U	U	U	U	U	U	U	U	U	U
S7	7/30/1993	COL	U	U	U	U	U	U	U	U	U	U
S7	11/9/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S7	3/22/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S7	11/6/1994		U (5)	U (5)	U (5)			U (5)	U (5)	U (5)	U (5)	
S70D	12/21/1992		440	7.2	U			U	U	U	U	U
S70D	2/8/1993		550	9.2	U			U	U	U	U	U
S70D	5/10/1993		290	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70D	8/9/1993		190	2	0.6 J	0.6 J	U	U	U	U	U	U
S70D	8/9/1993	COL	170	2	0.6 J	0.6 J	U	U	U	U	U	U
S70D	11/8/1993		110	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70D	3/21/1994		60	U	U			U	U	U	U	U
S70D	5/9/1994		60	1 J	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	8/11/1994		39	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	8/11/1994	COL	47	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	11/15/1994		33	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70D	11/15/1994	COL	33	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70D	2/13/1995		29	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70D	2/13/1995	COL	29	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70D	5/8/1995		22	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S70D	5/8/1995	COL	23	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S70D	8/7/1995		19	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S70D	8/7/1995	COL	18	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S70D	11/6/1995		20	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	11/6/1995	COL	18	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	2/5/1996		19	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	2/5/1996		19	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	5/6/1996		16	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	5/6/1996	DUP	16	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70D	4/22/1997		11	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/21/1998		7	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/7/1999		3	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/7/1999	DUP	4	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S70D	4/26/2000		3	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/27/2001		4	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	5/3/2002		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	5/1/2003		2 J	U (1)	U (1)	U (1)	U (1)	UJ (2)	U (1)	U (1)	U (1)	U (1)
S70D	5/1/2003	DUP	2 J	U (1)	U (1)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/29/2004		2	0.3 J	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/29/2004	DUP	2	0.4 J	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/27/2005		2	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
S70D	4/27/2005	DUP	2	0.4 J	U (2)	U (1)	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
S70D	5/3/2006		1	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/18/2007		1 J	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/16/2008		1 J	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	4/15/2009		U (1)	U (1)	0.3 J	0.3 J	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70D	7/21/2010		1	0.3 J	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S70M	4/9/1985		4 J	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70M	5/21/1985		R	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	R	ND (5)
S70M	6/24/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70M	12/21/1992		U	U	U			U	U	U	U	U
S70M	2/8/1993		U	U	U			U	U	U	U	U
S70M	5/10/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70M	8/9/1993		U	U	U	U	U	U	U	U	U	U
S70M	11/8/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70M	3/21/1994		U	1 J	U			U	U	U	U	U
S70M	5/9/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70M	8/11/1994		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70M	11/15/1994		4 J	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70M	2/14/1995		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70M	8/5/1995		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S70M	8/7/1995		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S70M	11/6/1995		1 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70M	2/5/1996		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70M	5/6/1996		U (10)	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S70S	4/9/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70S	5/21/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	R	ND (5)
S70S	6/24/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S70S	8/5/1993		0.4 J	U	U	U	U	U	U	U	U	U
S70S	8/5/1993	COL	0.4 J	U	U	U	U	U	U	U	U	U
S70S	7/28/2010		0.2	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.13	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S71D	4/22/1985		7300 J	16000 J	5000 J			ND (5000)	ND (2500)	ND (0)	ND (2500)	ND (2500)
S71D	5/21/1985		2500	ND (100)	ND (100)			ND (200)	ND (100)	110	ND (100)	ND (100)
S71D	6/24/1985	RE	2450	13 J	100			ND (10)	ND (5)	180	ND (5)	ND (5)
S71D	2/3/1987		1600	33				ND (10)	ND (10)	200	ND (10)	ND (10)
S71D	2/3/1987		680	38				ND (10)	ND (10)	180	ND (10)	ND (10)
S71D	2/19/1991											U (5)
S71D	2/19/1991	DUP										U (5000)
S71D	2/27/1991		R	340 J	110			U (10)	100	620 J	U (5)	U (5)
S71D	2/27/1991	DIL	53000	U (5000)	U (5000)			U (10000)	U (5000)	U (5000)	U (5000)	U (5000)
S71D	8/12/1993		1100 J	11	19	19	U	U	U	12	U	U
S71D	8/12/1993	COL	1200	10	18	18	U	U	U	11	U	U
S71D	4/23/1997		U (1)		U (4)	U (2)		2 B	U (5)	U (2)	3	U (1)
S71D	4/23/1997	DUP	140	2		1 J	U (2)	U (2)	U (1)	3	U (1)	U (1)
S71D	4/22/1998		100 J	1		U (2)	U (2)	U (2)	U (1)	2	U (1)	U (1)
S71D	4/8/1999		82	0.7 J		U (2)	U (2)	U (2)	U (1)	2	U (1)	U (1)
S71D	4/26/2000		49 J	0.5 J		U (2)	U (2)	U (2)	U (1)	1	U (1)	U (1)
S71D	4/26/2000	DUP	49	U (1)		U (2)	U (2)	U (2)	U (1)	1	U (1)	U (1)
S71D	4/25/2001		110 J	0.8 J		U (2)	U (2)	U (2)	U (1)	2	U (1)	U (1)
S71D	4/25/2001	DUP	110	0.8 J		U (2)	U (2)	U (2)	U (1)	2	U (1)	U (1)
S71D	5/2/2002		69	0.7 J		U (2)	U (2)	U (2)	0.8 J	2	U (1)	U (1)
S71D	5/2/2002	DUP	79	U (1)		U (2)	U (2)	U (2)	U (1)	2	U (1)	U (1)
S71D	4/30/2003		73	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71D	4/30/2003	DUP	71	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	0.8 J	U (1)	U (1)
S71D	4/27/2004		76	0.5 J	0.4 J	0.4 J	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71D	4/27/2004	DUP	77	0.6 J	0.3 J	0.3 J	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71D	4/27/2005		65	0.9 J	0.6 J	0.6 J	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
S71D	4/27/2005	DUP	69	0.7 J	U (2)	U (1)	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
S71D	5/3/2006		180	1	1 J	1	U (1)	U (2)	U (1)	3	U (1)	U (1)
S71D	4/18/2007		45	0.5 J	U (2)	U (1)	U (1)	U (2)	U (1)	1 J	U (1)	U (1)
S71D	4/16/2008		67	0.6 J	U (2)	U (1)	U (1)	U (2)	U (1)	1 J	U (1)	U (1)
S71D	4/15/2009		45	0.4 J	U (2)	U (1)	U (1)	U (2)	U (1)	1	U (1)	U (1)
S71D	7/21/2010		100	0.8 J	U (1)	U (1)	U (1)	U (2)	U (1)	0.9 J	U (1)	U (1)
S71S	4/22/1985		1400	ND (5)	91			ND (10)	ND (5)	140	ND (5)	ND (5)
S71S	5/21/1985		1900	19 J	110			ND (100)	ND (50)	130	ND (50)	ND (50)
S71S	6/24/1985		R	ND (125)	115 J			ND (250)	ND (125)	R	ND (125)	ND (125)
S71S	2/3/1987		220	ND (10)				ND (10)	ND (10)	11	ND (10)	ND (10)
S71S	2/4/1987		1100	28				ND (10)	ND (10)	76	ND (10)	ND (10)
S71S	2/19/1991		R	7	U (5)			U (10)	U (5)	21	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S71S	2/19/1991	DIL	1100	U (50)	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)
S71S	8/11/1993		350	2 J	4	4	U	U	U	7	U	U
S71S	4/23/1997											U (1)
S71S	4/23/1997		U (1)	7		U (2)	U (2)	U (2)	0.6 J	1	U (1)	
S71S	4/22/1998		61	U (1)		U (2)	U (2)	U (2)	U (1)	1 J	U (1)	U (1)
S71S	4/9/1999		180	1		U (2)	U (2)	U (2)	U (1)	1	U (1)	U (1)
S71S	4/28/2000		89	0.8 J		U (2)	U (2)	U (2)	U (1)	1	U (1)	U (1)
S71S	4/27/2001		48	U (1)		U (2)	U (2)	U (2)	U (1)	0.5 J	U (1)	U (1)
S71S	5/3/2002		100 J	U (1)		U (2)	U (2)	U (2)	U (1)	0.9 J	U (1)	U (1)
S71S	4/29/2003		92	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71S	4/27/2004		78	0.4 J	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71S	4/27/2005		51	0.6 J	0.7 J	0.7 J	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
S71S	5/3/2006		77	0.5 J	0.9 J	0.9 J	U (1)	U (2)	U (1)	1	U (1)	U (1)
S71S	4/18/2007		26	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71S	4/16/2008		29	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S71S	4/15/2009		48	0.4 J	U (2)	U (1)	U (1)	U (2)	U (1)	0.7 J	U (1)	U (1)
S72D	4/16/1985		ND (5)	8.8	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72D	5/2/1985		BMDL (4.1)	14.6	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S72D	5/21/1985		R	11	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72D	5/21/1985	DUP	R	12	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72D	6/25/1985		R	R	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72D	8/21/1991		2	3	0.8 J			U	0.5 J	U	U	U
S72D	8/21/1991	DUP	2	3	0.8 J			U	0.5 J	U	U	U
S72D	8/30/1993		0.9 J	3	U	U	U	U	U	U	U	U
S72M	4/16/1985		R	74 J	R			ND (10)	ND (9.5)	R	R	ND (5)
S72M	5/2/1985		ND (4.1)	20.9	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S72M	5/21/1985		R	16	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72M	6/25/1985		R	R	R			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72M	8/21/1991		U	4	3			U	U	U	U	U
S72M	8/30/1993		U	3	U	U	U	U	U	U	U	U
S72M	8/30/1993	COL	U	3	U	U	U	U	U	U	U	U
S72S	4/16/1985		6.2	4 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72S	5/2/1985		4.8	7.3	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S72S	5/21/1985		R	5	1 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S72S	6/25/1985		R	R	R			ND (10)	R	ND (5)	ND (5)	ND (5)
S72S	12/15/1987		2 J	2 J	ND					ND		
S72S	8/21/1991		U	0.4 J	U			U	U	U	U	U
S73D	4/23/1985		ND (5)	37	31			ND (10)	3 J	ND (5)	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S73D	4/23/1985		ND (4.1)	62	38.2			ND (10)	6	ND (3.8)	ND (1.6)	ND (2.8)
S73D	5/21/1985		R	52	36			ND (10)	5 J	ND (5)	ND (5)	ND (5)
S73D	6/11/1985		ND (13)	38	27			ND (18)	2.9 J	ND (18)	ND (47)	ND (14)
S73D	11/4/1987		ND	10	17				ND	ND	ND	
S73D	2/20/1991		U (5)	U (5)	6			U (10)	U (5)	U (5)	U (5)	U (5)
S73D	2/3/1992	524	ND (1)	2	5	5	ND (1)	ND (1)	0.6 J	ND (1)	ND (1)	ND (1)
S73S	4/23/1985		ND (5)	7	12			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S73S	4/23/1985		ND (4.1)	11.3	13.6			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S73S	5/21/1985		R	9	20			ND (10)	2 J	ND (5)	ND (5)	ND (5)
S73S	6/11/1985		ND (13)	12	23			ND (18)	2.7 J	ND (18)	ND (47)	ND (14)
S73S	10/27/1987		ND	ND	ND				ND	ND	ND	
S73S	2/20/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
S73S	2/3/1992	524	ND (1)	0.9 J	3	3	ND (1)	ND (1)	0.4 J	ND (1)	ND (1)	ND (1)
S74D	4/23/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S74D	4/23/1985		ND (4.1)	BMDL (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S74D	5/21/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S74D	10/27/1987		ND	ND	ND				ND	ND	ND	
S74D	2/4/1992	524	ND (1)	ND (1)	0.7 J	0.7 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S74D	9/2/1993		U	0.5 J	U	U	U	U	U	U	U	U
S74S	4/23/1985		R	R	ND (5)			ND (10)	ND (5)	ND (5)	R	ND (5)
S74S	4/23/1985		BMDL (4.1)	BMDL (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S74S	5/21/1985		R	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S74S	10/27/1987		ND	ND	ND				ND	ND	ND	
S74S	2/4/1992	524	0.3 J	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	ND (1)	0.2 BJ	ND (1)
S74S	8/31/1993		0.3 J	0.4 J	U	U	U	U	U	U	U	U
S75D	4/11/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S75D	5/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S75D	5/22/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S75D	6/11/1985		ND (13)	ND (13)	ND (20)			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S75M	4/11/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S75M	5/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S75M	5/22/1985		ND (10)	ND (10)	ND (10)			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
S75M	5/22/1985	DUP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S75M	6/11/1985		ND (13)	ND (13)	ND (20)			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S75S	5/2/1985		ND (4.1)	ND (1.9)	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S75S	5/22/1985		ND (50)	ND (50)	ND (50)			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
S75S	6/11/1985		ND (13)	ND (13)	ND (20)			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S75S	6/27/1985	RE	ND (100)	ND (100)	ND (100)			ND (200)	ND (100)	ND (100)	ND (100)	ND (100)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S76D	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S76D	6/26/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	R	ND (5)	ND (5)
S76M	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S76M	5/29/1985	DUP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S76M	6/26/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	R	R	ND (5)
S76M	12/4/1987		ND	ND	ND				ND	ND	R	
S76S	5/29/1985		ND (5)	8.5	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S76S	6/26/1985		ND (5)	R	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77D	4/11/1985		9.8	210	15			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77D	4/26/1985		10.8	349.1	13.8			ND (10)	ND (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
S77D	5/29/1985		13	280	ND (10)			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
S77D	6/25/1985		R	300 J	R			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77D	11/6/1987		22	180	21				ND	2	ND	
S77D	9/23/1992		12	150			17	U	U	U	U	U
S77D	4/27/1993		19 J	290			< (25)	< (10)	< (25)	< (25)	< (25)	< (25)
S77D	8/23/1993		25 DJ	403 D			U	U	U	U	U	U
S77D	12/3/1993		10.6 DJ	239 D			DU	DU	DU	DU	DU	DU
S77D	4/7/1994		14 JD	321 D			UD (40)	UD (20)	UD (40)	UD (40)	41 D	UD (40)
S77M	4/16/1985		750 J	370 J	ND (9)			ND (10)	81	34 J	R	ND (5)
S77M	4/26/1985		44.7	136.5	21.7			ND (10)	ND (2.8)	11	ND (1.6)	ND (2.8)
S77M	5/29/1985		46	97	24			ND (10)	ND (5)	13	ND (5)	ND (5)
S77M	5/29/1985	DUP	47	96	23			ND (10)	ND (5)	12	ND (5)	ND (5)
S77M	6/18/1985		50	120	48 J			ND (100)	ND (50)	R	R	ND (50)
S77M	9/23/1992		24	25			8	U	U	U	U	U
S77M	9/23/1992	DUP	26	26			8 J	U	U	2 J	U	U
S77S	4/16/1985		14	96	5			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77S	4/29/1985		18.9	194.2	6.1			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S77S	5/29/1985		15	130	6.1			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77S	6/27/1985	RE	20 J	160 J	ND (50)			ND (100)	ND (50)	ND (50)	R	ND (50)
S77S	9/22/1992		2 J	16			2 J	U	U	U	U	U
S77SS	4/16/1985		ND (5)	2.4 J	12			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77SS	4/26/1985		BMDL (4.1)	5.8	9.1			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S77SS	5/29/1985		ND (5)	12	7.5			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S77SS	6/27/1985		180	390	ND (25)			ND (50)	ND (25)	R	R	ND (25)
S77SS	9/22/1992		2 J	18			2 J	U	U	U	U	U
S77SS	4/27/1993		< (5)	10			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
S77SS	8/12/1993		U	6.2 B			1.8 J	0.5 J	U	1.5 J	U	U
S77SS	12/3/1993		U	1.3 J			U	U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S77SS	4/8/1994		U (2)	0.8 J			0.9 J	1.5	U (2)	U (2)	U (2)	U (2)
S78D	4/16/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S78D	4/16/1985	DUP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S78D	4/25/1985		17	26	ND (2)			ND (10)	ND (2.8)	ND (4)	ND (1.6)	ND (2.8)
S78D	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S78D	6/27/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S78D	9/21/1992		U	1 J			U	U	U	U	U	U
S78S	4/16/1985		58000	160000 J	ND (4500)			ND (5000)	ND (4750)	ND (8750)	R	ND (2500)
S78S	4/25/1985		32218	182575	62.8			ND (10)	34.9	511.8	ND (1.6)	ND (3)
S78S	5/29/1985		32	110	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S78S	6/27/1985	RE	22000 J	80000 J	ND (5000)			ND (10000)	ND (5000)	ND (5000)	ND (5000)	ND (5000)
S78S	10/26/1987		11000	5700	ND			ND		ND	ND	
S78S	9/21/1992		14	110			1 J	U	U	U	U	U
S79D	4/8/1985		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S79D	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S79S	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S7R	11/15/1994		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S8	11/2/1981		20	55	10			ND (2)	ND (2)	ND (2)	ND (2)	ND (2)
S8	12/3/1981		64	112	38			ND	ND	ND	ND	ND
S80M	4/8/1985		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S80M	4/8/1985	DUP	ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S80M	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S80S	4/8/1985		ND (10)	ND (10)	ND (10)			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
S80S	5/29/1985		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S81D	4/9/1985		200 J	6 J	3 J			ND (10)	ND (5)	21 J	ND (5)	ND (5)
S81D	4/22/1985											U (1)
S81D	5/1/1985		67.4	3	ND (1.6)			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S81D	5/14/1985		140	ND (50)	ND (50)			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
S81D	6/28/1985	RE	98 J	3 J	1 J			ND (10)	ND (5)	16 J	ND (5)	ND (5)
S81D	11/18/1985		230	16			8.7	ND (2)	2.1	93	ND (1)	ND (1)
S81D	11/19/1985		280	13.8	7.83			ND (1)	ND (1)	84.8	ND (1)	ND (1)
S81D	11/5/1987		180	5	ND				ND	13	ND	
S81D	2/21/1991		R	21	7			U (10)	U (5)	16	7	U (5)
S81D	2/21/1991	DIL	320	26	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
S81D	12/21/1992		210	7.8	U			U	U	U	U	U
S81D	2/9/1993		260	8.2	U			U	U	7.6	U	U
S81D	5/13/1993		410	10	ND (5)			ND (10)	ND (5)	5.2	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S81D	8/11/1993		190	5	2 J	2 J	U	U	U	5	U	U
S81D	8/11/1993	COL	240	5	2 J	2 J	U	U	U	5	U	U
S81D	11/9/1993		160	ND (5)	ND (5)			ND (10)	ND (5)	6.4	ND (5)	ND (5)
S81D	3/22/1994		180	5 J	1 J			U (10)	U (10)	4 J	U (10)	U (10)
S81D	5/10/1994		24	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
S81D	8/10/1994		150	4 J	2 J			U (10)	U (10)	4 J	U (10)	U (10)
S81D	11/14/1994		160	4 J	2.2 J			ND (10)	ND (5)	5.4	ND (5)	ND (5)
S81D	2/14/1995		180	4.8 J	ND (6.2)			ND (12)	ND (6.2)	8.1	ND (6.2)	ND (6.2)
S81D	5/9/1995	DIL	180	4 J	2 J			ND (20)	ND (20)	6 J	2 J	ND (20)
S81D	8/8/1995		16	ND (10)	ND (10)			ND (10)	ND (10)	1 J	4 J	ND (10)
S81D	11/7/1995		150	4 J	U (20)			U (20)	U (20)	4 J	U (20)	U (20)
S81D	2/6/1996		98	3 BJ	U (10)			U (10)	U (10)	3 BJ	U (10)	U (10)
S81D	5/7/1996		190	5 J	U (10)			U (10)	U (10)	5 J	U (10)	U (10)
S81D	4/22/1997		130	3		1 J	U (2)	U (2)	0.6 J	3	U (1)	
S81D	4/21/1998		190	5		2 J	U (2)	U (2)	1	5	0.9 J	U (1)
S81D	4/6/1999		140 J	3		U (2)	U (2)	U (2)	0.9 J	3	U (1)	U (1)
S81D	4/26/2000		180 J	5		1 J	U (2)	U (2)	1	4	0.5 J	U (1)
S81D	4/26/2001		190	5		U (2)	U (2)	U (2)	1	2	U (1)	U (1)
S81D	5/3/2002		200 J	11		U (2)	U (2)	U (2)	1	2	U (1)	U (1)
S81D	5/1/2003		100 J	5	0.8 J	0.8 J	U (1)	U (2)	0.7 J	U (1)	0.2 J	U (1)
S81D	4/27/2004		140	5	0.6 J	0.6 J	U (1)	U (2)	0.6 J	U (1)	0.2 J	U (1)
S81D	4/26/2005		120	5	0.7 J	0.7 J	U (1)	U (2)	0.6 J	1	U (1)	U (1)
S81D	5/2/2006		100	4	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S81D	5/2/2006	DUP	96	3	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S81D	4/17/2007		92	4	U (2)	0.7 J	UJ (1)	UJ (2)	U (1)	1 J	UJ (1)	U (1)
S81D	4/17/2007	DUP	86	4	0.8 J	0.8 J	U (1)	U (2)	U (1)	1 J	U (1)	U (1)
S81D	4/15/2008		88	4	0.5 J	0.5 J	U (1)	U (2)	0.4 J	0.6 J	U (1)	U (1)
S81D	4/15/2008	DUP	92	4	0.5 J	0.5 J	U (1)	U (2)	U (1)	0.7 J	U (1)	U (1)
S81D	4/14/2009		82	4	0.6 J	0.6 J	U (1)	U (2)	0.3 J	0.6 J	U (1)	U (1)
S81D	4/14/2009	DUP	79	4	0.5 J	0.5 J	U (1)	U (2)	0.4 J	0.6 J	U (1)	U (1)
S81D	7/27/2010		90	5	U (1)	U (1)	U (1)	U (2)	U (1)	0.6 J	U (1)	UJ (1)
S81M	4/19/1985		34 J	2 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S81M	5/1/1985		59.4	6.8	ND (1.6)			ND (10)	ND (2.8)	6	ND (1.6)	ND (2.8)
S81M	5/14/1985		35 J	ND (50)	ND (50)			ND (100)	ND (50)	ND (50)	17 J	ND (50)
S81M	6/25/1985		75	ND (25)	ND (25)			ND (50)	ND (25)	40	420	ND (25)
S81M	6/25/1985	DUP	71	ND (25)	ND (25)			ND (50)	ND (25)	R	R	ND (25)
S81M	2/21/1991		160	U (5)	U (5)			U (10)	U (5)	17	U (5)	U (5)
S81M	12/21/1992		190	7	5.4			U	U	20	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S81M	2/9/1993		160	5.3	U			U	U	16	U	U
S81M	5/13/1993		210	ND (25)	ND (25)			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
S81M	8/11/1993		200	5	3	3	U	U	2 J	15	0.9 J	U
S81M	11/9/1993		120	ND (5)	ND (5)			ND (10)	ND (5)	10	ND (5)	ND (5)
S81M	3/22/1994		170	5 J	4 J			U (10)	1 J	16	U (10)	U (10)
S81M	5/10/1994		160	5 J	3 J			U (10)	1 J	13	U (10)	U (10)
S81M	8/10/1994		150	4 J	3 J			U (10)	1 J	12	U (10)	U (10)
S81M	11/14/1994		180	5.3 J	3.6 J			ND (12)	ND (6.2)	12	ND (6.2)	ND (6.2)
S81M	2/14/1995		180	5.4	3.9 J			ND (10)	ND (5)	15	ND (5)	ND (5)
S81M	5/9/1995		230 E	6 J	4 J			ND (10)	2 J	15	2 J	ND (10)
S81M	5/9/1995	DIL	220 D	5 DJ	4 DJ			ND (20)	ND (20)	13 DJ	2 DJ	ND (20)
S81M	8/8/1995		220	5 J	4 J			ND (20)	ND (20)	13 J	ND (20)	ND (20)
S81M	11/7/1995		280 E	6 J	4 JY			U (10)	2 J	16	2 J	U (10)
S81M	11/7/1995	DIL	230 D	5 DJ	4 DJY			U (20)	U (20)	13 DJ	U (20)	U (20)
S81M	2/6/1996		200	5 J	3 JY			U (10)	2 J	13	1 J	U (10)
S81M	5/7/1996		210 E	6 J	4 J			U (10)	2 J	14	U (10)	U (10)
S81M	5/7/1996	DIL	220 D	6 DJ	2 DJ			U (20)	U (20)	12 DJ	U (20)	U (20)
S81M	4/22/1997		180	4		2	U (2)	U (2)	U (1)	12	1	U (1)
S81M	4/21/1998		180	5		2	U (2)	U (2)	2	12	1	U (1)
S81M	4/6/1999		140	3		2 J	U (2)	U (2)	1	8	0.8 J	U (1)
S81M	4/26/2000		150	4		2 J	U (2)	U (2)	2	8	0.8 J	U (1)
S81M	4/26/2001		160	4		2 J	U (2)	U (2)	2	10	1 J	U (1)
S81M	5/3/2002		160 J	4		2	U (2)	U (2)	3	11	1	U (1)
S81M	5/1/2003		92 J	4	2	2	U (1)	U (2)	2	7	0.8 J	U (1)
S81M	4/27/2004		83	2	0.7 J	0.7 J	U (1)	U (2)	1 J	U (1)	0.4 J	U (1)
S81M	4/26/2005		97	3	1 J	1	U (1)	U (2)	1 J	5	0.6 J	U (1)
S81M	5/2/2006		82	3	U (2)	0.6 J	U (1)	U (2)	1	U (1)	0.6 J	U (1)
S81M	4/17/2007		88	3	1 J	1	U (1)	U (2)	2	5	0.6 J	U (1)
S81M	7/27/2010		88	4	U (1)	U (1)	U (1)	U (2)	0.9 J	4	U (1)	UJ (1)
S81S	4/17/1985		1000 J	180 J	R			ND (100)	ND (95)	R	R	ND (50)
S81S	4/17/1985	DUP	1100 J	R	R			ND (100)	ND (95)	110 J	R	ND (50)
S81S	5/1/1985		484.9	72.7	21.5			ND (10)	BMDL (2.8)	156.8	3.2	ND (2.8)
S81S	5/14/1985		670	30	ND (25)			ND (50)	ND (25)	99	ND (25)	ND (25)
S81S	6/26/1985		580	46 J	ND (50)			ND (100)	ND (50)	340	31 J	ND (50)
S81S	6/26/1985	DUP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S81S	10/27/1987		790	17	20				5	150	2	
S81S	2/20/1991		50	U (5)	U (5)			U (10)	U (5)	U (5)	12	U (5)
S81S	5/16/1991		56	U (5)	U (5)			U (10)	U (5)	U (5)	6	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S81S	5/29/1991		77	U (5)	U (5)			U (10)	U (5)	4 J	6	U (5)
S81S	5/29/1991	CLP	100	ND (5)	ND (5)			ND (10)	ND (5)	5	6	ND (5)
S81S	12/21/1992		610	6.2	6.3			U	U	13	U	U
S81S	2/9/1993		420	5.7	5.5			U	U	13	U	U
S81S	5/13/1993		390	ND (25)	ND (25)			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
S81S	8/11/1993		200 J	1	1	1	U	U	0.4 J	4	3	U
S81S	11/9/1993		98	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S81S	3/22/1994		72	U (10)	U (10)			U (10)	U (10)	2 J	U (10)	U (10)
S81S	5/10/1994		110	1 J	1 J			U (10)	U (10)	6 J	1 J	U (10)
S81S	8/10/1994		52	U (10)	U (10)			U (10)	U (10)	3 J	2 J	U (10)
S81S	11/14/1994		37	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S81S	2/14/1995		35	ND (5)	ND (5)			ND (10)	ND (5)	4.4 J	4.7 J	ND (5)
S81S	5/9/1995		36	ND (10)	ND (10)			ND (10)	ND (10)	5 J	15	ND (10)
S81S	8/8/1995		61	4 J	ND (10)			ND (10)	ND (10)	ND (10)	2 J	ND (10)
S81S	11/7/1995		98	3 J	1 JY			U (10)	U (10)	8 J	3 J	U (10)
S81S	2/6/1996		18	U (10)	U (10)			U (10)	U (10)	1 J	1 J	U (10)
S81S	5/7/1996		29	U (10)	U (10)			U (10)	U (10)	4 J	U (10)	U (10)
S81S	4/22/1997		24	U (1)	U (2)	U (2)	U (2)	U (2)	U (1)	1	2	U (1)
S81S	4/22/1998		19	U (1)		U (2)	U (2)	U (2)	U (1)	0.8 J	3	U (1)
S81S	4/6/1999		18	U (1)		U (2)	U (2)	U (2)	1	6	U (1)	U (1)
S81S	4/26/2000		14	0.5 J		U (2)	U (2)	U (2)	1	4	U (1)	U (1)
S81S	4/27/2001		8	4		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
S81S	5/3/2002		2	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	0.6 J	U (1)
S81S	5/1/2003		7 J	U (1)	U (1)	U (1)	U (1)	U (2)	0.4 J	1 J	0.6 J	U (1)
S81S	4/27/2004		11	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	0.3 J	U (1)
S81S	4/26/2005		10	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S81S	5/2/2006		6	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S81S	4/17/2007		8	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S81S	4/15/2008		8	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
S81S	4/14/2009		8	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	0.4 J	U (1)	U (1)
S81S	7/27/2010		9.1	U (1)		0.052	U (1)	U (0.05)	U (1)	U (1)	0.06	U (1)
S82	4/10/1985		24 J	48 J	30 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S82	4/25/1985		39.1	73.9	35.6			ND (10)	ND (2.8)	BMDL (3.8)	ND (1.6)	ND (2.8)
S82	5/14/1985		33	37	21			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S82	5/14/1985	DUP	34	39	24			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S82	6/12/1985		86 J	68	38			ND (18)	ND (19)	3.1 J	ND (47)	ND (14)
S82	2/22/1991		R	38	13			U (10)	U (5)	6	U (5)	U (5)
S82	2/22/1991	DIL	260	U (25)	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S82	5/16/1991		240	25	U (13)			U (25)	U (13)	U (13)	U (13)	U (13)
S82	5/29/1991		210	26	12			U (10)	U (5)	U (5)	U (5)	U (5)
S82	5/29/1991	CLP	160	14	8			ND (10)	ND (5)	ND (5)	1 J	ND (5)
S82	10/15/2002		2	U (0.1)		U (2)	U (10)	U (0.1)	U (0.1)	U (10)	2	U (0.1)
S83	4/23/1985		24.6	665.6	137.9			ND (10)	ND (2.8)	ND (3.8)	3.1	ND (2.8)
S83	4/23/1985		ND (500)	ND (1000)	ND (500)			ND (1000)	ND (500)	ND (500)	R	ND (500)
S83	4/23/1985	DUP	ND (500)	R	ND (500)			ND (1000)	ND (500)	ND (500)	R	ND (500)
S83	5/30/1985		15	470	110			ND (29)	ND (15)	ND (15)	ND (15)	ND (15)
S83	6/10/1985		12 J	440	93			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S83	6/10/1985	DUP	14 J	470	100			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S83	11/5/1987		ND	69	7				ND	ND	ND	
S83M	8/30/1993		0.9 J	4.4	1.3 J			U	U	U	U	U
S83SS	8/30/1993		U	U	U			U	U	U	U	U
S83SS	8/30/1993	DUP	U	U	U			U	U	U	U	U
S84D	4/23/1985		10	23	8			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S84D	4/23/1985		10.1	33	9.7			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S84D	5/14/1985		9	26	11			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S84D	6/26/1985		R	R	R			ND (10)	ND (5)	R	ND (5)	ND (5)
S84D	8/20/1991		14	13	5			U	U	0.3 J	U	U
S84M	4/23/1985		11	17	7			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S84M	4/23/1985		12.5	24.5	8.1			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S84M	5/14/1985		11	16	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S84M	6/27/1985		R	R	R			ND (10)	ND (5)	R	R	ND (5)
S84M	8/20/1991		16	16	6			U	U	0.3 J	U	U
S84M	8/20/1991	DUP	15	14	6			U	U	0.3 J	U	U
S84S	4/23/1985		20	24	10			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S84S	4/23/1985		24.3	33.2	10.7			ND (10)	ND (2.8)	ND (3.8)	ND (1.6)	ND (2.8)
S84S	5/14/1985		18	21	10			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S84S	6/27/1985		R	R	R			ND (10)	ND (5)	R	ND (5)	ND (5)
S84S	10/27/1987		4	7	4				ND	ND	ND	
S84S	8/20/1991		11	10	4			U	U	U	U	U
S85M	4/16/1985		150	48	22			ND (10)	ND (5)	34	ND (5)	ND (5)
S85M	4/25/1985		207.9	91.3	42.5			ND (10)	ND (3)	35.2	ND (1.6)	ND (2.8)
S85M	5/14/1985		170	39 J	ND (50)			ND (100)	ND (50)	ND (50)	13 J	ND (50)
S85M	6/10/1985		170	46	23			ND (18)	3.1 J	32	ND (47)	ND (14)
S85M	6/10/1985	DUP	190	49	23			ND (18)	ND (19)	39	ND (47)	ND (14)
S85M	11/4/1987		110	23	12				ND	24	ND	
S85M	8/23/1991		110	15	7			U	U	13	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S85M	9/2/1993		190 J	15	7	7	U	U	U	22	U	U
S85S	4/16/1985		56	110	68			ND (10)	ND (5)	7.5	ND (5)	ND (5)
S85S	4/25/1985		98.2	231	139.2			ND (10)	ND (2.8)	9.6	ND (1.6)	ND (2.8)
S85S	5/14/1985		22 J	92	62			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
S85S	6/10/1985		82	140	76			ND (18)	ND (19)	13	ND (47)	ND (14)
S85S	6/10/1985	DUP	85	140	77			ND (18)	ND (19)	13	ND (47)	ND (14)
S85S	8/23/1991		180	41	17			U	U	4 J	2	U
S85S	9/2/1993		220 J	32	U	U	U	U	U	U	5	U
S85S	10/15/2002		39	6		1 J	U (10)	U (0.1)	0.262	3 J	1.9	U (0.1)
S86D	4/16/1985		48 J	17 J	ND (9)			ND (10)	ND (9.5)	R	R	ND (5)
S86D	4/25/1985		15	5.8	ND (1.6)			ND (10)	ND (2.8)	ND (4)	ND (2)	ND (2.8)
S86D	5/16/1985		13	3 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S86D	6/10/1985		8.3	2.8 J	ND (20)			ND (18)	ND (19)	ND (18)	ND (47)	ND (14)
S86D	10/27/1987		14	3	ND				ND	ND	ND	
S86D	8/26/1991		1	U	U			U	U	U	U	U
S86S	4/16/1985		56 J	18 J	ND (9)			ND (10)	ND (9.5)	17 J	R	ND (5)
S86S	4/25/1985		17.5	7	ND (1.6)			ND (10)	ND (2.8)	ND (4)	ND (2)	ND (2.8)
S86S	5/16/1985		12	3 J	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
S86S	6/10/1985		12	4.1 J	ND (20)			ND (18)	ND (19)	2.6 J	ND (47)	ND (14)
S86S	10/27/1987		ND	ND	ND				ND	ND	10	
S86S	8/26/1991		1	U	U			U	U	U	U	U
S86S	8/26/1991	DUP	1	U	U			U	U	U	U	U
S86S	10/16/2002		U (0.1)	U (0.1)		U (2)	U (10)	U (0.1)	U (0.1)	U (10)	0.17	U (0.1)
S86S	10/16/2002	DUP	U (0.1)	U (0.1)		U (2)	U (10)	U (0.1)	U (0.1)	U (10)	0.173	U (0.1)
S87D	8/23/1991		120	18	10			U	U	8	U	U
S87D	8/23/1991	DUP	130	19	9			U	U	8	U	U
S87D	10/15/2002		43	20		6	U (10)	U (0.1)	1.13	1 J	0.389	0.168
S87M	8/23/1991		7	1	0.3 J			U	U	0.6 J	U	U
S87S	11/6/1987		ND	ND	ND				ND	ND	ND	
S87S	8/23/1991		150	45	23			U	U	11	U	U
S88D	12/2/1985		8.2	50			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S88D	12/6/1985		ND (1)	34.5	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S88D	10/6/1992		U	U			U	U	U	U	U	U
S88M	12/2/1985		3	56			2.3	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S88M	12/6/1985		ND (1)	31.5	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S88M	12/17/1987		1 J	11	ND				ND	ND	0.5 J	
S88M	10/7/1992		U	U	1 J			U	U	U	U	U
S88M	10/7/1992	DUP	1 J	4 J	1 J			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S88S	12/2/1985		ND (1)	14			5.4	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S88S	12/6/1985		ND (1)	8.91	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S88S	12/17/1987		ND	ND	ND				ND	ND	ND	
S88S	10/7/1992		U	9	3 J			U	U	U	U	U
S88S	10/7/1992	DUP	U	U	2 J			U	U	U	U	U
S89D	11/2/1987		24	21	3				ND	4	ND	
S89D	8/26/1991		63	11	3			U	0.8 J	7	U	U
S89D	8/26/1991	DIL	44 D	10 D	2 JD			U	U	6 D	U	U
S89D	8/26/1991	DIL	22 D	5	U			U	U	3 JD	U	U
S89D	8/26/1991	DUP	50	10	2			U	0.7 J	7	U	U
S89D	8/18/1993		97	21	6	6	U	U	1	11	0.3 J	U
S89D	9/2/1993		68 J	21	6	6	U	U	1	11	U	U
S89D	9/2/1993	COL	65 J	21	6	6	U	U	1	11	U	U
S89M	12/17/1987		3	21	3				ND	ND	ND	
S89M	8/26/1991		2	15	0.7 J			0.4 J	U	2	U	U
S89S	12/17/1987		ND	6	4				ND	ND	ND	
S89S	8/26/1991		U	1	U			0.3 J	U	U	U	U
S89S	10/16/2002		0.28	4		3	U (10)	0.271	0.403	U (10)	U (0.1)	U (0.1)
S90D	11/18/1985		16	28			10	ND (2)	ND (1)	2.6	7.3	ND (1)
S90D	11/19/1985		ND (1)	18.1	7.26			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S90D	8/22/1991		1	0.9 J	2			0.8 J	U	U	U	U
S90M	11/18/1985		72	180			28	ND (2)	ND (1)	17	ND (1)	ND (1)
S90M	11/19/1985		31.5	95.4	22.4			ND (1)	ND (1)	8.71	ND (1)	ND (1)
S90M	8/22/1991		77	46	24			U	U	2 J	4 J	U
S90S	11/18/1985		ND (1)	ND (1)			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S90S	11/19/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S90S	8/22/1991		U	U	U			U	U	U	U	U
S91D	8/21/1991	DIL	47	32	16			U	U	2	0.7 J	U
S91D	9/1/1993		70 J	32 J	19	19	U	R	U	5	1	U
S91D	9/1/1993	COL	62 J	31 J	19	19	U	R	0.5 J	5	1	U
S91M	8/22/1991		59	39	24			U	U	3	U	U
S91M	8/22/1991	DIL	71 D	44 D	25 D			U	U	3 JD	U	U
S91M	8/22/1991	DUP	93	56	28			U	0.3 J	4	0.5 J	U
S91M	9/1/1993		67 J	28 J	16	16	U	R	U	3	U	U
S91S	8/21/1991		91	60	28			U	0.6 J	7	0.3 J	U
S91S	8/21/1991	DIL	54 D	38 D	20 D			U	U	5 D	U	U
S91S	9/1/1993		62 J	32 J	21	21	U	R	U	6	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S91S	9/1/1993	COL	57 J	29 J	21	21	U	R	U	6	U	U
S92D	11/18/1985		5.1	66			2.6	ND (2)	ND (1)	2.8	ND (1)	ND (1)
S92D	11/19/1985		5.53	48.6	ND (1)			ND (1)	ND (1)	2.47	ND (1)	ND (1)
S92D	9/25/1992		U	U			U	U	U	U	U	U
S92D	9/25/1992	DUP	U	U			U	U	U	U	U	U
S92I	11/18/1985		1.3	8.8			ND (1)	ND (2)	ND (1)	3.1	ND (1)	ND (1)
S92I	11/19/1985		ND (1)	5.65	ND (1)			ND (1)	ND (1)	3.35	ND (1)	ND (1)
S92I	12/2/1985		1.5	7			ND (1)	ND (2)	ND (1)	4.5	2.8	ND (1)
S92I	12/6/1985		ND (1)	9.84	ND (1)			ND (1)	ND (1)	3.41	ND (1)	ND (1)
S92I	12/19/1985		ND (2)	8.1			2.1	ND (5)	ND (2)	4.5	ND (2)	ND (2)
S92I	12/24/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S92I	9/25/1992		2 J	4 J			U	U	U	U	U	U
S92M	11/18/1985		14	220			1.8	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S92M	11/19/1985		15.8	221	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S92M	12/2/1985		11	190			3.6	ND (2)	ND (1)	7.9	34	ND (1)
S92M	12/6/1985		11.2	195	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S92M	12/19/1985		ND (2)	44			ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
S92M	12/24/1985		ND (1)	45	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S92M	9/25/1992		U	U			U	U	U	U	U	U
S92S	11/18/1985		ND (1)	ND (1)			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S92S	11/19/1985		1.54	1.18	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S92S	9/25/1992		U	U			25	U	U	U	U	U
S93D	12/6/1985		ND (1)	72.9	9.33			ND (1)	ND (1)	ND (1)	7.9	ND (1)
S93D	12/19/1985		ND (2)	25			2.1	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
S93D	12/24/1985		ND (1)	50.7	7.11			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S93D	8/27/1991		2	7	2			U	U	U	U	U
S93D	9/1/1993		17	11	6	6	U	R	U	1	U	U
S93M	12/6/1985		ND (1)	18.8	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S93M	12/19/1985		ND (2)	3.3			ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
S93M	12/24/1985		ND (1)	5.7	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S93M	8/27/1991		U	4	0.6 J			U	U	U	U	U
S93S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S93S	12/19/1985		ND (2)	5.6			ND (2)	ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
S93S	12/24/1985		ND (1)	9.68	7.35			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S93S	8/27/1991		2	30	2			U	U	U	U	U
S93S	8/27/1991	DUP	2	24	2			U	U	U	U	U
S94D	8/20/1991		6	11	4			0.4 J	U	0.4 J	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
S94M	8/20/1991		21	21	9			U	U	0.6 J	U	U
S94S	8/20/1991		7	9	3			U	U	0.3 J	U	U
S95D	11/18/1985		ND (1)	22			ND (1)	ND (2)	ND (1)	4.5	ND (1)	ND (1)
S95D	11/19/1985		ND (1)	22.7	5.85			ND (1)	ND (1)	3.82	ND (1)	ND (1)
S95D	10/21/1987		ND	4.4	ND			ND		2.2	ND	
S95D	9/24/1992		U	53			U	U	U	U	U	U
S95D	5/3/1993		< (5)	47			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
S95D	8/23/1993		U	40 D			U	U	U	U	U	U
S95D	12/3/1993		U	7.2			U	U	U	U	U	U
S95M	11/18/1985		ND (1)	9.6			ND (1)	ND (2)	ND (1)	2	ND (1)	ND (1)
S95M	11/19/1985		ND (1)	14.2	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S95M	9/24/1992		U	2 J			U	U	U	U	U	U
S95S	11/18/1985		ND (1)	3.4			ND (1)	ND (2)	ND (1)	2.1	ND (1)	ND (1)
S95S	11/19/1985		ND (1)	2.91	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S95S	9/24/1992		U	13			U	U	U	U	U	U
S95S	5/3/1993		< (5)	< (5)			< (5)	< (2)	< (5)	< (5)	< (5)	< (5)
S95S	8/21/1993		U	6.9 B			U	U	U	U	U	U
S95S	12/3/1993		U	4.6			U	U	U	U	U	U
S96D	12/2/1985		32	170			26	ND (2)	ND (1)	2.3	6.5	ND (1)
S96D	12/6/1985		15	92.4	21.4			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S96M	12/2/1985		ND (1)	5.2			3.1	ND (2)	ND (1)	ND (1)	2.2	ND (1)
S96M	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S96S	12/2/1985		ND (1)	4.5			ND (1)	ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
S96S	12/6/1985		ND (1)	ND (1)	ND (1)			ND (1)	ND (1)	ND (1)	12	ND (1)
S97D	11/18/1985		16	76			30	ND (2)	ND (1)	1.8	3.2	ND (1)
S97D	11/19/1985		3.5	150	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S97D	8/18/1993		110	48	22.7 J	22 J	0.7 J	UJ	0.4 J	2 J	0.4 J	UJ
S97D	9/2/1993		99 J	42 J	22	22	U	U	U	1	U	U
S97S	11/18/1985		31	91			38	ND (2)	ND (1)	3.2	5.8	ND (1)
S97S	11/19/1985		ND (1)	5.79	ND (1)			ND (1)	ND (1)	ND (1)	ND (1)	ND (1)
S97S	11/19/1985		17.7	69.9	38.2			ND (1)	ND (1)	1.75	ND (1)	ND (1)
UC10-1	6/8/1987		39	8	21				ND	7		
UC10-1	6/15/1987		ND	10	10				ND	ND		
UC10-1	8/27/1987		490	87				ND (5)	3.3	15	ND (2)	ND (2)
UC10-1	12/1/1987		180	28				ND (5)	ND (2)	3.6	ND (2)	ND (2)
UC10-1	12/21/1992		190	69	65			U	U	U	U	U
UC10-1	2/8/1993		570	110	90			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-1	5/10/1993		300	65	79			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-1	8/9/1993		220	57	71.3	71	0.3 J	0.3 J	1	3	0.5	U
UC10-1	11/8/1993		630	110	120			ND (40)	ND (20)	ND (20)	ND (20)	ND (20)
UC10-1	3/21/1994		170	48	120			U	U	U	U	U
UC10-1	5/9/1994		280	81	99			U (20)	U (20)	U (20)	U (20)	U (20)
UC10-1	8/9/1994		64	12	18			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-1	11/14/1994		160	26	28			ND (12)	ND (6.2)	ND (6.2)	ND (6.2)	ND (6.2)
UC10-1	2/13/1995		220	35	42			ND (17)	ND (8.3)	ND (8.3)	ND (8.3)	ND (8.3)
UC10-1	5/8/1995		89	8 J	6 J			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-1	8/7/1995		270	60	71			ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
UC10-1	11/6/1995		58	4 J	3 JY			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-1	2/5/1996		220	83	310 Y			U	U	6 J	U	U
UC10-1	5/6/1996		100	15	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-1	4/21/1997		400 E	100		120	U (2)	U (2)	2	1	U (1)	U (1)
UC10-1	4/21/1997	DUP	370	74		88	U (10)	U (10)	U (5)	0.9 J	1 J	U (5)
UC10-1	4/21/1998		140 J	58 J		190	3 J	UJ (2)	0.8 J	2 J	UJ (1)	UJ (1)
UC10-1	4/7/1999			88			U (2)	U (2)	0.6 J	1	U (1)	U (1)
UC10-1	4/7/1999	D	400			530						
UC10-1	4/7/1999	DIL		120			U (10)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-1	4/7/1999	EX	320 E			500 E						
UC10-1	4/28/2000			68			U (2)	U (2)	0.9 J	2	U (1)	U (1)
UC10-1	4/28/2000	D	250			350						
UC10-1	4/28/2000	DIL		74			U (4)	U (4)	1 J	2	U (2)	U (2)
UC10-1	4/28/2000	EX	230 E			310 E						
UC10-1	4/24/2001		320	100		720	U (2)	U (2)	2	3	U (1)	U (1)
UC10-1	5/2/2002			75			2 J	U (2)	2	2	U (1)	U (1)
UC10-1	5/2/2002	D	230			560						
UC10-1	5/2/2002	DIL		94			U (10)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-1	5/2/2002	EX	240 E			610 E						
UC10-1	5/1/2003	D	55 J	23 J	450	450	U (5)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-1	4/29/2004		200	78	540	540	2	U (2)	2	U (1)	U (1)	U (1)
UC10-1	4/29/2004	DIL		75			U (5)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-1	4/29/2004	EX	230 E		540 E	540 E						
UC10-1	4/27/2005		330	120	460	460	2 J	U (2)	2 J	UJ (1)	U (1)	U (1)
UC10-1	4/27/2005	DIL		100			U (10)	U (20)	U (10)	U (10)	U (10)	U (10)
UC10-1	4/27/2005	EX	490 E		620 E	620 E						
UC10-1	5/3/2006		260	92	370	360	2	U (2)	0.8 J	1	U (1)	U (1)
UC10-1	5/3/2006	DIL		90	360		U (5)	U (10)	U (5)	U (5)	U (5)	U (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-1	5/3/2006	EX	240 E			370 E						
UC10-1	4/18/2007		260	110	390	390 E	2	U (2)	0.9 J	1 J	U (1)	U (1)
UC10-1	4/18/2007	DIL	260	120	350	350	4 J	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-1	4/15/2008		140	87	240	320	2	U (2)	0.6 J	U (1)	U (1)	U (1)
UC10-1	4/15/2008	DIL	140	56	320	320	2 J	U (4)	U (2)	0.8 J	U (2)	U (2)
UC10-1	4/15/2009		91	47	440 J	440 J	3	0.5 J	1 J	1 J	U (1)	U (1)
UC10-1	7/23/2010		98	51	540 J	540 J	3	0.4 J	1 J	1 J	U (1)	UJ (1)
UC10-2	6/8/1987		570	38	44			ND (50)	ND (25)	24 J	ND (25)	ND (25)
UC10-2	6/15/1987		22	ND (5)	20			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-2	8/26/1987		4200	160				ND (130)	ND (50)	ND (50)	ND (50)	ND (50)
UC10-2	12/1/1987		2600	150				ND (5)	5.8	30	ND (2)	ND (2)
UC10-2	12/21/1992		150	63	100			U	U	U	U	U
UC10-2	2/8/1993		120	71	120			U	U	U	U	U
UC10-2	5/10/1993		110	46	110			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-2	8/9/1993		240 J	63	120.3	120	0.3 J	0.4 J	0.5 J	1	U	U
UC10-2	11/8/1993		280	81	110			ND (40)	ND (20)	ND (20)	ND (20)	ND (20)
UC10-2	3/21/1994		110	36	180			U	U	2 J	U	U
UC10-2	5/9/1994		77	28	92			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-2	8/9/1994		45	18	170			U (10)	U (10)	1 J	U (10)	U (10)
UC10-2	11/14/1994		86	34	95			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-2	2/13/1995		110	39	99			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-2	5/8/1995		130	43	110			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-2	8/7/1995		110	44	100			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-2	11/6/1995		140	46	100			U (10)	U (10)	1 J	U (10)	U (10)
UC10-2	2/5/1996		76	30	120 Y			U (10)	U (10)	2 J	U (10)	U (10)
UC10-2	5/6/1996		100	34	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-2	4/21/1997		77	24		160	U (2)	U (2)	U (1)	1	U (1)	U (1)
UC10-2	4/21/1998		140	60		160	U (2)	U (2)	U (1)	3	U (1)	U (1)
UC10-2	4/7/1999		130	51		150	U (2)	U (2)	0.6 J	1 J	U (1)	U (1)
UC10-2	4/26/2000		130	41		100	U (2)	U (2)	U (1)	0.6 J	U (1)	U (1)
UC10-2	4/23/2001		100	42		130	U (2)	U (2)	0.5 J	0.6 J	U (1)	U (1)
UC10-2	5/1/2002		190	52		140	1 J	U (2)	0.8 J	U (1)	U (1)	U (1)
UC10-2	4/29/2003		150	56	120	120	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-2	4/27/2004		140	44	110	110	0.7 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-2	4/26/2005		100	50	220	160	2	U (2)	U (1)	UJ (1)	U (1)	U (1)
UC10-2	4/26/2005	DIL	53	31	160		U (5)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-2	4/26/2005	EX				210 E						
UC10-2	5/2/2006		57	27	200		1 J	2	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-2	5/2/2006					200 E						
UC10-2	4/17/2007		61	25	120	120	0.8 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-2	4/15/2008		190	57	86	86	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-2	4/15/2008	DIL	190	50	100	100	U (2)	U (4)	U (2)	U (2)	U (2)	U (2)
UC10-2	4/14/2009		130	45	100	100	0.7 J	U (2)	0.4 J	0.4 J	U (1)	U (1)
UC10-2	7/22/2010		93	52	170	170	1	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-3	6/15/1987		32	ND (5)	14			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-3	8/26/1987		1600	ND (100)				ND (250)	ND (100)	ND (100)	ND (100)	ND (100)
UC10-3	12/1/1987		880	130				ND (5)	ND (2)	7.7	ND (2)	ND (2)
UC10-3	12/21/1992		98	36	92			U	U	U	U	U
UC10-3	2/8/1993		530	110	58			U	U	U	U	U
UC10-3	5/10/1993		160	39	51			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-3	8/9/1993		350 J	53	46	46	U	U	U	0.7 J	U	U
UC10-3	11/8/1993		310	55	45			ND (40)	ND (20)	ND (20)	ND (20)	ND (20)
UC10-3	3/21/1994		180	44	120			U	U	U	U	U
UC10-3	5/9/1994		81	24	56			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-3	8/9/1994		96	27	110			U (10)	U (10)	1 J	U (10)	U (10)
UC10-3	11/14/1994		79	26	110			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-3	2/13/1995		180	39	82			ND (17)	ND (8.4)	ND (8.4)	ND (8.4)	ND (8.4)
UC10-3	5/8/1995		91	22	240			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-3	8/7/1995		250 E	47	130			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-3	11/6/1995		170	34	230			U (20)	U (20)	U (20)	U (20)	U (20)
UC10-3	5/6/1996		42	13	140			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-3	4/21/1997		160	44		180	U (2)	U (2)	U (1)	0.8 J	U (1)	U (1)
UC10-3	4/21/1998		190 J	56 J		210 E	5 J	UJ (2)	0.6 J	3 J	UJ (1)	UJ (1)
UC10-3	4/7/1999		68	29			U (2)	U (2)	0.9 J	0.9 J	U (1)	U (1)
UC10-3	4/7/1999	D				510						
UC10-3	4/7/1999	DIL	76	35			U (10)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-3	4/7/1999	EX				540 E						
UC10-3	4/26/2000		77	27		140	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-3	5/1/2002		130	44		200	1 J	U (2)	0.6 J	U (1)	U (1)	U (1)
UC10-3	4/29/2003		120	43	120	120	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-3	4/27/2004		54	26	190	190	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-3	4/26/2005		32	23	370	370	2	U (2)	U (1)	UJ (1)	U (1)	U (1)
UC10-3	4/26/2005	DIL	34	20			U (5)	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-3	4/26/2005	EX			480 E	480 E						
UC10-3	5/2/2006		84	24	270		1	U (2)	J	U (1)	U (1)	U (1)
UC10-3	5/2/2006					270 E						

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-3	4/17/2007		30	15	160	160	0.7 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-3	4/15/2008		94	28	160	150	1 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-3	4/14/2009		28	14	140	140	0.9 J	U (2)	0.3 J	U (1)	U (1)	U (1)
UC10-3	7/22/2010		91	32	180	180	1	U (2)	0.5 J	U (1)	U (1)	U (1)
UC10-4	6/8/1987		480	31	24			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
UC10-4	6/15/1987		2300	ND (125)	ND (125)			ND (250)	ND (125)	ND (125)	ND (125)	ND (125)
UC10-4	8/26/1987		5500	130				ND (250)	ND (100)	ND (100)	ND (100)	ND (100)
UC10-4	12/1/1987		3100	170				ND (5)	4.9	66	ND (2)	ND (2)
UC10-4	12/21/1992		170	34	43			U	U	U	U	U
UC10-4	2/8/1993		170	27	25			U	U	U	U	U
UC10-4	5/10/1993		140	21	46			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-4	8/9/1993		190 J	27	16.3	16	0.3 J	U	0.4 J	1	U	U
UC10-4	11/8/1993		150	20	20			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-4	3/21/1994		150	26	110			U	U	2 J	U	U
UC10-4	5/9/1994		120	20	46			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-4	8/9/1994		38	10	140			U (10)	U (10)	1 J	U (10)	U (10)
UC10-4	11/14/1994		88	20	49			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-4	2/13/1995		58	16	100			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-4	5/8/1995		130	24	31			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-4	8/7/1995		60	17	160			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-4	11/6/1995		44	14	160			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-4	2/5/1996		160		57 Y			U (10)	U (10)	1 J	U (10)	U (10)
UC10-4	5/6/1996		41	12	160			U (10)	U (10)	1 J	U (10)	U (10)
UC10-4	4/21/1997		140	27		79	U (2)	U (2)	U (1)	1	U (1)	U (1)
UC10-4	4/21/1998		83	32		170	U (2)	U (2)	0.7 J	2	U (1)	U (1)
UC10-4	4/7/1999		130	33		71	U (2)	U (2)	U (1)	0.9 J	U (1)	U (1)
UC10-4	4/26/2000		87	26		71	U (2)	U (2)	U (1)	0.5 J	U (1)	U (1)
UC10-4	4/23/2001		130	34		74	U (2)	U (2)	U (1)	0.6 J	U (1)	U (1)
UC10-4	5/1/2002		130	35		98	1 J	U (2)	0.6 J	0.9 J	U (1)	U (1)
UC10-4	4/29/2003		120	28	50	50	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/27/2004		68	27	110	110	0.8 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/26/2005		74	28	110	110	1 J	U (2)	U (1)	UJ (1)	U (1)	U (1)
UC10-4	5/2/2006		86 J	24 J	82	82	0.8 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	5/2/2006	DUP	34 J	14 J	130	130	1 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/17/2007		52 J	18	110	110	0.8 J	UJ (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/17/2007	DUP	100 J	22	39	39	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/15/2008		82 J	23	82	81	0.9 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/15/2008	DUP	94	22	55	55	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-4	4/14/2009		75	21	58	58	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	4/14/2009	DUP	100	20	28	28	0.4 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	7/22/2010		100	27	72	71	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-4	7/22/2010	DUP	84	25	88	87	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	6/8/1987		760	ND (50)	ND (50)			ND (100)	ND (50)	ND (50)	ND (50)	ND (50)
UC10-5	6/15/1987		880	40	27			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
UC10-5	8/26/1987		290	ND (10)				ND (25)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-5	12/1/1987		140	10				ND (25)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-5	12/21/1992		170	33	60			U	U	U	U	U
UC10-5	2/8/1993		180	35	21			U	U	U	U	U
UC10-5	5/10/1993		140	31	43			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
UC10-5	8/9/1993		140	31	23	23	U	0.3 J	0.5 J	1	U	U
UC10-5	11/8/1993		140	29	81			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-5	3/21/1994		120	25	120			U	U	1 J	U	U
UC10-5	3/21/1994	DIL	140 D	31 D	88 D			U	U	U	U	U
UC10-5	5/9/1994		110	25	57			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-5	8/9/1994		38	11	120			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-5	11/14/1994		40	15	110			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-5	2/13/1995		77	17	54			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-5	5/8/1995		94	24	93			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-5	8/7/1995		100	22	100			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-5	11/6/1995		89	19 J	120 Y			U (50)	U (50)	U (50)	U (50)	U (50)
UC10-5	2/5/1996		90	20	160 Y			U (10)	U	U	U	U
UC10-5	5/6/1996		54	16	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-5	4/21/1997		81	20		190	U (2)	U (2)	U (1)	0.7 J	U (1)	U (1)
UC10-5	4/21/1998		58 J	27 J		400	7 J	UJ (2)	UJ (1)	2 J	UJ (1)	UJ (1)
UC10-5	4/7/1999		84	22		98	U (2)	U (2)	U (1)	0.6 J	U (1)	U (1)
UC10-5	4/26/2000		56	22		110	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	4/23/2001		79	28		100	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	5/1/2002		90	30			1 J	U (2)	1 J	U (1)	U (1)	U (1)
UC10-5	5/1/2002	D				200						
UC10-5	5/1/2002	DIL	54	28			U (4)	U (4)	U (2)	U (2)	U (2)	U (2)
UC10-5	5/1/2002	EX				230 E						
UC10-5	4/29/2003	D	28	14	310	310	U (4)	U (8)	U (4)	U (4)	U (4)	U (4)
UC10-5	4/27/2004		58	19	240	220	1	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	4/27/2004	DIL	54	17	220		0.9 J	U (4)	U (2)	U (2)	U (2)	U (2)
UC10-5	4/27/2004	EX				230 E						
UC10-5	4/26/2005		20	14	260	320	2 J	U (2)	U (1)	UJ (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-5	4/26/2005	DIL	24	18	320		2 J	U (10)	U (5)	U (5)	U (5)	U (5)
UC10-5	4/26/2005	EX				260 E						
UC10-5	5/2/2006		17	8	300		1	2	UJ (1)	U (1)	U (1)	U (1)
UC10-5	5/2/2006					300 E						
UC10-5	4/17/2007		31	14	180	180	0.9 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	4/15/2008		24	13	170	170	1 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	4/14/2009		49	16	100	100	0.8 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-5	7/22/2010		30	16	110	110	0.8 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	6/8/1987		1400	86	48			ND (10)	ND (5)	32	ND (5)	ND (5)
UC10-6	6/15/1987		54	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-6	8/26/1987		74	3.8				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC10-6	12/1/1987		94	3.2				ND (5)	ND (2)	4.4	ND (2)	ND (2)
UC10-6	12/21/1992		280	20	32			U	U	6.8	U	U
UC10-6	2/8/1993		190	9.7	10			U	U	U	U	U
UC10-6	5/10/1993		68	5.7	18			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-6	8/9/1993		69	13	42	42	U	U	U	2	U	U
UC10-6	11/8/1993		160	ND (10)	ND (10)			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-6	3/21/1994		63	9 J	83			U	U	1 J	U	U
UC10-6	5/9/1994		64	5 J	19			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-6	8/9/1994		44	9 J	89			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-6	11/14/1994		38	5.8	21			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-6	2/13/1995		31	6.4	53			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC10-6	5/8/1995		28	5 J	79			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-6	8/7/1995		30	6 J	77			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC10-6	11/6/1995		31	6 J	66 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-6	2/5/1996		28	6 J	50 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-6	5/6/1996		32	9 J	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC10-6	4/21/1997		29	7		90	U (2)	U (2)	U (1)	0.5 J	U (1)	U (1)
UC10-6	4/21/1998		30	7		32	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/7/1999		37	10		49	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/26/2000		18	9		28	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/23/2001		26	18		41	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	5/1/2002		13	14		80	U (2)	U (2)	0.8 J	U (1)	U (1)	U (1)
UC10-6	4/29/2003		12	7	80	80	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/27/2004		14	14	65	64	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/26/2005		22	8	100	100	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	5/2/2006		17	8	87	87	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/17/2007		11	3	56	56	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10-6	4/15/2008		10	3	62	61	0.6 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	4/14/2009		9	3	40	40	0.4 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10-6	7/22/2010		9	5	60	60	0.4 J	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	8/4/1993		5	U	U	U	U	U	U	U	U	U
UC10D	4/22/1997		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/22/1997	DUP	U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/21/1998		UJ (1)	UJ (1)		U (2)	UJ (2)	UJ (2)	UJ (1)	UJ (1)	UJ (1)	UJ (1)
UC10D	4/7/1999		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/26/2000		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/26/2001		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	5/1/2002		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/29/2003		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/27/2004		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/26/2005		0.7 J	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	5/2/2006		U (1)	U (1)	U (2)	0.7 J	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/17/2007		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/15/2008		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	4/14/2009		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10D	7/21/2010		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	8/4/1993		U	U	U	U	U	U	U	U	U	U
UC10M	4/22/1997		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/22/1997	DUP	U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/21/1998		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/7/1999		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/26/2000		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/26/2001		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	5/1/2002		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/29/2003		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/27/2004		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/26/2005		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	5/2/2006		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/17/2007		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/15/2008		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	4/14/2009		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10M	7/21/2010		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	8/4/1993		U	U	U	U	U	U	U	U	U	U
UC10S	4/22/1997		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/22/1997	DUP	U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC10S	4/21/1998		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/7/1999		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/26/2000		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/25/2001		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	5/1/2002		U (1)	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/29/2003		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/27/2004		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/27/2005		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
UC10S	5/2/2006		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/18/2007		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/16/2008		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	4/14/2009		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC10S	7/28/2010		U (0.05)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.0074 J	U (1)
UC11-1	12/21/1987		6.3	14				ND (2)	1.1	ND (1)	ND (1)	ND (1)
UC11-1	1/19/1988		59	28					ND (10)	ND (10)		ND (40)
UC11-1	9/21/1990	524	120 E	30	4	4	ND (0.5)	ND (0.5)	0.6	0.6	ND (0.5)	ND (0.5)
UC11-1	9/21/1990	CLP	86	26	5 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC11-1	2/27/1991		190	66	19			U (10)	U (5)	U (5)	U (5)	U (5)
UC11-2	12/4/1987		870	210	54			ND	6	22		
UC11-2	12/4/1987	DUP	1100	220	54			ND	6	21		
UC11-2	12/21/1987		340	130				ND (2)	6	28	ND (1)	ND (1)
UC11-2	12/21/1987	DUP	330	120				ND (2)	5.6	26	ND (1)	ND (1)
UC11-2	1/19/1988		1400	210					ND (10)	18		ND (40)
UC11-2	1/19/1988	DUP	1800	340					16	45		ND (40)
UC11-2	9/20/1990	524	73	25	15	15	ND (0.5)	ND (0.5)	1	1	0.2	ND (0.5)
UC11-2	9/20/1990	CLP	66	26	20			ND (10)	1 J	2 J	ND (5)	ND (5)
UC11-2	2/21/1991		270	78 J	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
UC11-2	2/21/1991	COL	160	58 J	29			U (10)	U (5)	U (5)	U (5)	U (5)
UC11-2	2/21/1991	DUP	260	75 J	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
UC11-2	5/15/1991		1700	270	U (100)			U (200)	U (100)	U (100)	U (100)	U (100)
UC11-2	5/28/1991		130	22	4 J			U (10)	U (5)	U (5)	U (5)	U (5)
UC11-2	9/18/1992		440	84	20			U	U	U	U	U
UC11-2	12/22/1992		350	130	37			U	U	U	U	U
UC11-2	2/9/1993		240	160	28			U	U	U	U	U
UC11-2	5/13/1993		530	170	30			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC11-2	8/13/1993		450 J	120	21	21	U	U	2	U	U	U
UC11-2	8/13/1993	COL	560	150	22	22	U	U	2 J	U	U	U
UC11-2	11/11/1993		87	40	38			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC11-2	3/23/1994		140	54	53			U (10)	U (10)	U (10)	U (10)	U (10)
UC11-2	5/10/1994		200	77	31			U (10)	1 J	U (10)	U (10)	U (10)
UC11-2	8/10/1994		260 D	61	20			U (10)	U (10)	U (10)	U (10)	U (10)
UC11-2	11/14/1994		180	52	19			ND (12)	ND (6.2)	ND (6.2)	ND (6.2)	ND (6.2)
UC11-2	2/14/1995		240	62	12			ND (17)	ND (8.4)	ND (8.4)	ND (8.4)	ND (8.4)
UC11-2	5/9/1995		240 E	84	22			ND (10)	1 J	ND (10)	ND (10)	ND (10)
UC11-2	5/9/1995	DIL	250 D	81 D	25 D			ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
UC11-2	8/9/1995		59	25	340			ND (10)	1 J	ND (10)	ND (10)	ND (10)
UC11-2	11/6/1995		150	48	170 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UC11-2	2/5/1996		71	29	160 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UC11-2	5/6/1996		140	44	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC11-2	4/23/1997		150	85		48	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC11-2	4/21/1998		110 J	96 J		140	3 J	UJ (2)	UJ (1)	UJ (1)	UJ (1)	UJ (1)
UC11-2	4/9/1999		170	100		2	U (2)	U (2)	0.5 J	U (1)	U (1)	U (1)
UC11-2	4/28/2000		110	71		160	1 J	U (2)	0.6 J	U (1)	U (1)	U (1)
UC11-2	4/26/2001		210	92		99	7	U (2)	1	U (1)	U (1)	U (1)
UC11-2	5/3/2002		97 J	72			9	U (2)	1	U (1)	U (1)	U (1)
UC11-2	5/3/2002	D				280						
UC11-2	5/3/2002	DIL	77	51			5	U (4)	U (2)	U (2)	U (2)	U (2)
UC11-2	5/3/2002	EX				300 E						
UC11-2	4/30/2003	D	72	56	250	250	U (4)	U (8)	U (4)	U (4)	U (4)	U (4)
UC11-2	4/28/2004		81	46	240	230	6	U (2)	U (1)	U (1)	U (1)	U (1)
UC11-2	4/28/2004	DIL	67	41	240		16	U (4)	U (2)	U (2)	U (2)	U (2)
UC11-2	4/28/2004	EX				240 E						
UC11-2	4/27/2005		87 J	44	300	210	12	U (2)	0.9 J	UJ (1)	UJ (1)	UJ (1)
UC11-2	4/27/2005	DIL	61	36	220		11	U (10)	U (5)	U (5)	U (5)	U (5)
UC11-2	4/27/2005	EX				290 E						
UC11-2	5/3/2006		91	62	240		15	U (2)	0.8 J	U (1)	U (1)	U (1)
UC11-2	5/3/2006					220 E						
UC11-2	4/18/2007		56	44	250	240 E	11	U (2)	U (1)	U (1)	U (1)	U (1)
UC11-2	4/18/2007	DIL	40	37	230	220	9	U (4)	U (2)	U (2)	U (2)	U (2)
UC11-2	4/16/2008		68	47	170	160	11	U (2)	0.5 J	U (1)	U (1)	U (1)
UC11-2	4/16/2009		52	56	240	250	15	U (2)	0.6 J	U (1)	U (1)	U (1)
UC11-2	4/16/2009	DIL	61	52	260	250	11	U (4)	U (2)	U (2)	U (2)	U (2)
UC11-2	7/23/2010		37	39	350	330 J	18	U (2)	0.8 J	UJ (1)	U (1)	UJ (1)
UC11-3	12/4/1987		670	130	26			ND	3	ND		
UC11-3	12/4/1987	DUP	800	140	27			ND	3	ND		
UC11-3	12/21/1987		880	150				ND (20)	ND (10)	ND (10)	ND (10)	ND (10)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC11-4	12/21/1987		28	12				ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
UC11-4	12/22/1987		110	67				ND (2)	3.9	3.6	ND (1)	ND (1)
UC11-4	9/21/1990	524	95 E	37	16	16	ND (0.5)	ND (0.5)	2	0.8	ND (0.5)	ND (0.5)
UC11-4	9/21/1990	CLP	93	38	20			ND (10)	2 J	1 J	ND (5)	ND (5)
UC11-4	2/27/1991		40	12	4 J			U (10)	U (5)	U (5)	U (5)	U (5)
UC11-4	9/9/1993		16 J	22	18 J	18 J	U	U	1	1	U	U
UC11-6	12/21/1987		700	84				ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
UC12-1	12/3/1987		ND	ND	ND			5	ND	ND		
UC12-1	12/22/1987		ND (1)	ND (1)				ND (2)	ND (1)	ND (1)	3.5	ND (1)
UC12-1	1/19/1988		ND (10)	ND (10)					ND (10)	ND (10)		ND (40)
UC12-1	9/19/1990	524	0.9	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	1	ND (0.5)
UC12-1	9/19/1990	CLP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	1 J	ND (5)
UC12-1	9/19/1990	CLP	ND (30)	ND (30)	ND (30)			ND (60)	ND (30)	ND (30)	ND (30)	ND (30)
UC12-1	2/14/1991		U (10)	U (10)	U (10)			U (20)	U (10)	U (10)	U (10)	U (10)
UC12-2	12/3/1987		ND	ND	ND			3 J	ND	ND		
UC12-2	12/22/1987		ND (1)	ND (1)				ND (2)	ND (1)	ND (1)	1.7	ND (1)
UC12-2	1/19/1988		ND (10)	ND (10)					ND (10)	ND (10)		ND (40)
UC12-3	12/2/1987		ND	1	ND			ND	ND	ND		
UC12-3	12/2/1987	DUP	2	2	ND			ND	ND	ND		
UC12-3	12/22/1987		6.1	5.3				ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
UC12-3	12/22/1987	DUP	6.8	5.7				ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
UC12-4	12/3/1987		ND	ND	ND			ND	ND	ND		
UC12-4	12/22/1987		ND (1)	ND (1)				ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
UC12-4	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC12-4	9/19/1990	524	0.6	0.2 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
UC12-4	2/13/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC12-4	9/9/1993		5 J	5 J	1	1	U	U	U	U	U	U
UC12-4	9/9/1993	COL	2 J	3 J	1	1	U	U	U	U	U	U
UC12-5	12/2/1987		ND	ND	ND			ND	ND	ND		
UC12-5	12/22/1987		ND (1)	ND (1)				ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
UC12-5	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC12-5	9/19/1990	524	0.8	0.4 J	2	2	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
UC12-6	12/2/1987		ND	ND	ND			ND	ND	ND		
UC12-6	12/22/1987		ND (1)	ND (1)				ND (2)	ND (1)	ND (1)	ND (1)	ND (1)
UC12-6	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC12-6	9/19/1990	524	0.3 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
UC12-6	2/13/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC13-1	2/3/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC13-1	2/3/1988	DUP	ND (2)	3.2				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-1	3/25/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-1	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC13-1	9/19/1990	524	0.3 J	2	0.3 J	0.3 J	ND (0.5)	ND (0.5)	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)
UC13-1	9/19/1990	DU5	0.3 J	1		0.3 J	ND (0.5)	ND (0.5)	ND (0.5)	0.2 J	ND (0.5)	ND (0.5)
UC13-1	9/19/1990	DUP	ND	ND	NDD				ND	ND	ND	
UC13-1	2/15/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
UC13-1	8/17/1993		0.2 J	1	0.4 J	0.4 J	U	U	U	U	U	U
UC13-2	2/3/1988		ND (2)	2.9				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-2	3/25/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-2	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC13-2	9/19/1990	524	0.3 J	1	0.3 J	0.3 J	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
UC13-2	2/15/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
UC13-2	8/17/1993		0.2 J	3	0.5 J	0.5 J	U	U	0.5	0.4 J	U	U
UC13-3	2/3/1988		ND (2)	3.7				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-3	3/25/1988		ND (2)	3.6				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-3	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC13-3	9/19/1990	524	0.3 J	3	3	3	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)	ND (0.5)
UC13-3	2/15/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC13-3	8/17/1993		0.6	8	6	6	U	U	0.2 J	U	U	U
UC13-4	2/3/1988		ND (2)	36				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-4	3/25/1988		ND (2)	9.6				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC13-4	9/19/1990		ND	ND	NDD				ND	ND	ND	
UC13-4	9/19/1990	524	0.3 J	8	1	1	ND (0.5)	ND (0.5)	0.5	ND (0.5)	ND (0.5)	ND (0.5)
UC13-4	2/15/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC13-4	8/17/1993		0.2 J	10	0.9	0.9	U	U	1	U	U	U
UC13-5	3/25/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-1	2/19/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-1	2/19/1988	DUP	ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-1	4/13/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-1	2/15/1991		67 J	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
UC14-1	5/15/1991		10	5 J	7			U (10)	U (5)	5 J	U (5)	U (5)
UC14-1	5/28/1991		R	R	R			R	R	R	R	R
UC14-1	5/28/1991		9 J	UJ (5)	9 J			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
UC14-1	8/18/1993		10	5	3	3	U	U	U	3	1	U
UC14-1	4/21/1997		23	7	2 J	2 J	U (2)	U (2)	U (1)	2	0.9 J	
UC14-1	4/21/1997											U (1)
UC14-2	2/18/1988		3	ND (2)				ND (5)	ND (2)	ND (2)	6.1	ND (2)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC14-2	4/13/1988		ND (2)	ND (2)				ND (5)	ND (2)	4.1	4.5	ND (2)
UC14-2	2/19/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	9 J	UJ (5)	UJ (5)
UC14-2	8/18/1993		2	2	2	2	U	U	U	4	1	U
UC14-2	4/21/1997		7	5		3	U (2)	U (2)	U (1)	5	1	U (1)
UC14-3	2/18/1988		9.3	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-3	4/13/1988		2	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-3	2/15/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	8 J	UJ (5)	UJ (5)
UC14-3	2/19/1991	DIL	UJ (25)	UJ (25)	UJ (25)			UJ (50)	UJ (25)	UJ (25)	UJ (25)	UJ (25)
UC14-3	8/18/1993		2	0.5 J	0.3 J	0.3 J	U	U	U	4	0.2 J	U
UC14-3	4/21/1997											U (1)
UC14-3	4/21/1997		5	2	0.7 J	0.7 J	U (2)	U (2)	U (1)	3	U (1)	
UC14-4	2/18/1988		75	3.5				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-4	4/13/1988		16	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-4	2/19/1991		UJ (5)	UJ (5)	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
UC14-4	8/18/1993		19 J	17 J	4	4	U	U	0.3 J	3	0.3 J	U
UC14-4	8/18/1993	COL	28 J	10 J	3	3	U	U	U	4	0.3 J	U
UC14-4	4/21/1997		2	6		10	17	U (2)	U (1)	3	U (1)	U (1)
UC14-5	2/18/1988		71	3.2				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-5	4/13/1988		15	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC14-5	2/19/1991		140 J	11 J	UJ (5)			UJ (10)	UJ (5)	UJ (5)	UJ (5)	UJ (5)
UC14-5	5/15/1991		96	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC14-5	5/28/1991		80	5	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC14-5	8/18/1993		6	15	3	2	1	U	U	5	0.2 J	U
UC14-5	4/21/1997		2	16	12	5	7	U (2)	U (1)	3	U (1)	
UC14-5	4/21/1997											U (1)
UC15	10/28/1987		17000	ND (400)				ND (1000)	ND (400)	ND (400)	ND (400)	ND (400)
UC16	10/28/1987		2600	ND (50)				ND (130)	ND (50)	280	ND (50)	ND (50)
UC16	8/10/1993		2200	U	U	U	U	U	U	60	U	U
UC17	10/28/1987		1300	ND (40)				ND (100)	ND (40)	ND (40)	ND (40)	ND (40)
UC17	9/18/1992		280	91	120			U	U	U	U	U
UC17	9/18/1992	COL	280	88	120			U	U	U	U	U
UC17	8/11/1993		4	8	130.3	130	0.3 J	U	0.3 J	0.4 J	U	U
UC18	10/28/1987		4300	ND (200)				ND (500)	ND (200)	ND (200)	ND (200)	ND (200)
UC18	2/27/1991		R	65	33			U (10)	18	480 J	U (5)	U (5)
UC18	2/27/1991	CLP	23000	ND (1200)	ND (1200)			ND (2500)	ND (1200)	500 J	ND (1200)	ND (1200)
UC18	2/27/1991	DIL	19000	U (2500)	U (2500)			U (5000)	U (2500)	U (2500)	U (2500)	U (2500)
UC18	5/16/1991		1700	U (50)	40 J			U (100)	U (50)	U (50)	U (50)	U (50)
UC18	5/16/1991	COL	1900	U (50)	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC18	5/16/1991	DUP	1700	U (50)	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)
UC18	5/28/1991		R	3 J	U (5)			U (10)	U (5)	8	U (5)	U (5)
UC18	5/28/1991	DIL	530	U (25)	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
UC18	9/18/1992		15 J	1 J	10 J	10 J	UJ	UJ	UJ	UJ	UJ	UJ
UC18	9/18/1992	RE	20	2	10	10	U	U	U	U	U	U
UC18	12/21/1992		580	U	42			U	U	7.3	U	U
UC18	12/21/1992	COL	530	U	42			U	U	7.8	U	U
UC18	2/8/1993		110	U	37			U	U	U	U	U
UC18	2/8/1993	COL	130	U	38			U	U	U	U	U
UC18	5/10/1993		26	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC18	5/10/1993	COL	28	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC18	11/8/1993		6.6	ND (5)	10			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC18	11/8/1993	COL	12	ND (5)	9.9			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC18	3/21/1994		19	U	1 J			U	U	U	U	U
UC18	3/21/1994	COL	19	U	U			U	U	U	U	U
UC18	5/9/1994		12	U (10)	1 J			U (10)	U (10)	U (10)	U (10)	U (10)
UC18	5/9/1994	COL	11	U (10)	2 J			U (10)	U (10)	U (10)	U (10)	U (10)
UC18	11/15/1994		6.7	ND (5)	10			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC18	2/14/1995		30	ND (5)	2.6 J			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC18	5/8/1995		1 J	ND (10)	18			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC18	8/7/1995		11	2 J	1 J			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC18	11/6/1995		2 J	U (10)	19 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UC18	2/5/1996		5 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC18	5/6/1996		4 J	U (10)	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UC18	7/29/2010		7.8 J	U (1)		0.0084 J	U (1)	U (0.05)	U (1)	U (1)	U (0.085)	U (1)
UC19	10/28/1987		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC19	9/18/1992	RE	0.6	0.5	12 J	12 J	U	U	U	U	U	U
UC19	8/5/1993		110	6	8	8	U	U	U	U	U	U
UC19	7/27/2010		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	UJ (1)
UC19M	8/4/1993		75 J	2	0.4 J	0.4 J	U	U	U	U	U	U
UC19M	8/4/1993	COL	65	2	0.3 J	0.3 J	U	U	U	U	U	U
UC19M	7/28/2010		U (1)	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	UJ (1)
UC19S	8/4/1993		U	U	U	U	U	U	U	U	U	U
UC19S	7/29/2010		UJ (0.14)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	U (0.05)	U (1)
UC20	10/28/1987		85	ND (2)				ND (5)	ND (2)	11	ND (2)	ND (2)
UC20	8/6/1993		1100 J	120 J	29 J	29 J	U	U	U	4 J	U	U
UC20	8/6/1993	COL	670 J	40 J	9 J	9 J	U	U	U	3 J	U	U
UC21	1/13/1988		210	20					ND (10)	ND (10)		ND (40)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC21	1/20/1988		9700	450					14	23		ND (40)
UC21	1/21/1988		6400	400				ND (250)	ND (100)	ND (100)	ND (100)	ND (100)
UC21	1/21/1988		4500	490				ND (50)	ND (20)	ND (20)	ND (20)	ND (20)
UC21	1/21/1988		4100	360				ND (100)	ND (40)	ND (40)	ND (40)	ND (40)
UC21	1/21/1988	DUP	6800	420				ND (50)	ND (20)	ND (20)	ND (20)	ND (20)
UC21	1/22/1988		13800	684					32	25		ND (40)
UC21	1/25/1988		3400	130					ND (20)	ND (20)		ND (40)
UC21	1/25/1988		3660	120					ND (20)	ND (20)		ND (40)
UC21	1/25/1988		2000	ND (100)				ND (250)	ND (100)	ND (100)	ND (100)	ND (100)
UC21	1/25/1988		2600	ND (100)				ND (250)	ND (100)	ND (100)	ND (100)	ND (100)
UC22	2/29/1988		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC22	2/29/1988		83	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC22	2/29/1988		240	3.6				ND (5)	ND (2)	2.8	ND (2)	ND (2)
UC22	3/1/1988		520	8.6				ND (5)	ND (2)	6.8	ND (2)	ND (2)
UC22	3/1/1988		770	11				ND (5)	ND (2)	11	ND (2)	ND (2)
UC22	3/2/1988		900	12				ND (5)	ND (2)	12	ND (2)	ND (2)
UC22	3/2/1988		1400	16				ND (5)	ND (2)	16	ND (2)	ND (2)
UC22	3/2/1988		1700	17				ND (5)	ND (2)	19	ND (2)	ND (2)
UC22	3/3/1988		2000	20				ND (5)	ND (2)	24	ND (2)	ND (2)
UC22	3/3/1988		2200	20				ND (5)	ND (2)	25	ND (2)	ND (2)
UC22	5/16/1991		4700	U (250)	U (250)			U (500)	U (250)	U (250)	U (250)	U (250)
UC22	10/1/1992		200	13	4 J			U	U	2 J	U	U
UC22	10/5/1992		390 E	37	13			U	U	11	U	U
UC22	10/8/1992		1100	59	21			U	U	23	U	U
UC22	10/12/1992		1100	59	20			U	U	22	U	U
UC22	10/15/1992		820	69	22			U	U	26	U	U
UC22	10/19/1992		750	80	26			U	U	29	U	U
UC22	10/19/1992		1400	93	31			U	U	26	U	U
UC22	10/22/1992		1600	87	28			U	U	34	U	U
UC22	10/27/1992		1300	90	30			U	U	30	U	U
UC22	11/2/1992		U	U	U			U	U	U	U	U
UC22	11/5/1992		1500	110	31			U	U	32	U	U
UC22	11/9/1992		500	100	34			U	U	32	U	U
UC22	11/12/1992		1200	120	37			U	U	35	U	U
UC22	11/17/1992		1500	130	37			U	U	35	U	U
UC22	11/19/1992		1300	110	32			U	U	32	U	U
UC22	11/23/1992		1500	114	34			U	U	32	U	U
UC22	11/25/1992		1800	130	36			U	U	34	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC22	12/2/1992		1700	130	39			U	U	37	U	U
UC22	12/8/1992		1600	130	35			U	U	35	U	U
UC22	12/15/1992		1300	114	27			U	U	24	U	U
UC22	12/22/1992		1700	110	33			U	U	34	U	U
UC22	12/28/1992		1600	120	34			U	U	35	U	U
UC22	1/6/1993		1600	110	30			U	U	31	U	U
UC22	1/13/1993		2900	120	32			U	U	35	U	U
UC22	1/20/1993		1000	100	27			U	U	27	U	U
UC22	1/26/1993		1400	110	26			U	U	26	U	U
UC22	2/8/1993		1700	109	32			U	U	26	U	U
UC22	3/29/1993		760 E	67	16			U	1 J	16	U	U
UC22	3/29/1993	524	1900	61	16	16	U	U	1 J	16	U	U
UC22	3/29/1993	DUP	1900	62	15 J	15 J	U	U	U	15 J	U	U
UC22	4/15/1993		1200	U	21			U	U	25	U	U
UC22	5/5/1993		2000	84	20			U	U	20	U	U
UC22	8/10/1993		2100	87	16	16	U	U	U	17	U	U
UC22	8/10/1993	COL	1900	89	15	15	U	U	U	17	U	U
UC22	11/2/1999		650	38 B		U (10)	U (10)	U (10)	U (5)	4 J	U (5)	U (5)
UC22	1/4/2000		740	36		U (10)	U (10)	U (10)	U (5)	5 J	U (5)	U (5)
UC22	3/7/2000		710	26		U (10)	U (10)	U (10)	U (5)	5 J	U (5)	U (5)
UC22	5/2/2000		640	15		U (10)	U (10)	U (10)	U (5)	4 J	U (5)	U (5)
UC23-1	2/27/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-2	2/26/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-2	2/26/1991	CLP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	5	ND (5)
UC23-2	2/26/1991	COL	U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-2	2/26/1991	DUP	U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-3	2/27/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-3	5/15/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-3	5/30/1991		5	U (5)	U (5)			U (10)	U (5)	U (5)	4 J	U (5)
UC23-4	2/27/1991	COL	5 J	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-4	2/27/1991	DUP	9	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-4	2/28/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-5	2/26/1991		U (5)	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC23-5	2/26/1991	CLP	ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	3 J	ND (5)
UC24D	8/6/1993		200	3	0.6 J	0.6 J	U	U	U	U	U	U
UC24S	8/5/1993		U	U	U	U	U	U	U	U	U	U
UC24S	7/28/2010		0.033 J	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.1	U (1)
UC25	2/7/1994		1000	U (23)		U (23)	U (23)	U (23)	U (23)	17 J	U (23)	U (23)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC25	7/30/2010		160	0.7 J		4	U (1)	U (1)	U (1)	1	U (1)	U (1)
UC26D	1/19/1994		930	28		26	0.3 J	U (0.5)	3	0.5 J	0.2 J	U (0.5)
UC26S	1/19/1994		51	U (0.5)		U (0.5)	U (0.5)	U (0.5)	U (0.5)	0.6	U (0.5)	U (0.5)
UC26S	7/30/2010		21 J	U (1)		0.1	U (1)	U (0.05)	U (1)	U (1)	0.04 J	U (1)
UC29D	1/19/1994		75	0.8		1	U (0.5)	U (0.5)	U (0.5)	0.7	2	U (0.5)
UC29S	1/19/1994		290	5		14	0.7	U (0.5)	U (0.5)	3	78	U (0.5)
UC29S	7/29/2010		160	1		4	U (1)	U (0.05)	U (1)	U (1)	U (0.26)	U (1)
UC29S	7/29/2010	DUP	160	1		3	U (1)	U (0.05)	U (1)	U (1)	U (0.25)	U (1)
UC30	2/7/1994		29	U (0.5)		U (0.5)	U (0.5)	U (0.5)	U (0.5)	1	U (0.5)	U (0.5)
UC30	2/7/1994		30	U (0.5)		U (0.5)	U (0.5)	U (0.5)	U (0.5)	1	U (0.5)	U (0.5)
UC31D	1/19/1994		170	3		U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)
UC31D	1/19/1994		150	4		0.4 J	U (0.5)	U (0.5)	0.2 J	U (0.5)	U (0.5)	U (0.5)
UC31M	1/19/1994		9	0.6		U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	0.2 J	U (0.5)
UC31S	1/19/1994		2	U (0.5)		U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)	U (0.5)
UC31S	7/29/2010		U (0.39)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	U (0.05)	U (1)
UC4	12/8/1986		1532	ND						4		
UC4	2/4/1987		210	ND (10)				ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC4	11/30/1987		33	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC4	8/10/1993		31	0.5 J	UJ	UJ	UJ	UJ	UJ	UJ	UJ	UJ
UC4	7/30/2010		3 J	U (1)		0.1 J	U (1)	U (0.05)	U (1)	U (1)	0.6 J	U (1)
UC5	12/8/1986		2175	12						973		
UC5	12/8/1986		2576	14						1087		
UC5	2/4/1987		2000	25				ND (10)	11	1300	ND (10)	ND (10)
UC5	11/30/1987		1500	8				ND (5)	5.5	620	ND (2)	ND (2)
UC5	2/27/1991		R	5	U (5)			U (10)	1 J	76	U (5)	U (5)
UC5	2/27/1991	DIL	870	U (25)	U (25)			U (50)	U (25)	90	U (25)	U (25)
UC5	8/10/1993		290	26	3	3	U	U	U	20	U	U
UC5	7/30/2010		440	4		1	U (1)	U (1)	U (1)	15	U (1)	U (1)
UC6	12/8/1986		92	< (10)						< (10)		
UC6	2/4/1987		30	ND (10)				ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC6	2/4/1987		170	17				ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC6	11/30/1987		43	2.4				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC6	11/30/1987	DUP	97	6.9				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC6	2/20/1991		R	30	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UC6	2/20/1991	DIL	2200	U (100)	U (100)			U (200)	U (100)	U (100)	U (100)	U (100)
UC6	8/9/1993		270	8	0.7	0.7	U	U	0.4 J	U	U	U
UC6	4/23/1997											U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC6	4/23/1997		31	2		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	
UC6	4/22/1998		32	3		U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/9/1999		34	3		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/28/2000		43	3		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/28/2000	DUP	41	3		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/25/2001		33 J	3 J		U (2)	UJ (2)	UJ (2)	UJ (1)	UJ (1)	U (1)	U (1)
UC6	4/25/2001	DUP	37	3		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	5/3/2002		59 J	5 J		2 J	U (2)	U (2)	0.8 J	U (1)	U (1)	U (1)
UC6	5/3/2002	DUP	50 J	UJ (1)		1 J	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/30/2003		36	3	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/28/2004		20	2	0.3 J	0.3 J	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/27/2005		33	8	9	9	U (1)	U (2)	U (1)	UJ (1)	U (1)	U (1)
UC6	5/4/2006		23	6	4	4	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/19/2007		26	7	2 J	2	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/16/2008		24	5	0.8 J	0.8 J	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	4/14/2009		31	16	3	3	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6	7/21/2010		39	9	2 J	2	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	8/9/1993		86	0.6	0.6	0.6	U	U	U	1	U	U
UC6S	4/23/1997		11	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/22/1998		45	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/8/1999		5	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/27/2000		2	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/26/2001		22	U (1)		U (2)	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	5/2/2002		0.7 J	U (1)		U (2)	U (2)	U (2)	0.5 J	U (1)	U (1)	U (1)
UC6S	4/30/2003		2	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/28/2004		6	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/28/2005		5 J	U (1)	U (2)	0.5 J	U (1)	U (2)	U (1)	UJ (1)	0.5 J	UJ (1)
UC6S	5/3/2006		2	U (1)	2 J	2	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/18/2007		3	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/17/2008		4	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	4/16/2009		3	U (1)	U (2)	U (1)	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UC6S	7/29/2010		15 J	U (1)		0.072	U (1)	U (0.05)	U (1)	U (1)	U (0.05)	U (1)
UC7-1	2/3/1987		7100	110				ND (10)	ND (10)	420	ND (10)	ND (10)
UC7-1	2/3/1987		3000	17				ND (10)	ND (10)	130	ND (10)	ND (10)
UC7-1	8/26/1987		6900	89				ND (100)	ND (40)	560	ND (40)	ND (40)
UC7-1	11/30/1987		12000	100				ND (50)	ND (20)	530	ND (20)	ND (20)
UC7-1	2/22/1991		1300 J	75 J	85 J			U (200)	U (100)	170 J	U (100)	U (100)
UC7-1	2/22/1991	COL	2800 J	U (100)	U (100)			U (200)	U (100)	U (100)	U (100)	U (100)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC7-1	2/22/1991	DUP	2100 J	81 J	58 J			U (200)	19 J	190 J	U (100)	U (100)
UC7-1	4/21/1997											U (20)
UC7-1	4/21/1997		2100	74		30 J	U (40)	U (40)	12 J	60	7 J	
UC7-1	4/23/1998		1800	58		U (40)	U (40)	U (40)	U (20)	12 J	U (20)	U (20)
UC7-1	4/9/1999			64		U (2)	3	U (2)	4	21	1	U (1)
UC7-1	4/9/1999	D	2900									
UC7-1	4/9/1999	DIL		76		U (40)	U (40)	U (40)	U (20)	38	U (20)	U (20)
UC7-1	4/9/1999	EX	2300 E									
UC7-1	4/27/2000			71		14	U (2)	U (2)	8	42	0.6 J	U (1)
UC7-1	4/27/2000	D	3500									
UC7-1	4/27/2000	DIL		79		U (40)	U (40)	U (40)	11 J	44	U (20)	U (20)
UC7-1	4/27/2000	EX	2800 E									
UC7-1	4/23/2001		3100	59		9	U (2)	U (2)	4	18	4	U (1)
UC7-1	5/2/2002			60		18	U (2)	U (2)	13	47	6	U (1)
UC7-1	5/2/2002	D	2400									
UC7-1	5/2/2002	DIL		57		21	U (20)	U (20)	18	52	10 J	U (10)
UC7-1	5/2/2002	DIL		56		U (40)	U (40)	U (40)	U (20)	42	14 J	U (20)
UC7-1	5/2/2002	EX	2900 E									
UC7-1	5/2/2002	EX	3000 E									
UC7-1	5/1/2003	D	2400 J	U (50)	U (100)	U (50)	U (50)	U (100)	U (50)	U (50)	U (50)	U (50)
UC7-1	4/29/2004		1900	62	13	13	U (1)	U (2)	7	35	8	U (1)
UC7-1	4/29/2004	DIL		57	20 J	20 J	U (50)	U (100)	U (50)	U (50)	U (50)	U (50)
UC7-1	4/29/2004	EX	3600 E									
UC7-1	4/28/2005		1800	65	15	15	0.3 J	U (2)	7	36	3	U (1)
UC7-1	4/28/2005	DIL		100	59 J	59	U (50)	U (100)	U (50)	43 J	U (50)	U (50)
UC7-1	4/28/2005	EX	2900 E									
UC7-1	5/4/2006		2500	74	11	11	U (5)	U (10)	5 J	U (5)	U (5)	U (5)
UC7-1	4/19/2007		2000	110	11	11	U (1)	U (2)	6	26	1 J	U (1)
UC7-1	4/19/2007	DIL	2000	100	10 J	10	U (10)	U (20)	U (10)	27	U (10)	U (10)
UC7-1	4/17/2008		2300	110	24	24	U (1)	U (2)	5	37	0.7 J	U (1)
UC7-1	4/17/2008	DIL	2300	140	10 J	10 J	U (20)	U (40)	U (20)	25	U (20)	U (20)
UC7-1	4/15/2009		1900	160	25	25	U (1)	U (2)	4	22	0.3 J	U (1)
UC7-1	7/22/2010		2500	420	13	13	0.4 J	U (2)	5	32	U (1)	U (1)
UC7-2	2/3/1987		17000	200				ND (10)	120	1600	ND (10)	ND (10)
UC7-2	2/3/1987		11000	250				ND (10)	220	1600	ND (10)	ND (10)
UC7-2	8/26/1987		17000	180				ND (130)	90	1700	ND (50)	ND (50)
UC7-2	8/26/1987	DUP	13000	140				ND (250)	ND (100)	1400	ND (100)	ND (100)
UC7-2	11/30/1987		17000	200				ND (50)	170	1400	ND (20)	ND (20)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC7-2	2/22/1991		R	120 J	180			U (10)	42	R	U (5)	U (5)
UC7-2	2/22/1991	DIL	2300	U (100)	U (100)			U (200)	U (100)	220	U (100)	U (100)
UC7-2	5/15/1991		23000	U (1700)	U (1700)			U (3300)	U (1700)	U (1700)	U (1700)	U (1700)
UC7-2	5/28/1991		2900	U (100)	U (100)			U (200)	U (100)	U (100)	U (100)	U (100)
UC7-2	4/21/1997											U (1)
UC7-2	4/21/1997		2900	78		28	U (40)	U (40)	15 J	86	U (20)	
UC7-2	4/21/1997	DUP	1100 E	76		27	0.5 J	0.8 J	19	89	U (1)	
UC7-2	4/23/1998		4800	61 J		U (40)	UJ (40)	UJ (40)	UJ (20)	94 J	UJ (20)	UJ (20)
UC7-2	4/9/1999			71		U (2)	11	U (2)	11	150	U (1)	U (1)
UC7-2	4/9/1999	D	5100									
UC7-2	4/9/1999	DIL		79		U (100)	U (100)	U (100)	U (50)	160	U (50)	U (50)
UC7-2	4/9/1999	EX	4200 E									
UC7-2	4/27/2000			69		31	U (2)	U (2)	10	74	U (1)	U (1)
UC7-2	4/27/2000	D	4800									
UC7-2	4/27/2000	DIL		91		U (100)	U (100)	U (100)	U (50)	100	U (50)	U (50)
UC7-2	4/27/2000	DIL		76		23 J	U (40)	U (40)	19 J	89	U (20)	U (20)
UC7-2	4/27/2000	EX	4300 E									
UC7-2	4/27/2000	EX	2600 E									
UC7-2	4/23/2001		6500	63		14	U (2)	U (2)	8	71	U (1)	U (1)
UC7-2	5/2/2002			68		34	U (2)	U (2)	18	86	U (1)	U (1)
UC7-2	5/2/2002	D	1100									
UC7-2	5/2/2002	DIL		110		23	U (20)	U (20)	21	79	U (10)	U (10)
UC7-2	5/2/2002	DIL		U (20)		27 J	U (40)	U (40)	U (20)	48	U (20)	U (20)
UC7-2	5/2/2002	EX	3400 E									
UC7-2	5/2/2002	EX	3800 E									
UC7-2	5/1/2003	D	2800 J	U (100)	U (200)	U (100)	U (100)	U (200)	U (100)	U (100)	U (100)	U (100)
UC7-2	4/29/2004		2400	120	12	12	U (1)	U (2)	11	48	0.3 J	U (1)
UC7-2	4/29/2004	DIL		96	U (100)	U (50)	U (50)	U (100)	U (50)	38 J	U (50)	U (50)
UC7-2	4/29/2004	EX	2600 E									
UC7-2	4/28/2005		2800	300	22	22	0.5 J	2 J	12	43	U (1)	U (1)
UC7-2	4/28/2005	DIL			U (200)	51 J	U (100)	U (200)	U (100)	67 J	U (100)	U (100)
UC7-2	4/28/2005	EX	2500 E	370 E								
UC7-2	5/4/2006		2600	420	22	22	U (2)	U (4)	8	42	U (2)	U (2)
UC7-2	4/19/2007		2600	340	13	12	0.8 J	U (2)	6	40	U (1)	U (1)
UC7-2	4/19/2007	DIL	2600	340	U (40)	U (20)	U (20)	U (40)	U (20)	34	U (20)	U (20)
UC7-2	4/17/2008		2700	290	13	13	0.5 J	U (2)	8	48	U (1)	U (1)
UC7-2	4/17/2008	DIL	2700	290	13 J	13 J	U (20)	U (40)	U (20)	45	U (20)	U (20)
UC7-2	4/15/2009		1600	250	17	17	0.5 J	U (2)	6	38	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC7-2	7/22/2010		1700	440	15	14	0.7 J	U (2)	7	40	U (1)	U (1)
UC7-3	2/3/1987		7600	550				ND (10)	150	140	ND (10)	ND (10)
UC7-3	2/3/1987		1600	510				ND (10)	110	120	ND (10)	ND (10)
UC7-3	8/26/1987		6700	200				ND (25)	71	150	ND (10)	ND (10)
UC7-3	11/30/1987		13000	480				ND (25)	230	820	ND (10)	ND (10)
UC7-3	2/25/1991		16000	600	U (500)			U (1000)	U (500)	480 J	U (500)	U (500)
UC7-3	2/25/1991	CLP	11000	240 J	180 J			ND (1000)	ND (500)	430 J	ND (500)	ND (500)
UC7-3	2/25/1991	CLP	12000	270 J	370 J			ND (2500)	ND (1200)	450 J	ND (1200)	ND (1200)
UC7-3	4/21/1997		1400	51		28	U (20)	U (20)	11 B	54	3 J	U (10)
UC7-3	4/23/1998		1660 J	36 J		U (20)	UJ (20)	UJ (20)	UJ (10)	20 J	UJ (10)	UJ (10)
UC7-3	4/9/1999			37		U (2)	5	U (2)	5	28	U (1)	U (1)
UC7-3	4/9/1999	D	2000									
UC7-3	4/9/1999	DIL		45		U (40)	U (40)	U (40)	U (20)	33	U (20)	U (20)
UC7-3	4/9/1999	EX	1900 E									
UC7-3	4/27/2000			64		20	U (2)	U (2)	12	62	U (1)	U (1)
UC7-3	4/27/2000	D	2600									
UC7-3	4/27/2000	DIL		87		52	U (40)	U (40)	15 J	72	U (20)	U (20)
UC7-3	4/27/2000	EX	2400 E									
UC7-3	4/23/2001		3300	41		13	U (2)	U (2)	5	24	U (1)	U (1)
UC7-3	5/2/2002			130		64	U (2)	U (2)	17	65	U (1)	U (1)
UC7-3	5/2/2002	D	2000									
UC7-3	5/2/2002	DIL		190		48	U (40)	U (40)	U (20)	49	U (20)	U (20)
UC7-3	5/2/2002	DIL		160		46	U (20)	U (20)	20	61	U (10)	U (10)
UC7-3	5/2/2002	EX	2400 E									
UC7-3	5/2/2002	EX	2500 E									
UC7-3	5/1/2003	D	1500 J	120 J	U (100)	55	U (50)	U (100)	U (50)	U (50)	U (50)	U (50)
UC7-3	4/29/2004		1800	75	11	11	U (1)	U (2)	6	28	U (1)	U (1)
UC7-3	4/29/2004	DIL		80	42 J	42 J	U (50)	U (100)	U (50)	U (50)	U (50)	U (50)
UC7-3	4/29/2004	EX	3000 E									
UC7-3	4/28/2005		1800	110	71	71	0.5 J	U (2)	8	42	U (1)	U (1)
UC7-3	4/28/2005	DIL		50 J	U (100)	19 J	U (50)	U (100)	U (50)	31 J	U (50)	U (50)
UC7-3	4/28/2005	EX	2000 E									
UC7-3	5/4/2006		1700	120	65	65	U (2)	U (4)	6	39	U (2)	U (2)
UC7-3	4/19/2007		1300	200	60	59	0.6 J	U (2)	9	33	U (1)	U (1)
UC7-3	4/19/2007	DIL	1300	200	55	55	UJ (10)	U (20)	U (10)	30	U (10)	U (10)
UC7-3	4/17/2008		1500	190	46	45	0.5 J	U (2)	6	36	U (1)	U (1)
UC7-3	4/17/2008	DIL	1500	190	44	44	U (10)	U (20)	6 J	35	U (10)	U (10)
UC7-3	4/15/2009		1300	140	17	17	U (1)	U (2)	5	20	U (1)	U (1)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC7-3	7/22/2010		1900	440	63	62	0.4 J	U (2)	3	33	U (1)	U (1)
UC7-4	2/3/1987		820	21				ND (10)	ND (10)	110	ND (10)	ND (10)
UC7-4	2/3/1987		710	18				ND (10)	ND (10)	120	ND (10)	ND (10)
UC7-4	8/26/1987		3800	99				ND (5)	40	280	ND (2)	ND (2)
UC7-4	11/30/1987		9400	160				ND (5)	81	600	ND (2)	ND (2)
UC7-4	8/19/1993		1200	34	16	16	U	U	6 J	29	U	U
UC7-4	4/21/1997		1100	45		23	U (20)	U (20)	6 J	42	3 J	U (10)
UC7-4	4/23/1998		760	21		10 J	U (20)	U (20)	U (10)	U (10)	U (10)	U (10)
UC7-4	4/9/1999			42		U (2)	3	U (2)	3	24	U (1)	U (1)
UC7-4	4/9/1999	D	1300									
UC7-4	4/9/1999	DIL		46		U (20)	U (20)	U (20)	U (10)	28	U (10)	U (10)
UC7-4	4/9/1999	EX	1300 E									
UC7-4	4/27/2000			43		22	U (2)	U (2)	3	24	U (1)	U (1)
UC7-4	4/27/2000	D	1600									
UC7-4	4/27/2000	DIL		43		U (40)	U (40)	U (40)	U (20)	26	U (20)	U (20)
UC7-4	4/27/2000	DIL		58		16 J	U (20)	U (20)	6 J	37	U (10)	U (10)
UC7-4	4/27/2000	EX	2300 E									
UC7-4	4/27/2000	EX	1400 E									
UC7-4	4/23/2001		2200	35		13	U (2)	U (2)	3	23	U (1)	U (1)
UC7-4	5/2/2002			55		47	U (2)	U (2)	11	52	U (1)	U (1)
UC7-4	5/2/2002	D	1600									
UC7-4	5/2/2002	DIL		53		42	U (20)	U (20)	15	44	U (10)	U (10)
UC7-4	5/2/2002	EX	2000 E									
UC7-4	5/1/2003	D	1200 J	U (10)	20	20	U (10)	U (20)	U (10)	16 J	U (10)	U (10)
UC7-4	4/29/2004		1000	25	16	16	U (1)	U (2)	3	13	U (1)	U (1)
UC7-4	4/29/2004	DIL	850 BE	28	16 J	16	U (10)	U (20)	7 J	13	U (10)	U (10)
UC7-4	4/28/2005		1500	35	22	22	U (1)	U (2)	3	25	U (1)	U (1)
UC7-4	4/28/2005	DIL		30	23	23	U (10)	U (20)	U (10)	28	U (10)	U (10)
UC7-4	4/28/2005	EX	1700 E									
UC7-4	5/4/2006		1300	54	30	30	U (1)	U (2)	3	29	U (1)	U (1)
UC7-4	4/19/2007		1000	61	35	35	U (1)	U (2)	4	32	U (1)	U (1)
UC7-4	4/19/2007	DIL	1000	44	37 J	37	U (20)	U (40)	U (20)	24	U (20)	U (20)
UC7-4	4/17/2008		1200	61	25	25	U (1)	U (2)	3	29	U (1)	U (1)
UC7-4	4/17/2008	DIL	1200	48	18 J	18	U (10)	U (20)	U (10)	22	U (10)	U (10)
UC7-4	4/15/2009		980	47	16	16	U (1)	U (2)	2	14	U (1)	U (1)
UC7-4	7/22/2010		1100	73	17	17	U (1)	U (2)	1	17	U (1)	U (1)
UC7-5	2/3/1987		820	100				ND (10)	ND (10)	21	ND (10)	ND (10)
UC7-5	2/3/1987		250	ND (10)				ND (10)	ND (10)	ND (10)	ND (10)	ND (10)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC7-5	8/26/1987		95	4.1				ND (5)	ND (2)	3	ND (2)	ND (2)
UC7-5	11/30/1987		100	5.2				ND (10)	ND (4)	ND (4)	ND (4)	ND (4)
UC7-5	4/21/1997		380	36		32	U (4)	U (4)	2 J	10	U (2)	U (2)
UC7-5	4/23/1998		110 J	8 J		28	UJ (4)	UJ (4)	UJ (2)	UJ (2)	UJ (2)	UJ (2)
UC7-5	4/9/1999			23		U (2)	U (2)	U (2)	U (1)	1	U (1)	U (1)
UC7-5	4/9/1999	D	210									
UC7-5	4/9/1999	DIL		22		U (4)	U (4)	U (4)	U (2)	U (2)	U (2)	U (2)
UC7-5	4/9/1999	EX	220 E									
UC7-5	4/27/2000			32		120	U (2)	U (2)	1	6	U (1)	U (1)
UC7-5	4/27/2000	D	190									
UC7-5	4/27/2000	DIL		12		74	U (10)	U (10)	U (5)	U (5)	U (5)	U (5)
UC7-5	4/27/2000	EX	520 E									
UC7-5	4/23/2001		610	30		130	U (2)	U (2)	1	5	U (1)	U (1)
UC7-5	4/28/2005		670	14 J	77	77	U (1)	1 J	0.8 J	2 J	UJ (1)	UJ (1)
UC7-5	4/28/2005	DIL		31	83	83	U (5)	U (10)	U (5)	7	U (5)	U (5)
UC7-5	4/28/2005	EX	490 E									
UC7-5	4/19/2007		490	24	30	30	U (1)	U (2)	U (1)	5	U (1)	U (1)
UC7-5	4/19/2007	DIL	490	21	24	24	U (10)	U (20)	U (10)	U (10)	U (10)	U (10)
UC7-5	4/17/2008		490 EJ	28	25	25	U (1)	U (2)	0.8 J	7	U (1)	U (1)
UC7-5	4/15/2009		320	23	26	26	U (1)	U (2)	0.7 J	4	U (1)	U (1)
UC7A-1	12/8/1986		9682	74						197		
UC7A-1	2/3/1987		13000	110				ND (10)	18	400	ND (10)	ND (10)
UC7A-1	2/3/1987		270	ND (10)				ND (10)	ND (10)	42	ND (10)	ND (10)
UC7A-2	12/8/1986		10498	72						202		
UC7A-2	12/8/1986		10892	73						221		
UC7A-2	2/3/1987		410	ND (10)				ND (10)	ND (10)	130	ND (10)	ND (10)
UC7A-2	2/3/1987		18000	240				ND (10)	110	1600	ND (10)	ND (10)
UC7A-3	2/4/1987		13000	560				ND (10)	160	170	ND (10)	ND (10)
UC7A-3	2/4/1987		260	25				ND (10)	11	36	ND (10)	ND (10)
UC7A-4	2/4/1987		150	17				ND (10)	ND (10)	50	ND (10)	ND (10)
UC7A-4	2/4/1987		1500	35				ND (10)	ND (10)	120	ND (10)	ND (10)
UC7A-5	2/4/1987		99	ND (10)				ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC7A-5	2/4/1987		160	ND (10)				ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UC8	11/2/1987		19000000	ND (200000)				ND (500000)	ND (200000)	ND (200000)	ND (200000)	ND (200000)
UC8	1/19/1988		10000	800				ND (100)	ND (40)	58	ND (40)	ND (40)
UC8	1/19/1988		840000	63000				ND (50000)	ND (20000)	ND (20000)	ND (20000)	ND (20000)
UC8	1/19/1988		120000	920				ND (500)	ND (200)	ND (200)	ND (200)	ND (200)
UC8	1/19/1988		260000	1600				ND (2500)	ND (1000)	ND (1000)	ND (1000)	ND (1000)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UC8	1/19/1988		280000	2000				ND (5000)	ND (2000)	ND (2000)	ND (2000)	ND (2000)
UC8	1/19/1988		140000	1200				ND (2500)	ND (1000)	ND (1000)	ND (1000)	ND (1000)
UC8	8/12/1993		100000	6700	15030	15000	30 J	2400 J	23 J	38 J	UJ	UJ
UC8	7/30/2010		87000	510		670	32 J	U (100)	U (100)	U (100)	U (100)	U (100)
UC9-1	6/15/1987		7	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC9-1	8/27/1987		110	4				ND (5)	ND (2)	5	ND (2)	ND (2)
UC9-2	6/15/1987		520	29	ND (25)			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
UC9-2	8/26/1987		300	14				ND (25)	ND (10)	ND (10)	ND (10)	ND (10)
UC9-2	12/1/1987		280	24				ND (5)	ND (2)	2.2	ND (2)	ND (2)
UC9-2	12/1/1987	DUP	280	34				ND (5)	ND (2)	2.5	ND (2)	ND (2)
UC9-3	6/15/1987		40	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC9-3	8/26/1987		490	ND (10)				ND (25)	ND (10)	15	ND (10)	ND (10)
UC9-3	12/1/1987		820	19				ND (5)	ND (2)	53	ND (2)	ND (2)
UC9-4	6/15/1987		2500	ND (250)	ND (250)			ND (500)	ND (250)	ND (250)	ND (250)	ND (250)
UC9-4	8/26/1987		1300	ND (20)				ND (50)	ND (20)	60	ND (20)	ND (20)
UC9-4	12/1/1987		1000	14				ND (5)	ND (2)	48	ND (2)	ND (2)
UC9-6	6/15/1987		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UC9-6	8/26/1987		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC9-6	8/26/1987	DUP	ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UC9-6	12/1/1987		ND (2)	ND (2)				ND (5)	ND (2)	ND (2)	ND (2)	ND (2)
UG1-2	4/10/1991		R	88	22			U (10)	U (5)	U (5)	U (5)	U (5)
UG1-2	4/10/1991	DIL	390	81	20 J			U (50)	U (25)	U (25)	U (25)	U (25)
UG1-2	4/12/1991		390 D	88	22			U (10)	U (5)	U (5)	U (5)	
UG1-2	4/29/1991		R	120	25			U (10)	U (5)	UJ (5)	U (5)	U (5)
UG1-2	4/29/1991	RE	480	110	U (25)			U (50)	U (25)	UJ (25)	U (25)	U (25)
UG1-2	5/15/1991		U (12)	120	260			110	U (12)	U (12)	U (12)	U (12)
UG1-2	5/29/1991		170	59	29			U (10)	U (5)	U (5)	U (5)	U (5)
UG1-2	5/29/1991	CLP	87	30	X (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-2	5/29/1991	DUP	140	50	28			U (10)	U (5)	U (5)	U (5)	U (5)
UG1-2	12/22/1992		U	U	U			U	U	U	U	U
UG1-2	3/29/1993		5	18	5.7	5	0.7	U	U	U	U	U
UG1-2	5/13/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-2	8/10/1993		6	13	10	9	1	U	U	U	0.6	U
UG1-2	11/11/1993		7	13	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-2	3/23/1994		7 J	24	26			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-2	5/11/1994		7 J	11	14			U (10)	U (10)	U (10)	1 J	U (10)
UG1-2	8/10/1994		5 J	15	24			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-2	11/8/1994		9.3	35	33			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UG1-2	2/15/1995		7.9	22	29			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-2	5/10/1995		11	36	45 Y			ND (10)	ND (10)	ND (10)	1 J	ND (10)
UG1-2	8/8/1995		6 J	21	24			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-2	11/7/1995		8 J	25	26 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-2	2/6/1996		7 J	28	23 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-2	5/7/1996		4 J	25	35			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	4/10/1991		410	30	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
UG1-3	4/10/1991	COL	500	38	12 J			U (50)	U (25)	U (25)	U (25)	U (25)
UG1-3	4/10/1991	DUP	510	35	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
UG1-3	12/22/1992		U	U	U			U	U	U	U	U
UG1-3	3/29/1993		6	9	3.7	3	0.7	U	U	U	0.3 J	U
UG1-3	5/13/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-3	8/10/1993		6	10	2	2	U	U	U	U	U	U
UG1-3	11/9/1993		9	17	7.4			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-3	3/22/1994		7 J	18	7 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	3/22/1994	DIL	U	19 DJ	U			U	U	U	U	U
UG1-3	5/11/1994		7 J	11	7 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	5/11/1994	DIL	6 DJ	11 DJ	8 DJ			U (50)	U (50)	U (50)	U (50)	U (50)
UG1-3	8/10/1994		3 J	7 J	16			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	11/11/1994		7.1 J	14	14			U (5)	U (5)	U (5)	U (5)	
UG1-3	11/14/1994		7.1 J	14	14			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-3	2/14/1995		ND (5)	49	31			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-3	5/9/1995		ND (10)	27	18 Y			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-3	8/8/1995		ND (10)	27	19			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-3	11/7/1995		U (10)	42	30 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	2/6/1996		2 J	44	27 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	5/7/1996		1 J	38	28			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-3	5/9/1996		U (10)	27	18			U (10)	U (10)	U (10)	U (10)	
UG1-4	4/10/1991		650	63	11 J			U (50)	U (25)	U (25)	U (25)	U (25)
UG1-4	12/22/1992		U	U	U			U	U	U	U	U
UG1-4	3/29/1993		14	16	8 J			U	U	U	U	U
UG1-4	3/29/1993	524	11	15	7	7	U	U	U	U	U	U
UG1-4	5/13/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-4	8/11/1993		5	11	6.3	6	0.3 J	U	U	U	U	U
UG1-4	11/10/1993		13	20	7.3			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-4	3/22/1994		14	45	18			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-4	5/11/1994		7 J	12	7 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-4	8/10/1994		6 J	12	13			U (10)	U (10)	U (10)	U (10)	U (10)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UG1-4	11/8/1994		9.2	28	17			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-4	2/14/1995		5.7	16	11			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-4	5/9/1995		7 J	22	19 Y			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-4	8/8/1995		6 J	21	18			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-4	11/7/1995		5 J	21	18 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-4	2/6/1996		6 J	28	24 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-4	5/7/1996		U (100)	21 J	13 J			U (100)	U (100)	U (100)	U (100)	U (100)
UG1-4	4/22/1997		4	26		30	4	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/22/1998		1	11		26	2	U (2)	U (1)	U (1)	U (1)	
UG1-4	4/23/1998											U (1)
UG1-4	4/8/1999		0.6 J	18		2	U (2)	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/28/2000		2	29		140	17	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/27/2001		0.5 J	2		93	2	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	5/3/2002		U (1)	4		160	5	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/30/2003		U (1)	0.6 U	84	83	U (1)	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/29/2004		U (1)	1	47	46	1	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/28/2005		UJ (1)	2	110	110	3	U (2)	U (1)	UJ (1)	UJ (1)	UJ (1)
UG1-4	5/4/2006		U (1)	2	170	160	3	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/19/2007		U (1)	4	160	160	4	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/17/2008		U (1)	1 J	160	160	3	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	4/16/2009		U (1)	U (1)	50	49	0.8 J	U (2)	U (1)	U (1)	U (1)	U (1)
UG1-4	7/23/2010		U (1)	U (1)	20	20	0.5 J	U (2)	U (1)	UJ (1)	U (1)	UJ (1)
UG1-5	4/10/1991		R	65	15			U (10)	U (5)	9	U (5)	U (5)
UG1-5	4/10/1991	DIL	1100	48 J	U (50)			U (100)	U (50)	U (50)	U (50)	U (50)
UG1-5	4/12/1991		R	65	15			U (10)	U (5)	9	U (5)	
UG1-5	12/22/1992		U	U	U			U	U	U	U	U
UG1-5	3/29/1993		13	6	4	4	U	U	U	U	U	U
UG1-5	5/13/1993		ND (5)	ND (5)	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-5	8/11/1993		10	4	3	3	U	U	U	U	U	U
UG1-5	11/10/1993		ND (250)	ND (250)	ND (250)			ND (500)	ND (250)	ND (250)	ND (250)	ND (250)
UG1-5	3/23/1994		12 J	5 J	3 J			U (20)	U (20)	U (20)	U (20)	U (20)
UG1-5	3/23/1994	DIL	U	U	U			U	U	U	U	U
UG1-5	3/24/1994		U (20)		U (20)		3 J	U (20)	78	U (20)	U (20)	
UG1-6	4/10/1991		R	55	12			U (10)	U (5)	7	U (5)	U (5)
UG1-6	4/10/1991	DIL	1200	50 J	10 J			U (100)	U (50)	U (50)	U (50)	U (50)
UG1-6	5/15/1991		1700	69	U (62)			U (120)	U (62)	U (62)	U (62)	U (62)
UG1-6	5/15/1991	COL	1900	81	U (62)			U (120)	U (62)	U (62)	U (62)	U (62)
UG1-6	5/15/1991	DUP	1800	76	U (62)			U (120)	U (62)	U (62)	U (62)	U (62)

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UG1-6	5/29/1991		11	U (5)	U (5)			U (10)	U (5)	U (5)	U (5)	U (5)
UG1-6	9/18/1992		820	55	16 J			U	U	U	U	U
UG1-6	9/18/1992	DIL	940 D	67 D	18 JD			U	U	U	U	U
UG1-6	12/22/1992		U	U	U			U	U	U	U	U
UG1-6	3/30/1993		89	39	12	12	U	U	0.8 J	1	U	U
UG1-6	5/12/1993		150	40	13			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-6	8/11/1993		58	21	9	9	U	U	0.4 J	0.4 J	0.3 J	U
UG1-6	11/10/1993		130	29	10			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-6	3/23/1994		35	18	9 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-6	5/11/1994		27	11	6 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-6	8/11/1994		15	6 J	3 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-6	11/11/1994		22	12	6.3			U (5)	U (5)	U (5)	U (5)	
UG1-6	11/14/1994		22	12	6.3			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-7	4/10/1991		R	12	U (5)			U (10)	U (5)	9	U (5)	U (5)
UG1-7	4/10/1991	DIL	770	10 J	U (25)			U (50)	U (25)	U (25)	U (25)	U (25)
UG1-7	12/22/1992		U	U	U			U	U	U	U	U
UG1-7	3/30/1993		20	3	0.9 J	0.9 J	U	U	U	U	U	U
UG1-7	5/13/1993		ND (25)	ND (25)	ND (25)			ND (50)	ND (25)	ND (25)	ND (25)	ND (25)
UG1-7	8/13/1993		8	2	1	1	U	U	U	U	U	U
UG1-7	11/11/1993		7.2	5.9	ND (5)			ND (10)	ND (5)	ND (5)	ND (5)	ND (5)
UG1-7	3/23/1994		24	6 J	2 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-7	3/23/1994	DIL	18 DJ	U	U			U	U	U	U	U
UG1-7	5/11/1994		16	6 J	2 J			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-7	5/11/1994	DIL	37 DJ	8 DJ	U (50)			U (50)	U (50)	U (50)	U (50)	U (50)
UG1-7	8/11/1994		5 J	2 J	U (10)			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-7	11/14/1994		8.4 J	9 J	ND (17)			ND (33)	ND (17)	ND (17)	ND (17)	ND (17)
UG1-7	2/14/1995		ND (10)	17	5.2 J			ND (20)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-7	5/9/1995	DIL	2 J	14 J	ND (20)			ND (20)	ND (20)	ND (20)	ND (20)	ND (20)
UG1-7	8/8/1995		ND (10)	8 J	11			ND (10)	ND (10)	ND (10)	ND (10)	ND (10)
UG1-7	11/7/1995		1 J	9 J	18 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-7	2/6/1996		2 J	16	54 Y			U (10)	U (10)	U (10)	U (10)	U (10)
UG1-7	5/7/1996		2 J	15	64			U (10)	U (10)	U (10)	U (10)	U (10)
UG2-1	8/27/1991		2	7	13			U	U	0.7 J	U	U
UG2-2	8/27/1991		0.6 J	4	10			U	U	0.3 J	U	U
UG2-3	8/26/1991		5	9	12			U	U	1	2	U
UG2-4	8/26/1991		0.3 J	U	U			U	U	U	U	U
UG4-1	8/23/1991		17	12	7			U	U	0.8 J	U	U
UG4-2	8/22/1991		22	29	19			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5
UG4-3	8/22/1991		14	11	9			U	U	U	U	U
UG4-4	8/22/1991		6	3	4			U	U	U	0.2 J	U
UG4-4	8/22/1991	DUP	10	3	4			U	U	U	0.2 J	U
UG4-5	8/23/1991		0.8 J	0.5 J	2			U	U	U	U	U
UG4-5	8/23/1991	DIL	3 JD	U	2 JD			U	U	U	U	U
UG5	3/3/1993		U	41	24			1 J	4 J	U	U	U
UG6	3/3/1993		U	U	U			U	U	U	U	U
UG7S	3/3/1993		U	U	U			U	U	U	U	U
UG7S	3/3/1993	DUP	U	U	U			U	U	U	U	U
UG7D	3/3/1993		U	U	U			U	U	U	U	U
UG8	8/4/2010		U (0.16)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.098 J	U (1)
UG8	8/4/2010	DUP	U (0.14)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.098	U (1)
UG9	8/3/2010		6.9	U (1)		0.029 J	U (1)	U (0.05)	U (1)	U (1)	0.065 J	U (1)
UG10	8/3/2010		9.3	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.026 J	U (1)
UG11	8/2/2010		2 J	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	3	U (1)
UG12	8/3/2010		0.038 J	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.31	U (1)
UG13	8/4/2010		U (0.05)	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.53 J	U (1)
UG15	8/2/2010		5	U (1)		0.04 J	U (1)	U (0.05)	U (1)	U (1)	3	U (1)
UG16	8/2/2010		0.09	1		0.1	U (1)	U (0.05)	U (1)	U (1)	0.08	U (1)
UG17	8/3/2010		78 J	0.7 J		0.6 J	U (1)	U (1)	U (1)	U (1)	U (1)	U (1)
UG18	8/2/2010		0.1	U (1)		U (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.2	U (1)
UG20	8/2/2010		2 J	U (1)		UJ (0.05)	U (1)	U (0.05)	U (1)	U (1)	0.1 J	U (1)
WB1M	9/1/1993		1.2 J	1.1 J	3.7			U	U	U	U	U
WB1SS	9/1/1993		1.8 J	3	1.7 J			U	U	U	U	U

WELL	DATE	MODIFIER	PCE	TCE	1,2-DCE (total)	Cis-1,2-DCE	Trans-1,2-DCE	Vinyl chloride	1,1-DCE	1,1,1-TCA	Chloroform	1,2-DCA
ROD Cleanup Goals			5	5	70**	70**	70**	2	7	NA***	100	5

1,1-DCE = 1,1-Dichloroethene

1,1,1-TCA = 1,1,1-Trichloroethane

1,2-DCE = 1,2-Dichloroethene

PCE = Tetrachloroethene

TCE = Trichloroethene

1,2-DCA = 1,2-Dichloroethane

** = 70 ug/L ROD cleanup goal is for trans-1,2-DCE; historically all 1,2-DCE was reported as trans-1,2-DCE.

*** = TCA is not a ROD specified contaminant of concern for the Grace property, and therefore no discharge limit has been determined. The EPA drinking water standard is 200 ug/L.

Modifiers

21d = Diffusion bag sample. Sample left in well for 21 days.

42d = Diffusion bag sample. Sample left in well for 42 days.

525 = 524.2 method of analysis

CLD = Contract Laboratory Program and duplicate analysis.

CLP = Contract Laboratory Program analysis

COL = Co-located sample

DIL = Diluted sample

DU5 = Duplicate and 524.2 method of analysis

DUP = Sample duplicate

EX = Exceeds calibration limits

L1, L2, or L3 indicates placement of diffusion bag within screened interval, lowest elevation in screen to highest elevation, respectively.
L1D=duplicate sample at L1
L2D=duplicate sample at L2

RE = Laboratory Reanalysis.

V1, V2 = Laboratory Reanalysis on vial 1 or vial 2

Qualifiers

< (1) = Not detected at limit indicated in parentheses, if known

B = Detected in blank

BMDL (1) = Below method detection limit; limit indicated in parentheses, if known

BMQL (1) = Below method quatification limit; limit indicated in parentheses, if know

D = Identified in an analysis at a secondary dilution factor

E = Exceeds calibration range

J = Estimated value, detected below contract required quantitation limit

K = Actual value is less than value reported

ND (1) = Not detected at limit indicated in parentheses, if known

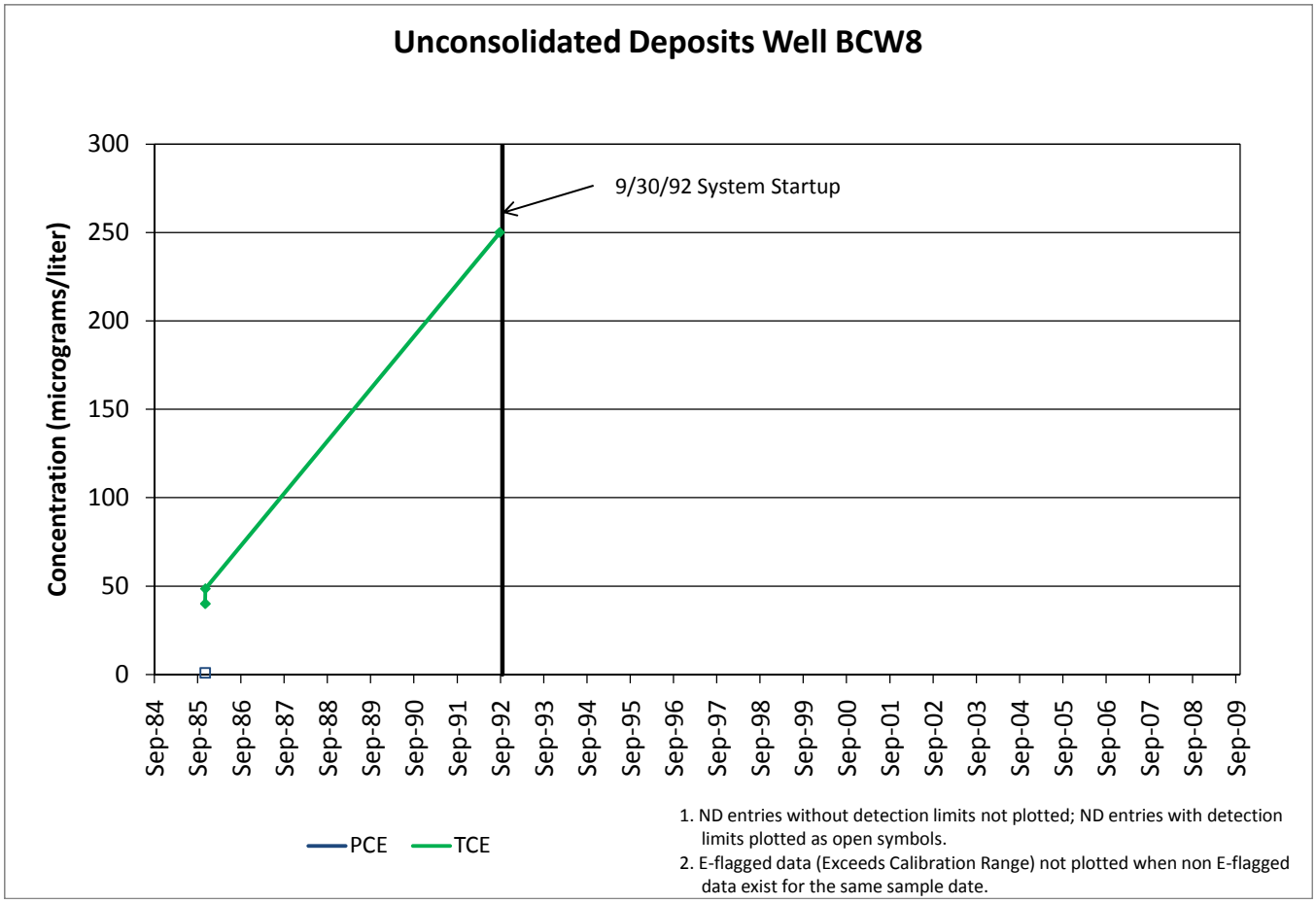
R = Rejected by validation

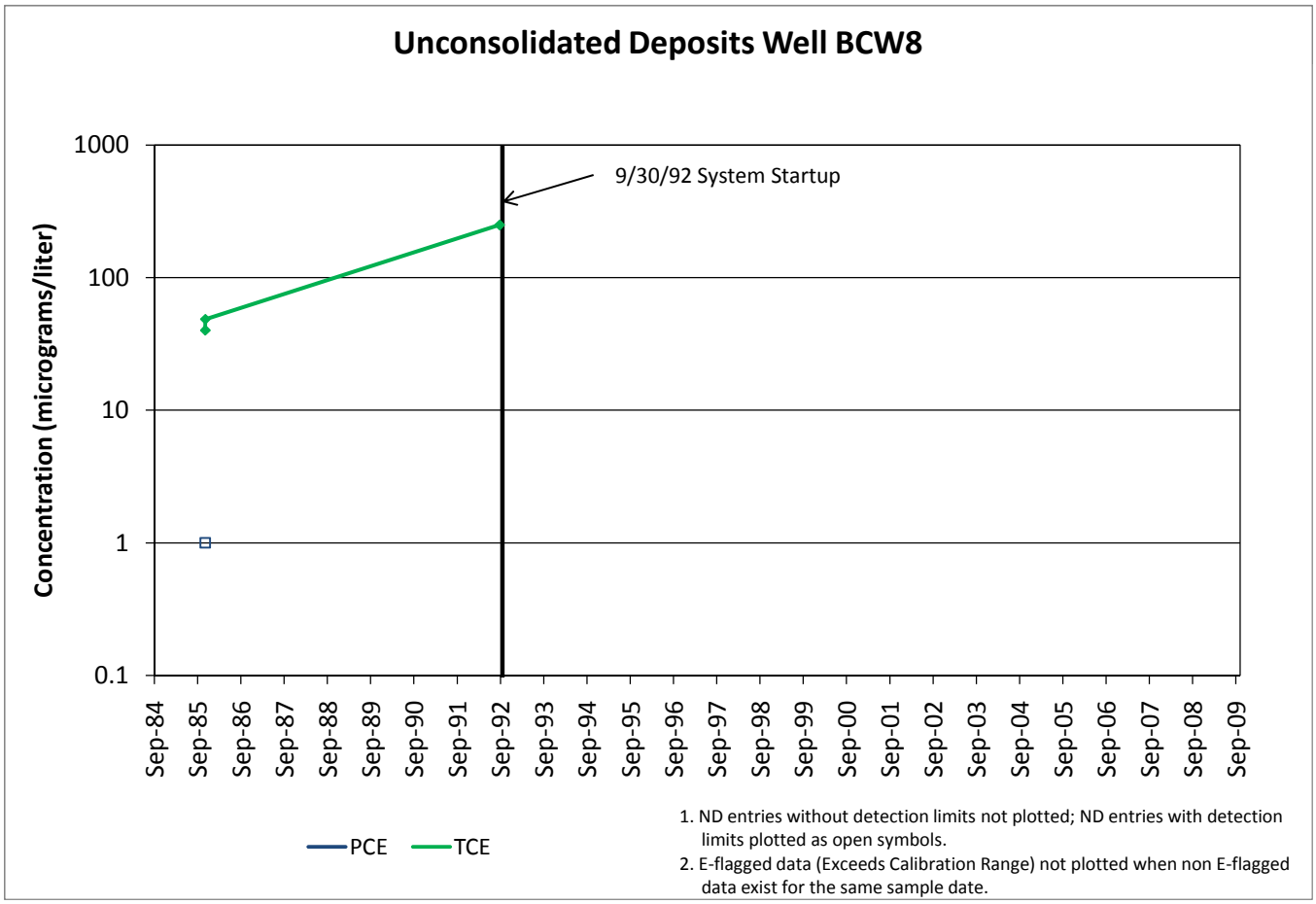
TR = Trace

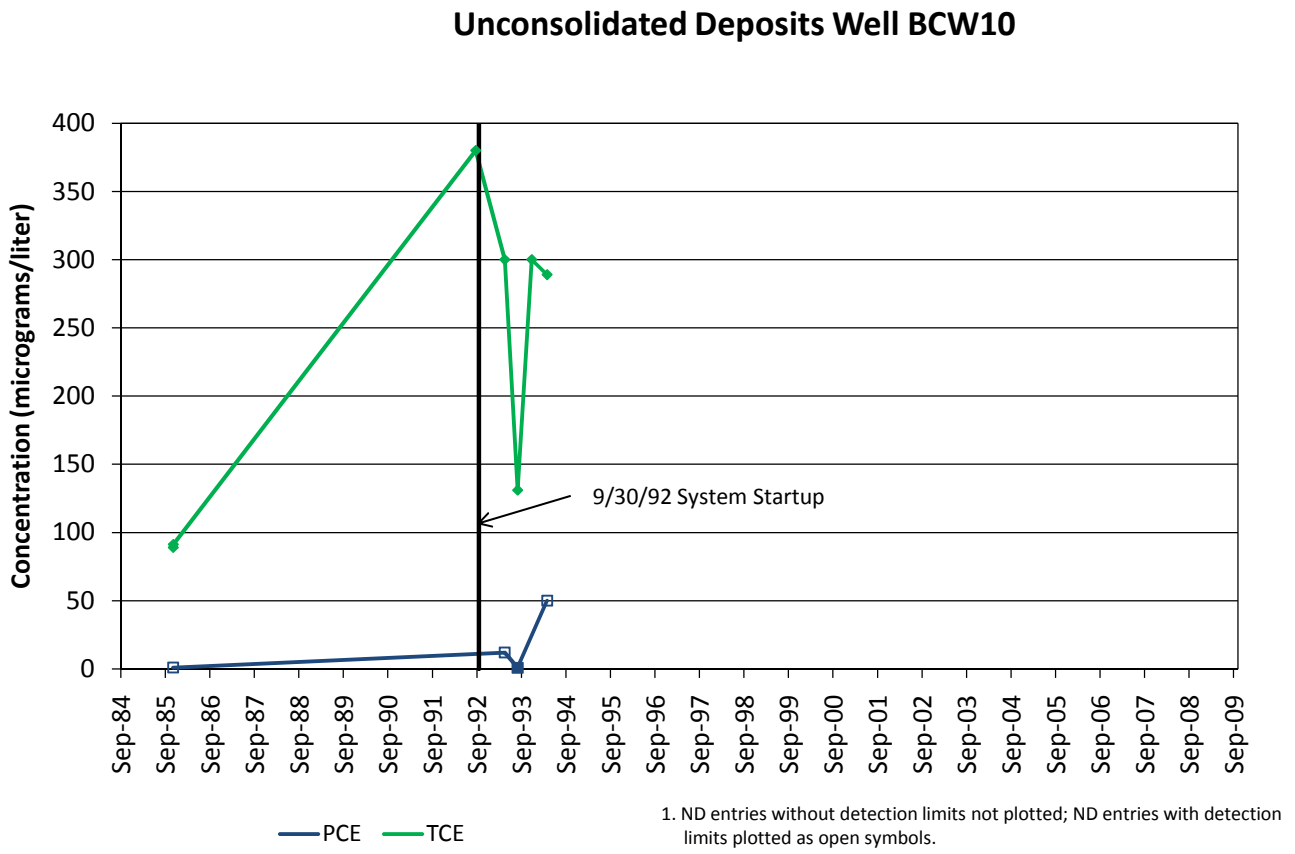
U (1) = Not detected at limit indicated in parentheses, if known

X = No explanation provided from laboratory

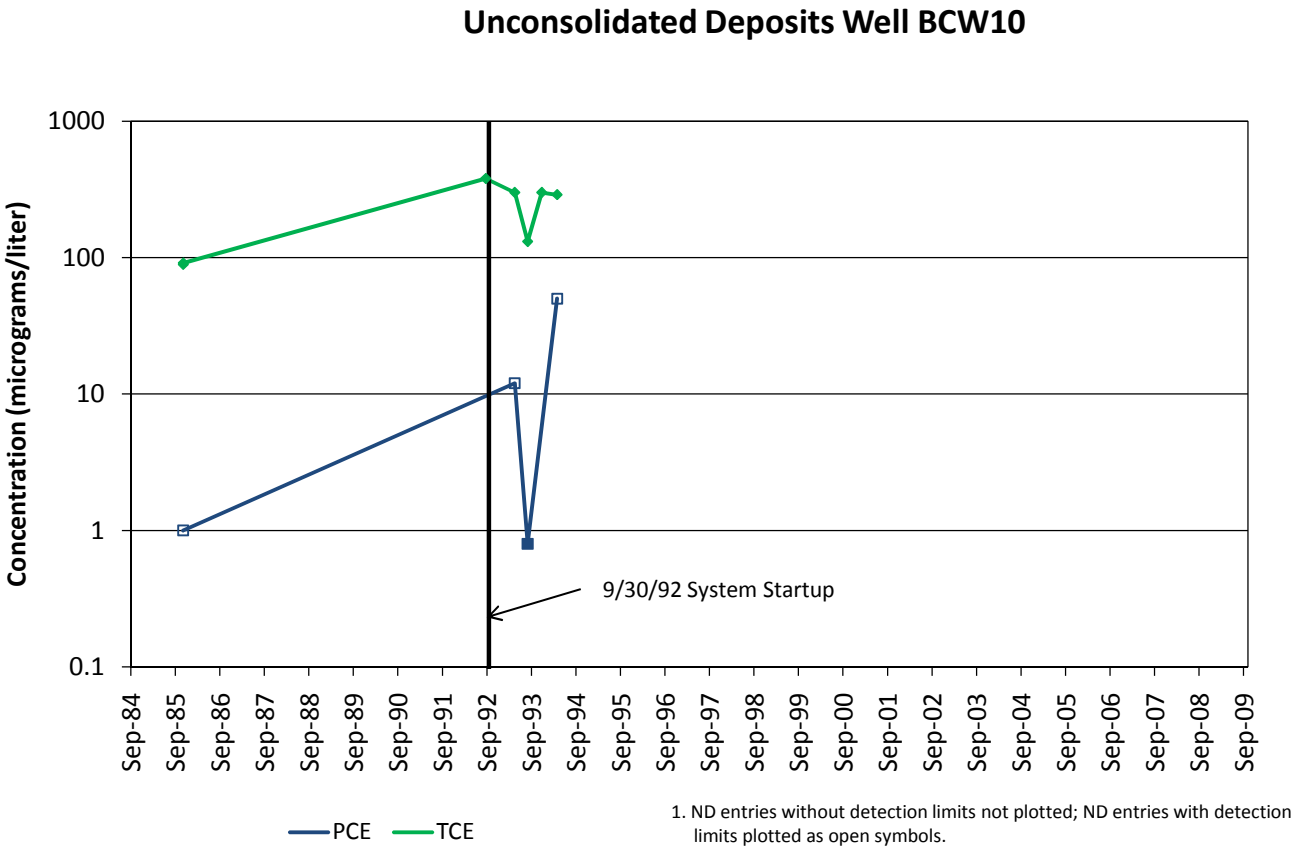
Y = More than 1 isomer present, manual integration performed


Unconsolidated Deposits Well BCW8
Concentration (micrograms/liter)
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

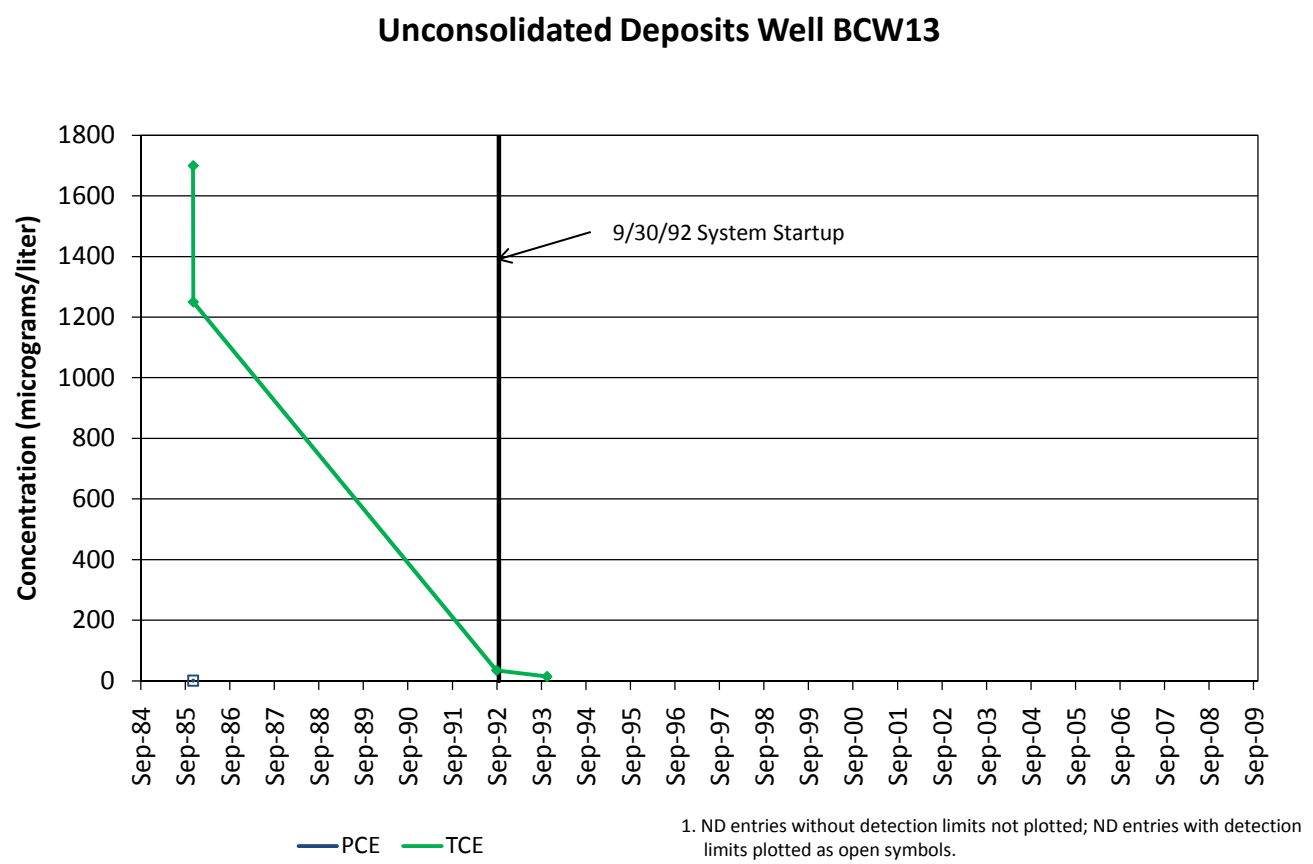

Unconsolidated Deposits Well BCW8
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



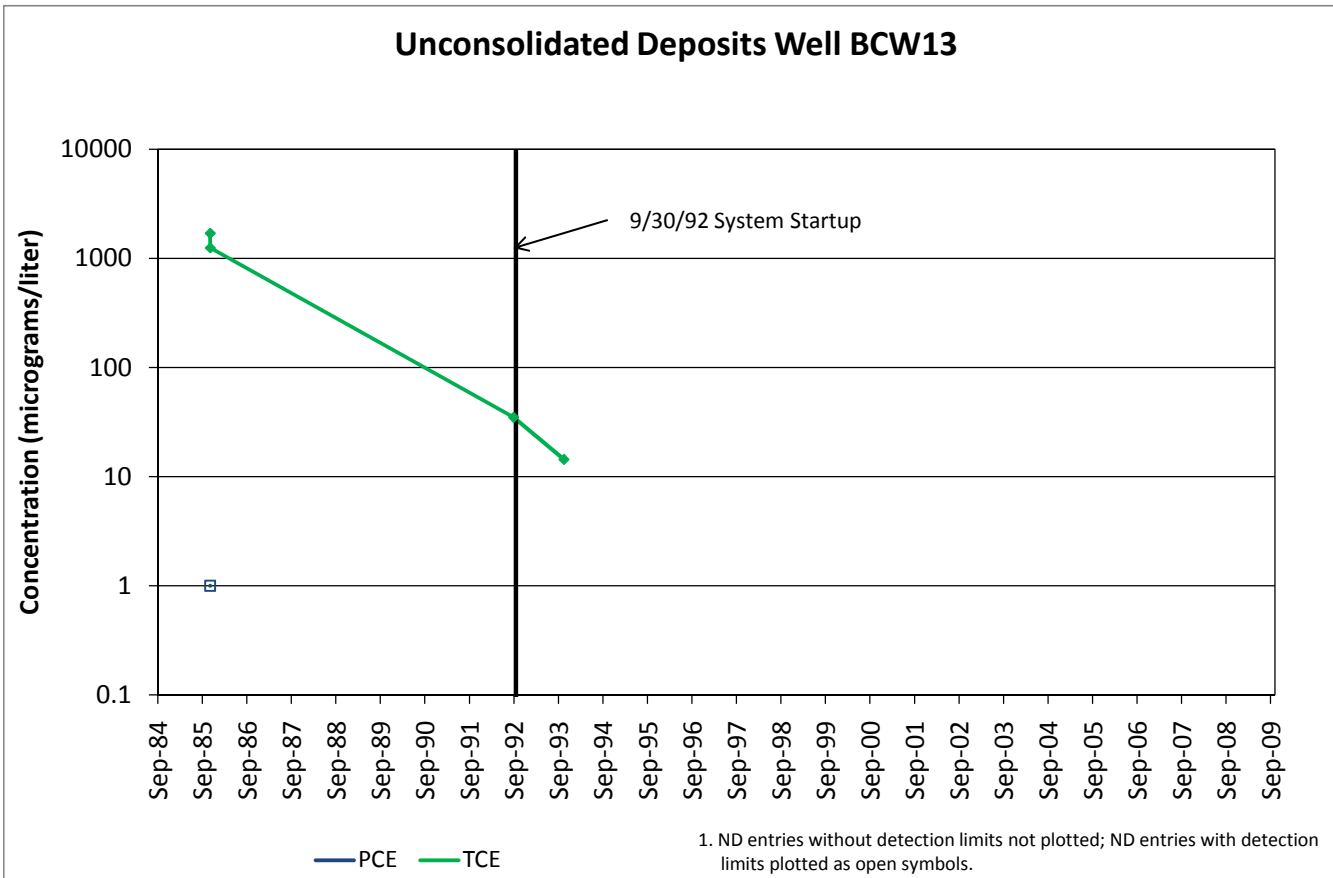
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



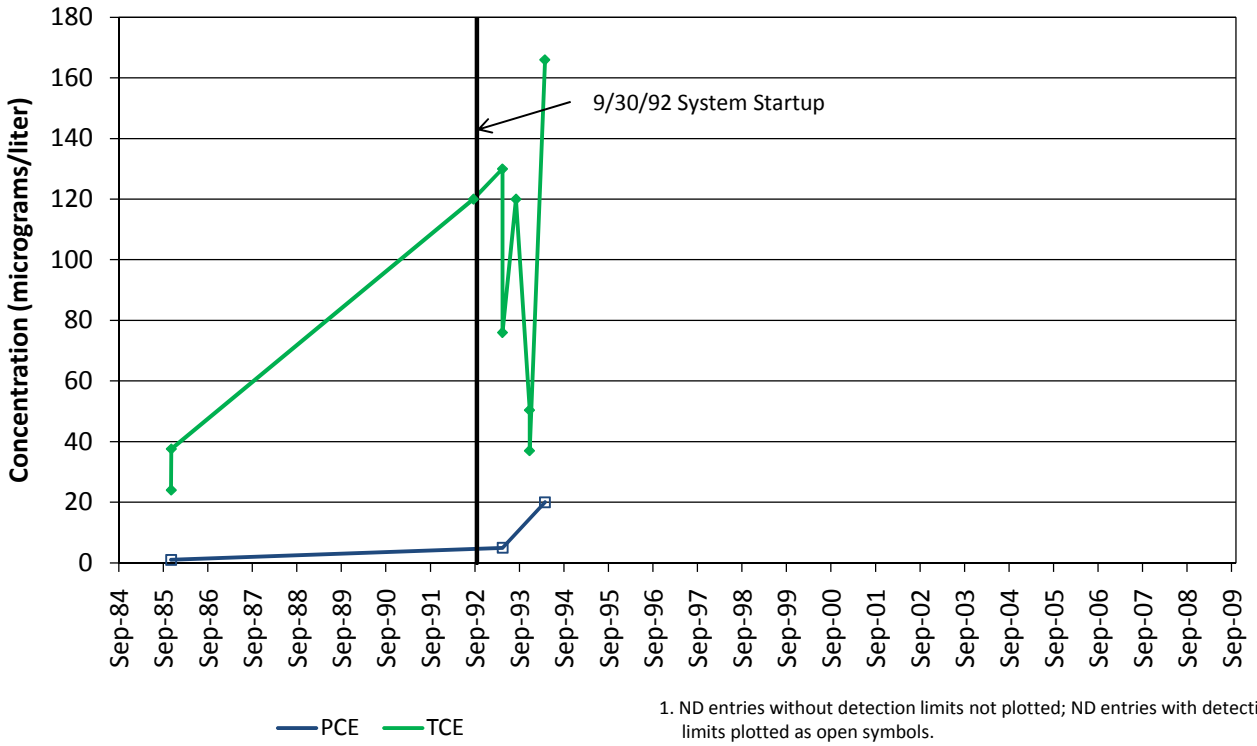
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



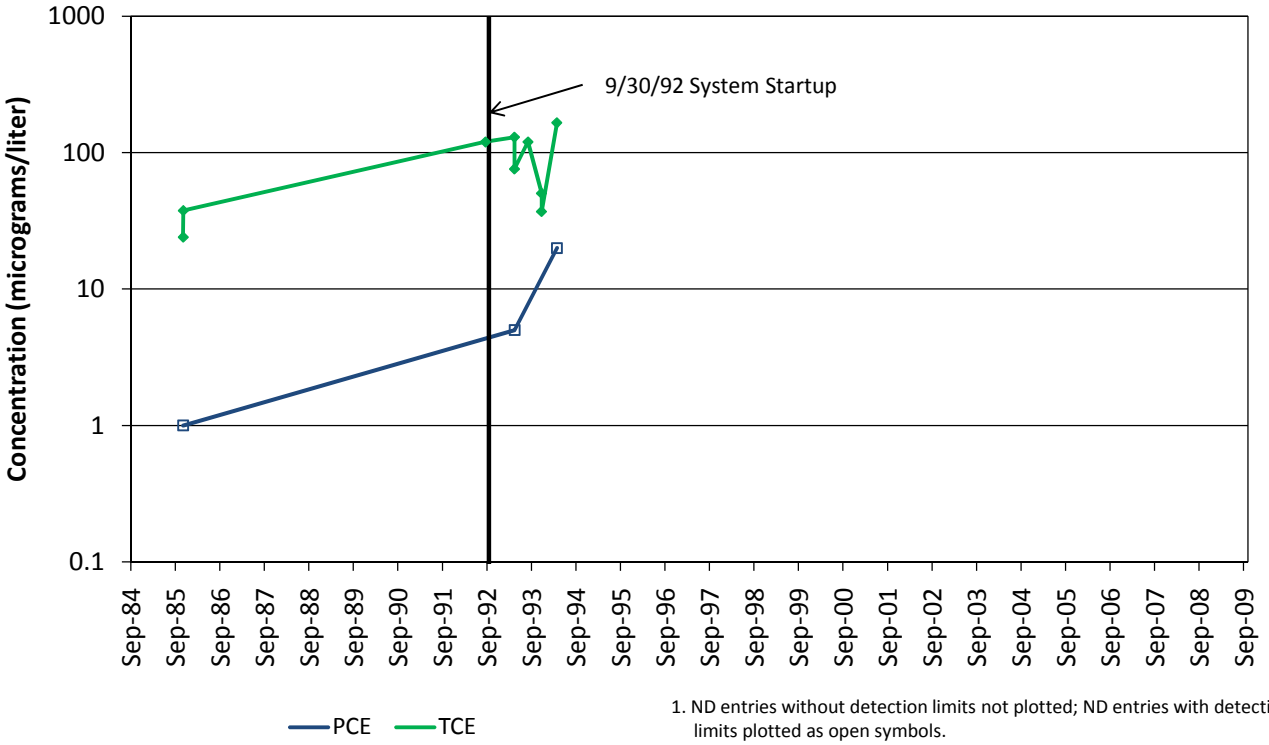
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



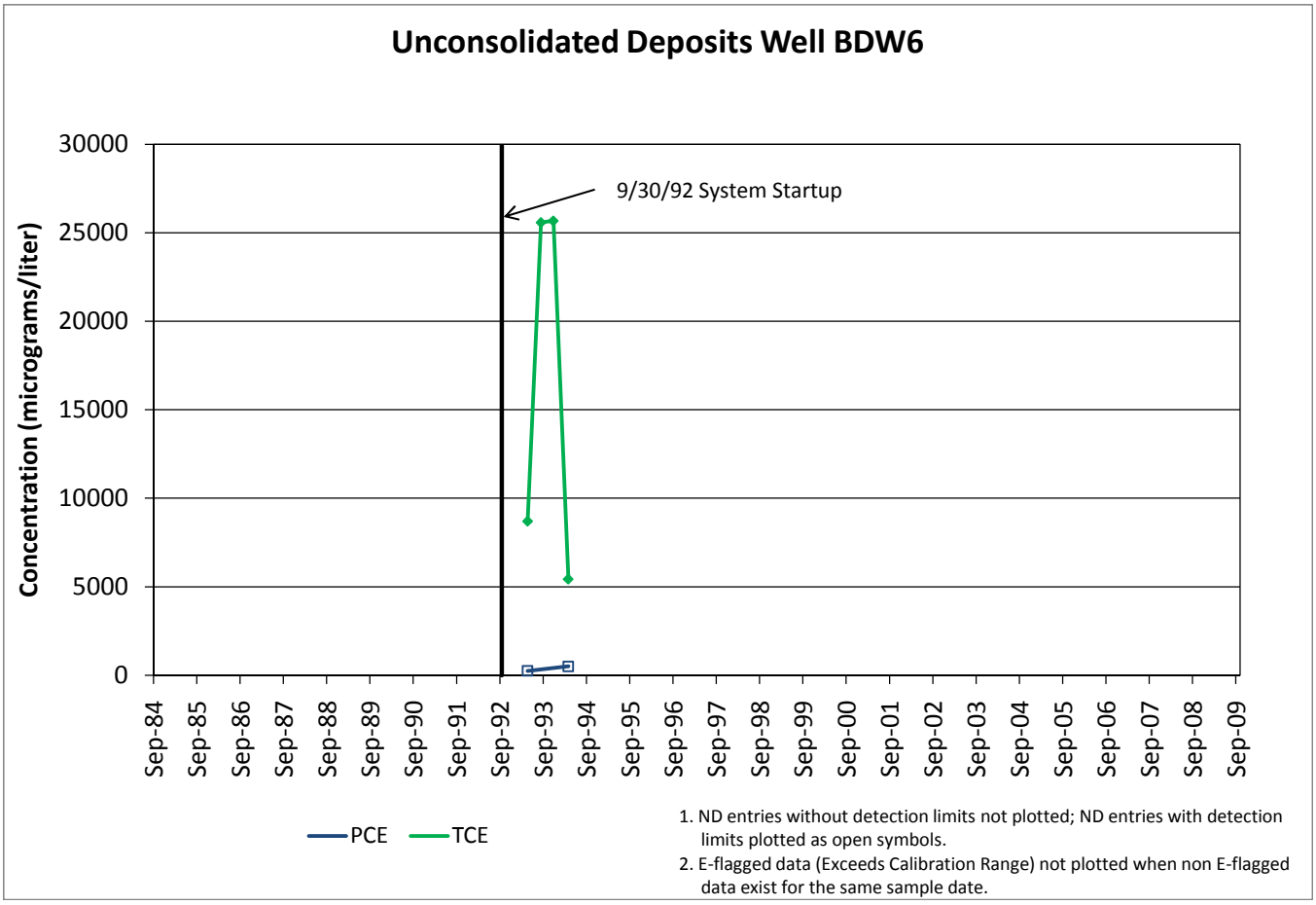
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

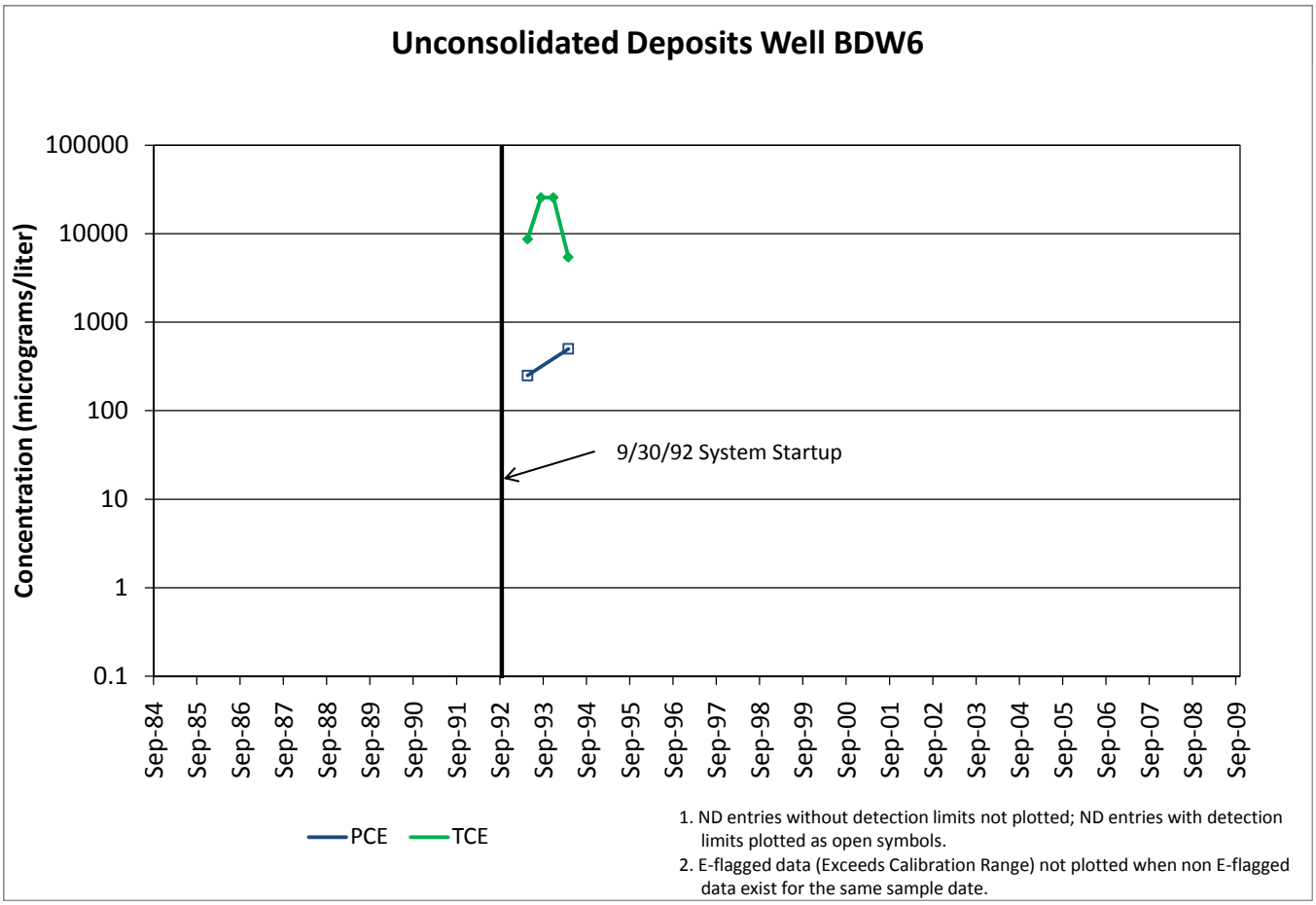


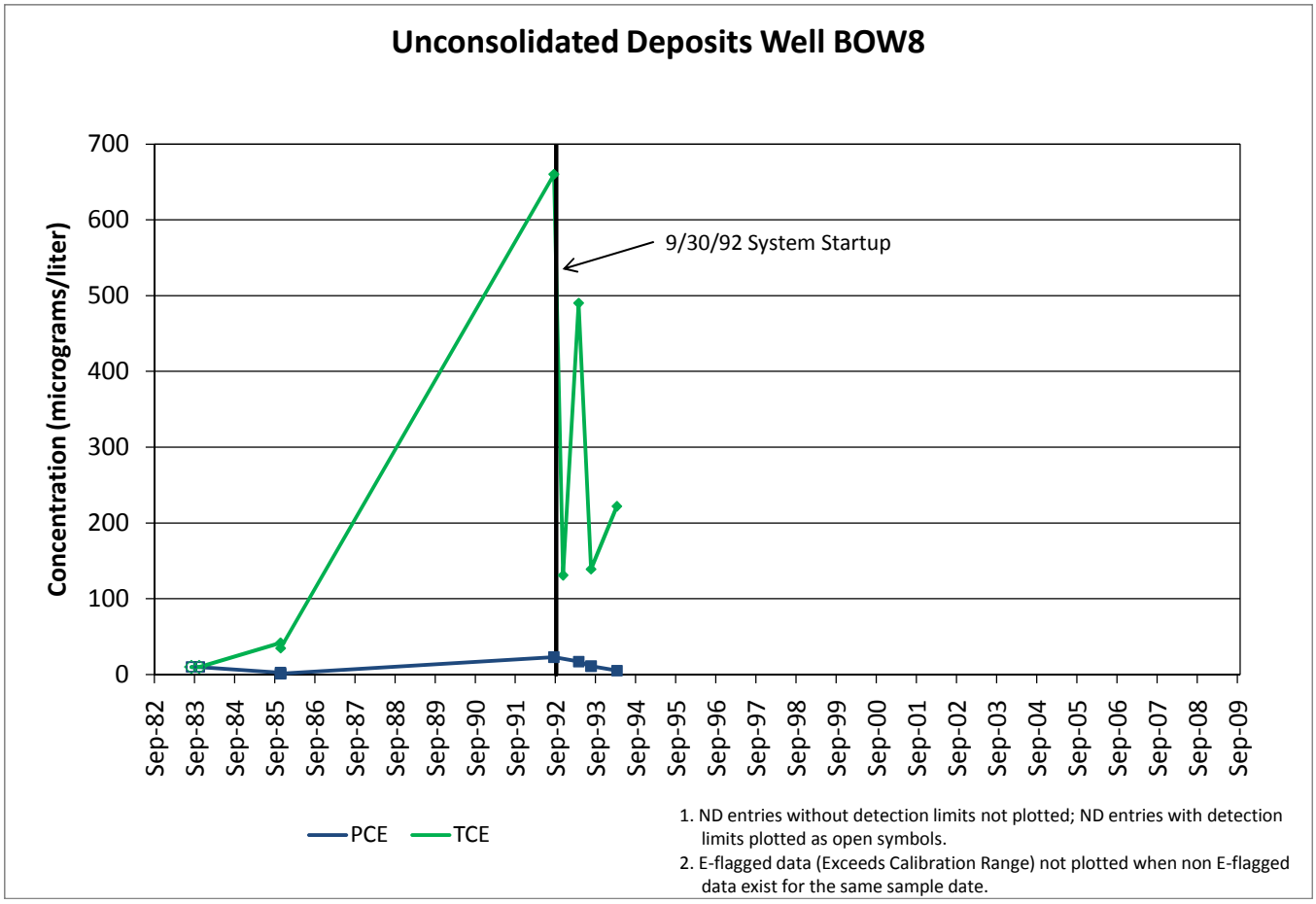
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

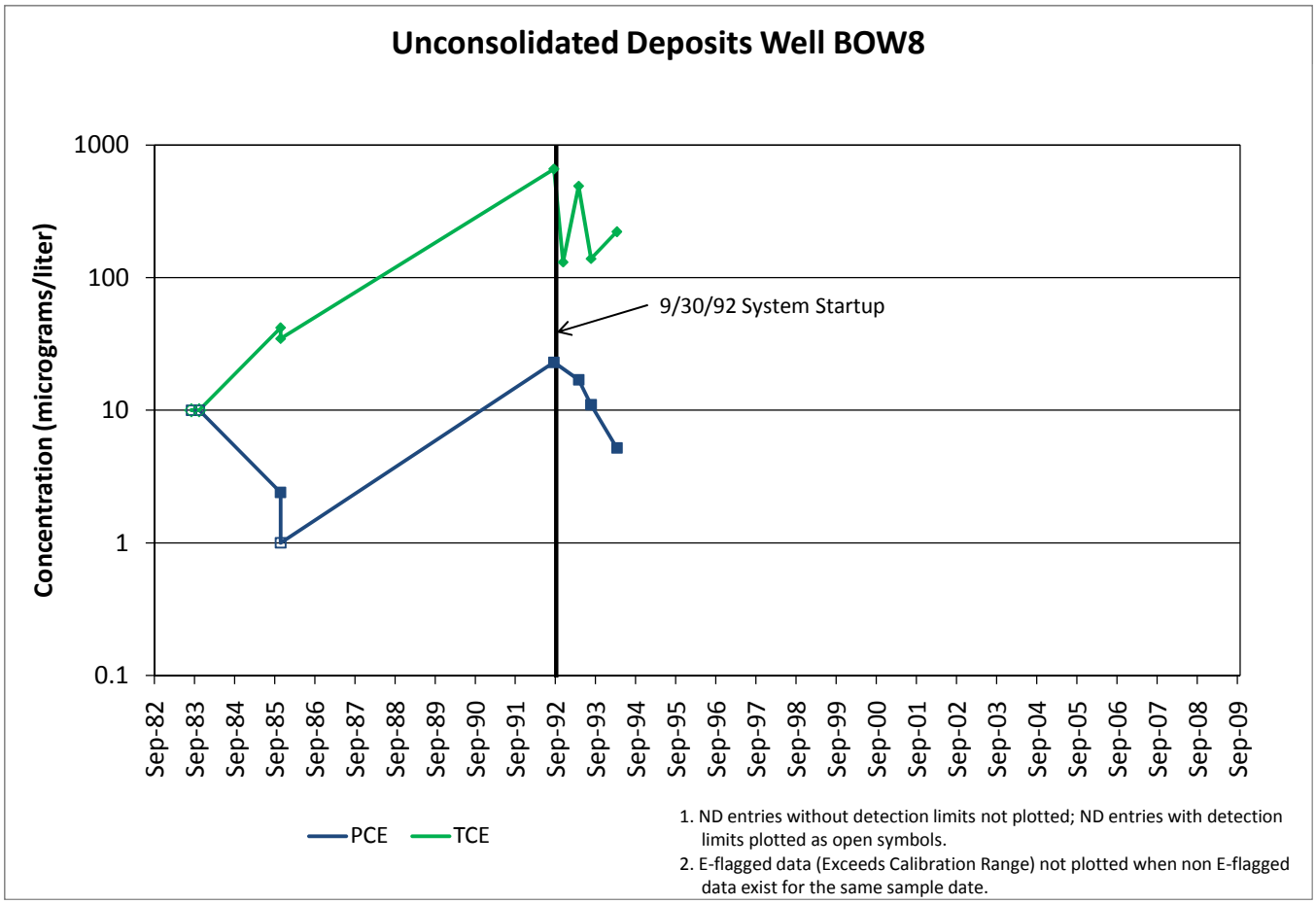


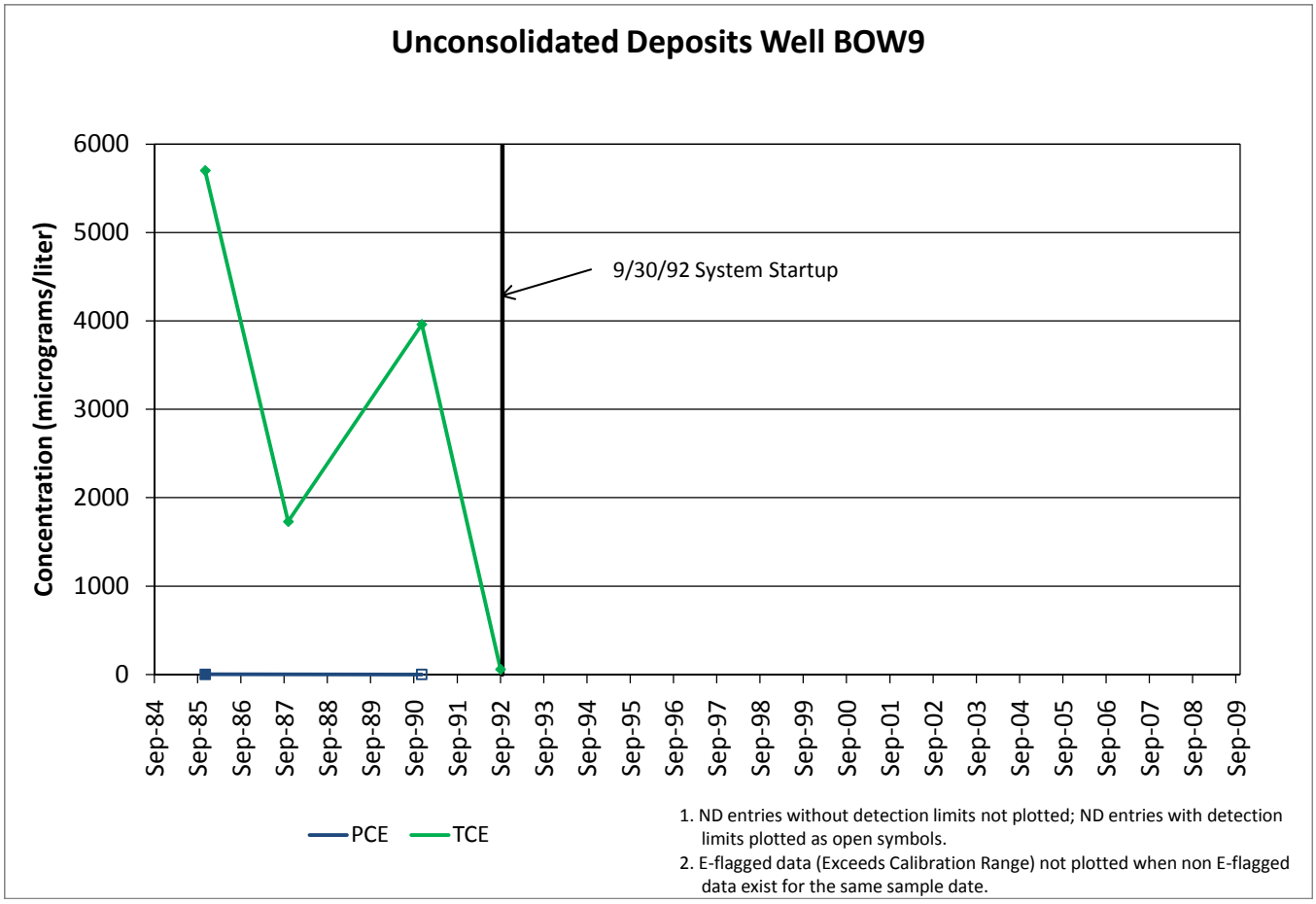
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

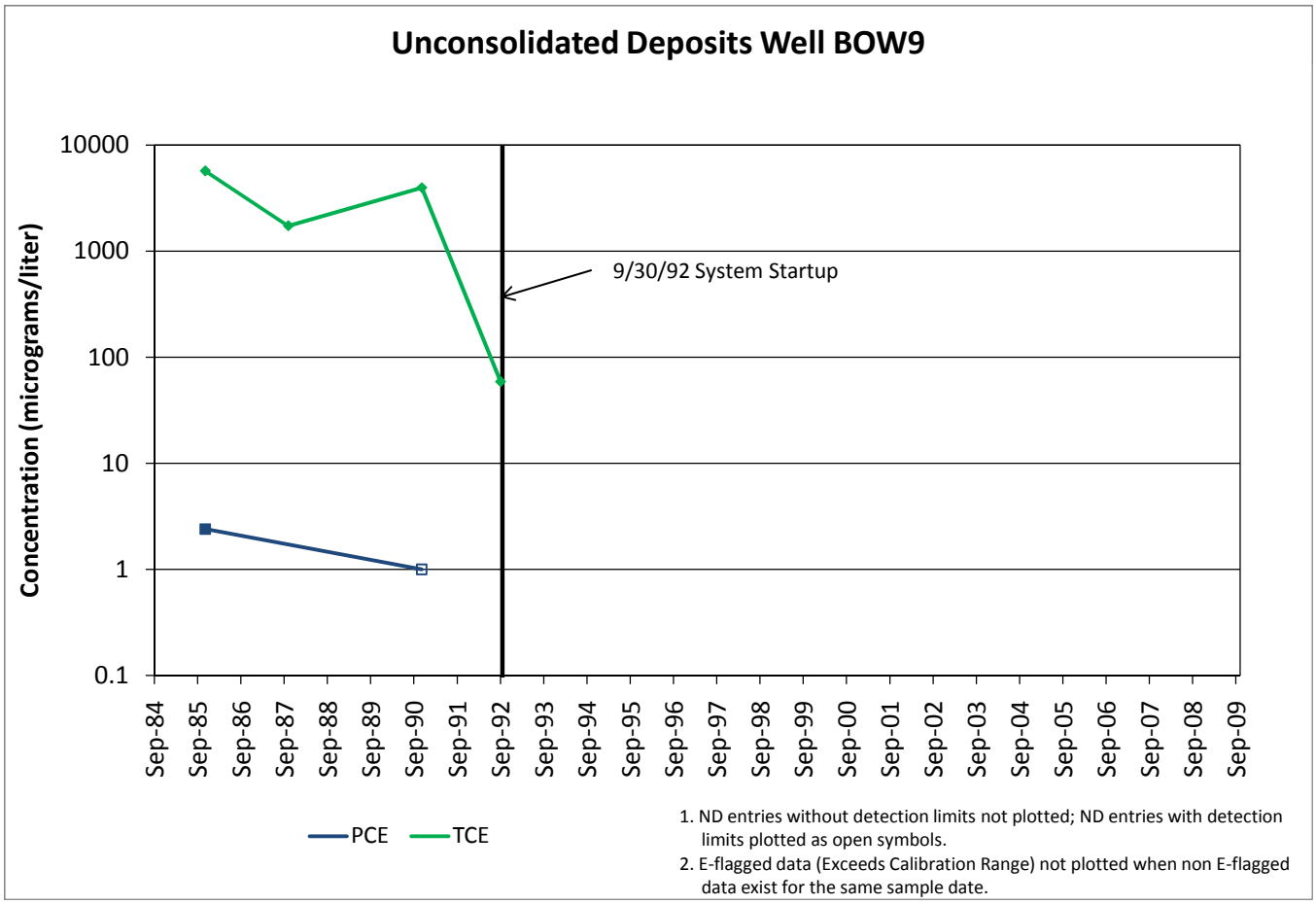

Unconsolidated Deposits Well BDW6
Concentration (micrograms/liter)
30000
25000
20000
15000
10000
5000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

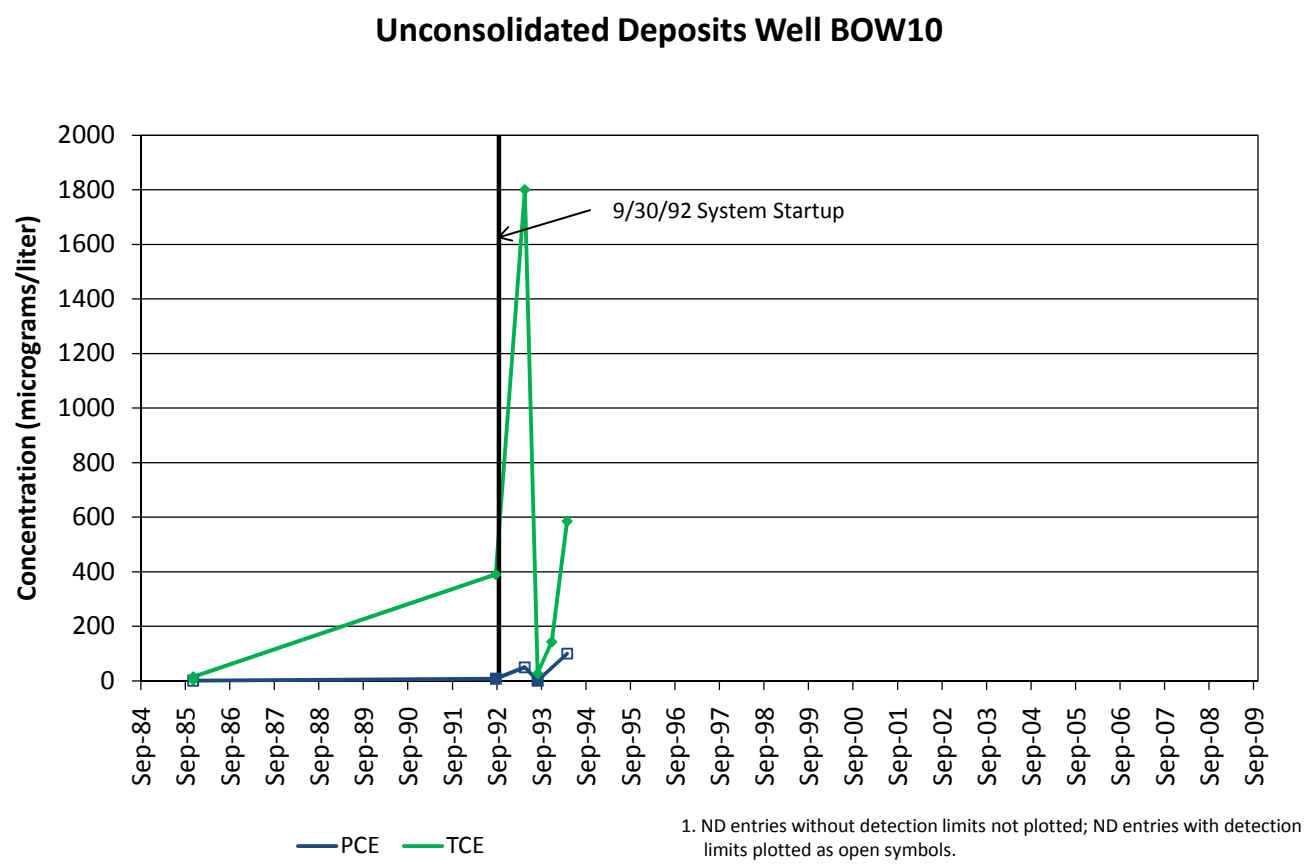

Unconsolidated Deposits Well BDW6
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BOW8
Concentration (micrograms/liter)
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

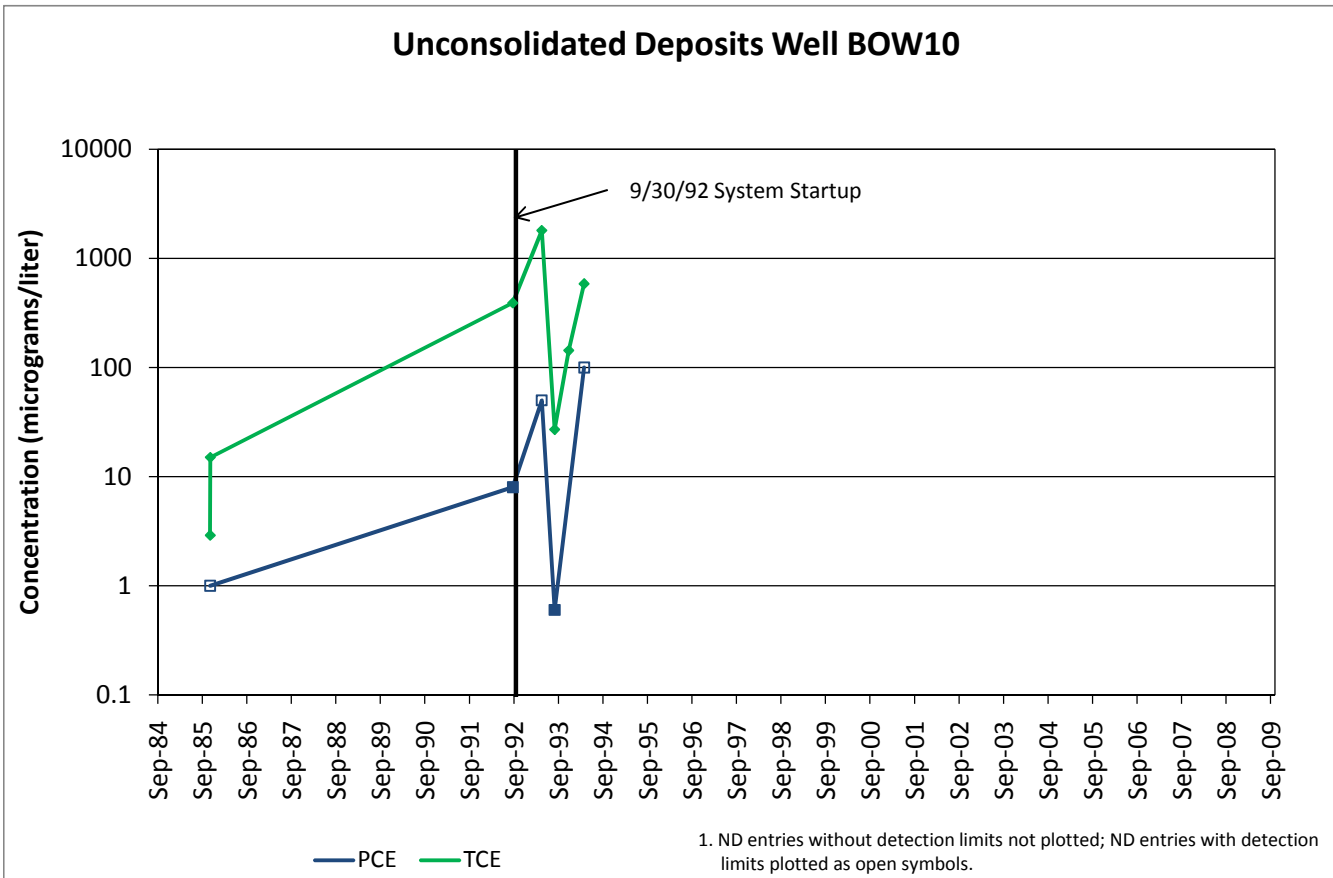

Unconsolidated Deposits Well BOW8
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BOW9
Concentration (micrograms/liter)
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

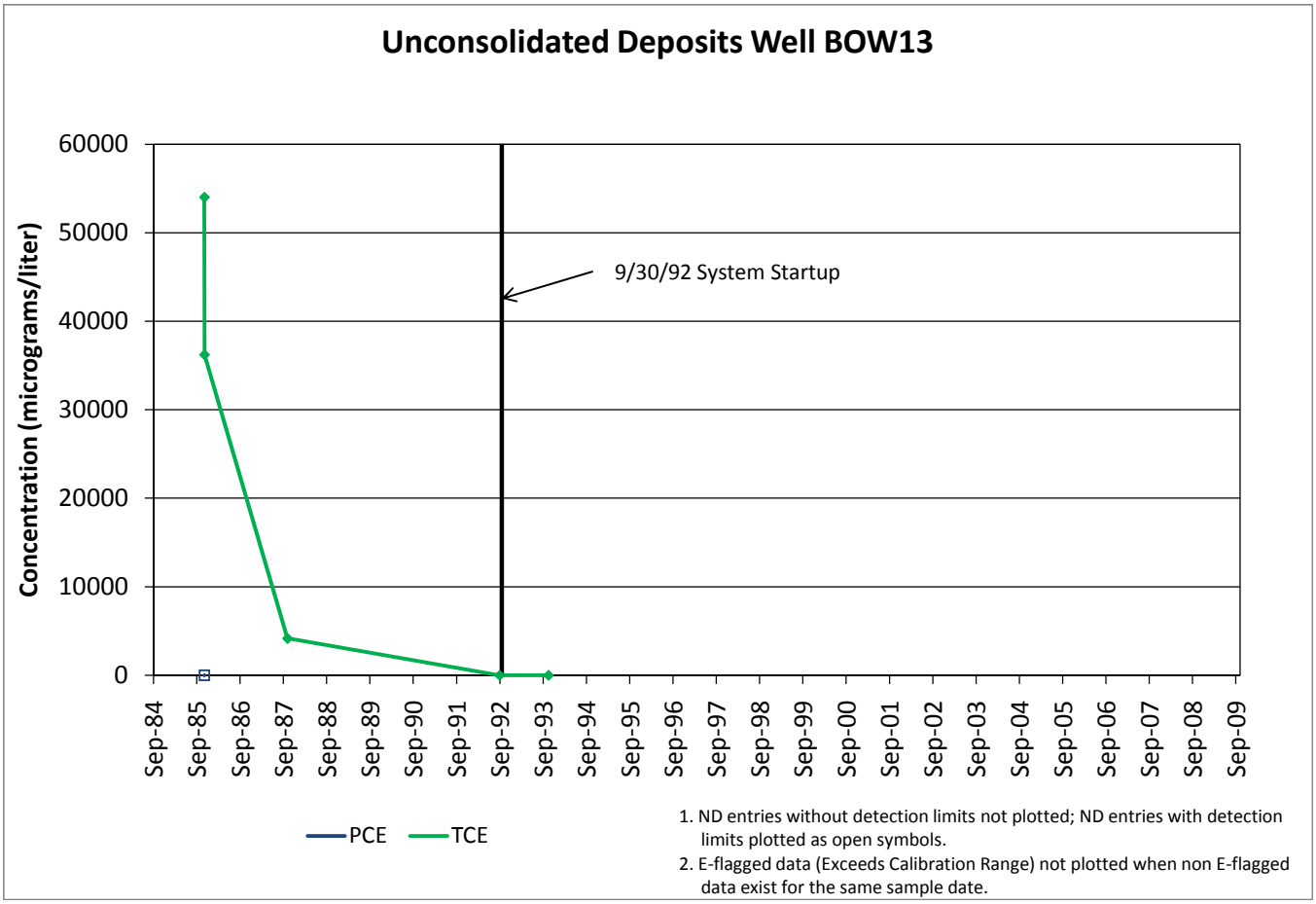

Unconsolidated Deposits Well BOW9
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

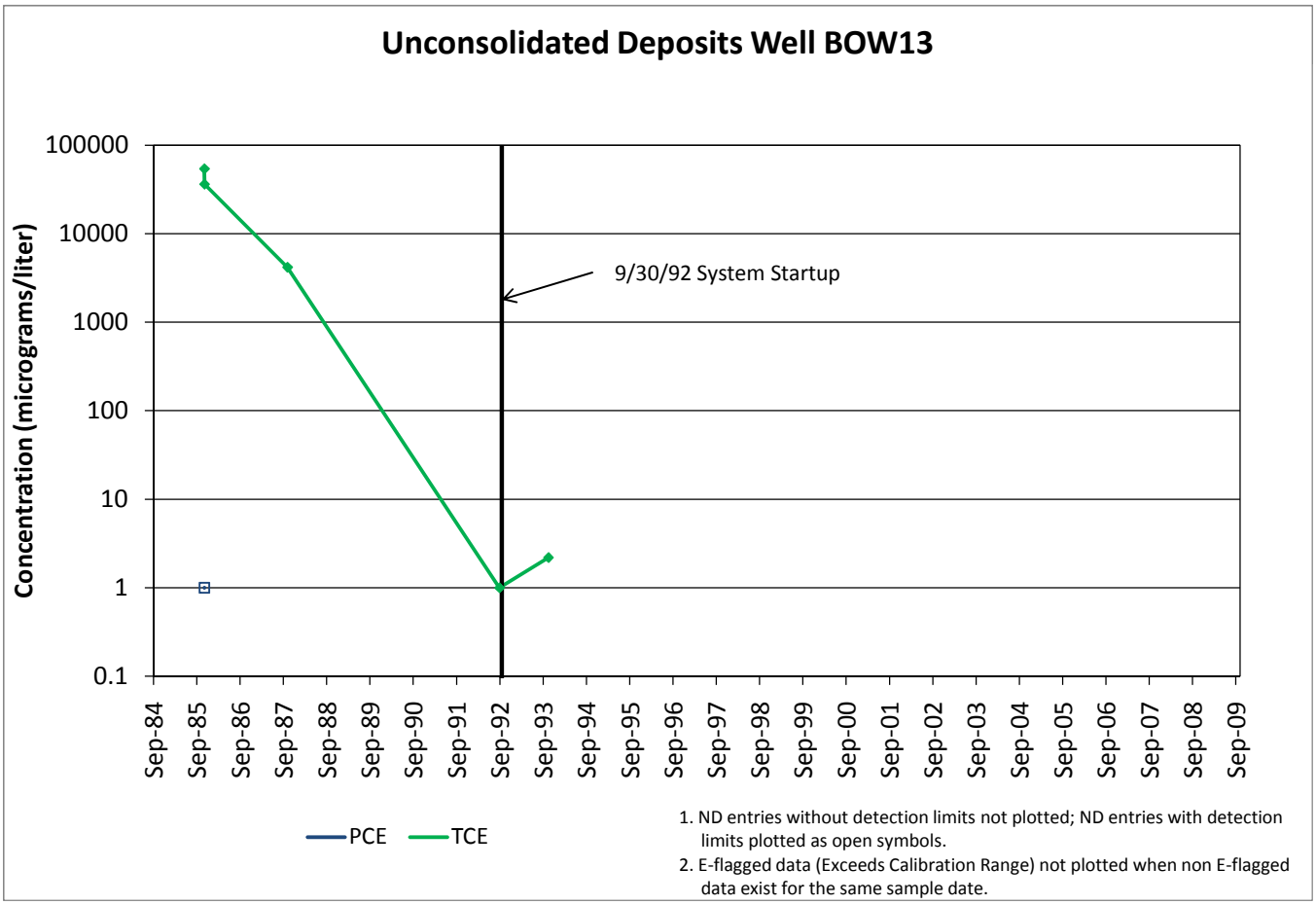


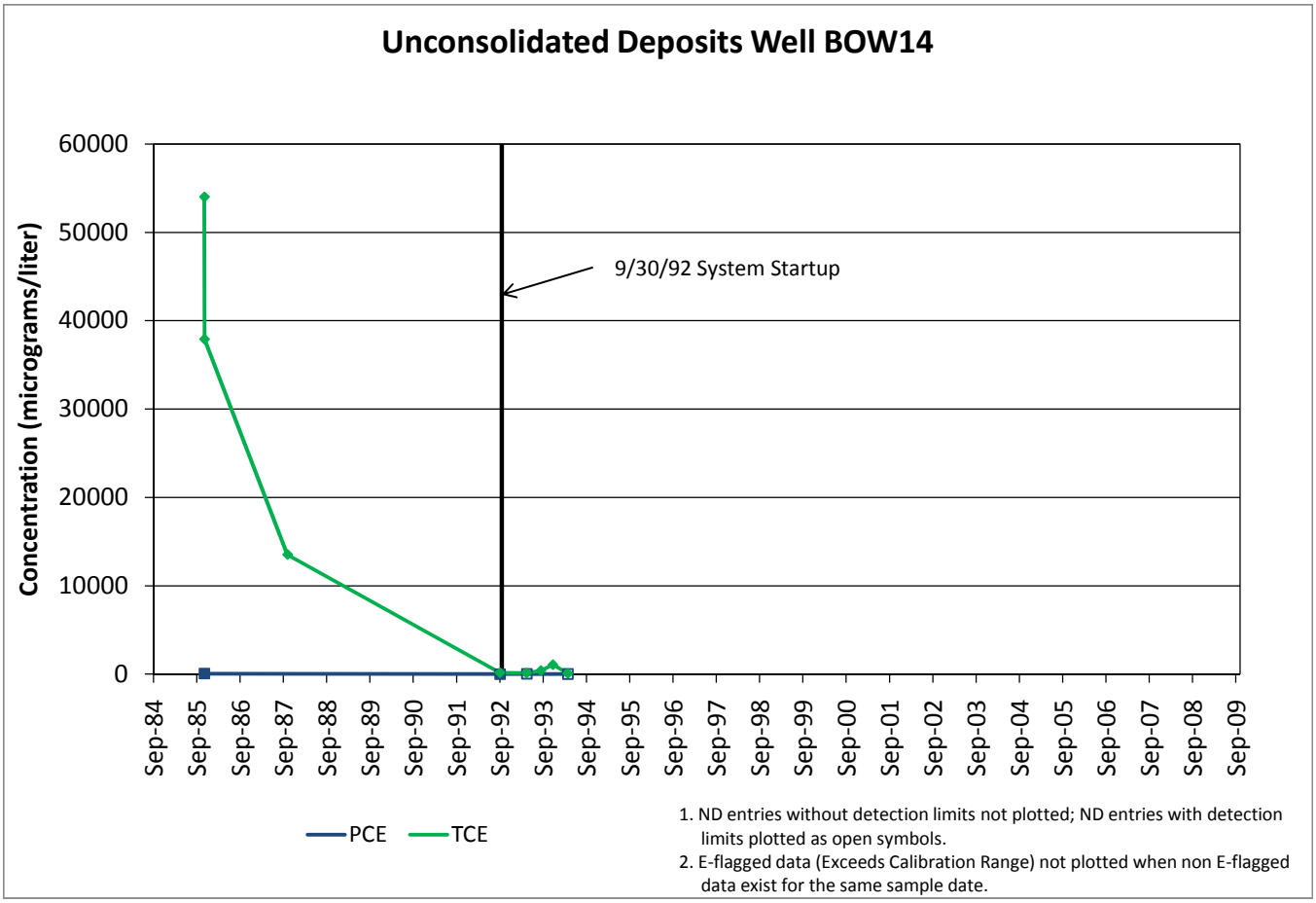
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

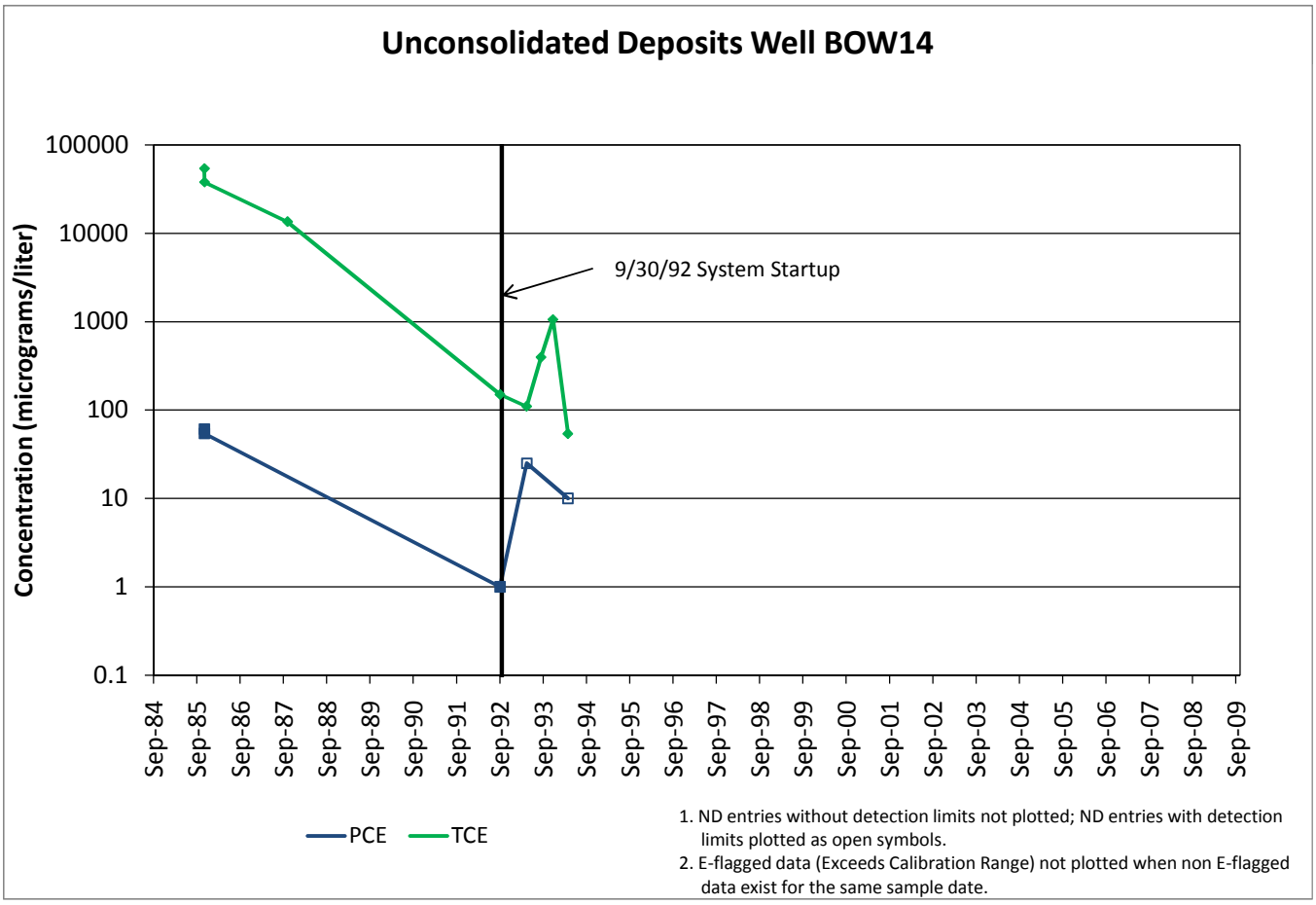


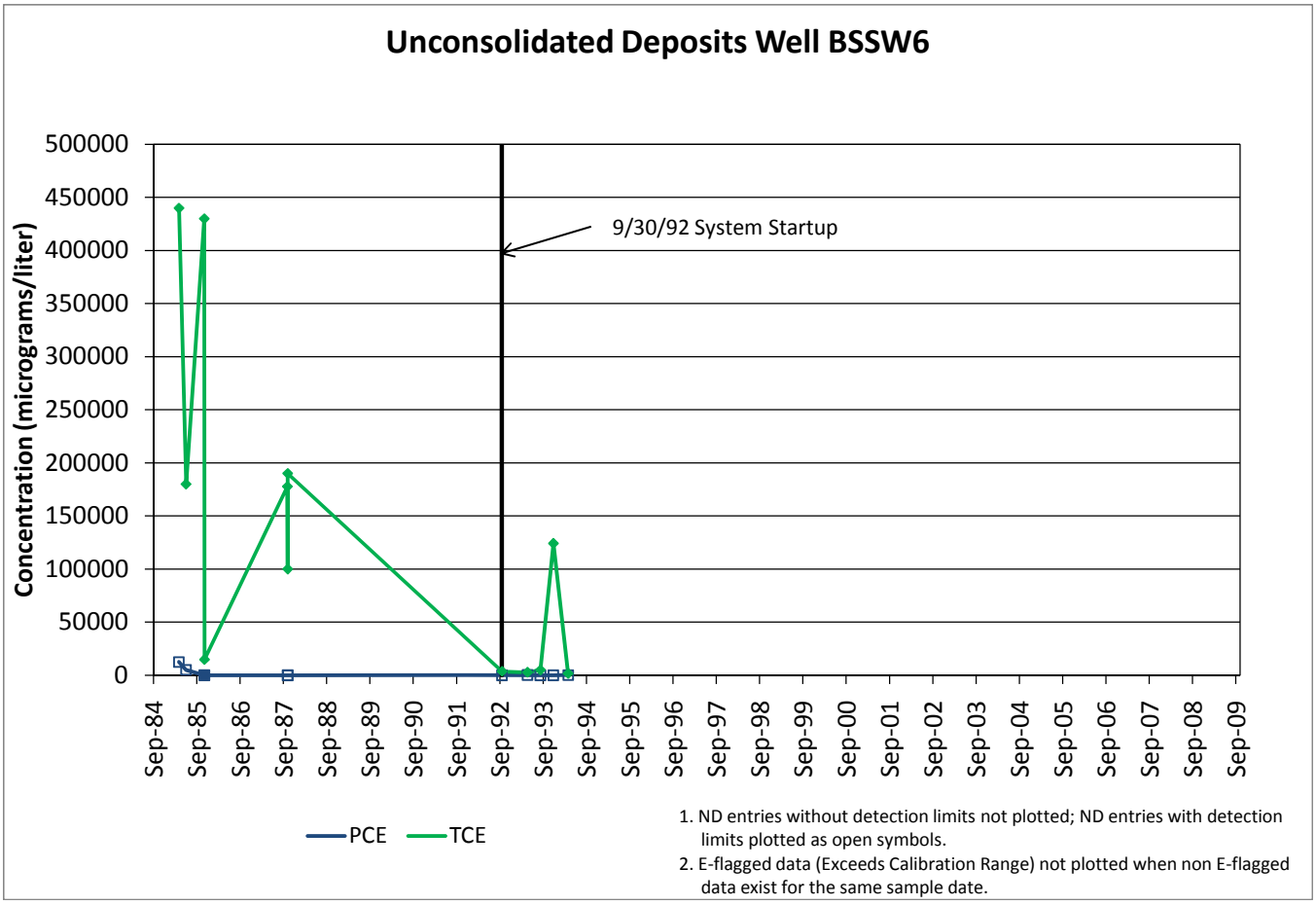
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

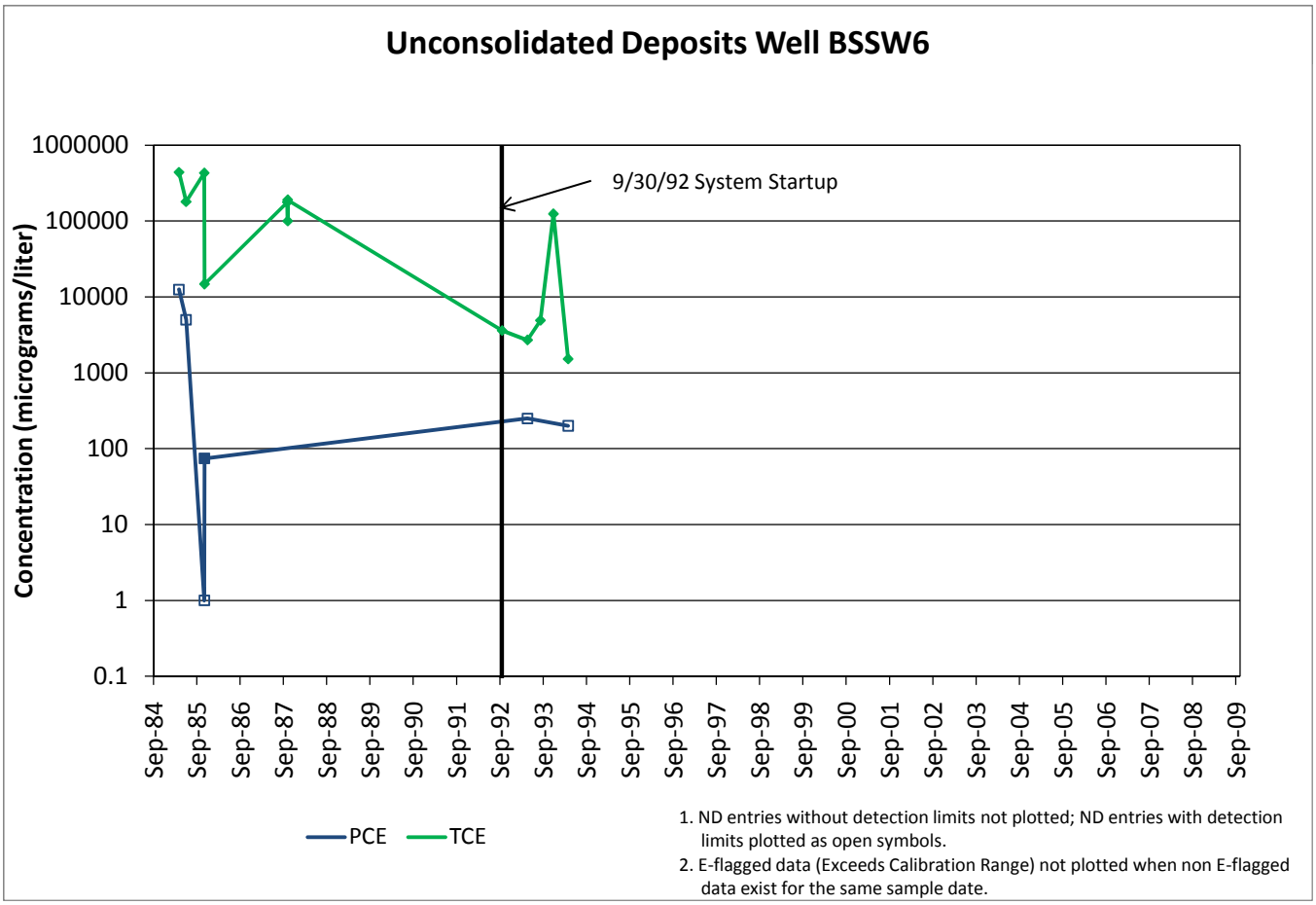

Unconsolidated Deposits Well BOW13
Concentration (micrograms/liter)
60000
50000
40000
30000
20000
10000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

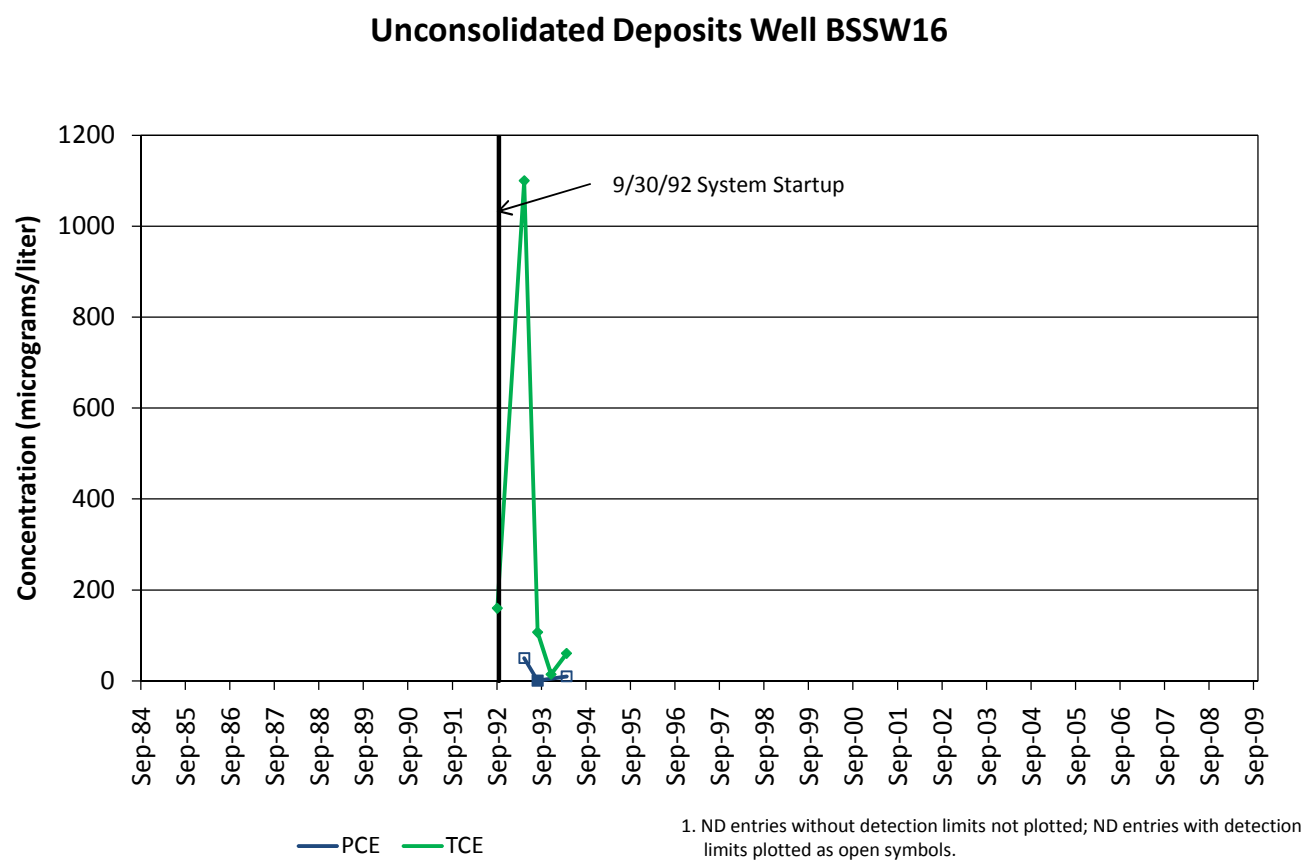

Unconsolidated Deposits Well BOW13
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BOW14
Concentration (micrograms/liter)
60000
50000
40000
30000
20000
10000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

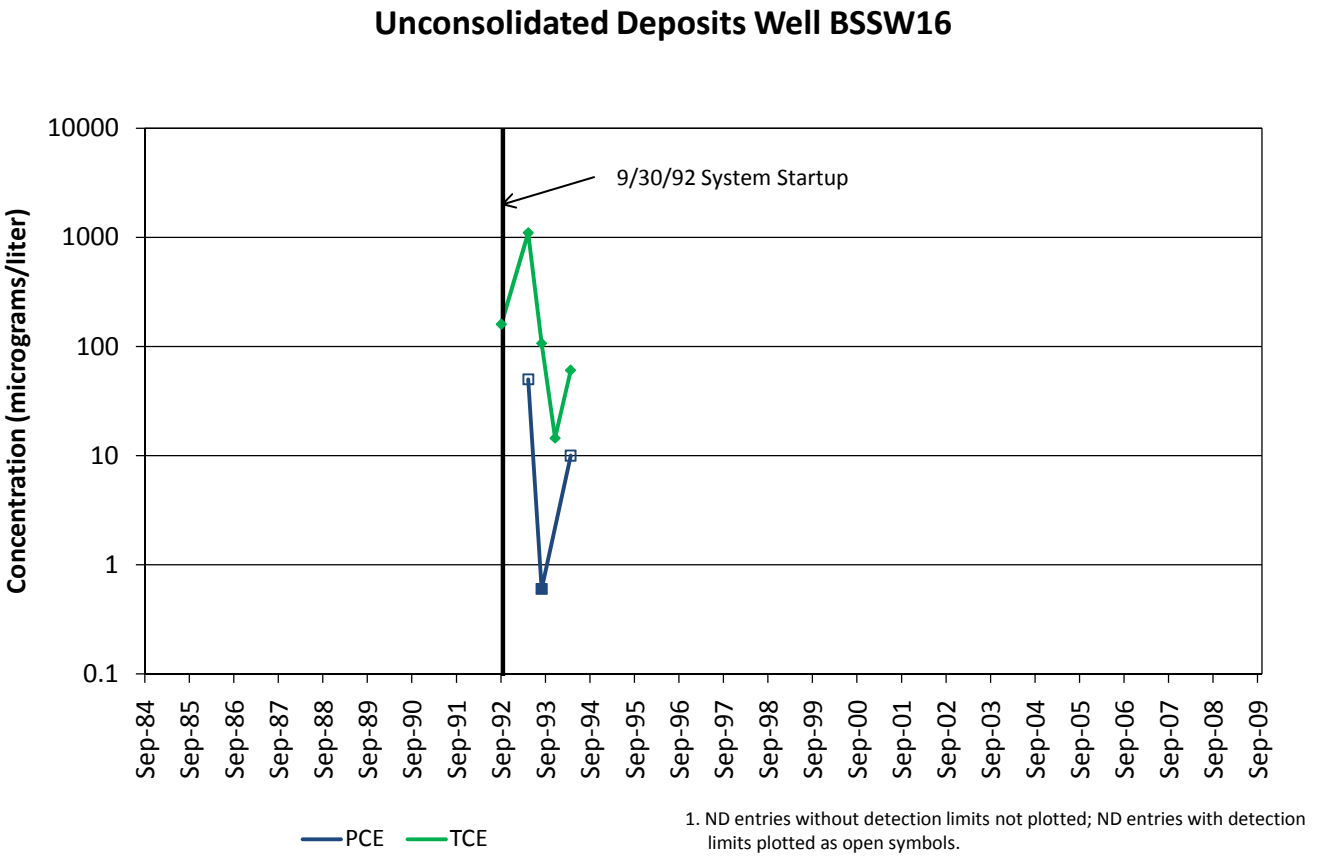

Unconsolidated Deposits Well BOW14
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BSSW6
Concentration (micrograms/liter)
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

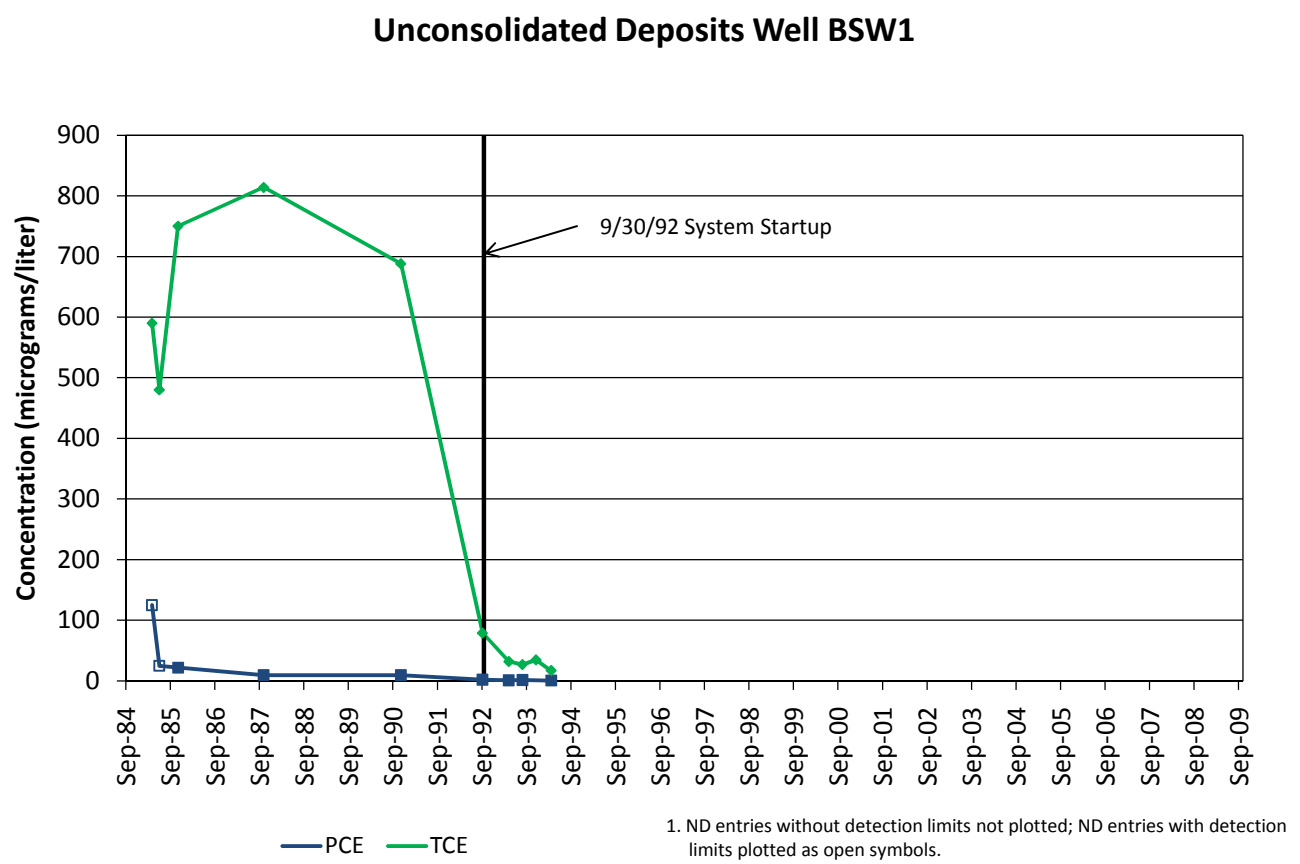

Unconsolidated Deposits Well BSSW6
Concentration (micrograms/liter)
1000000
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



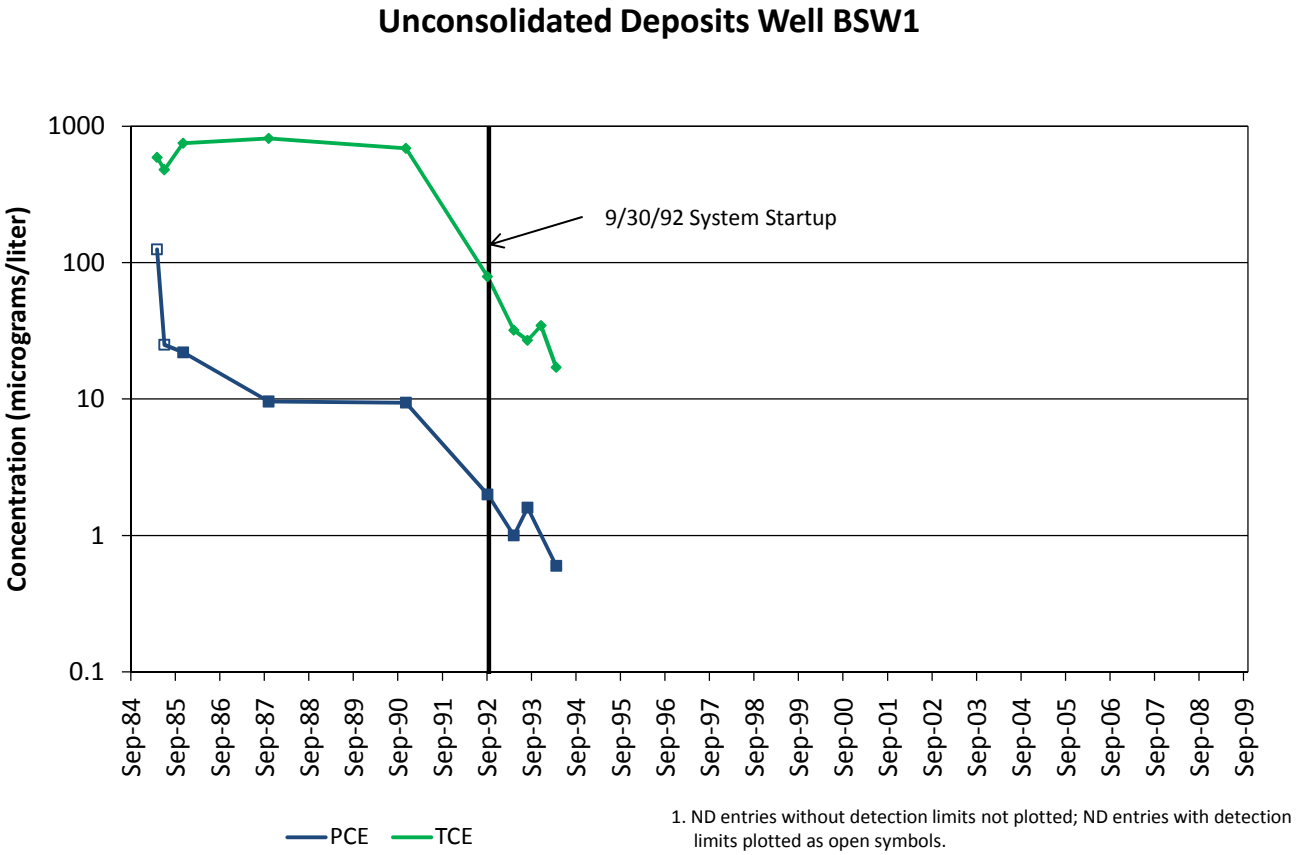
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



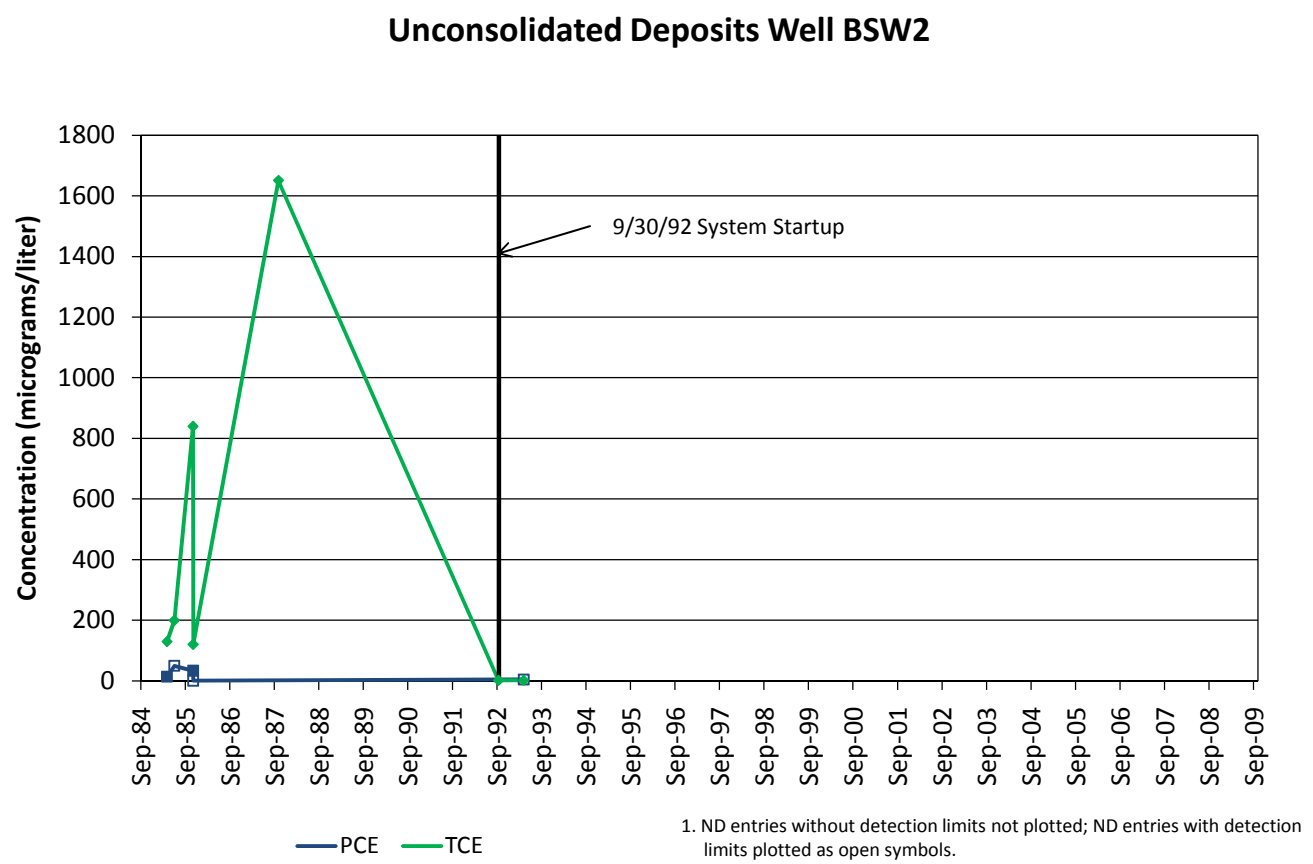
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



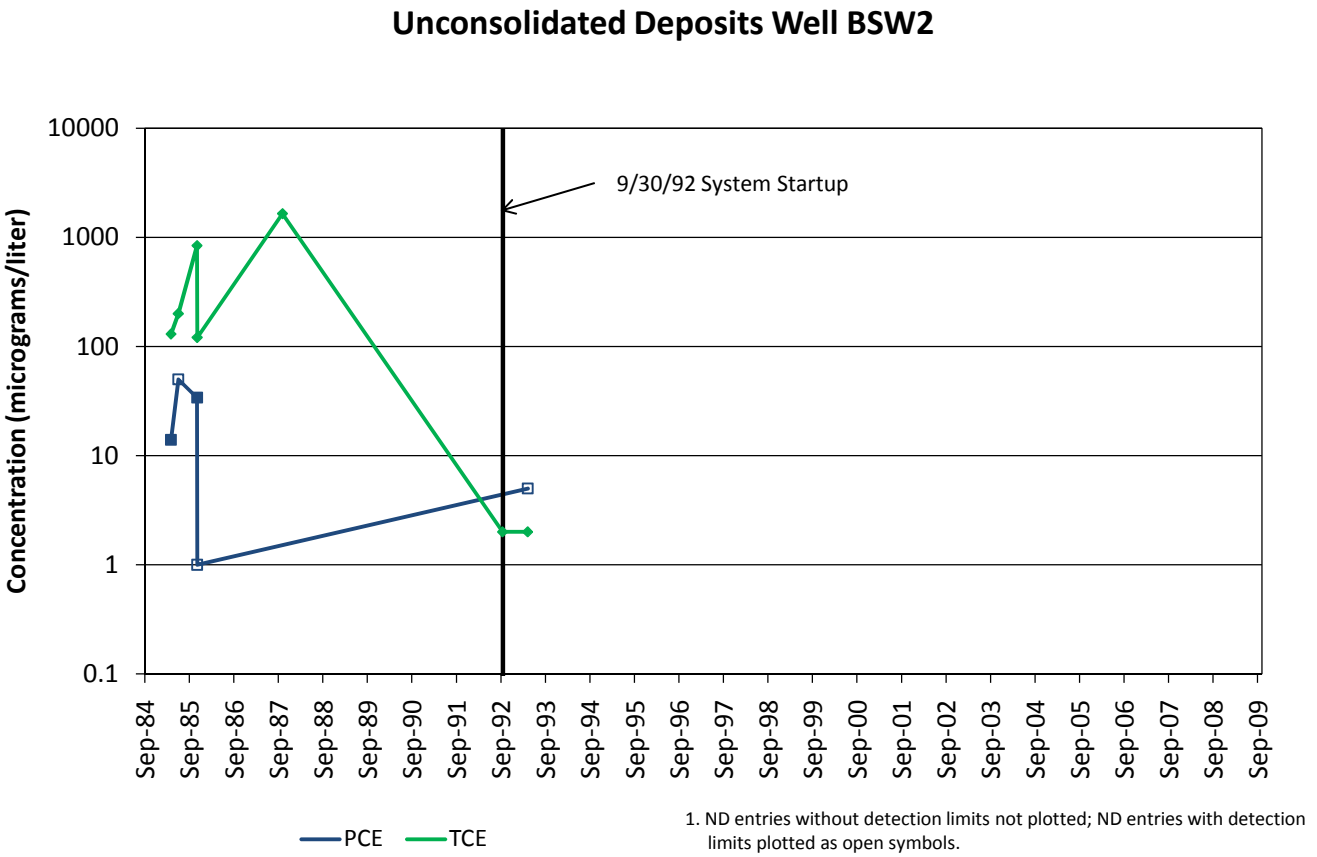
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



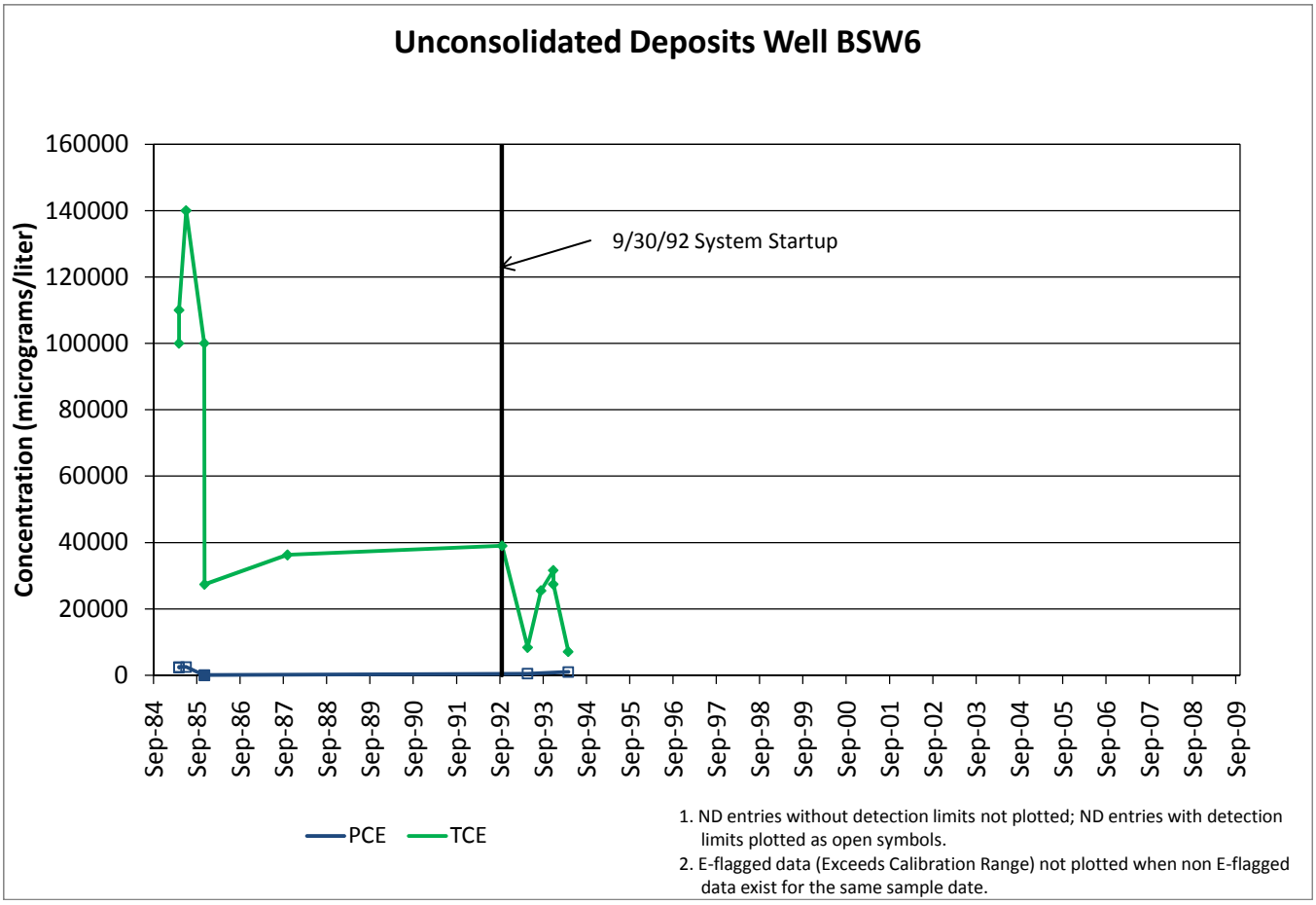
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

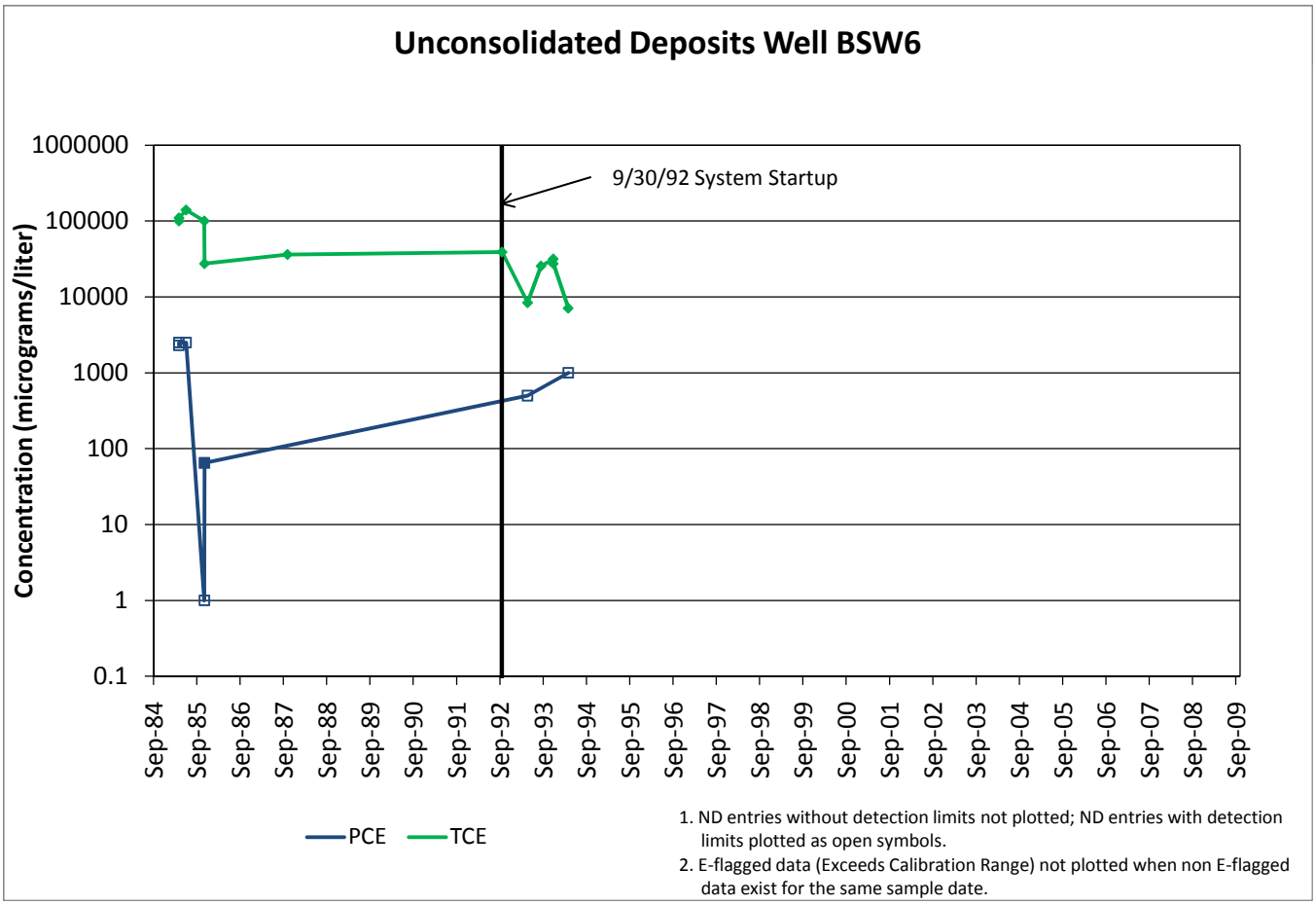


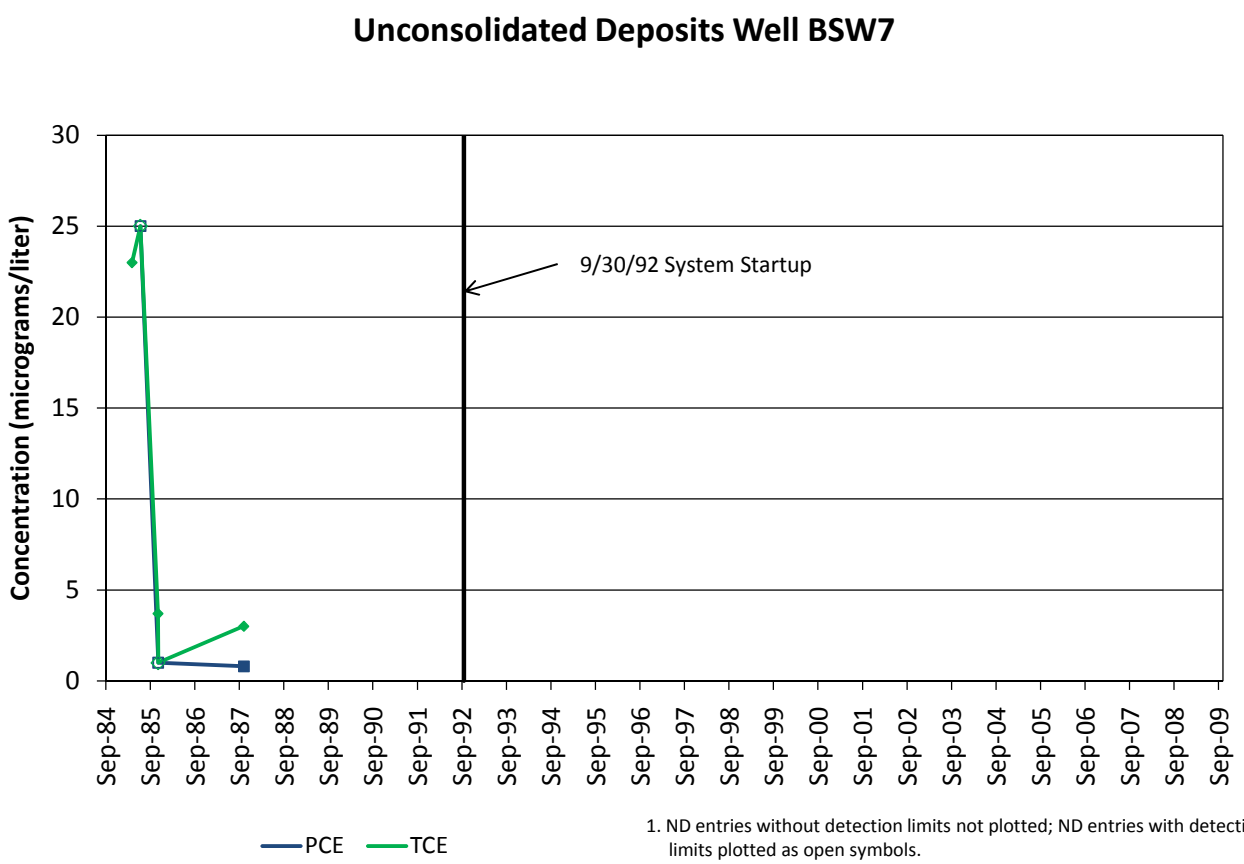
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



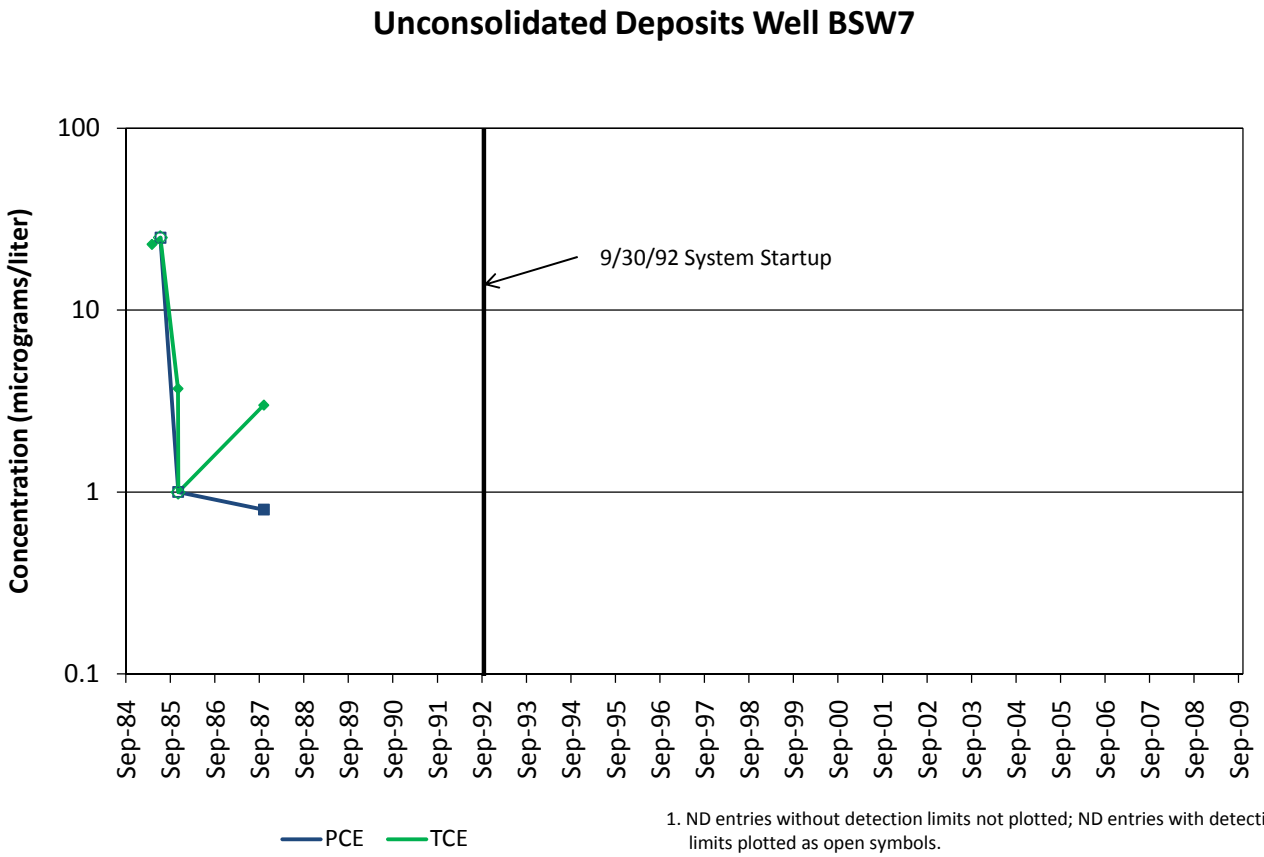
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BSW6
Concentration (micrograms/liter)
160000
140000
120000
100000
80000
60000
40000
20000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

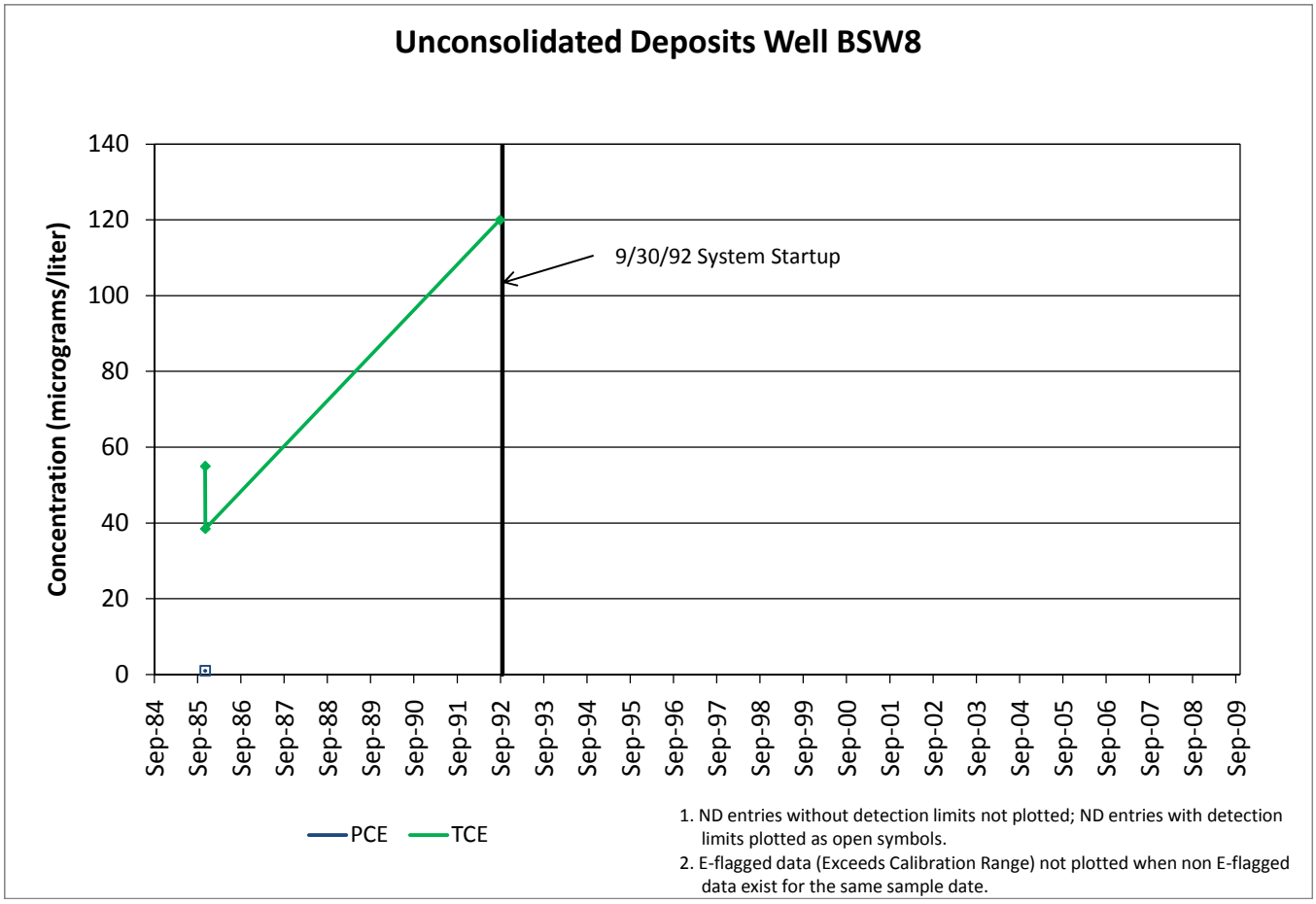

Unconsolidated Deposits Well BSW6
Concentration (micrograms/liter)
1000000
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

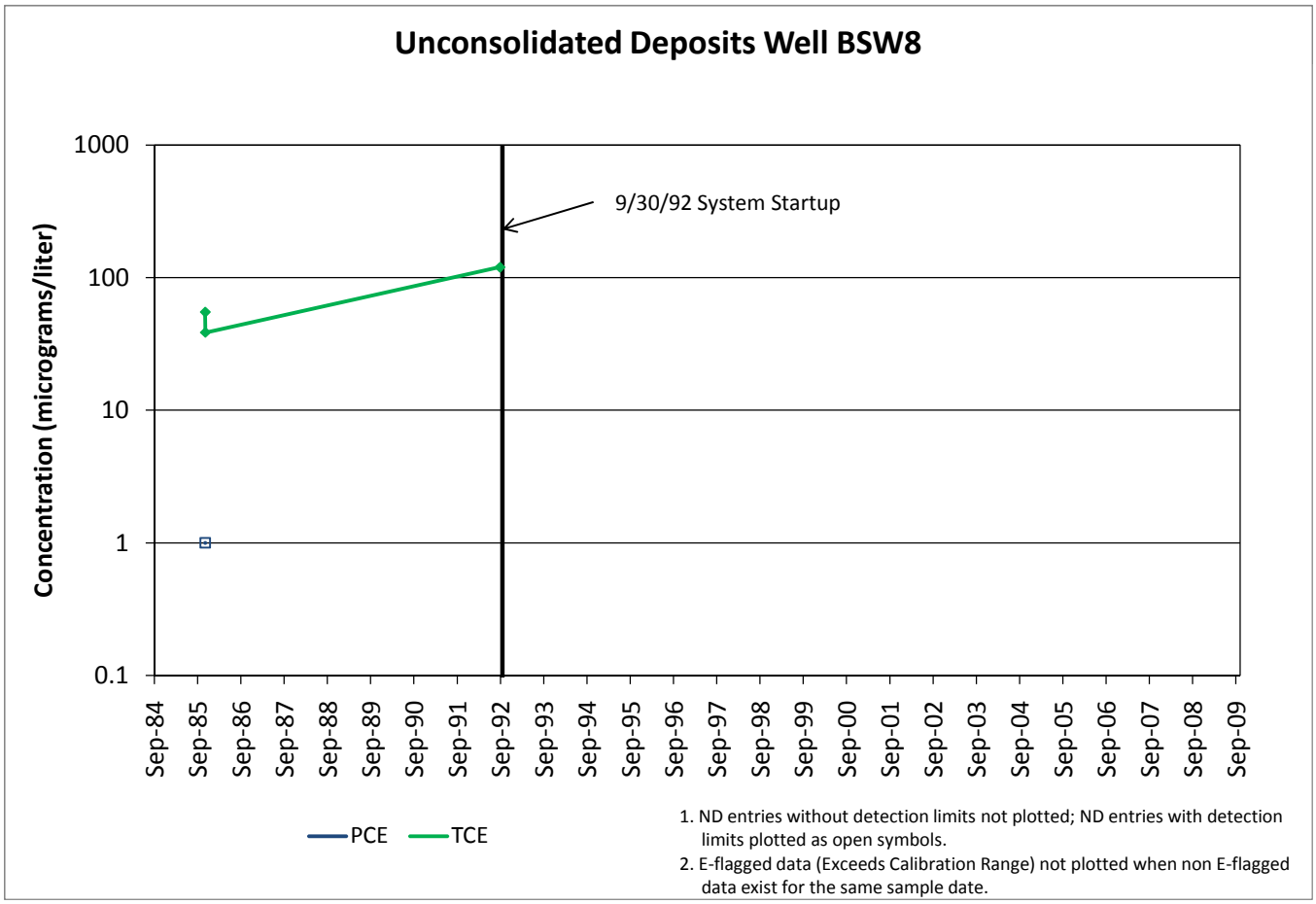


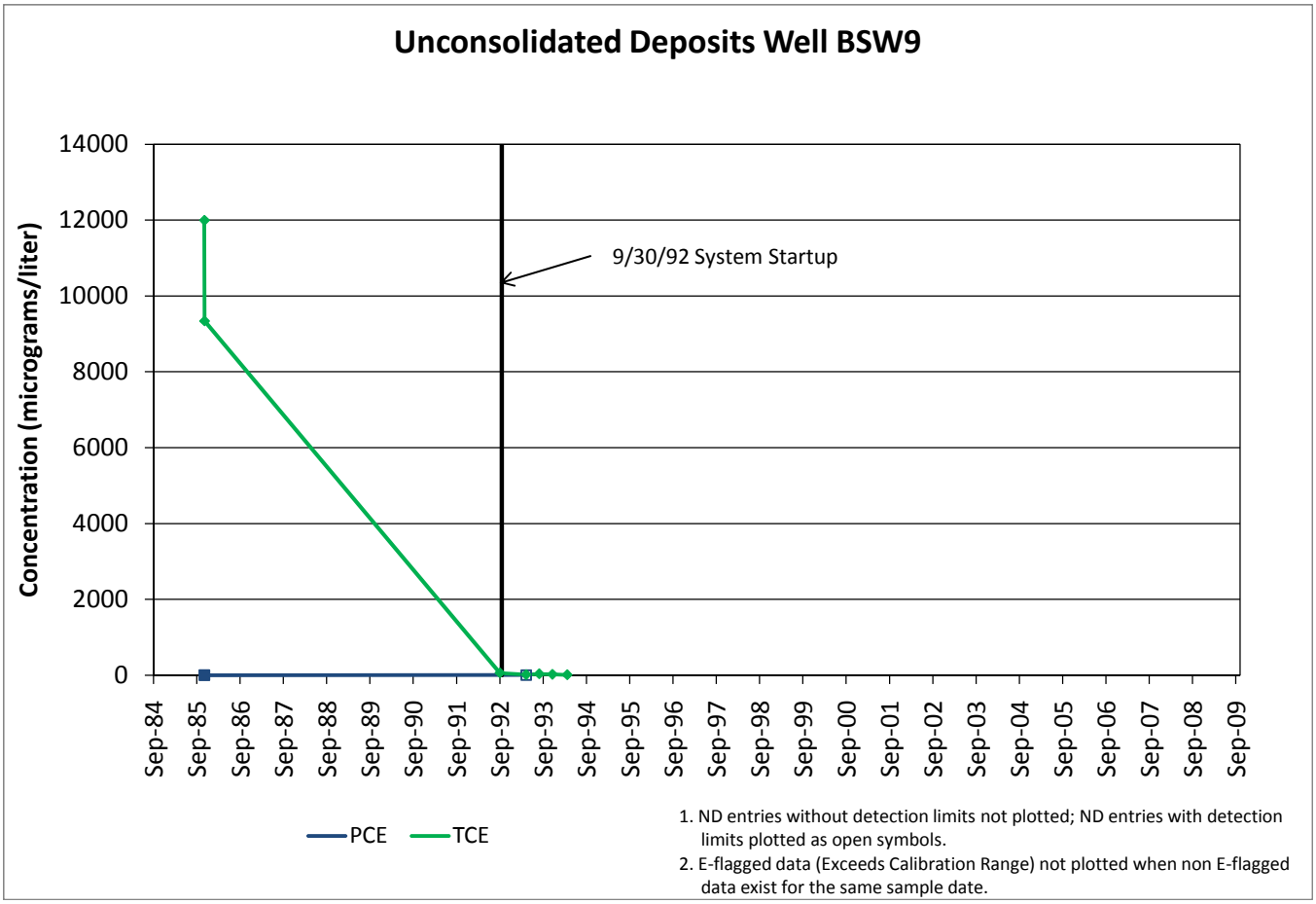
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

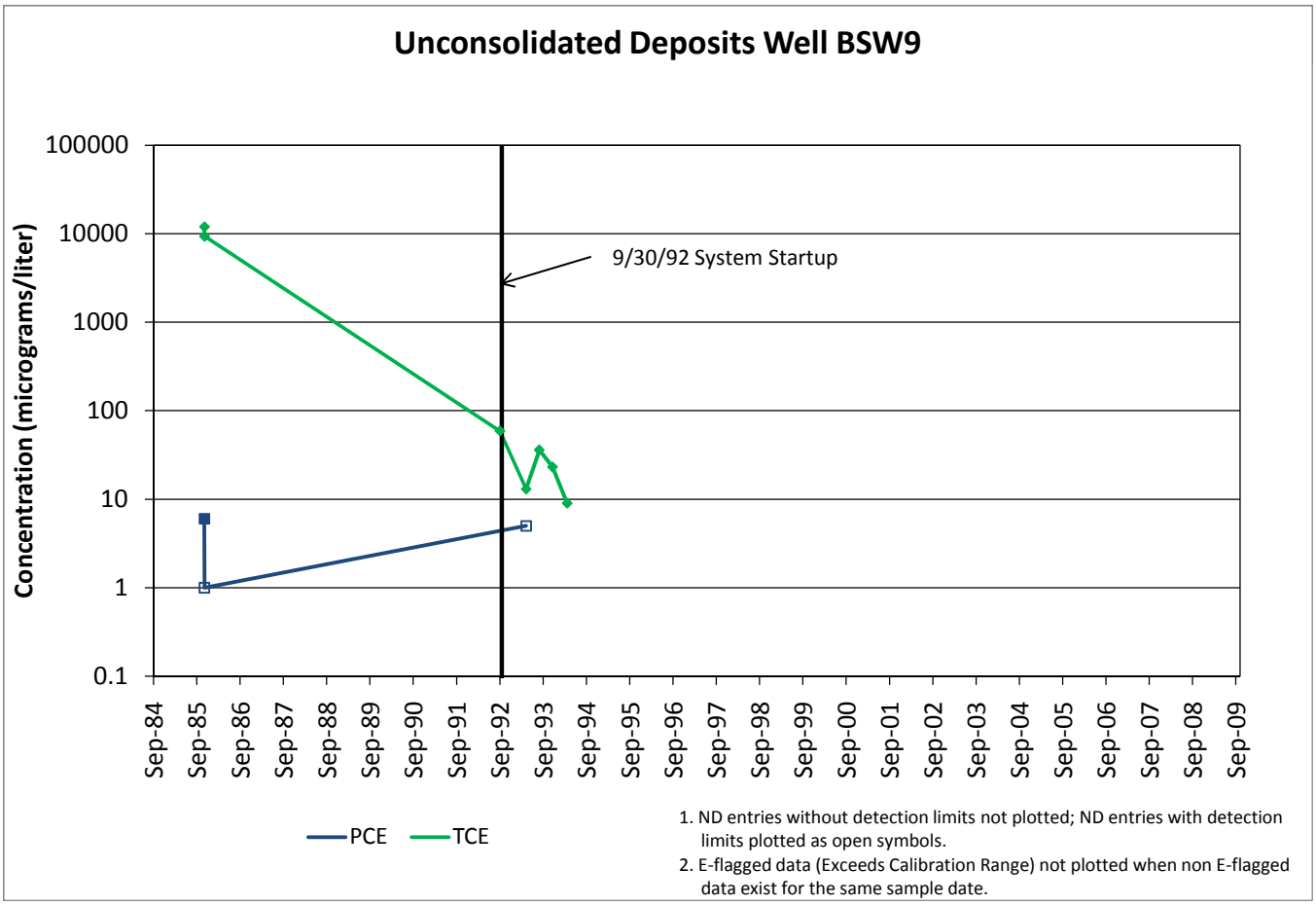


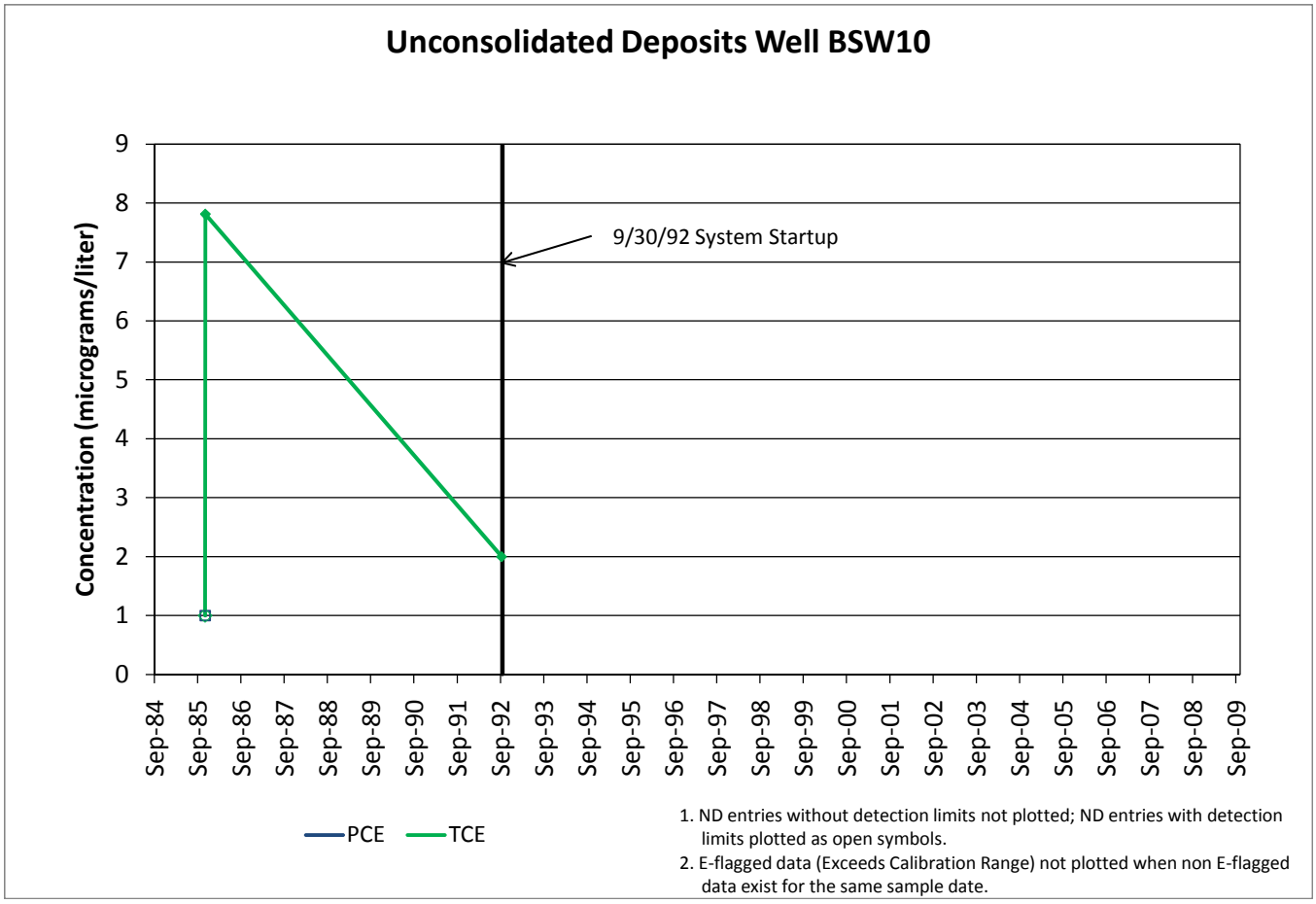
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

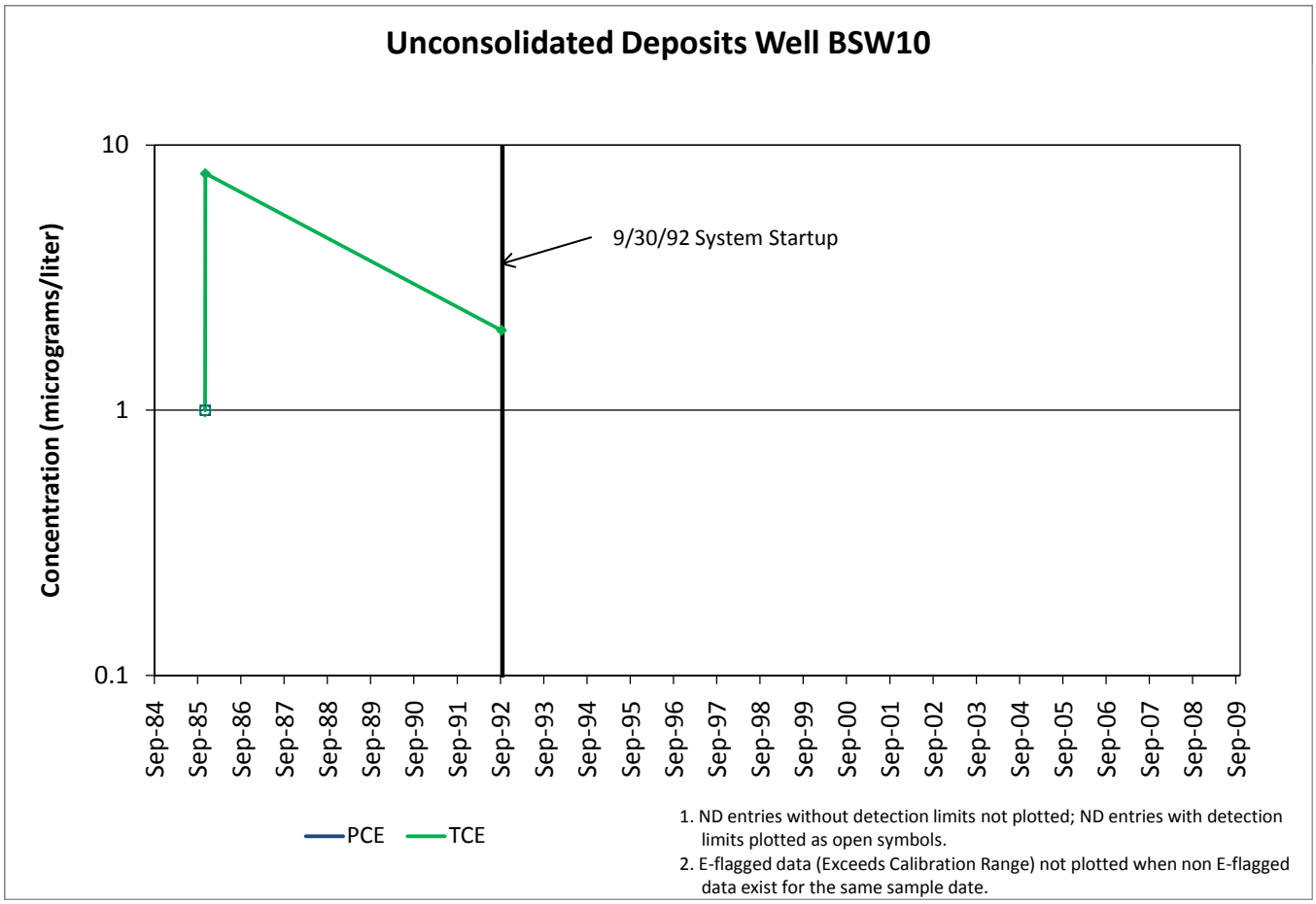

Unconsolidated Deposits Well BSW8
Concentration (micrograms/liter)
140
120
100
80
60
40
20
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

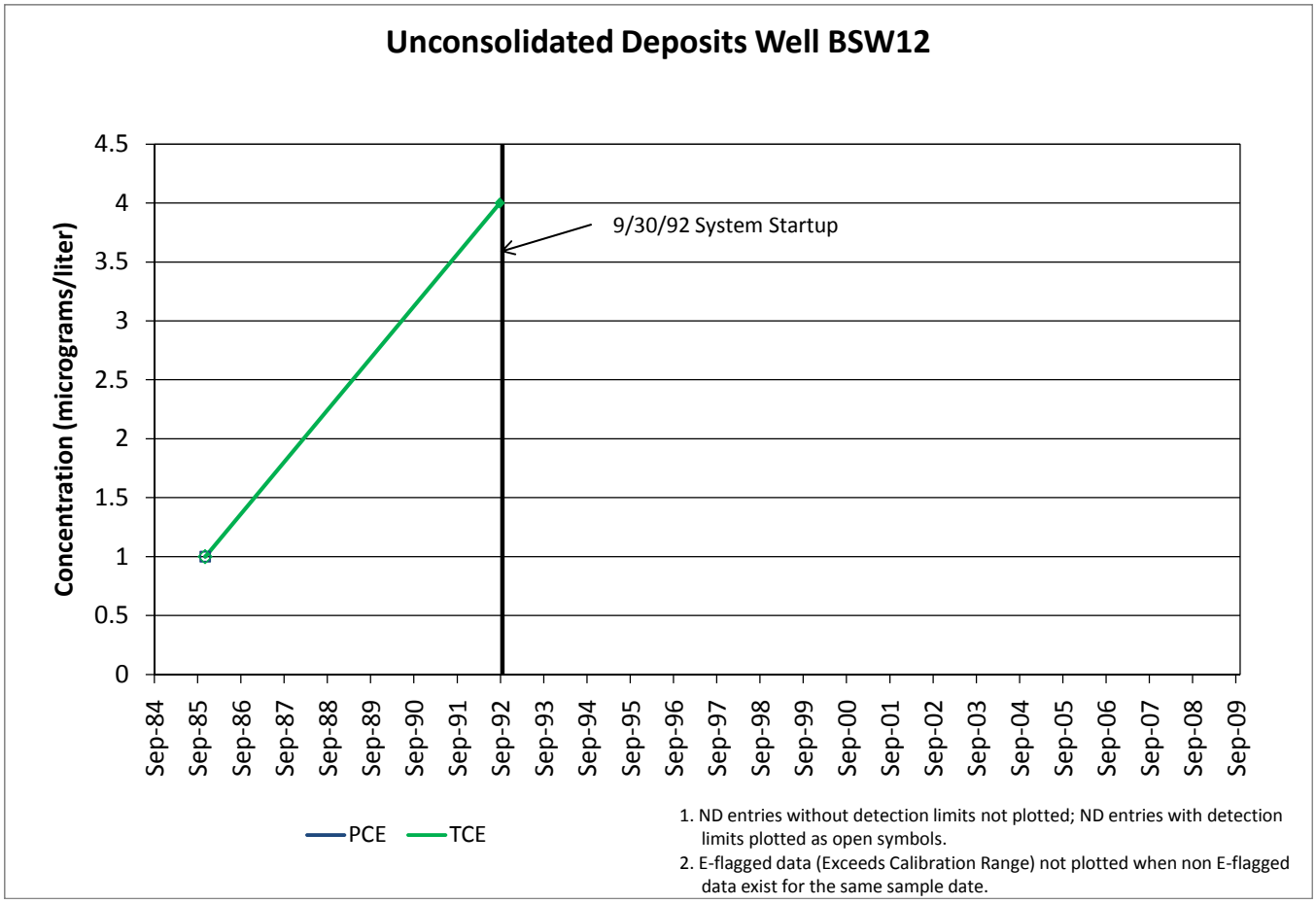

Unconsolidated Deposits Well BSW8
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

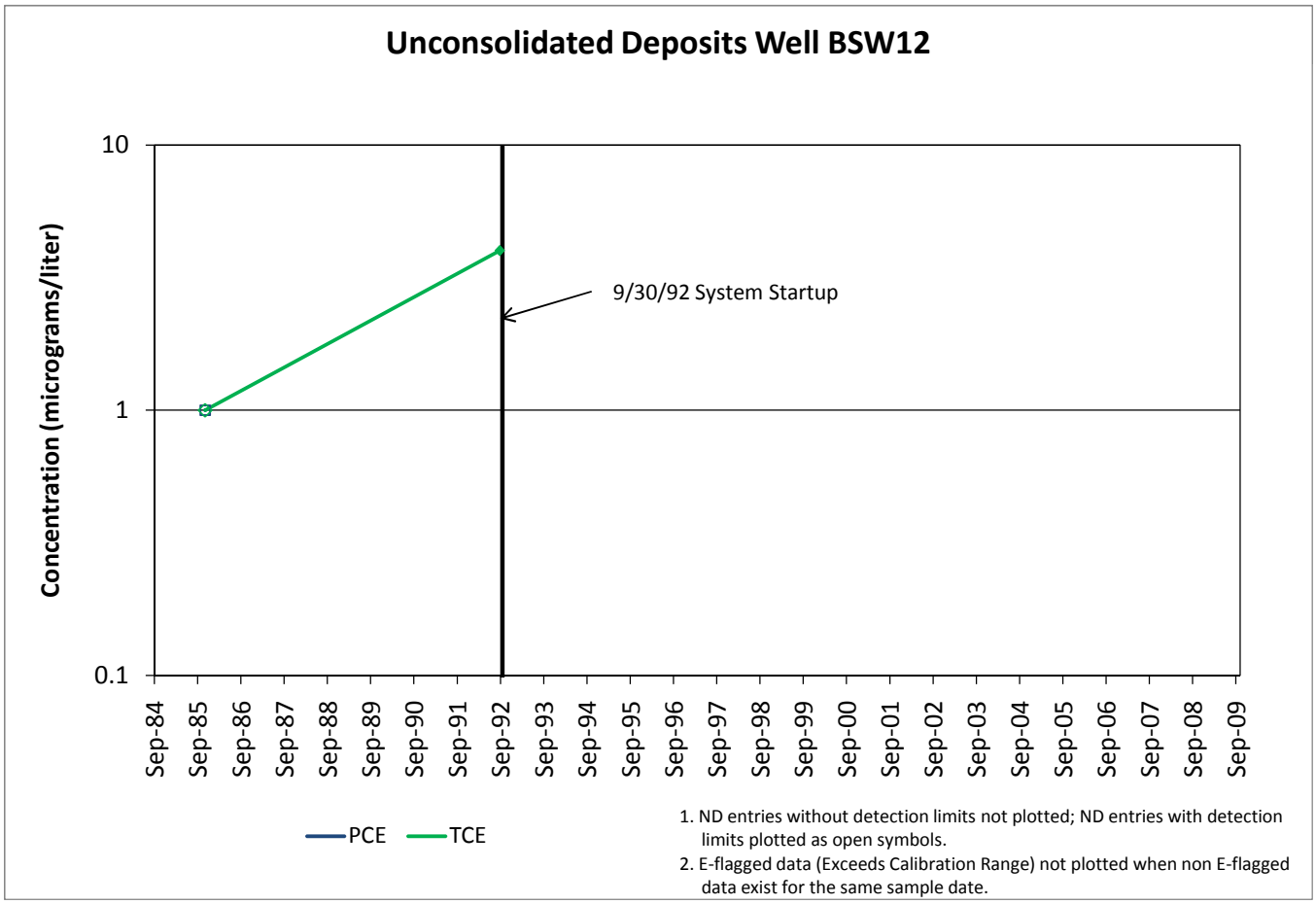

Unconsolidated Deposits Well BSW9
Concentration (micrograms/liter)
14000
12000
10000
8000
6000
4000
2000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

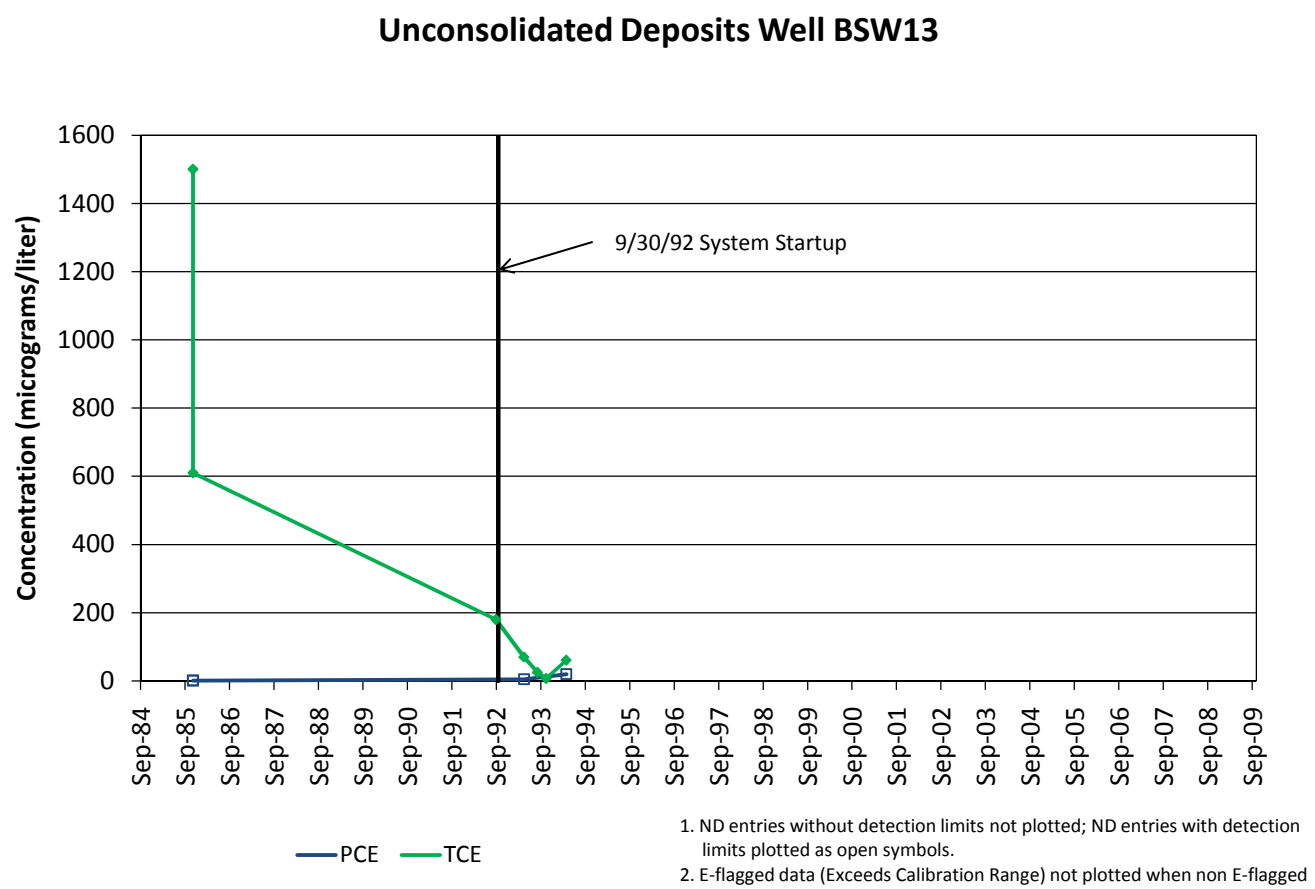

Unconsolidated Deposits Well BSW9
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BSW10
Concentration (micrograms/liter)
9
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

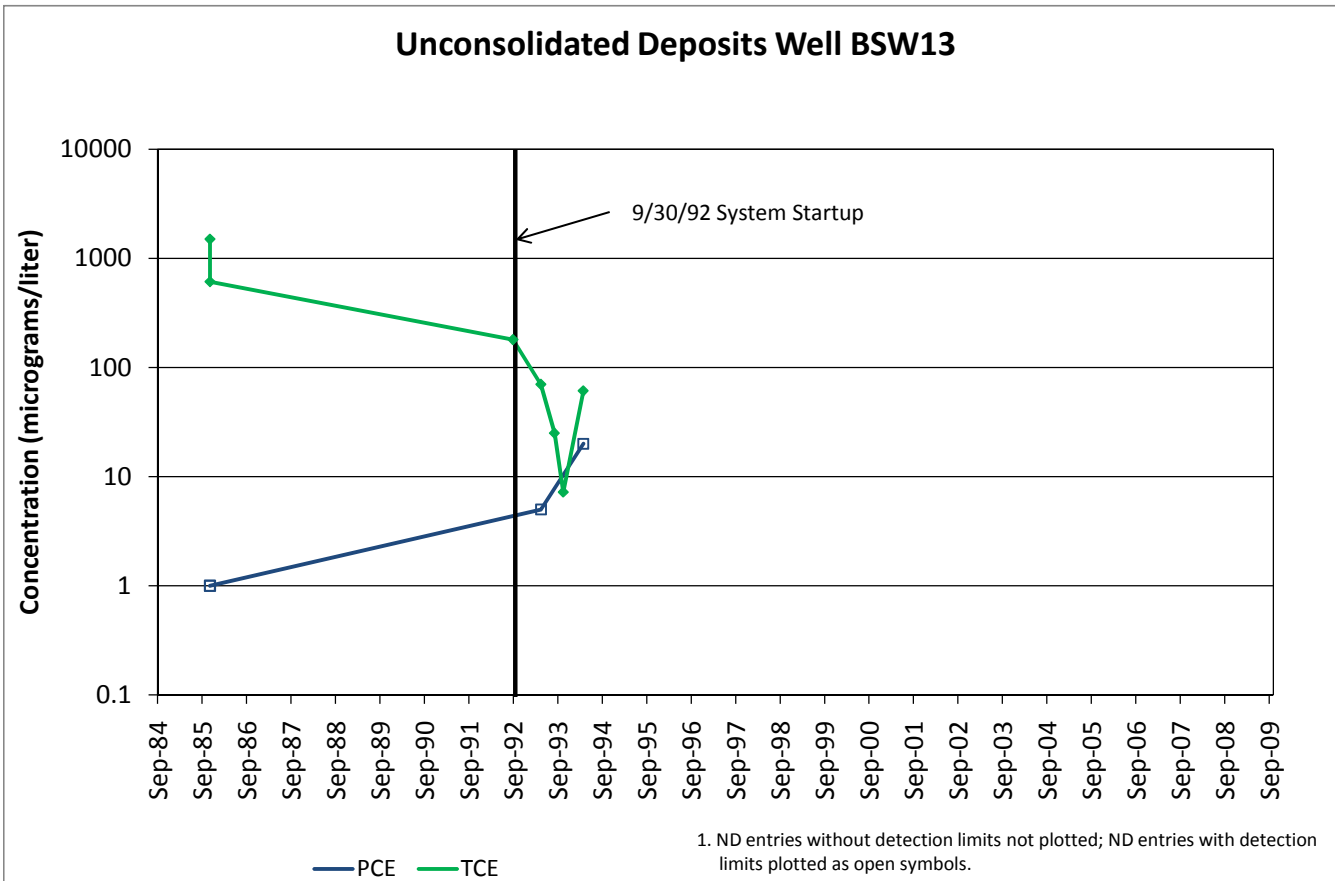

Unconsolidated Deposits Well BSW10
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well BSW12
Concentration (micrograms/liter)
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

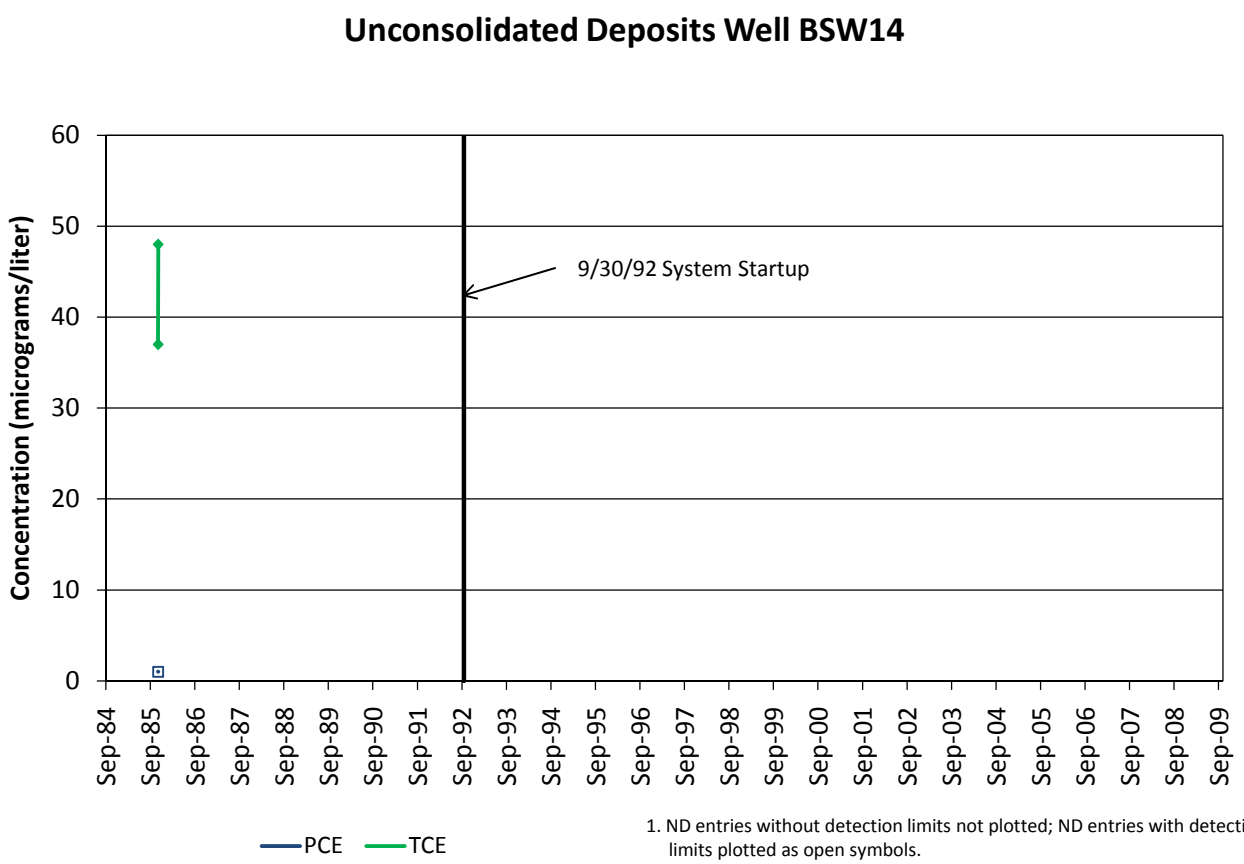

Unconsolidated Deposits Well BSW12
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



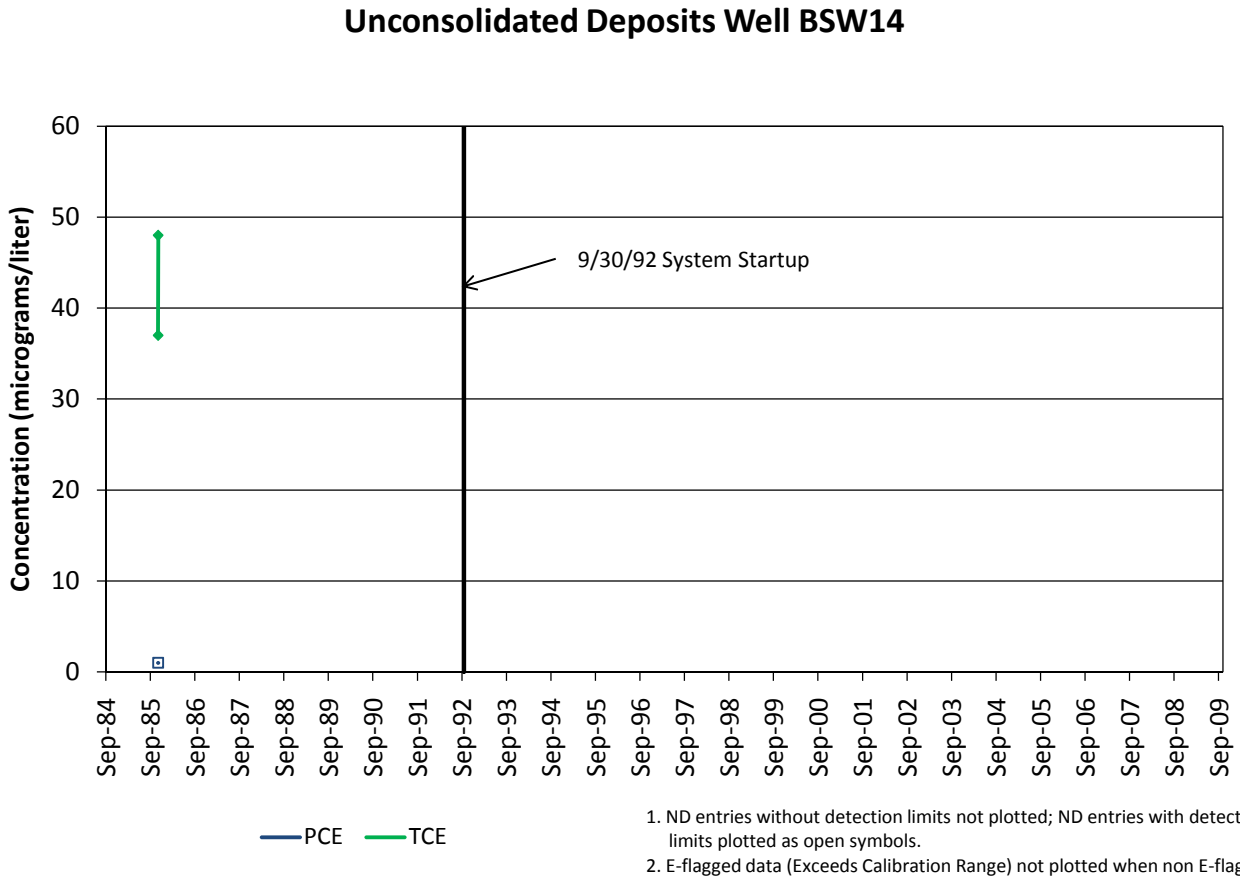
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



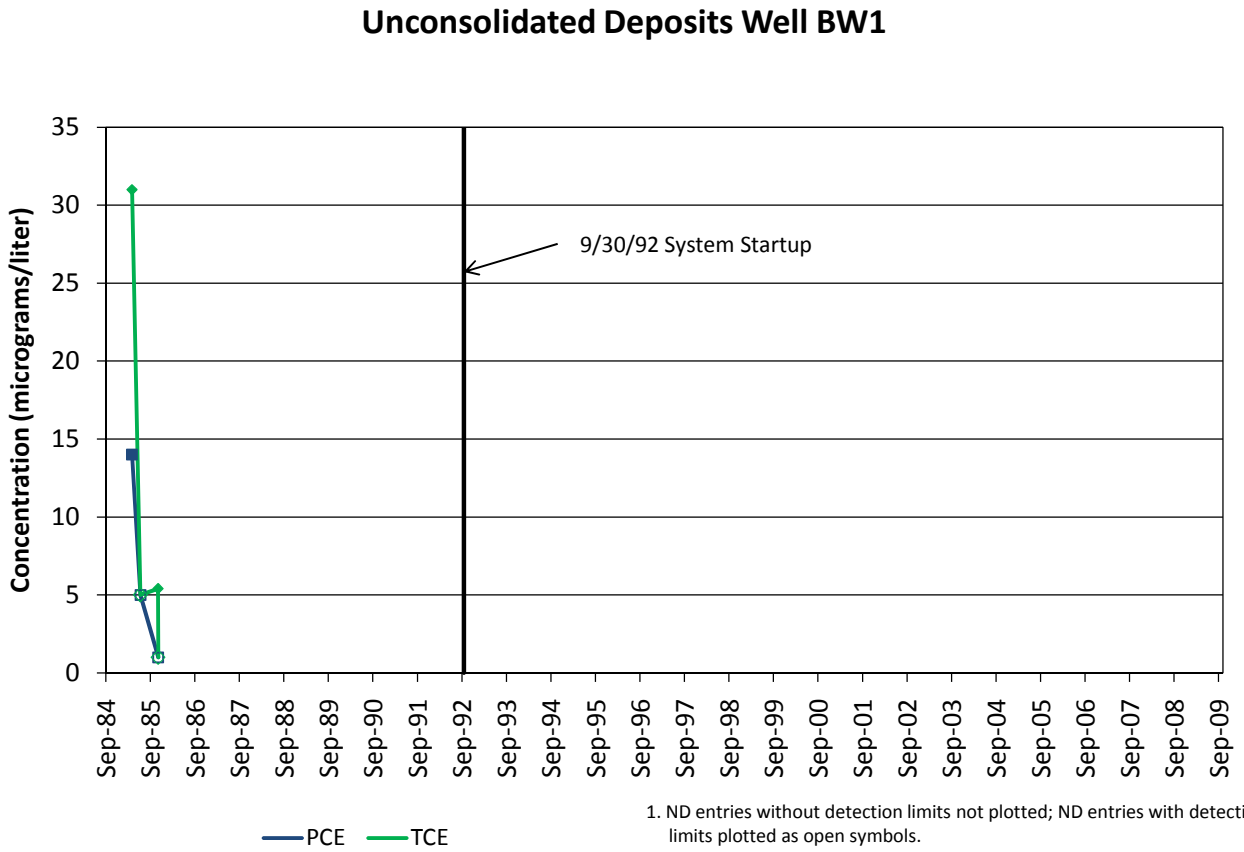
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



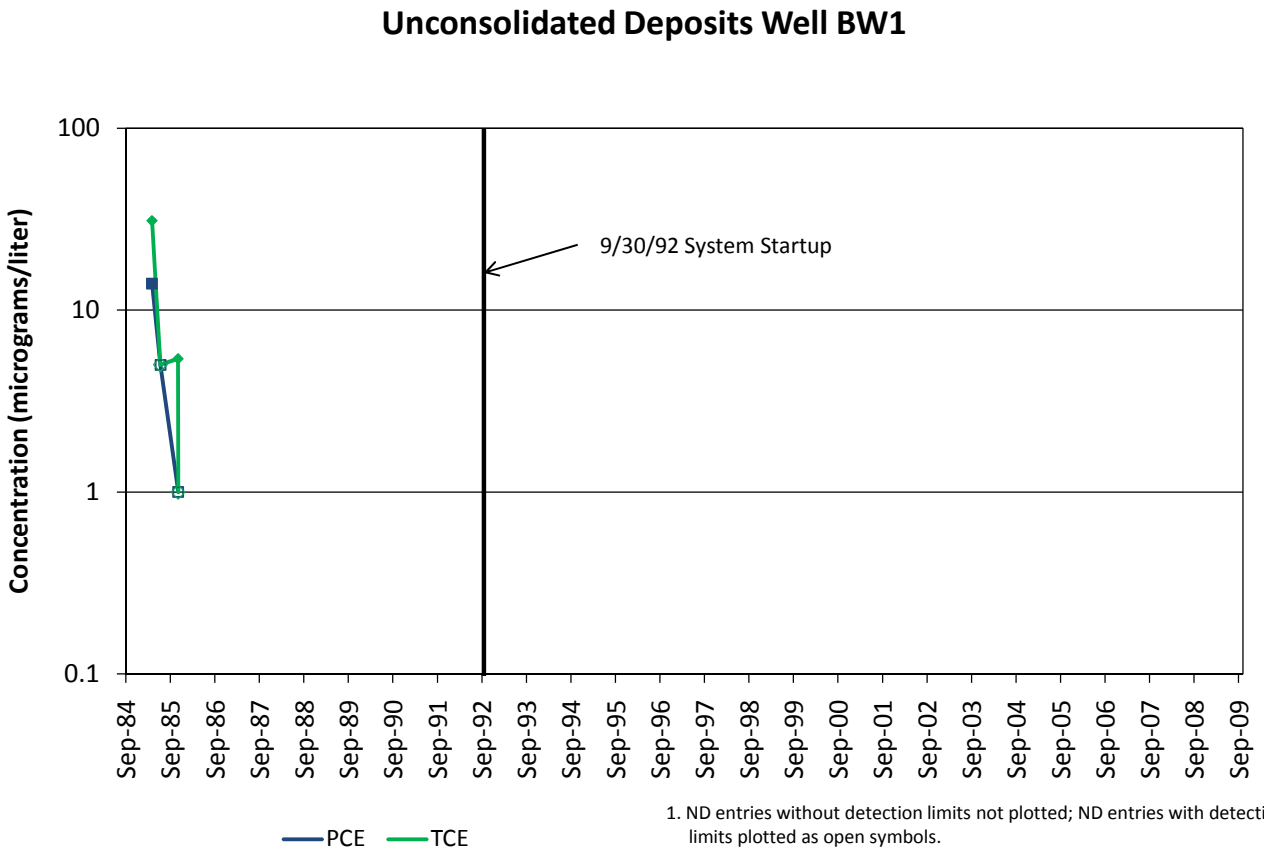
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



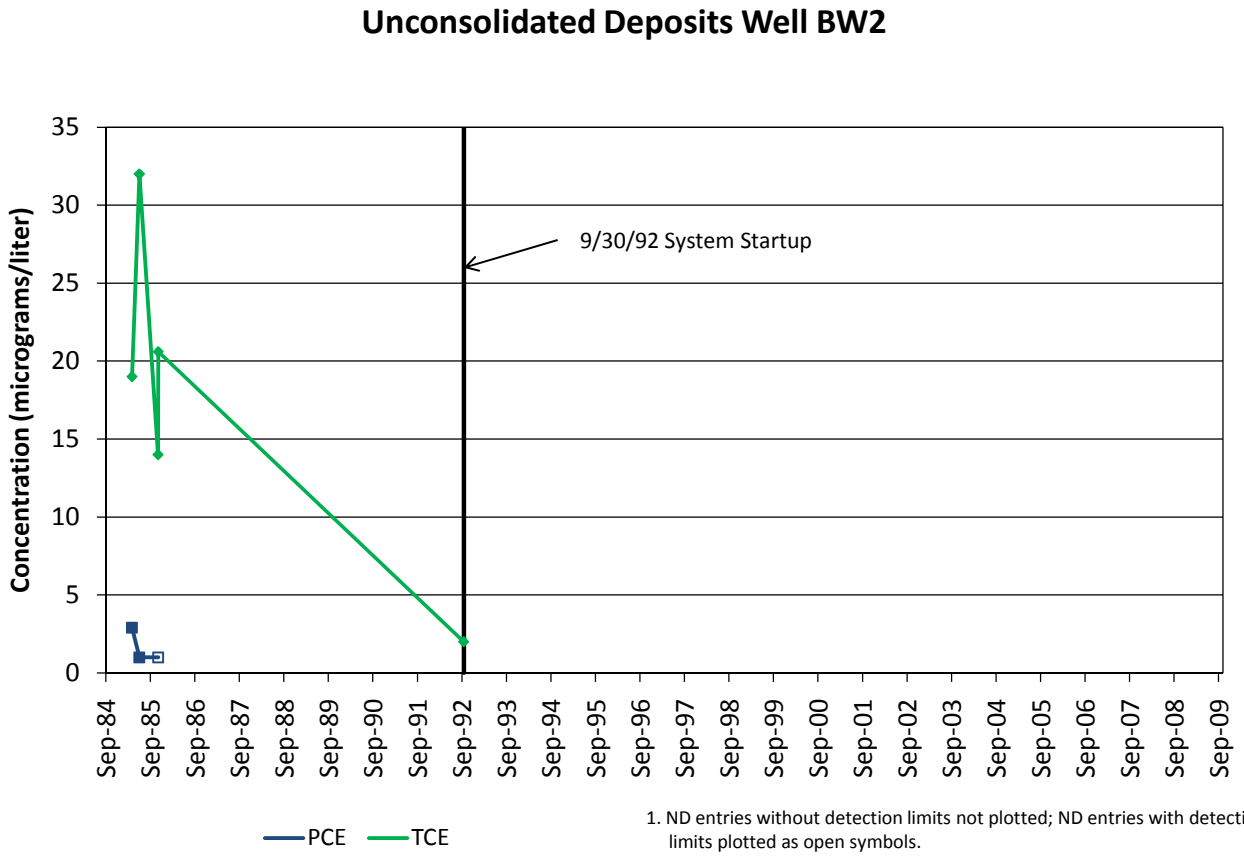
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



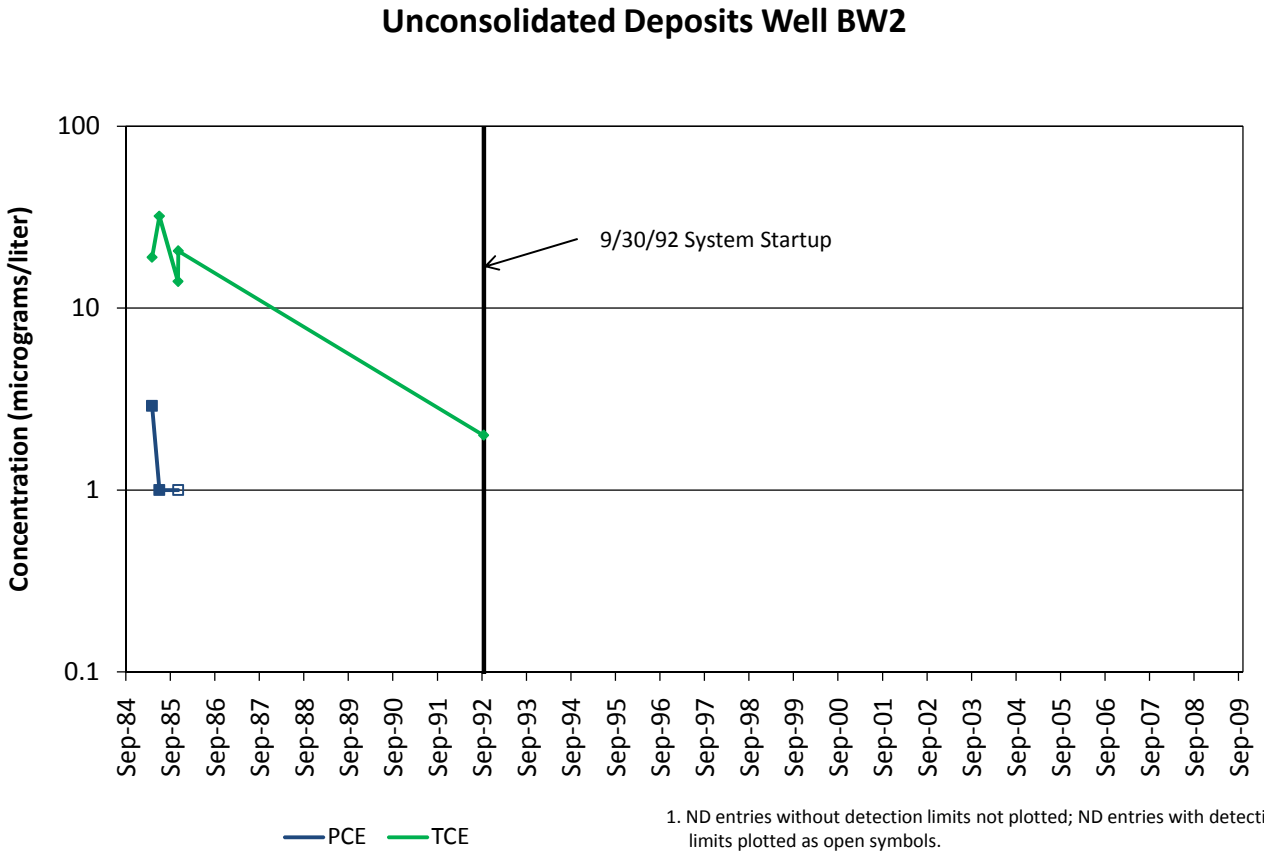
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



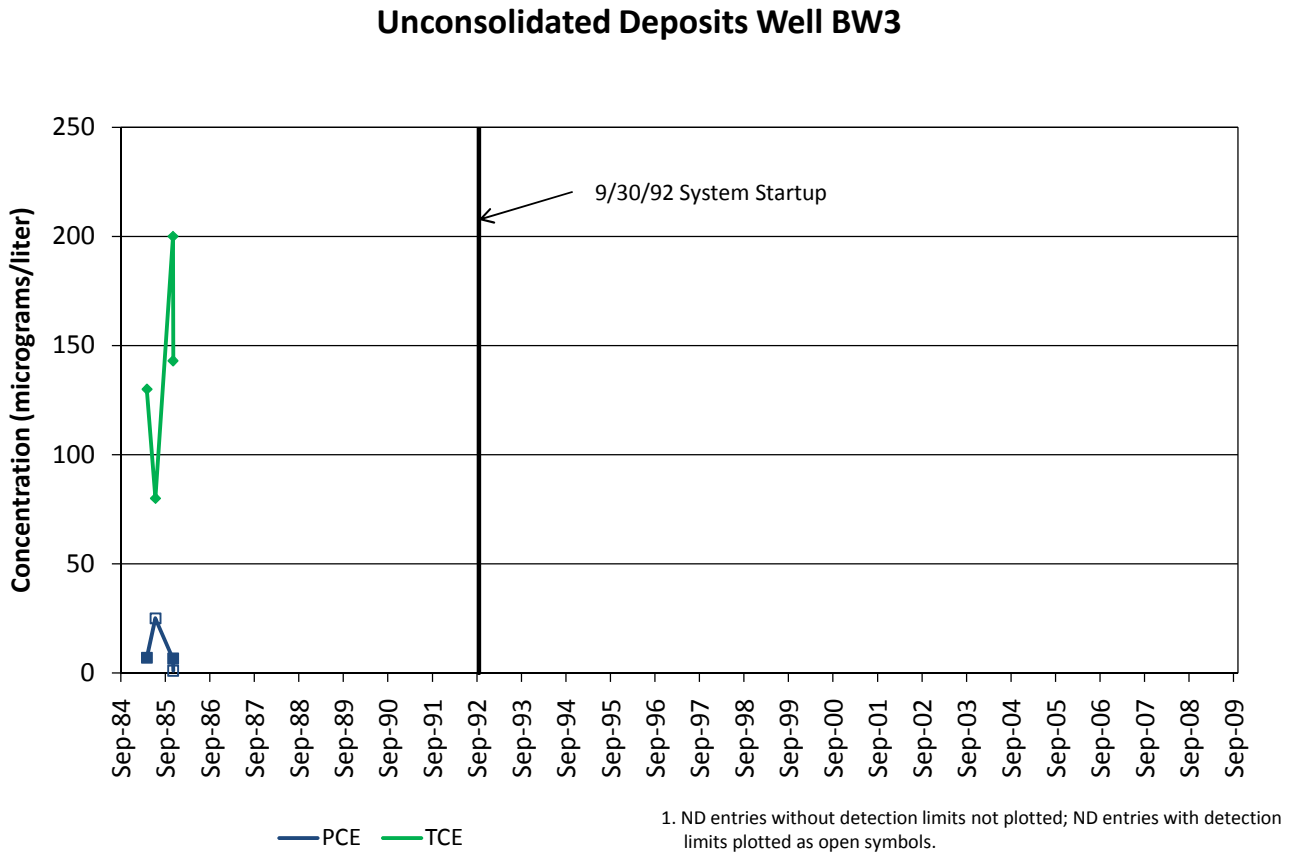
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



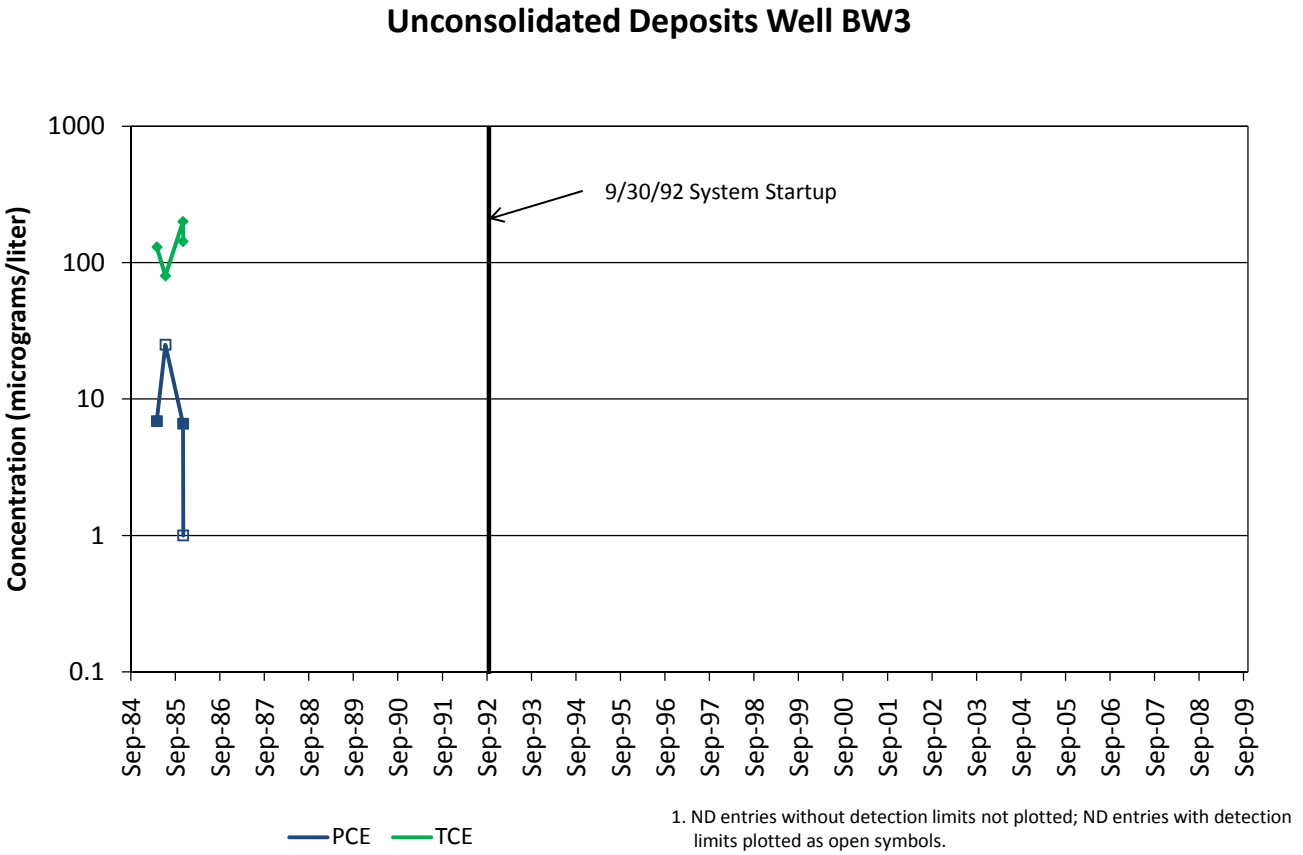
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



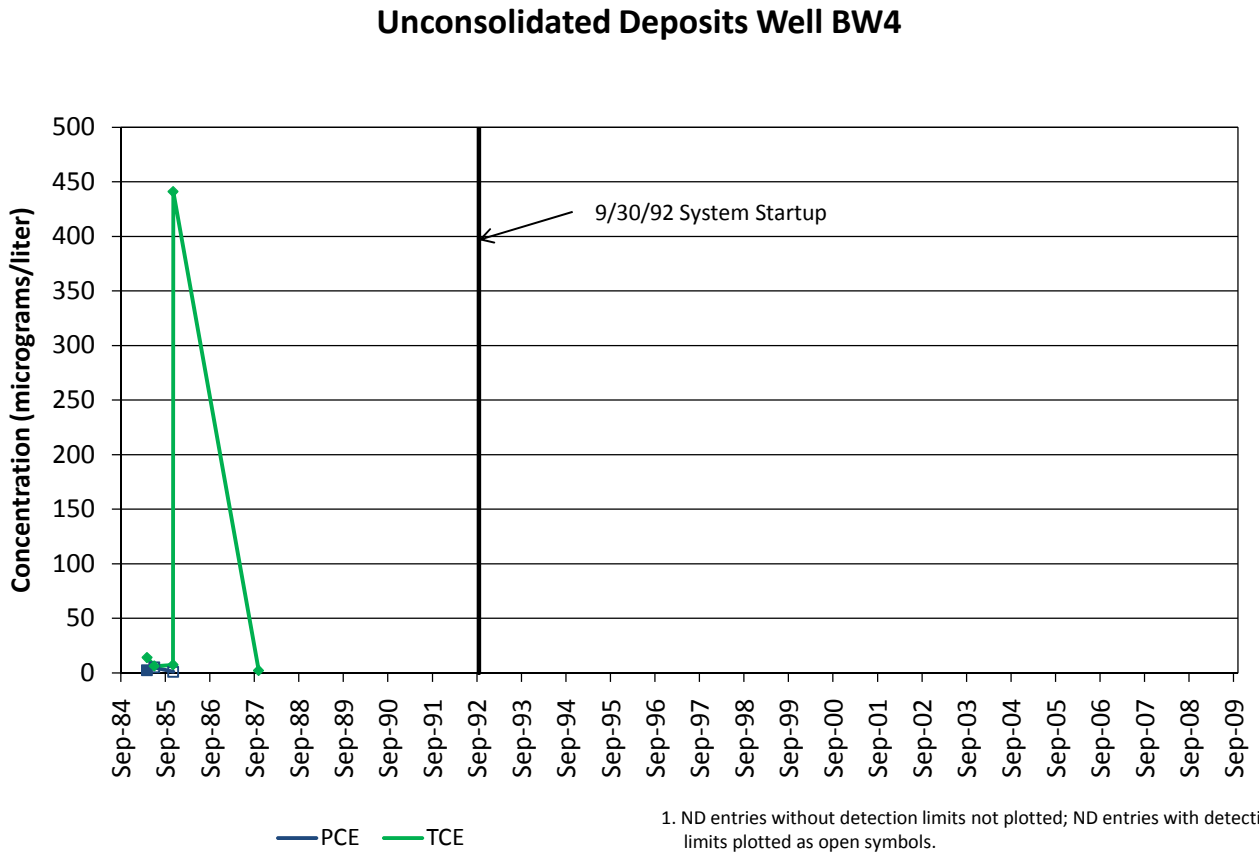
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



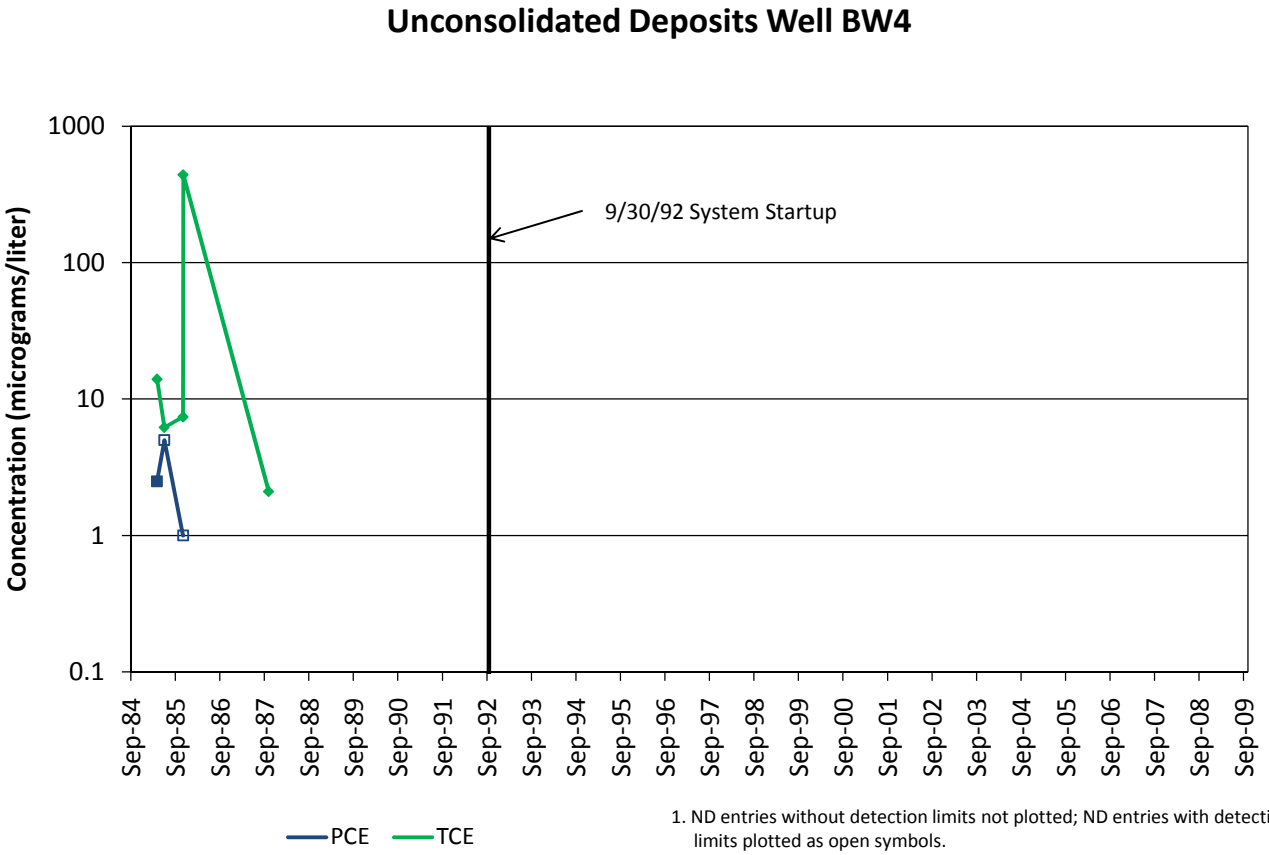
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



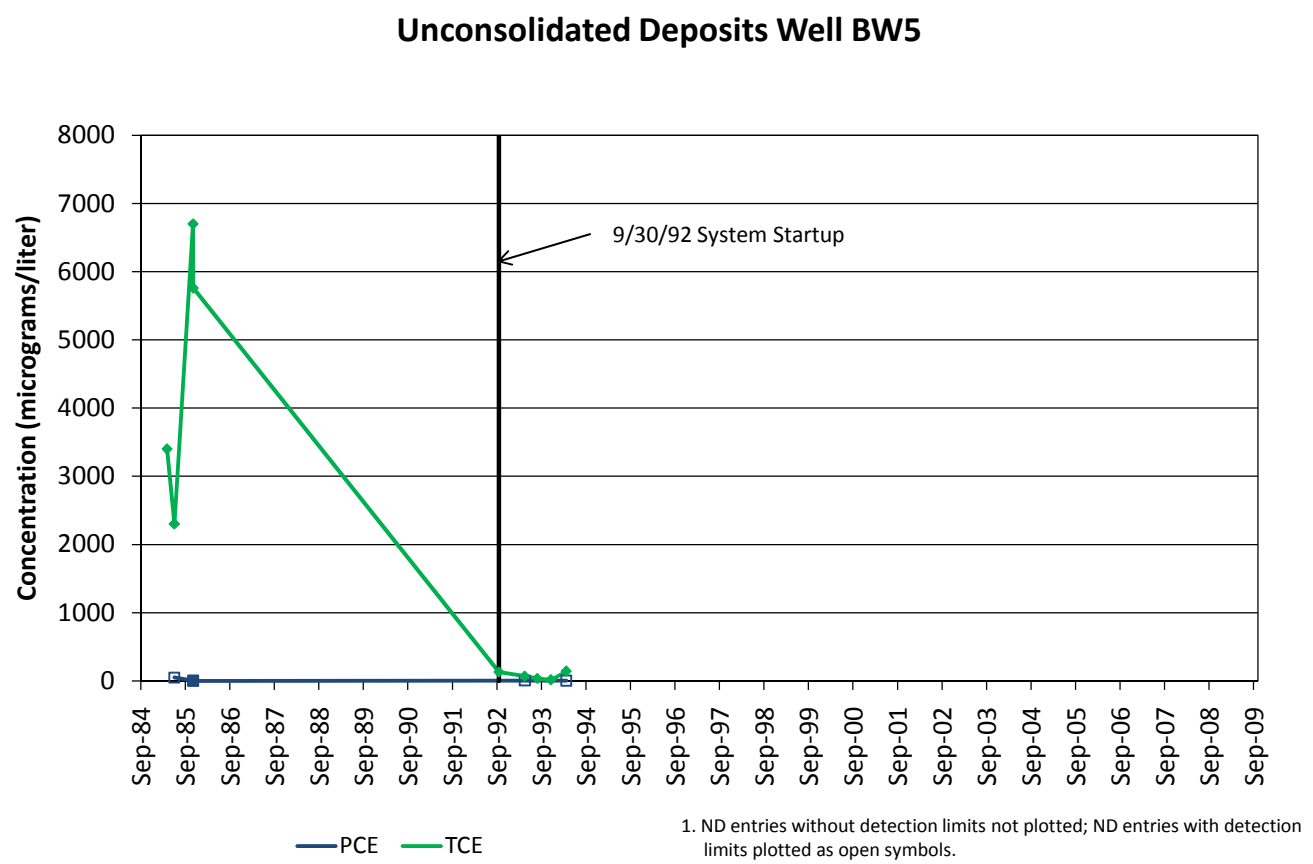
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



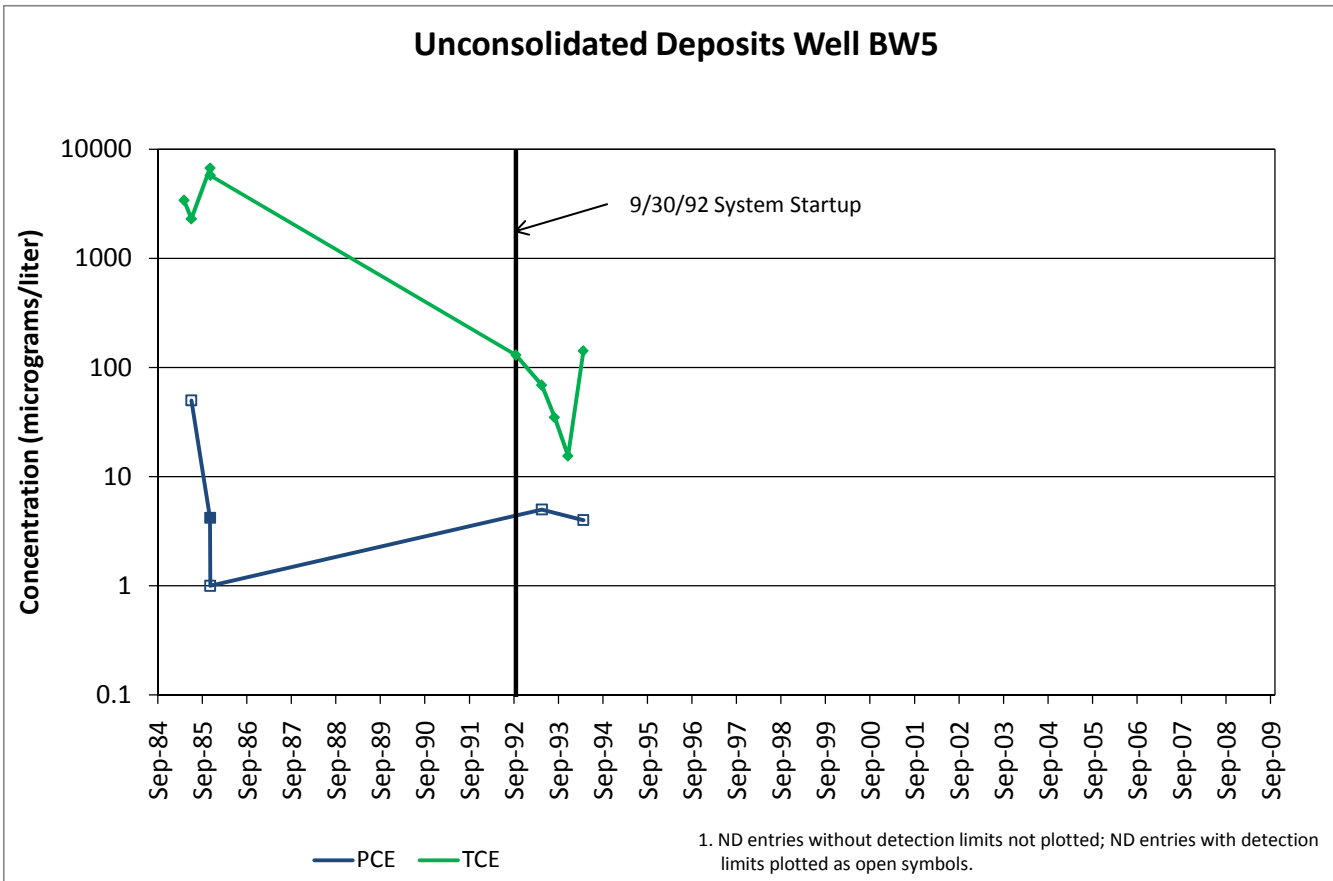
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



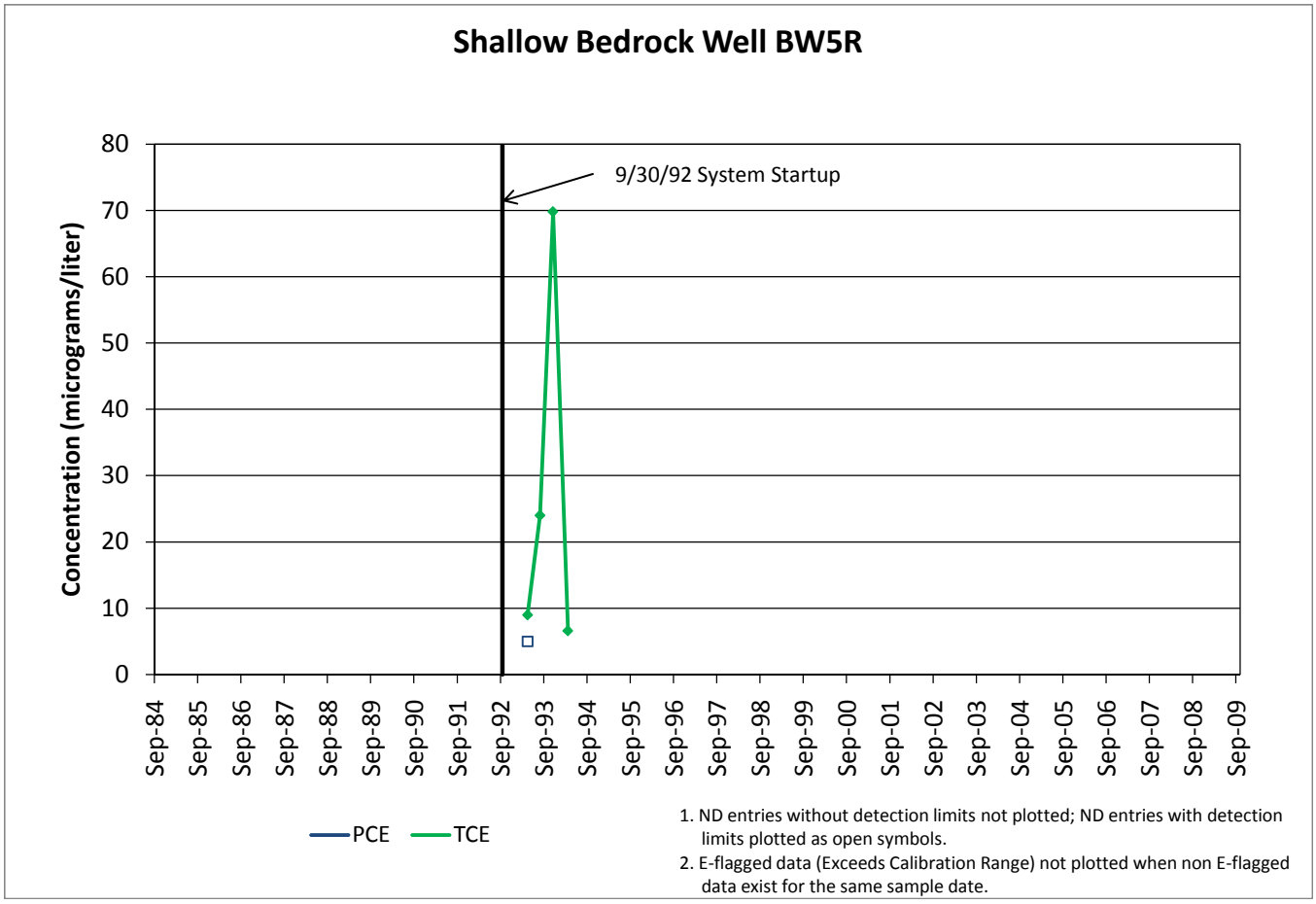
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

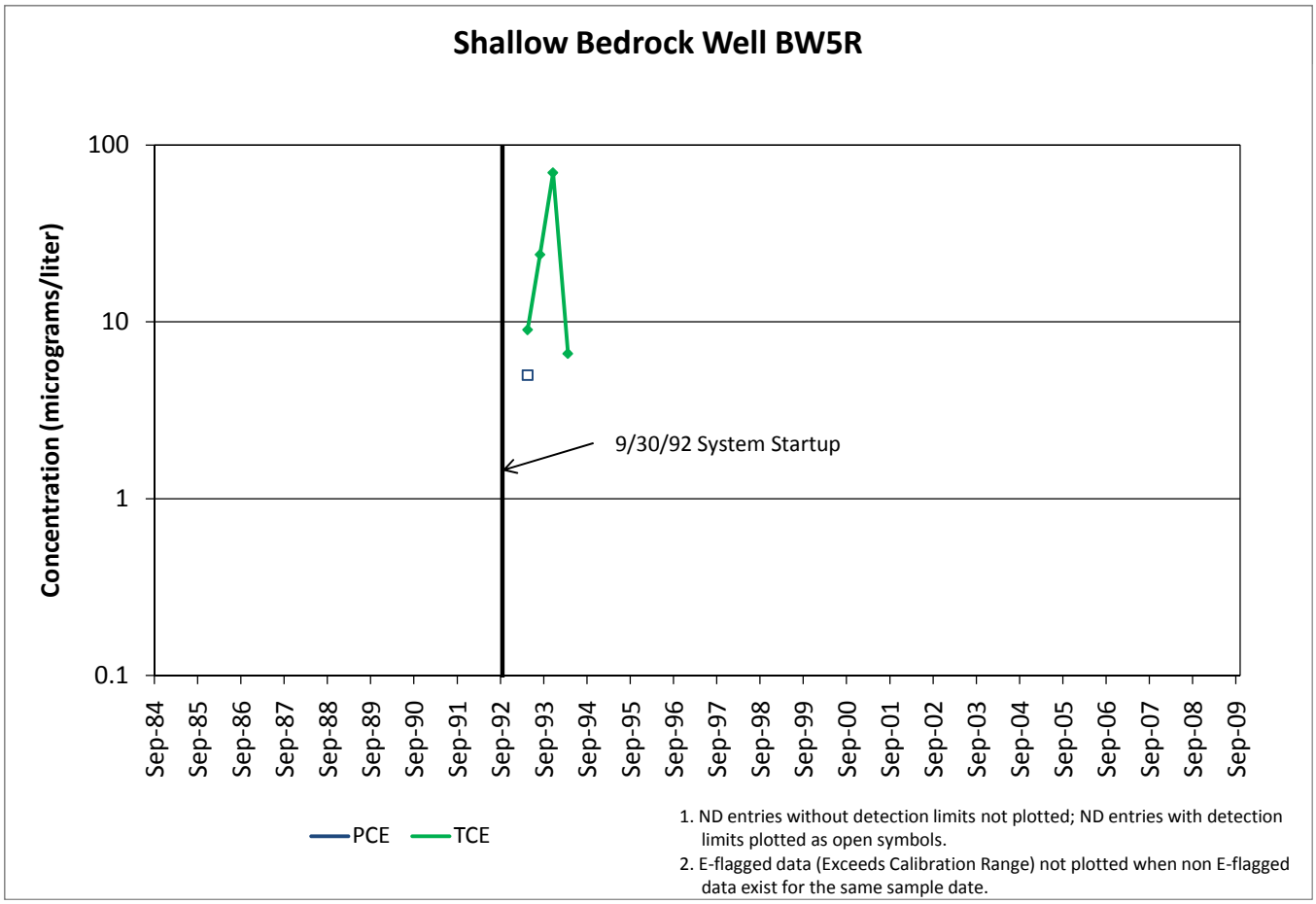


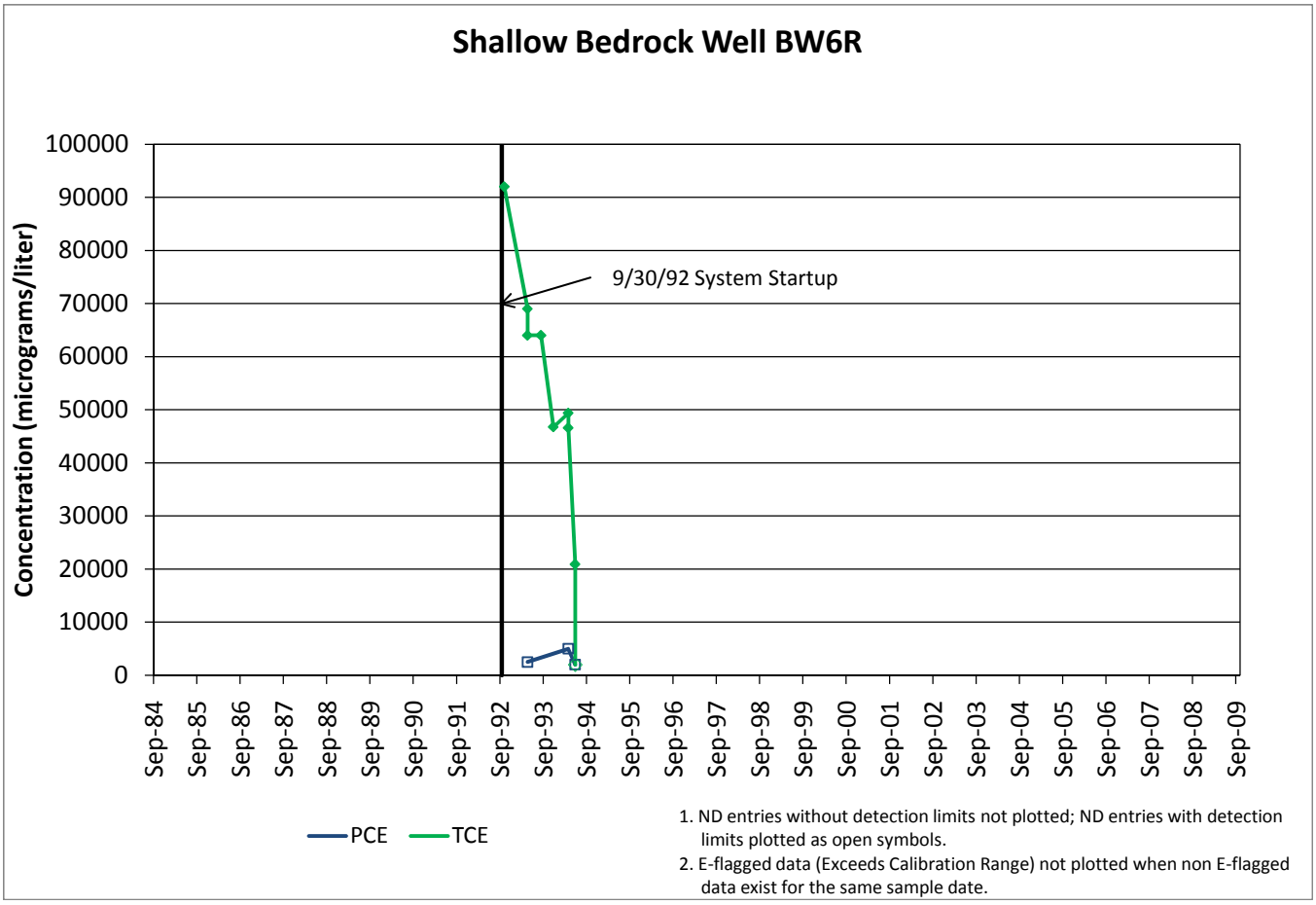
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

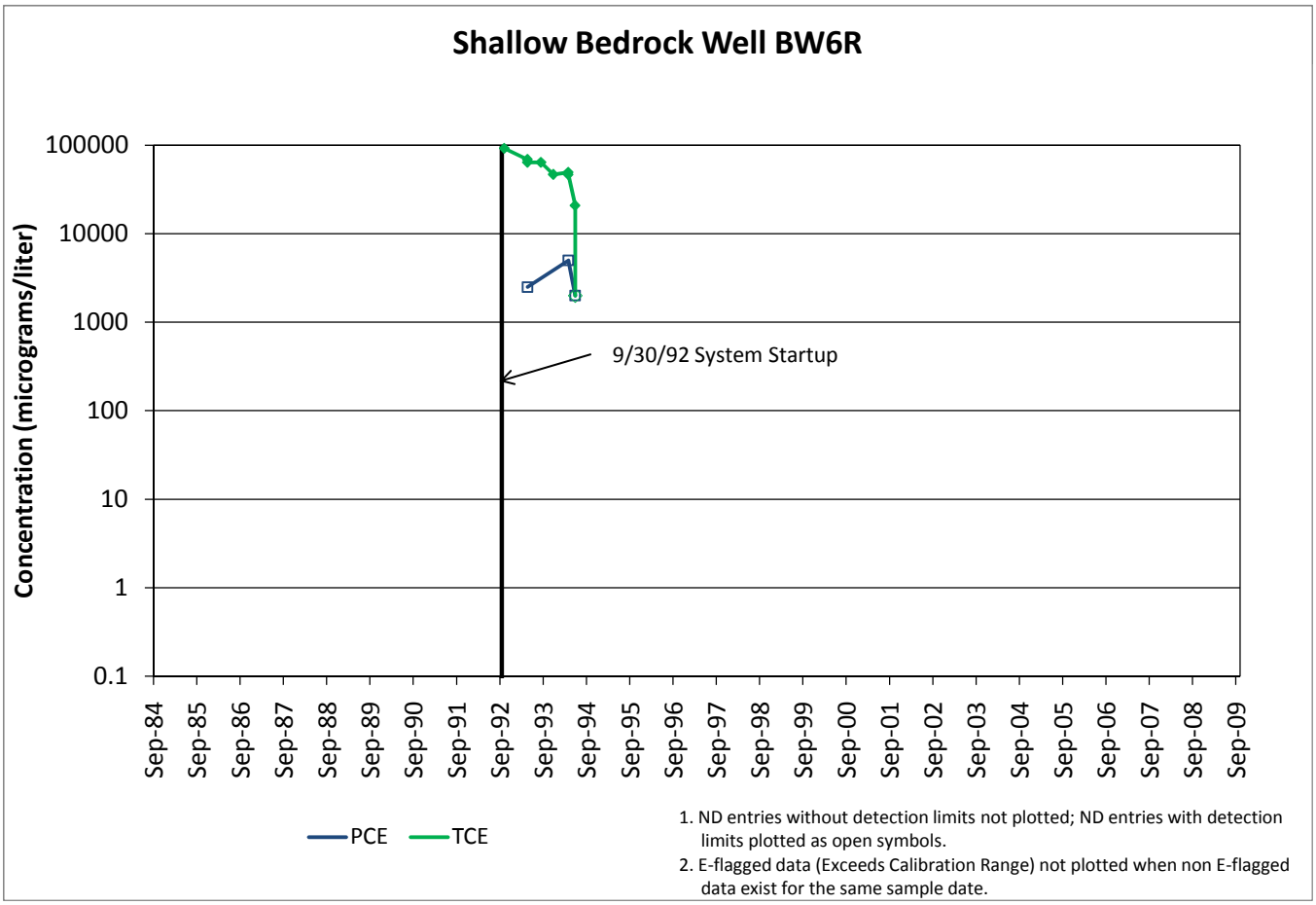


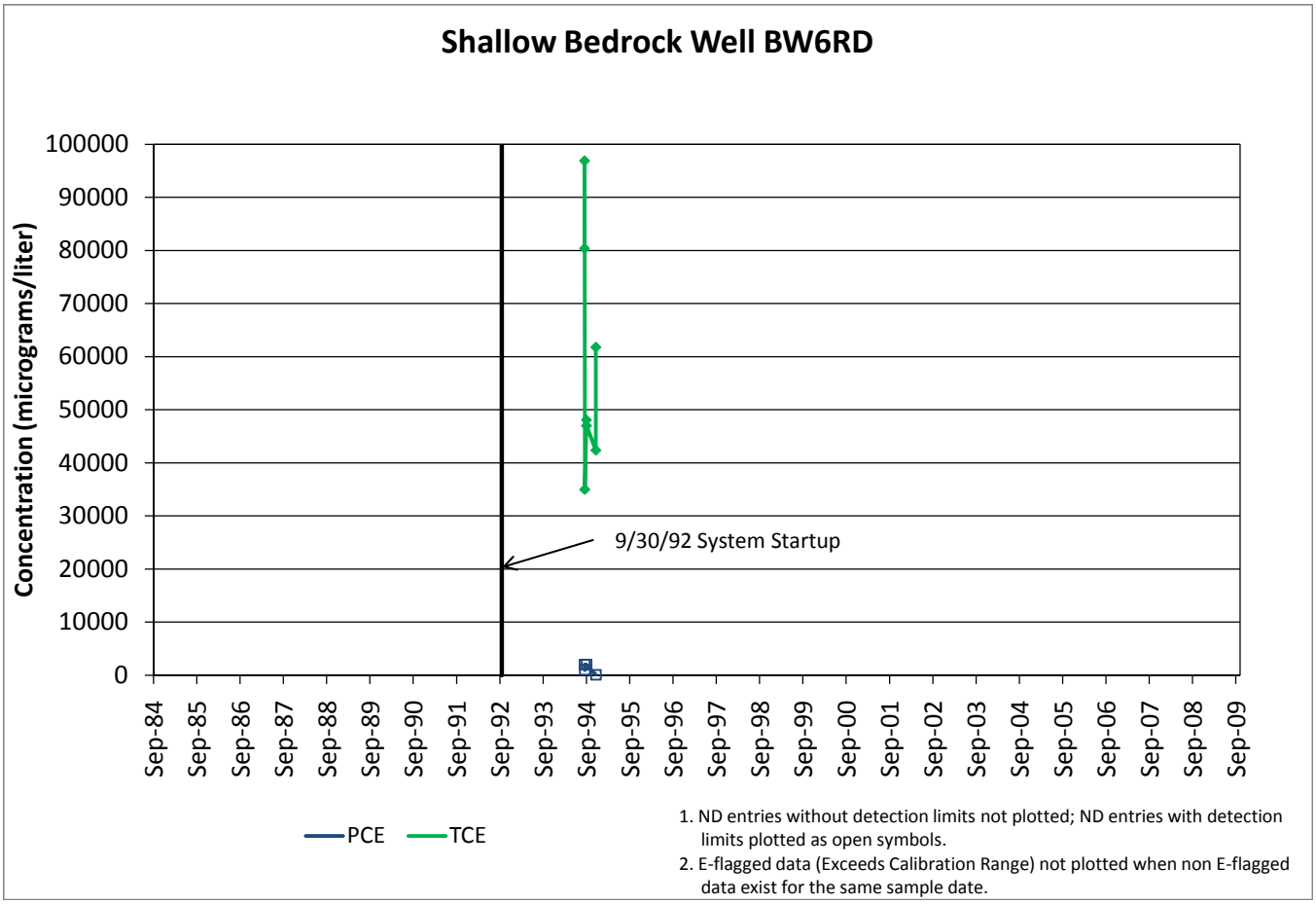
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

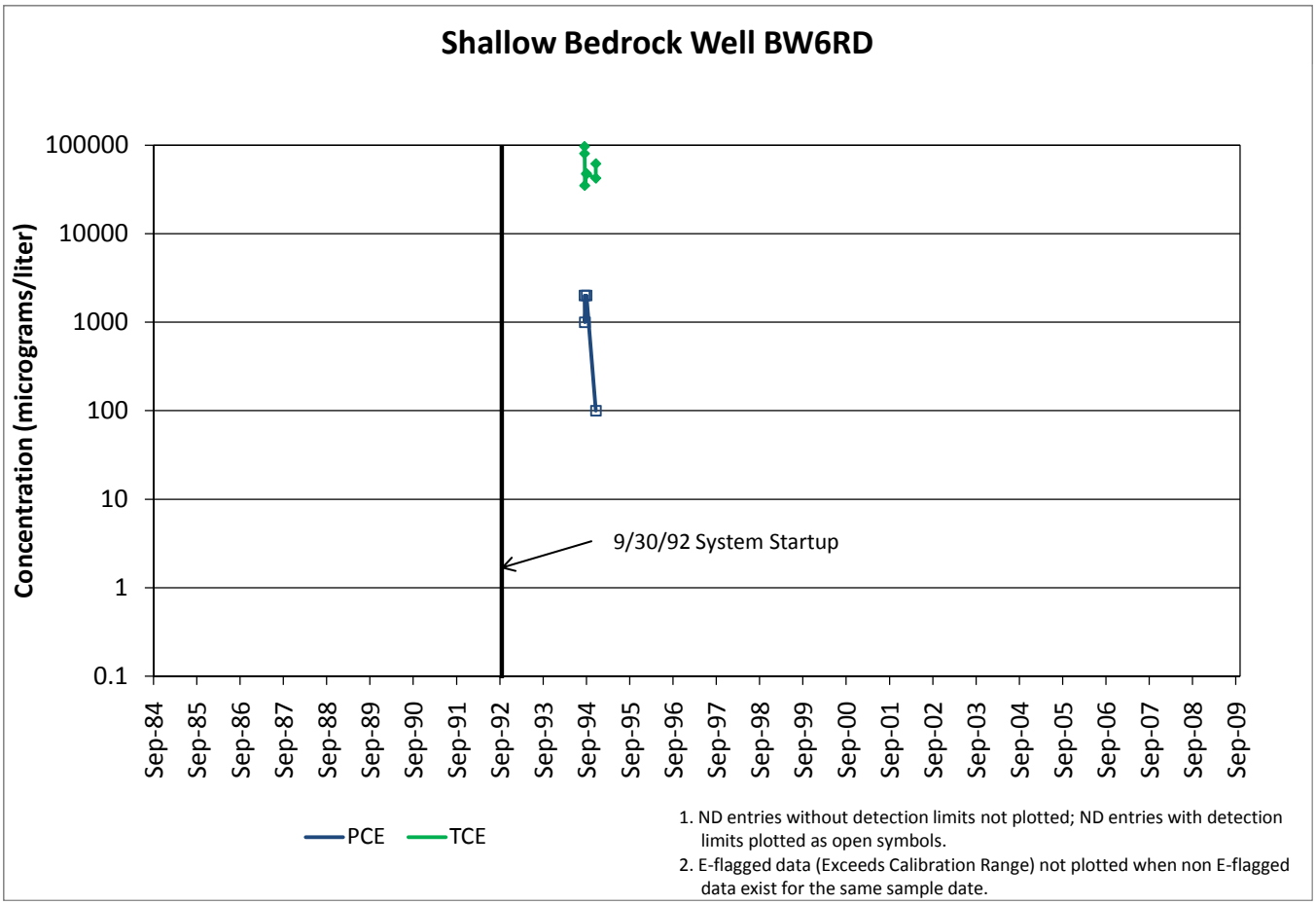

Shallow Bedrock Well BW5R
Concentration (micrograms/liter)
80
70
60
50
40
30
20
10
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

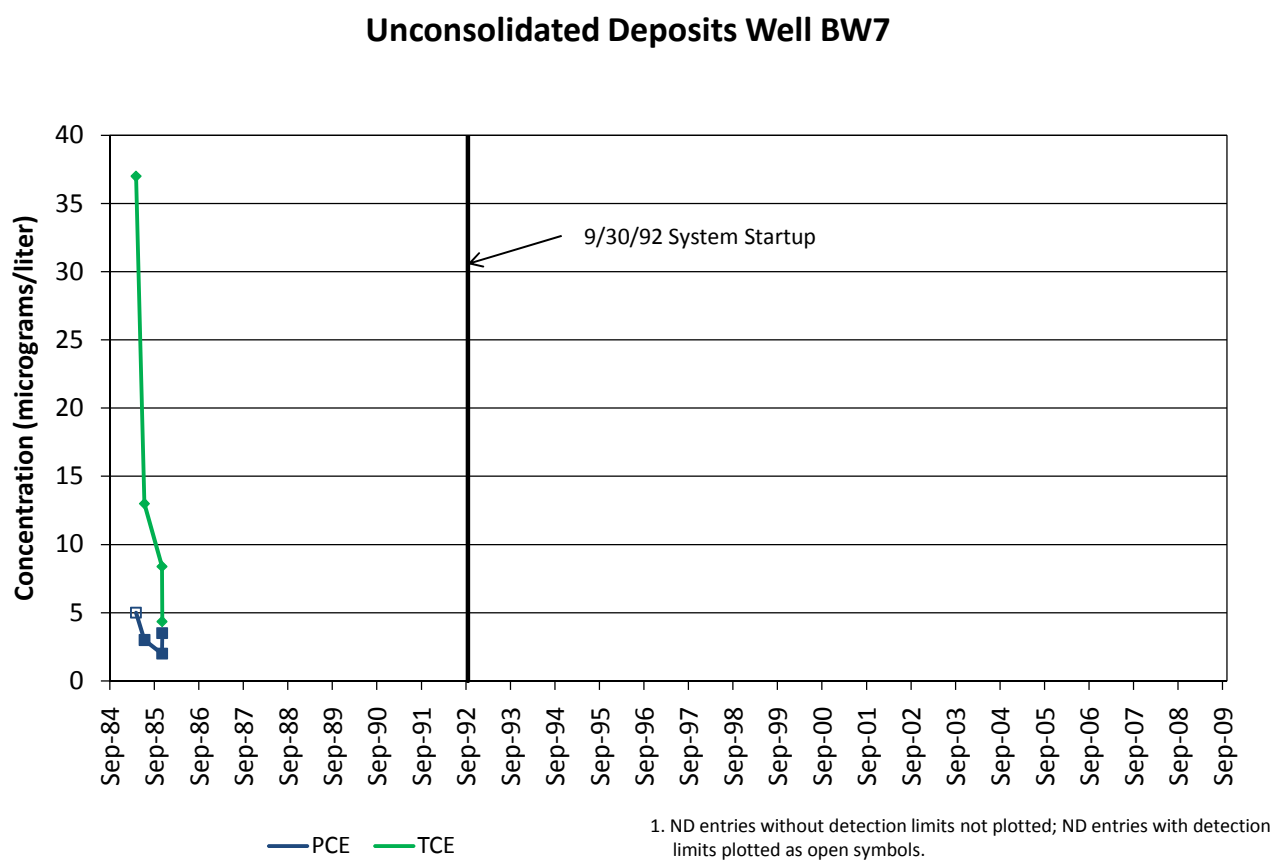

Shallow Bedrock Well BW5R
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well BW6R
Concentration (micrograms/liter)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

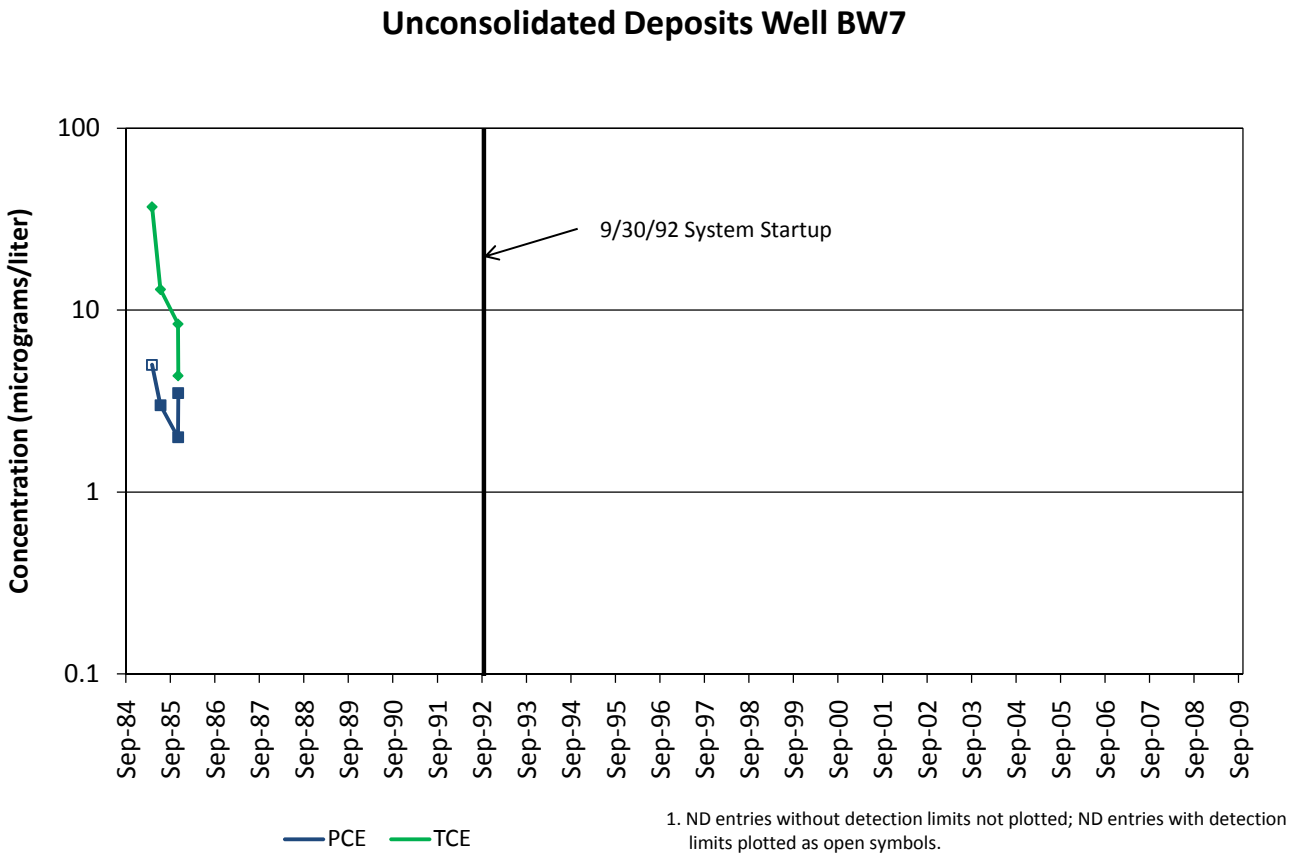

Shallow Bedrock Well BW6R
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well BW6RD
Concentration (micrograms/liter)
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

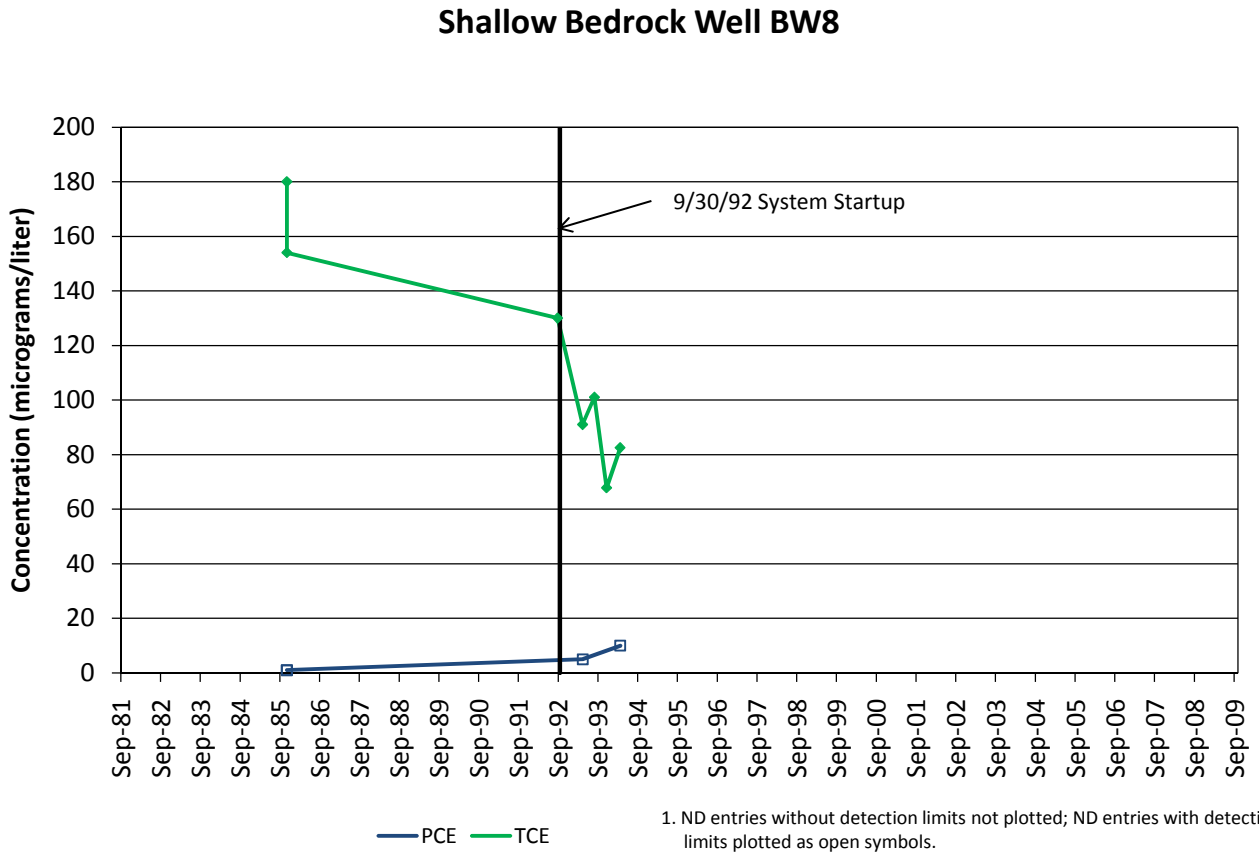

Shallow Bedrock Well BW6RD
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



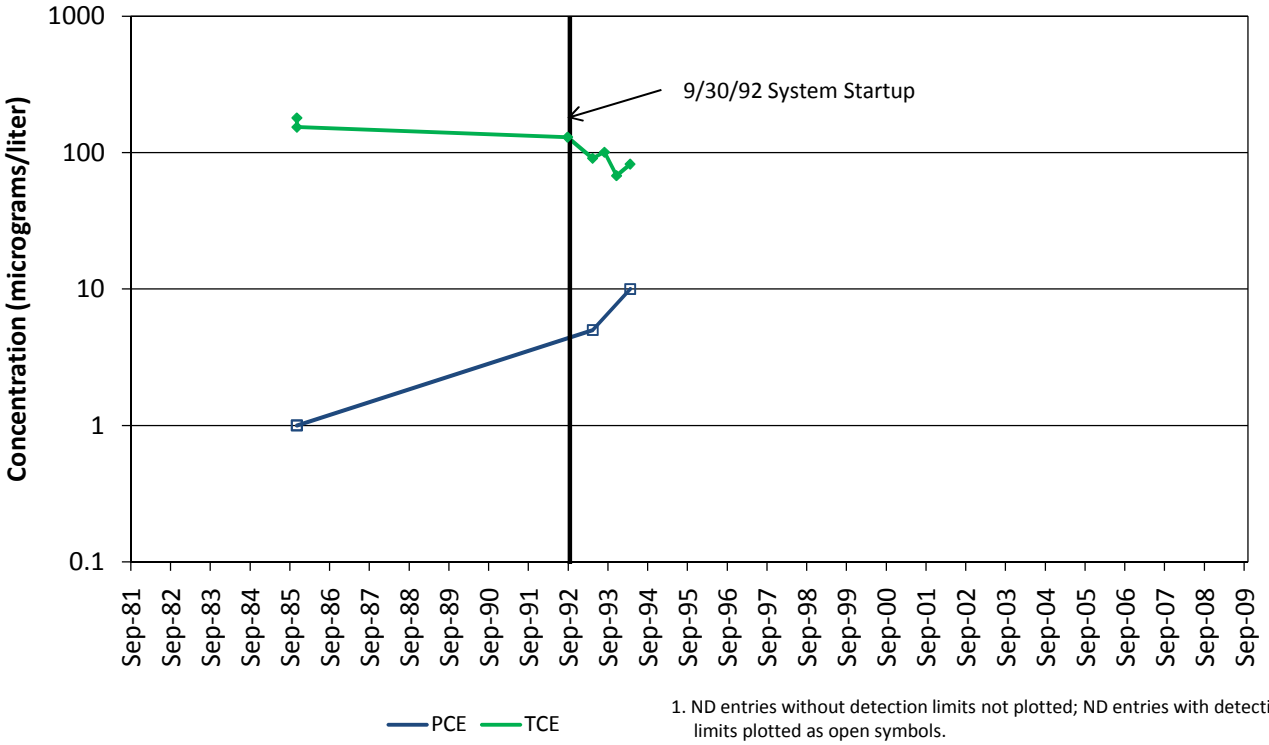
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



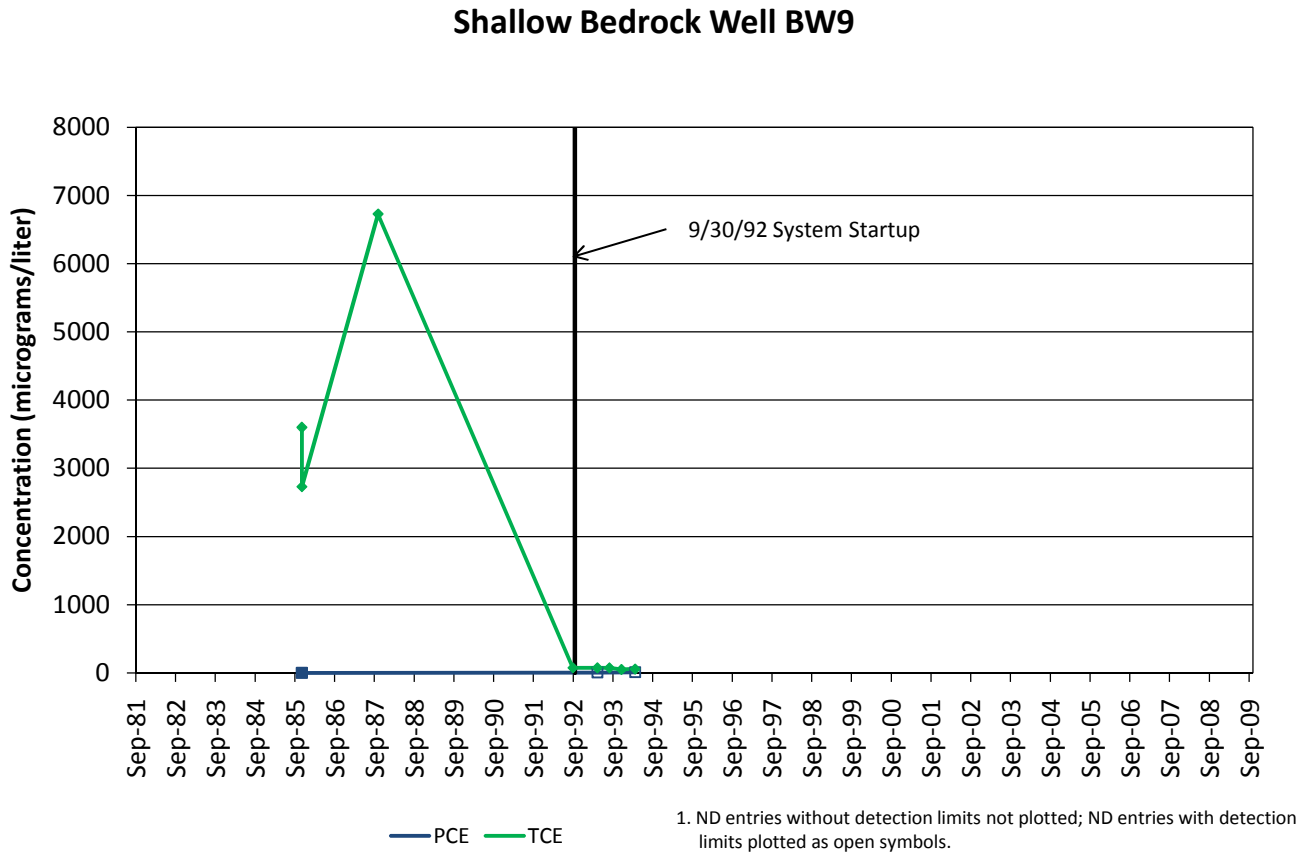
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



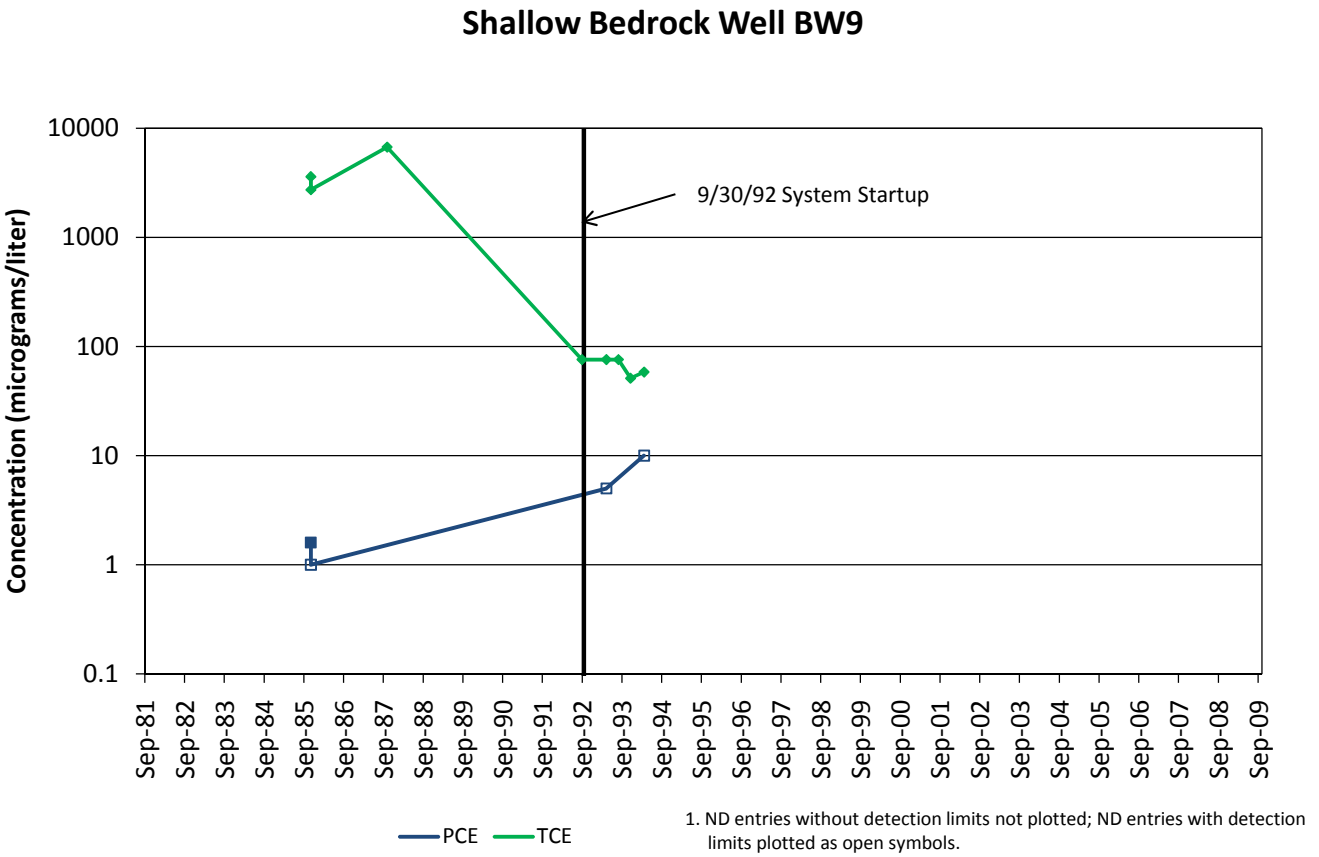
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



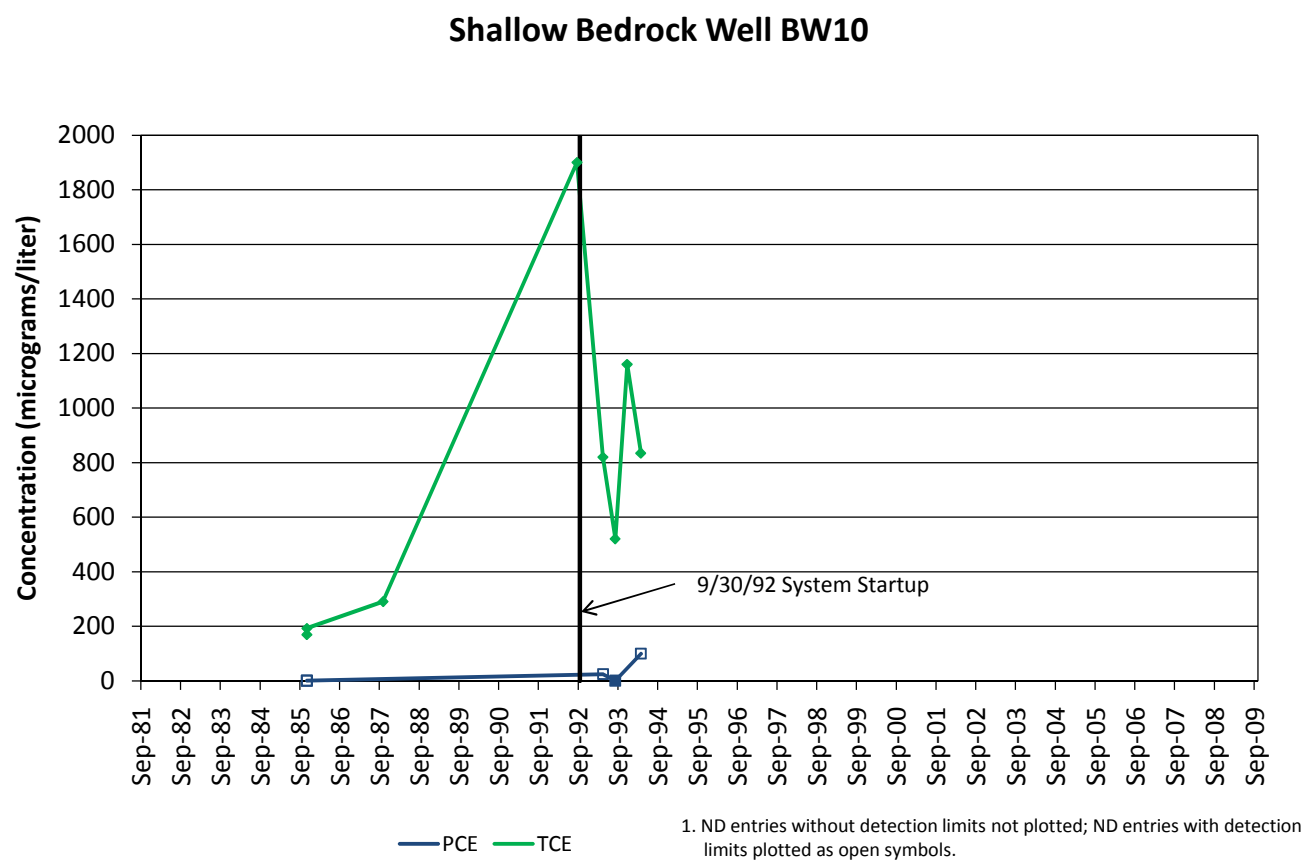
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



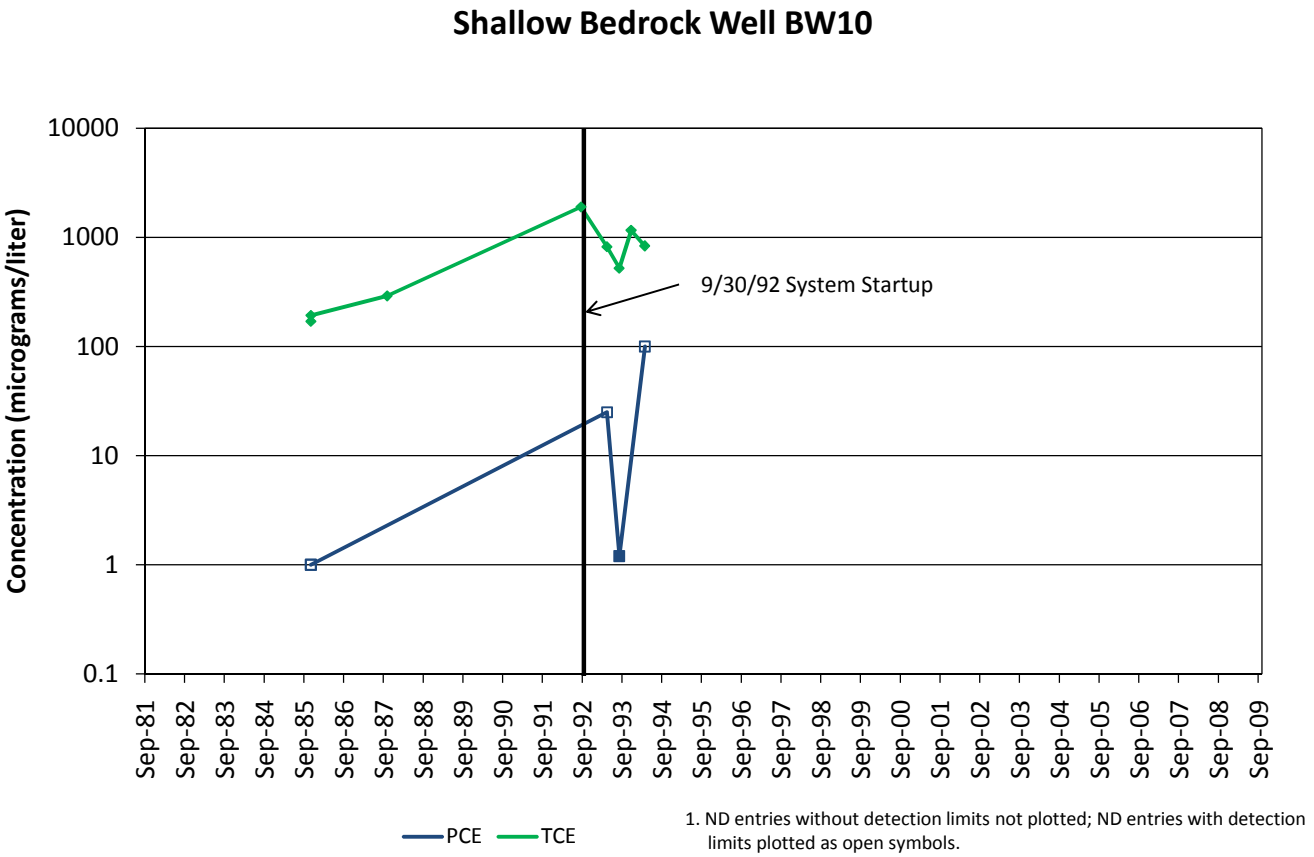
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



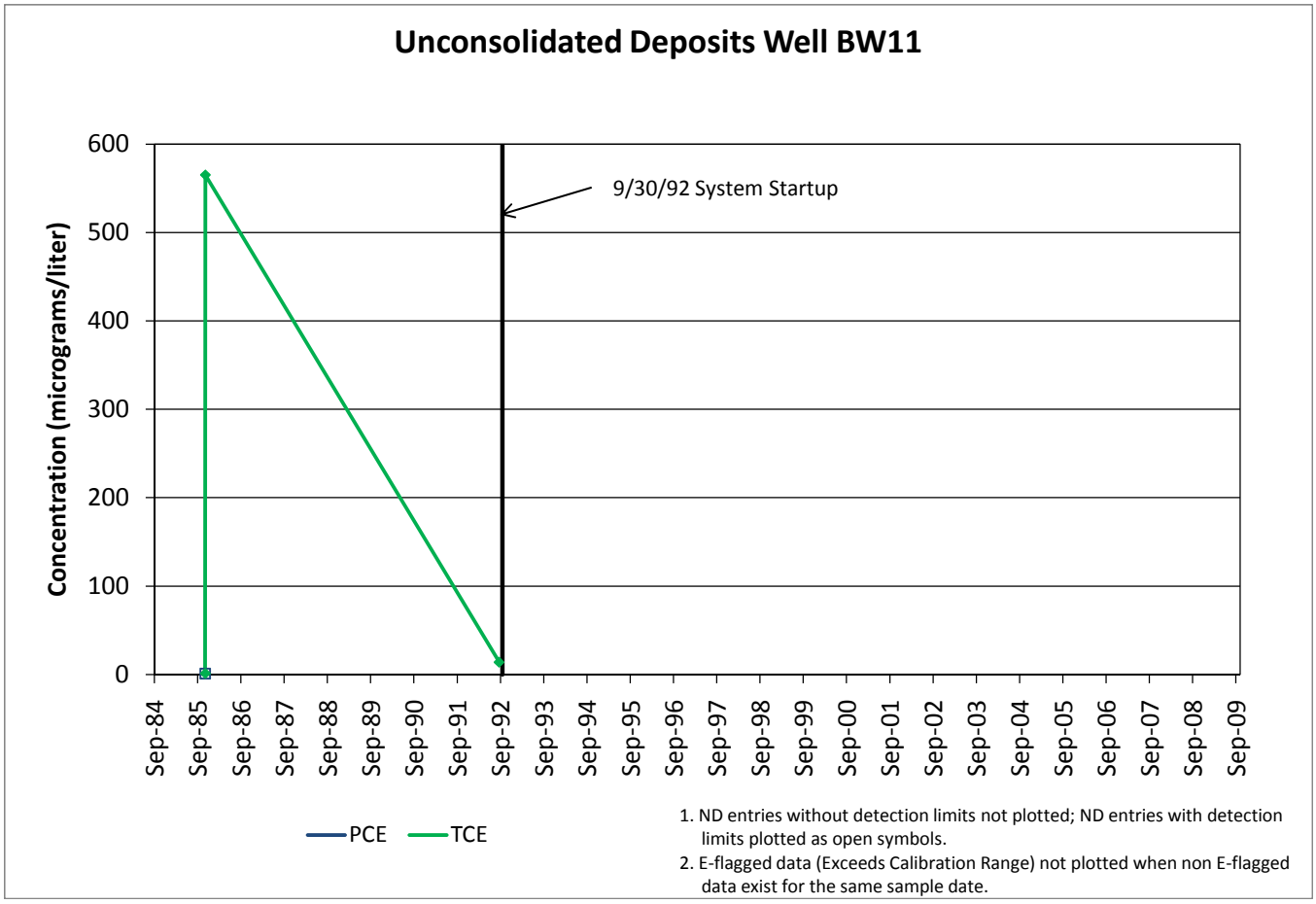
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

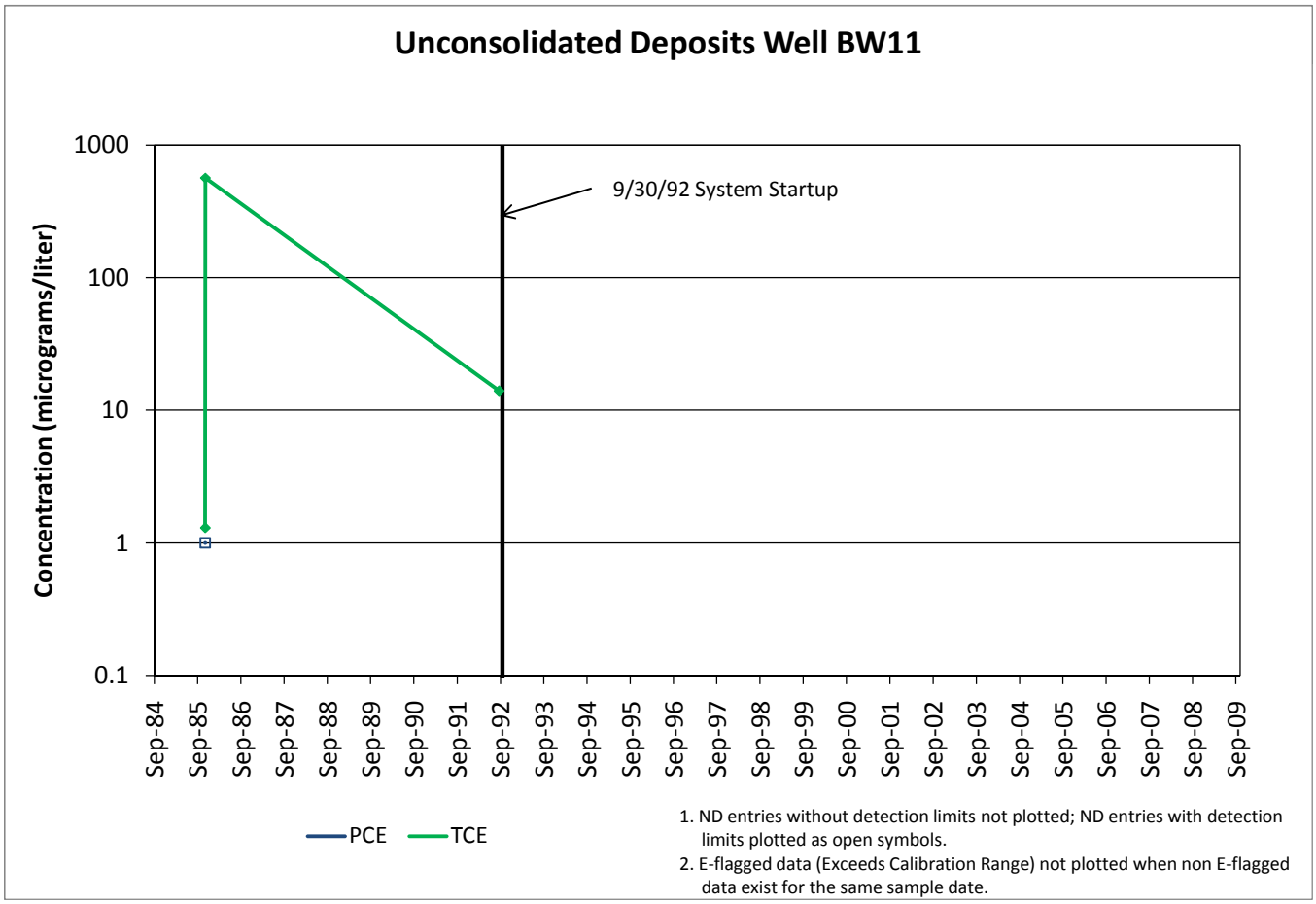


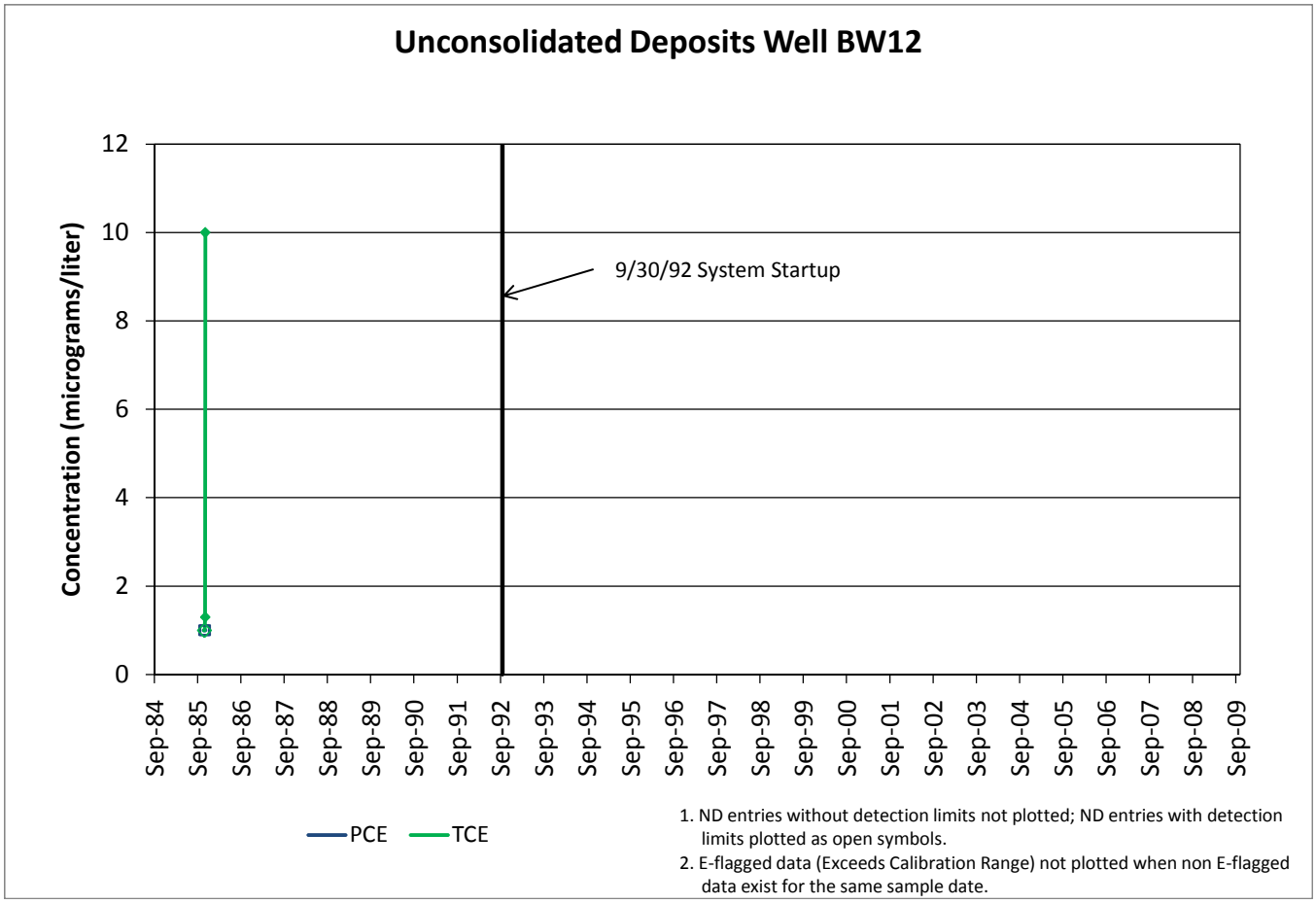
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

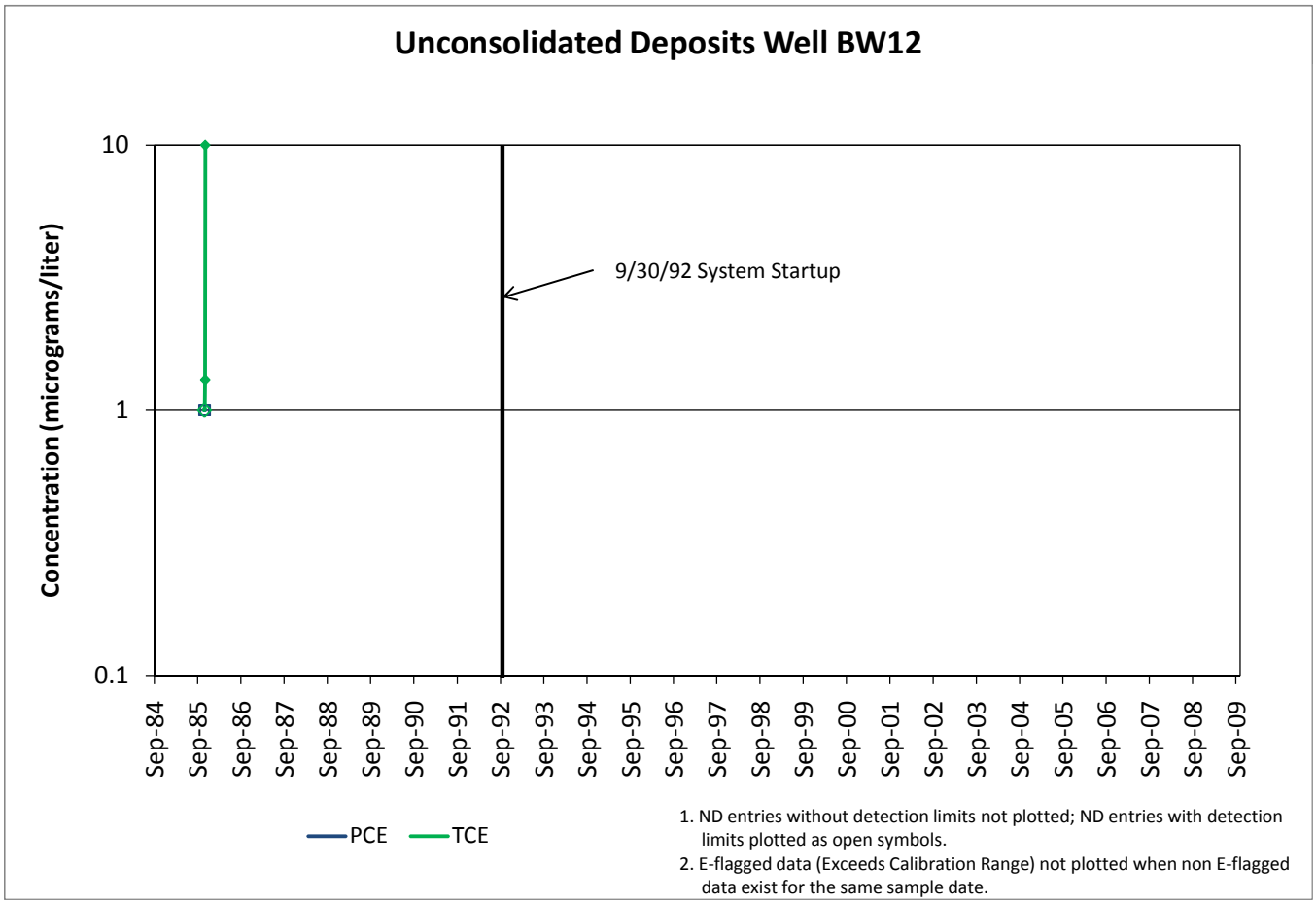


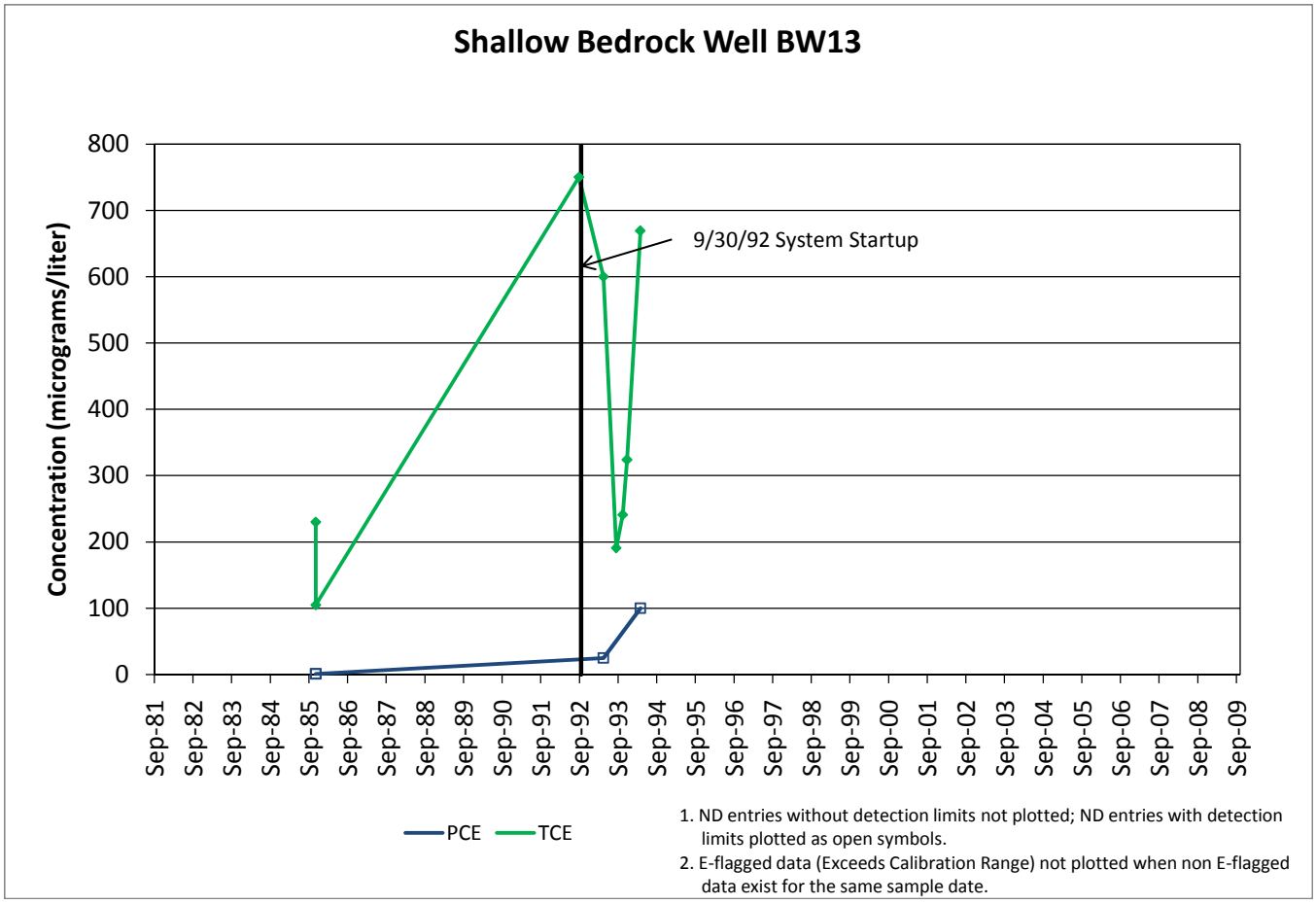
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

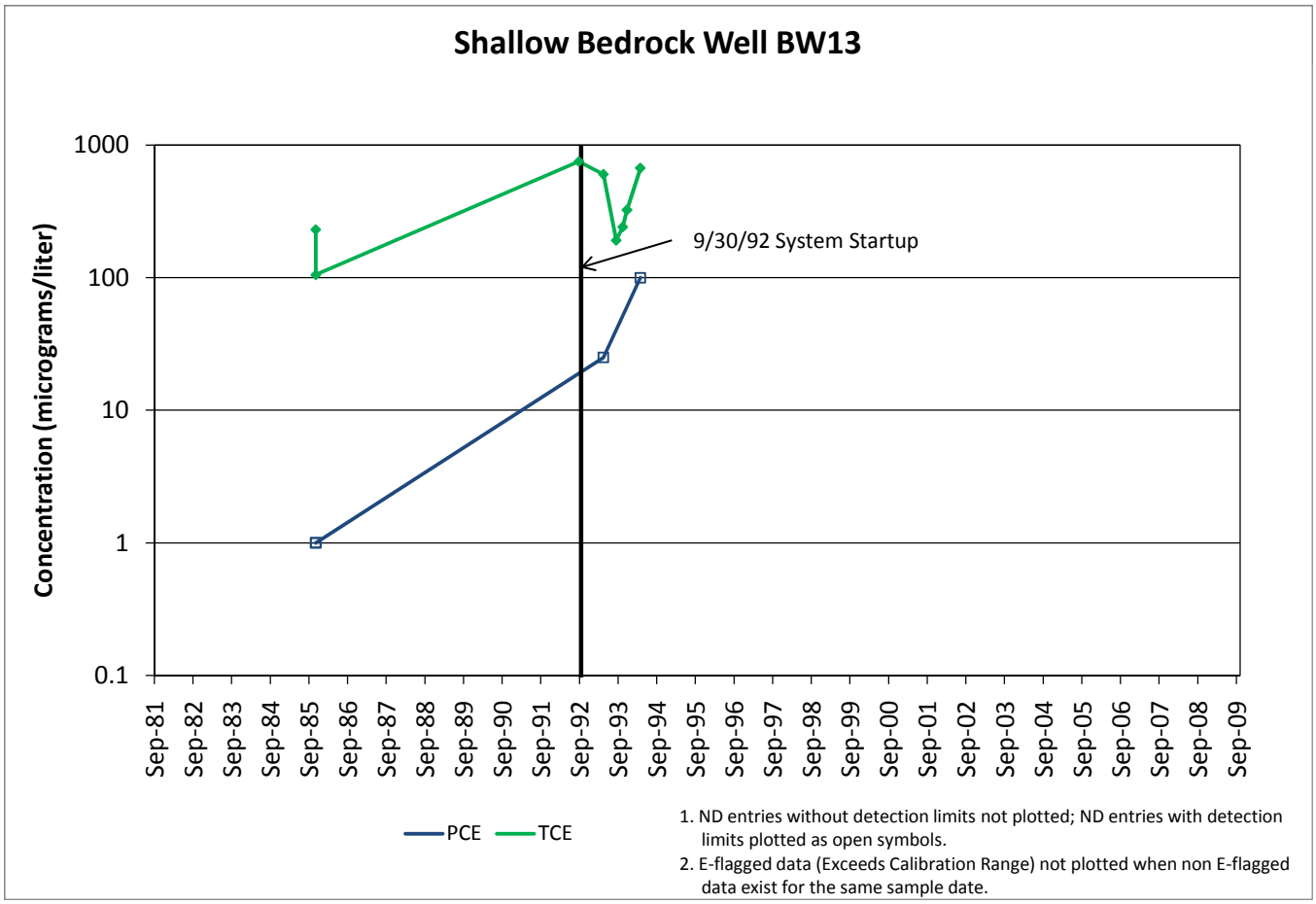

Unconsolidated Deposits Well BW11
Concentration (micrograms/liter)
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

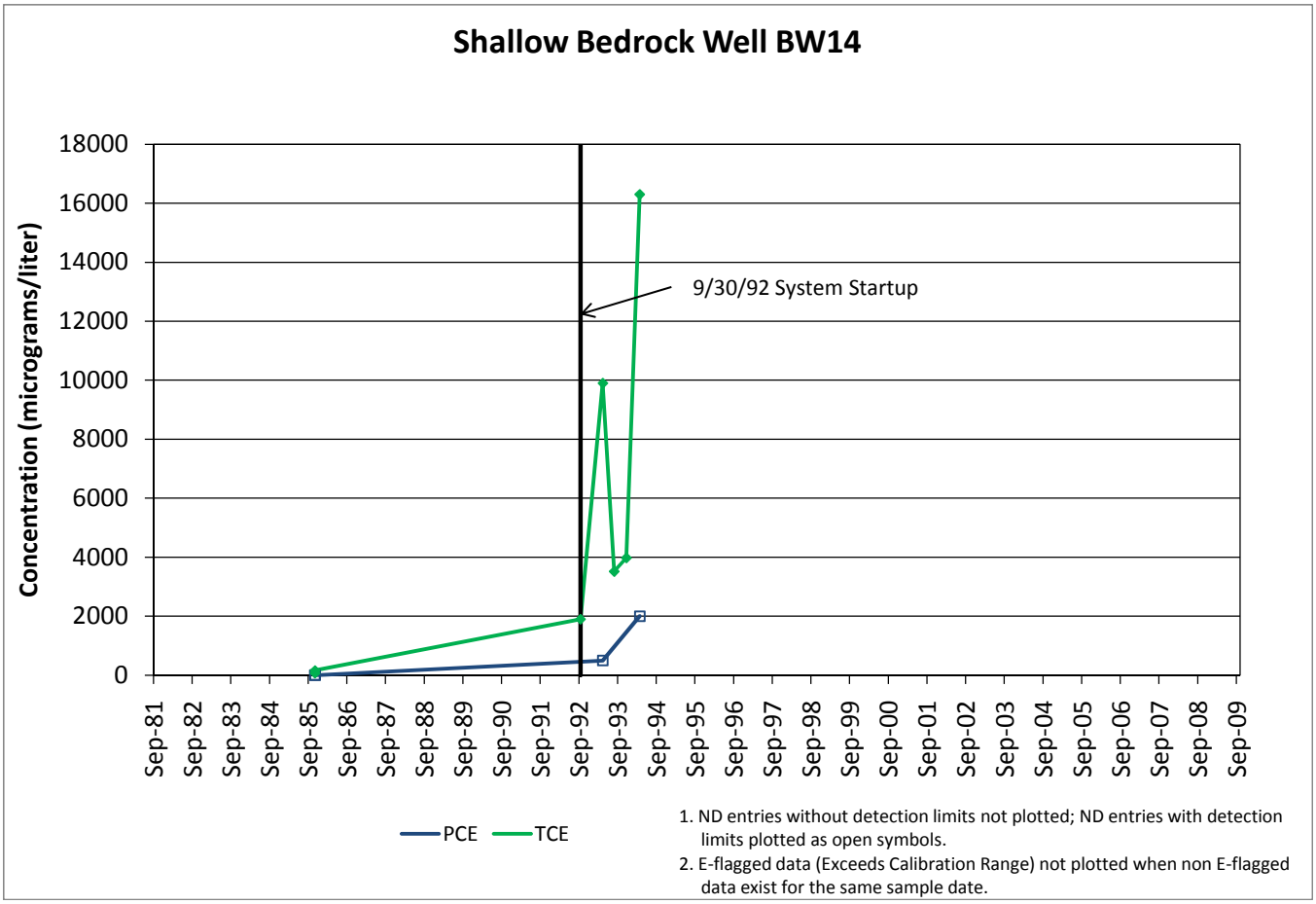

Unconsolidated Deposits Well BW11
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

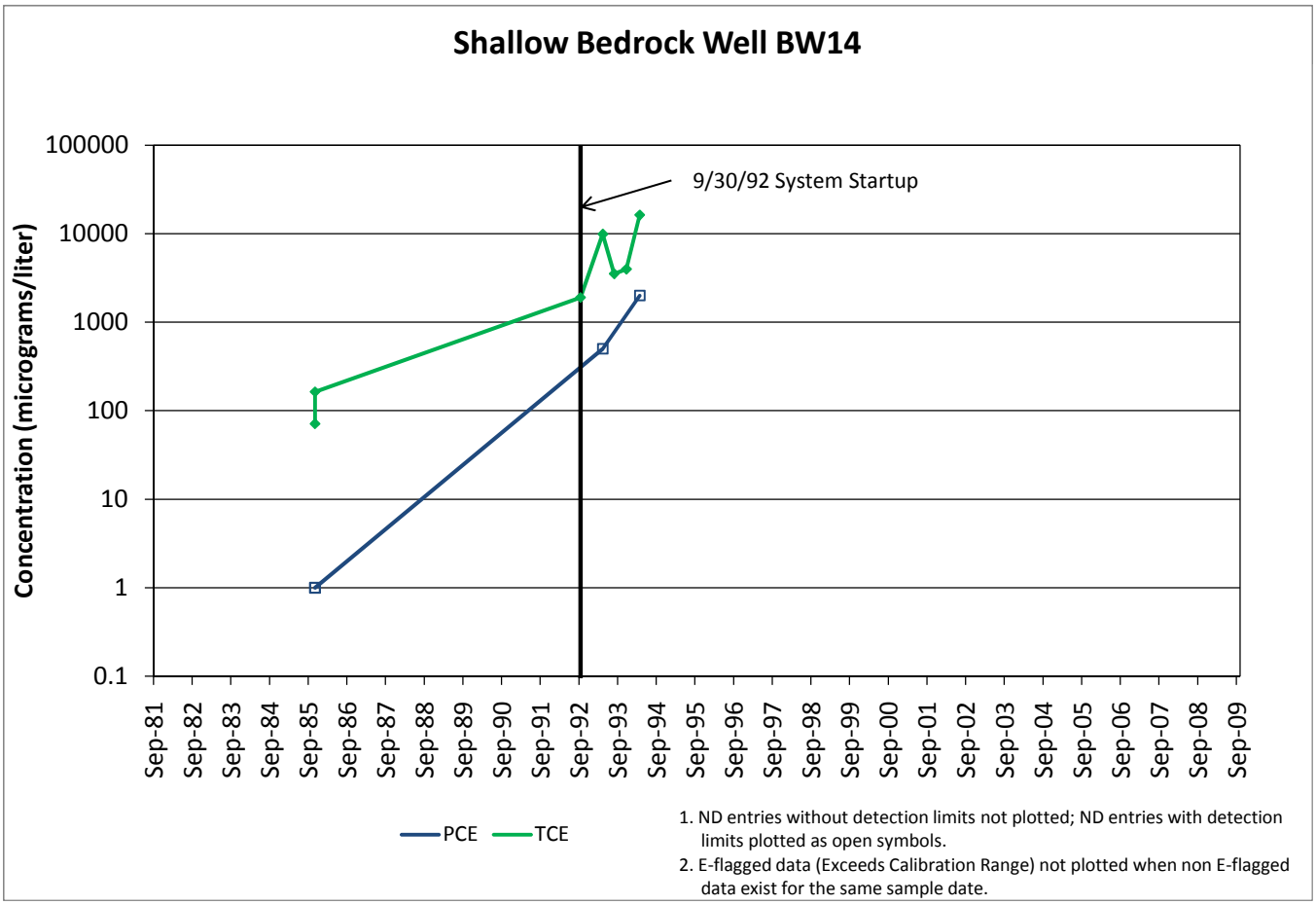

Unconsolidated Deposits Well BW12
Concentration (micrograms/liter)
12
10
8
6
4
2
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

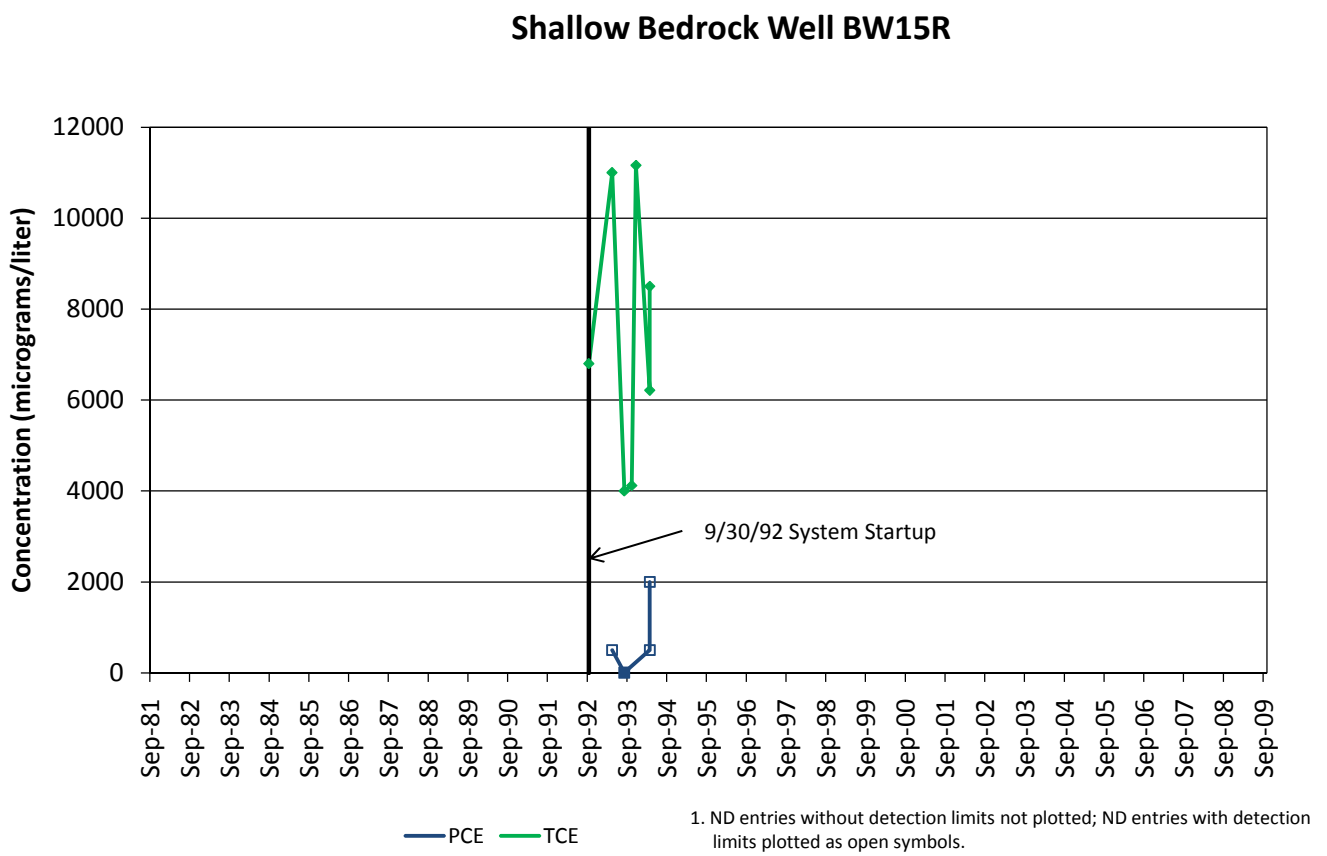

Unconsolidated Deposits Well BW12
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well BW13
Concentration (micrograms/liter)
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

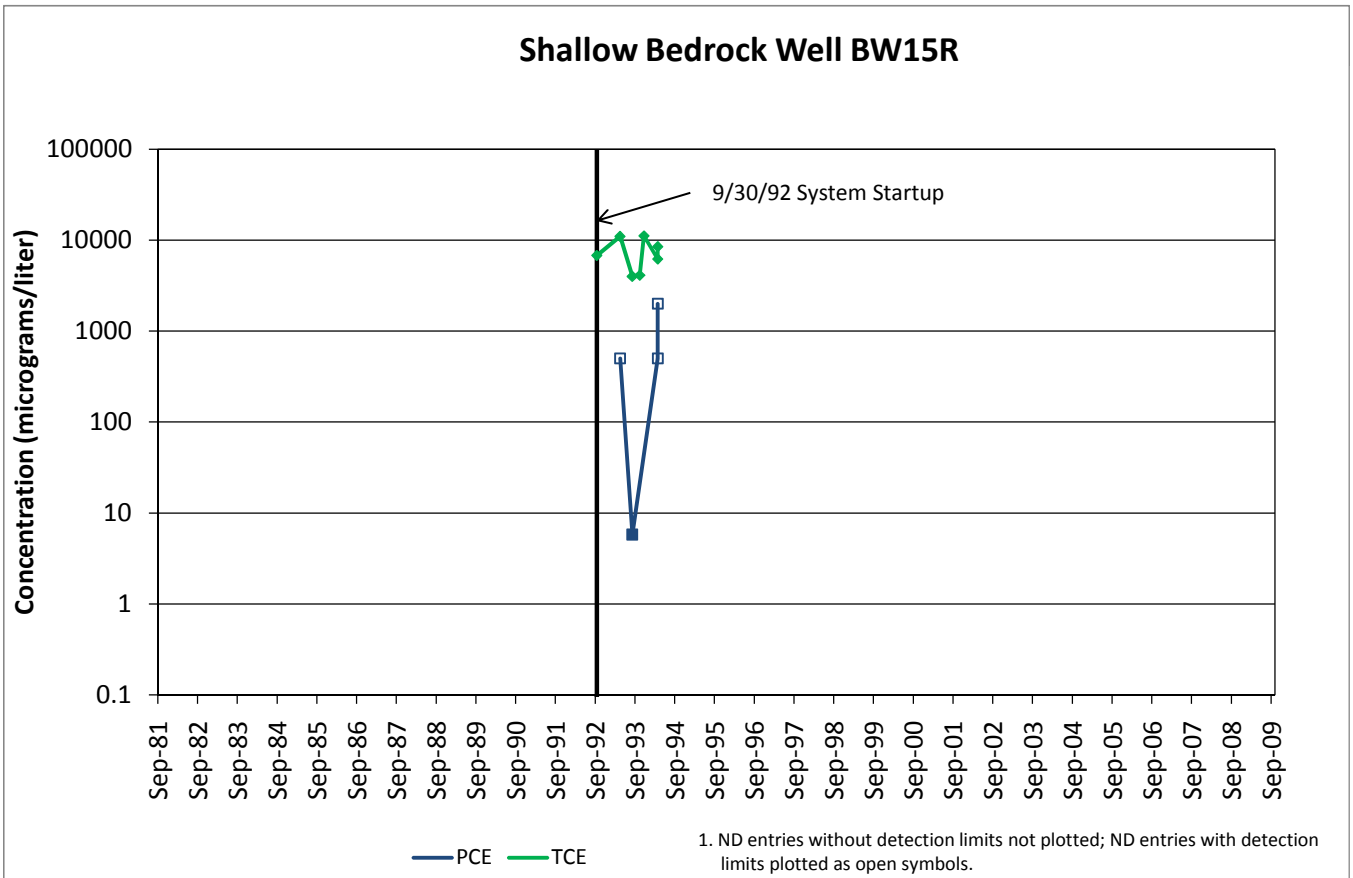

Shallow Bedrock Well BW13
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well BW14
Concentration (micrograms/liter)
18000
16000
14000
12000
10000
8000
6000
4000
2000
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

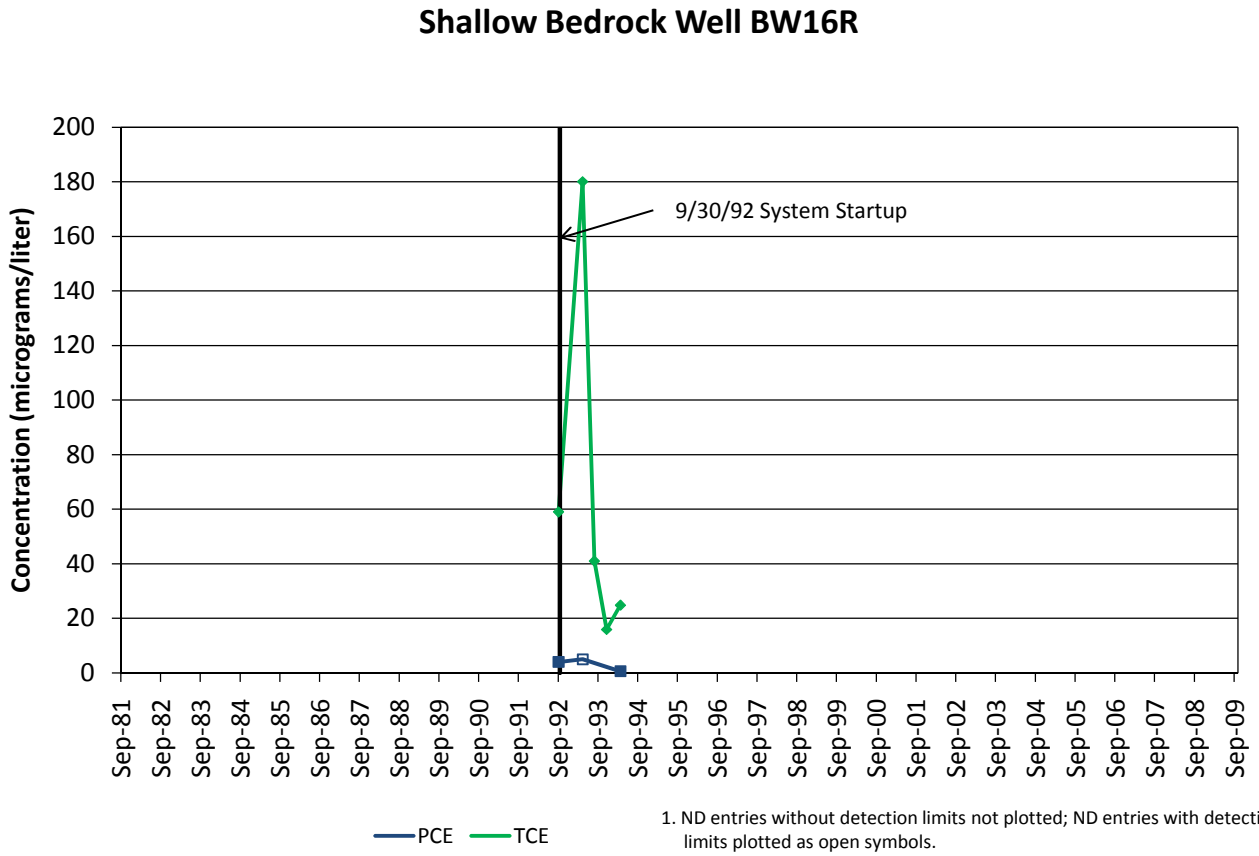

Shallow Bedrock Well BW14
Concentration (micrograms/liter)
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



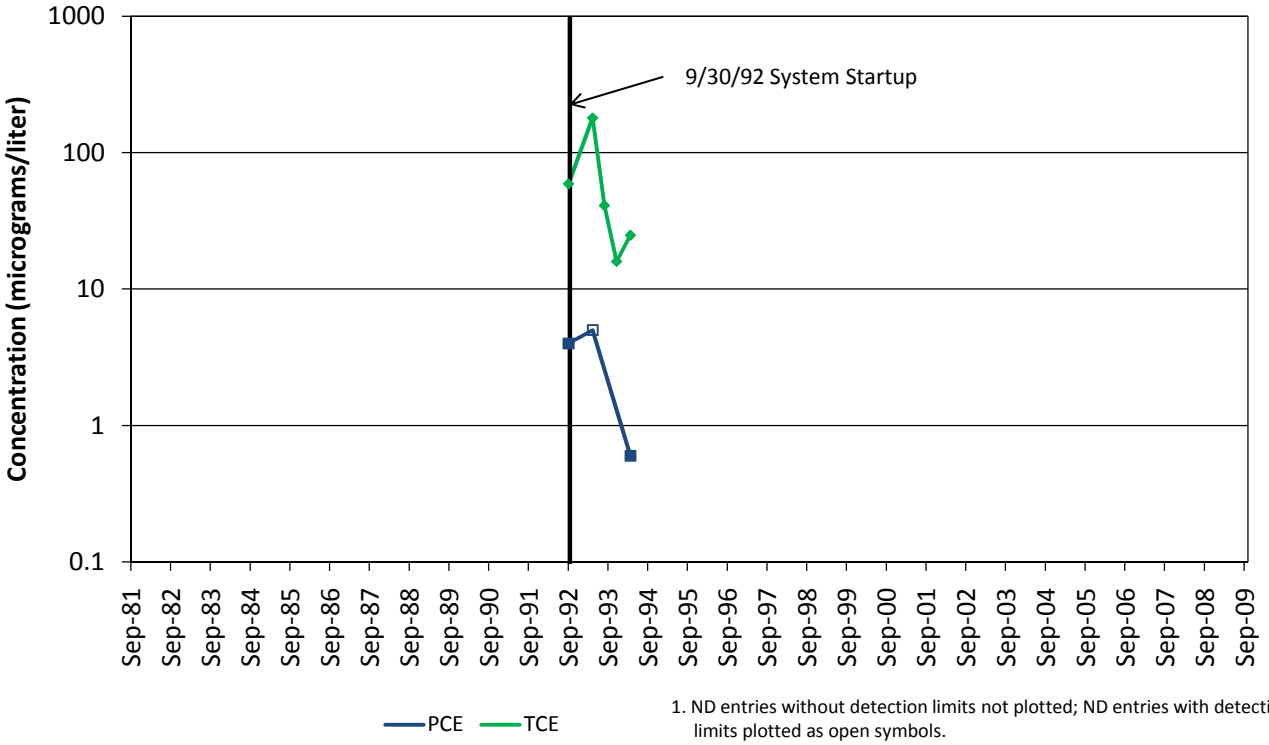
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



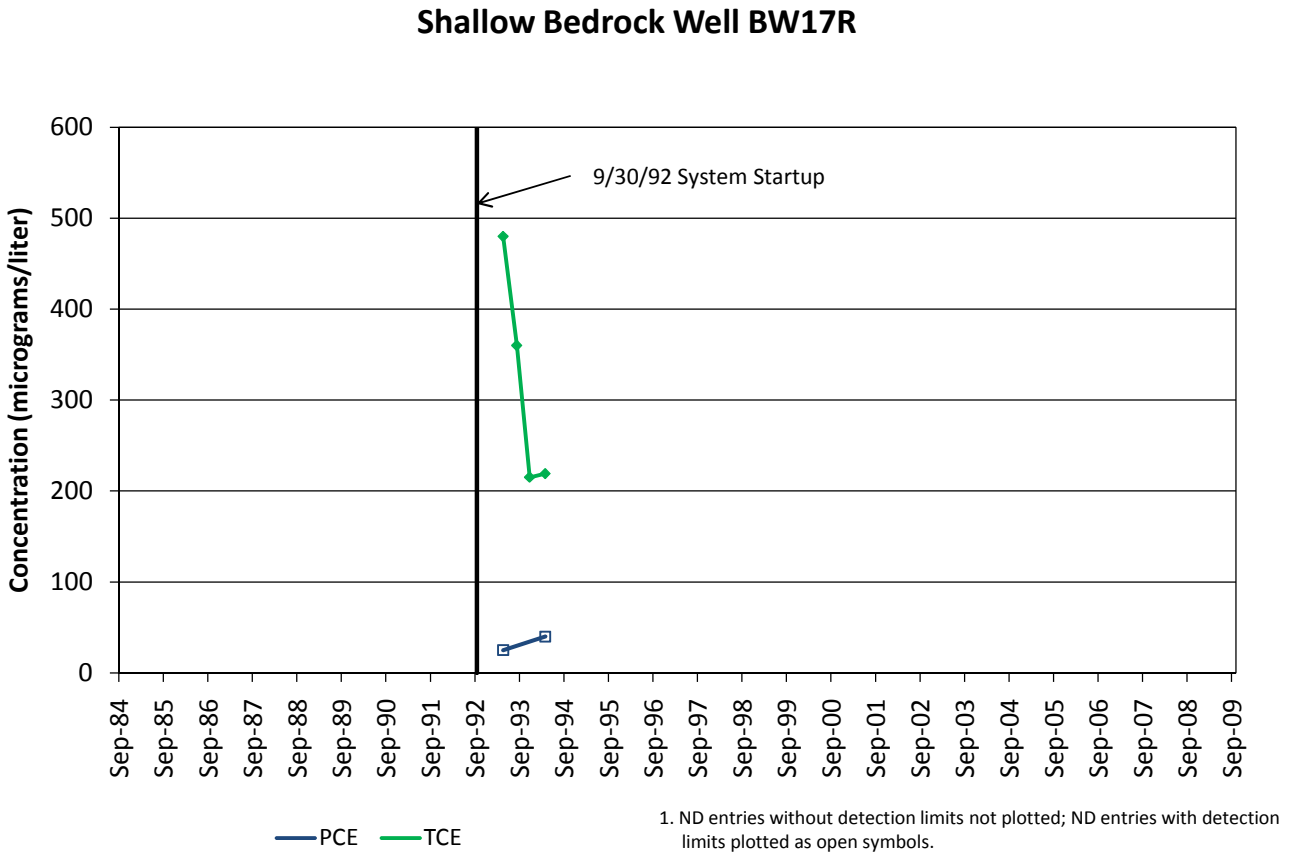
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



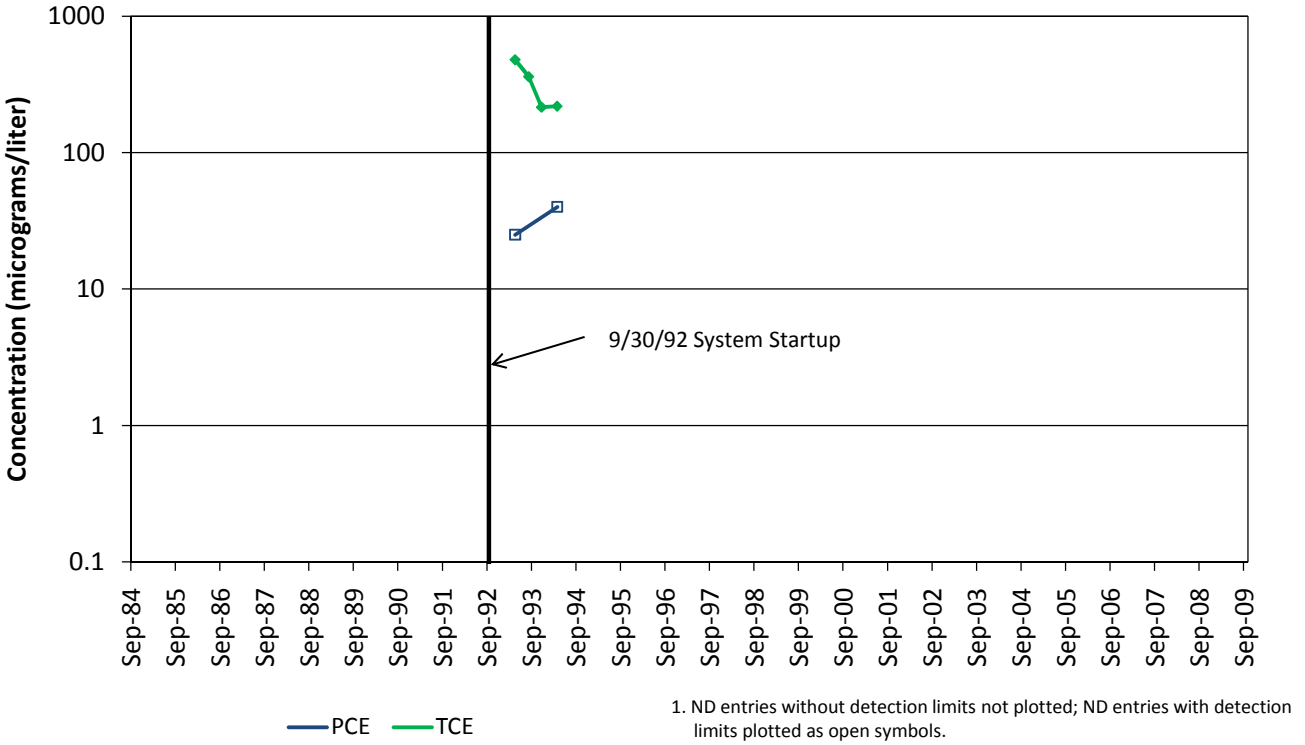
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



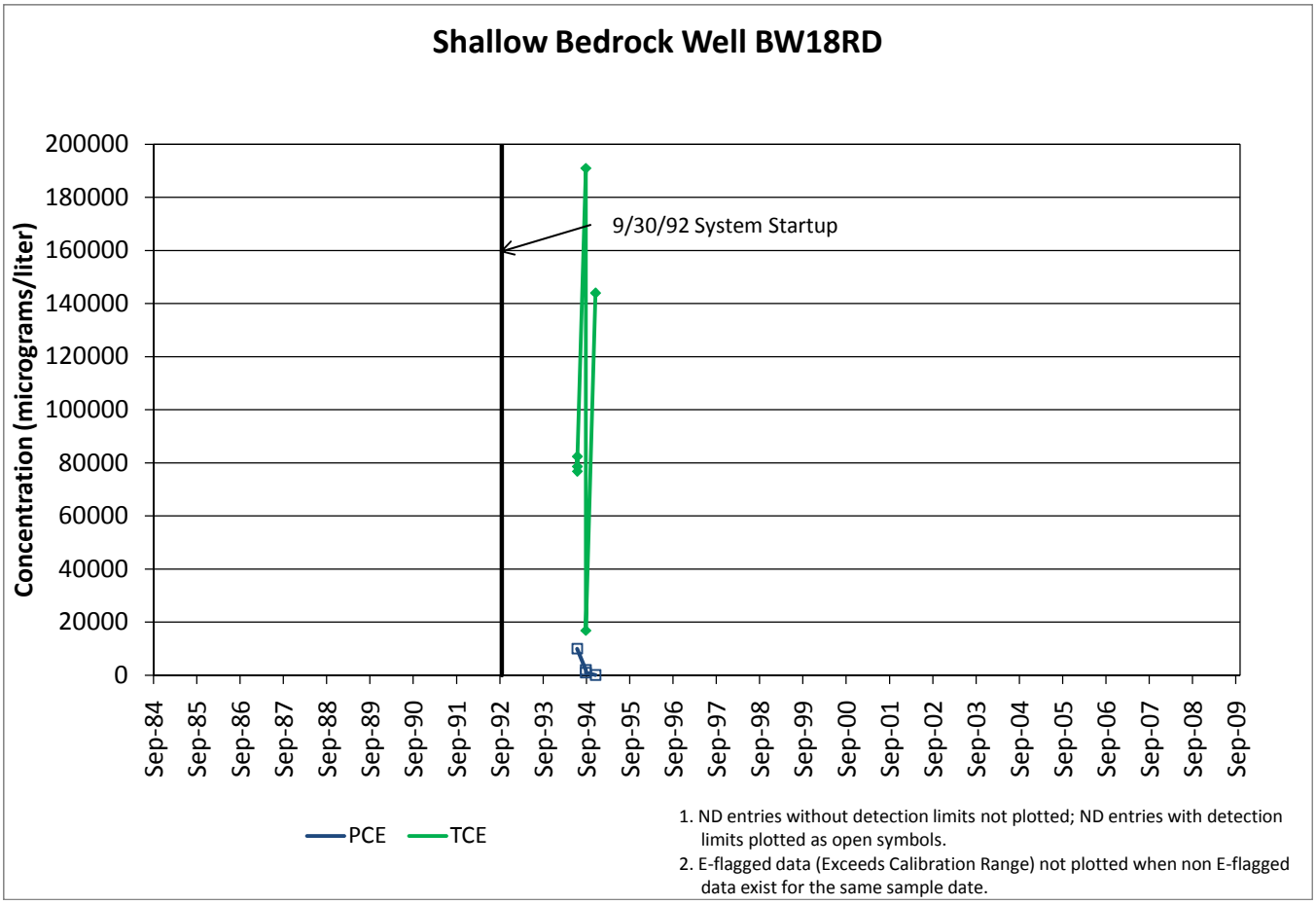
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

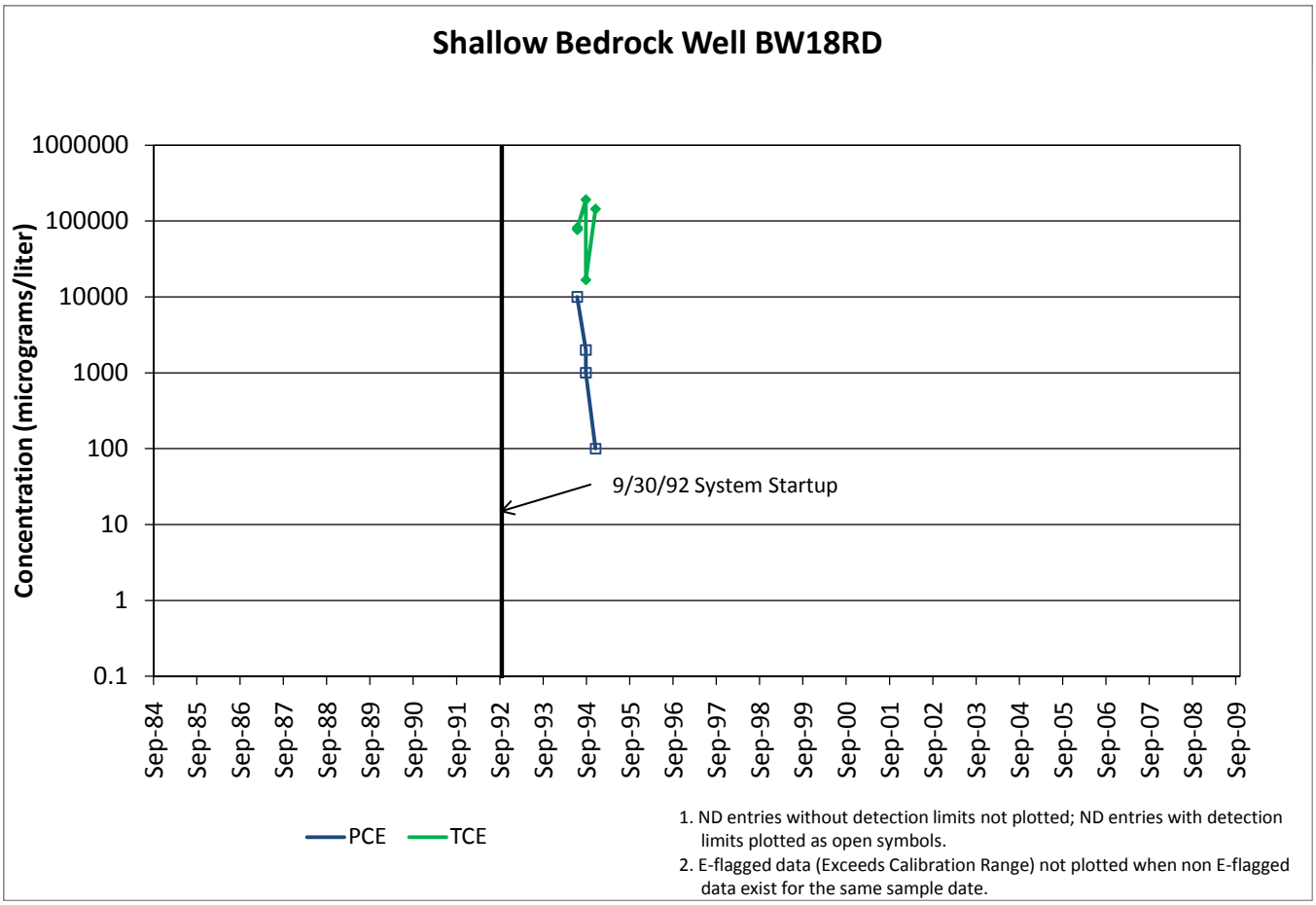


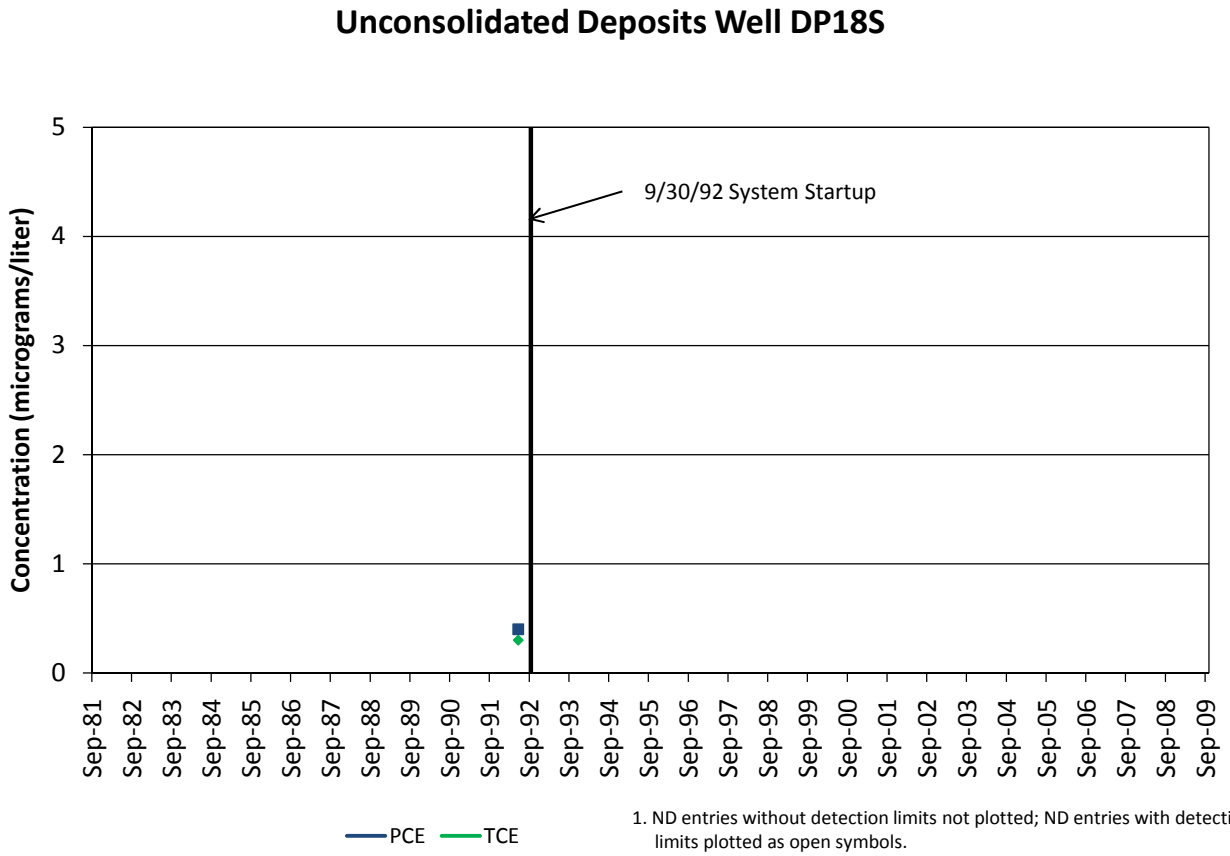
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



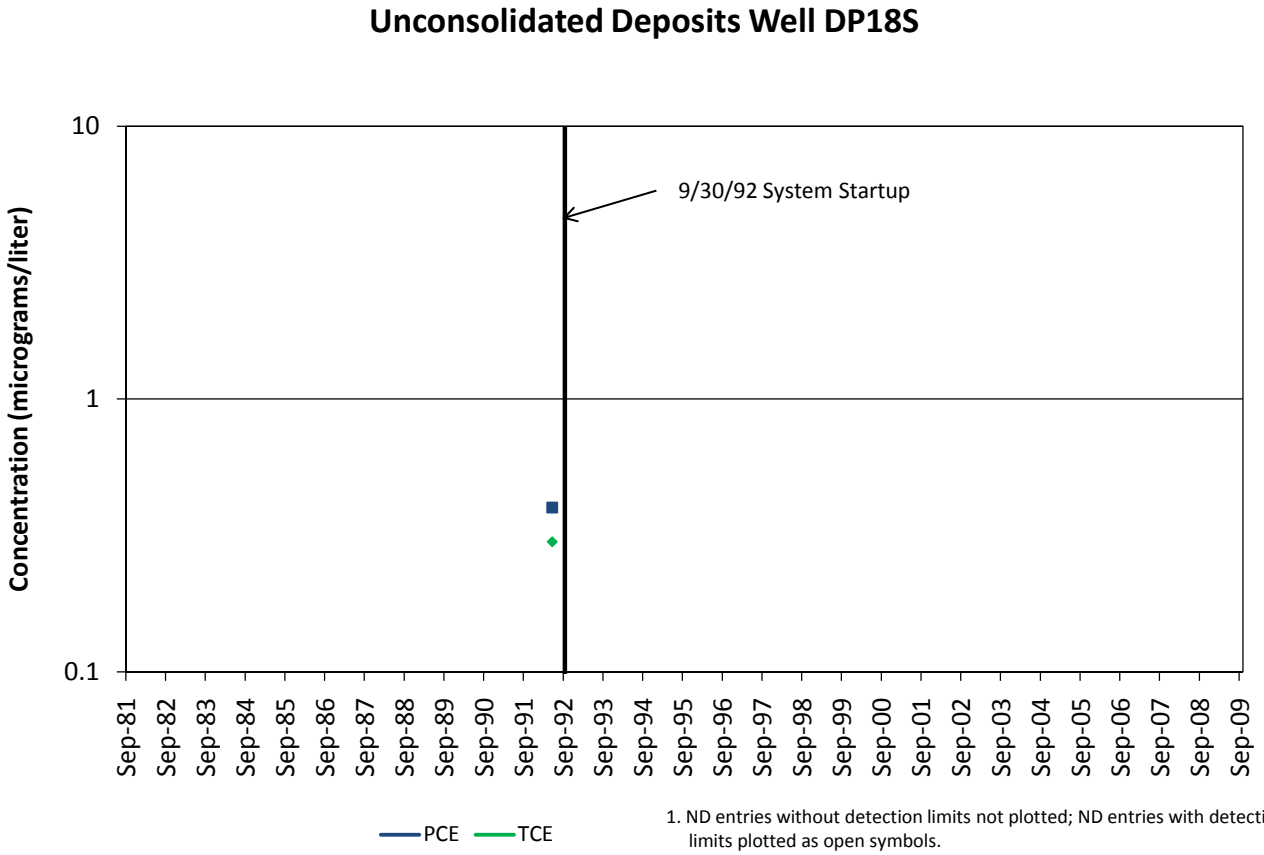
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well BW18RD
Concentration (micrograms/liter)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

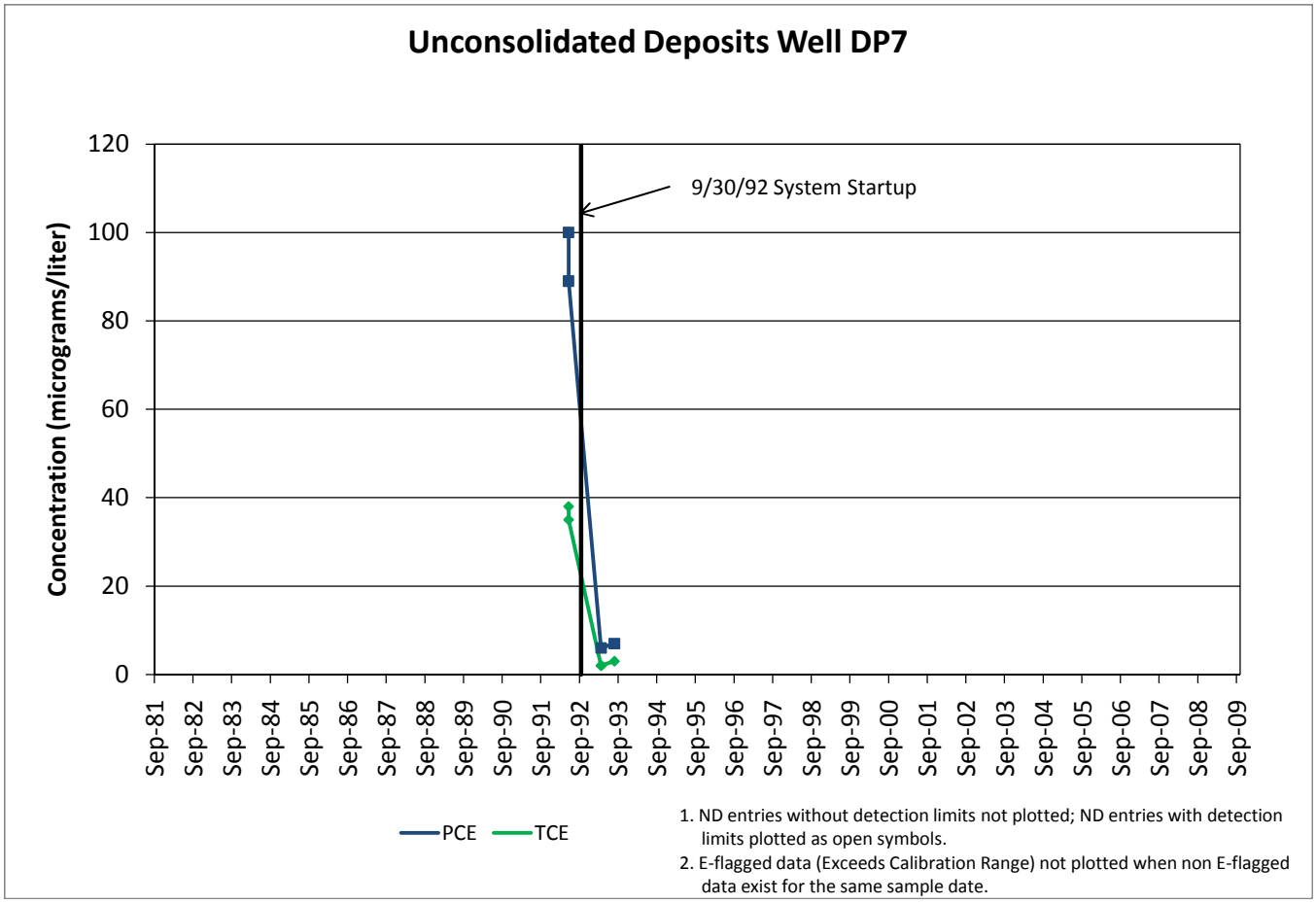

Shallow Bedrock Well BW18RD
Concentration (micrograms/liter)
1000000
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

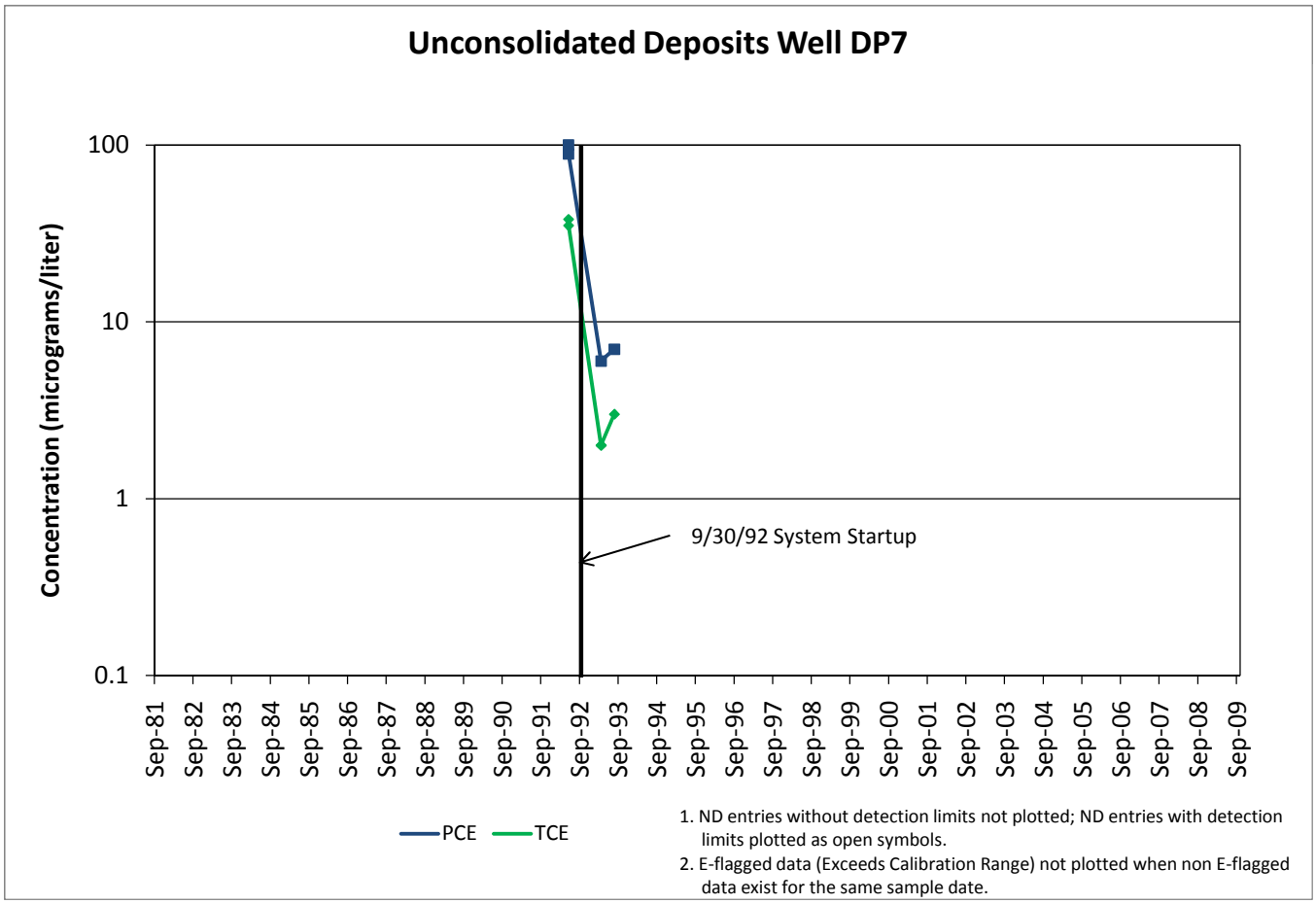


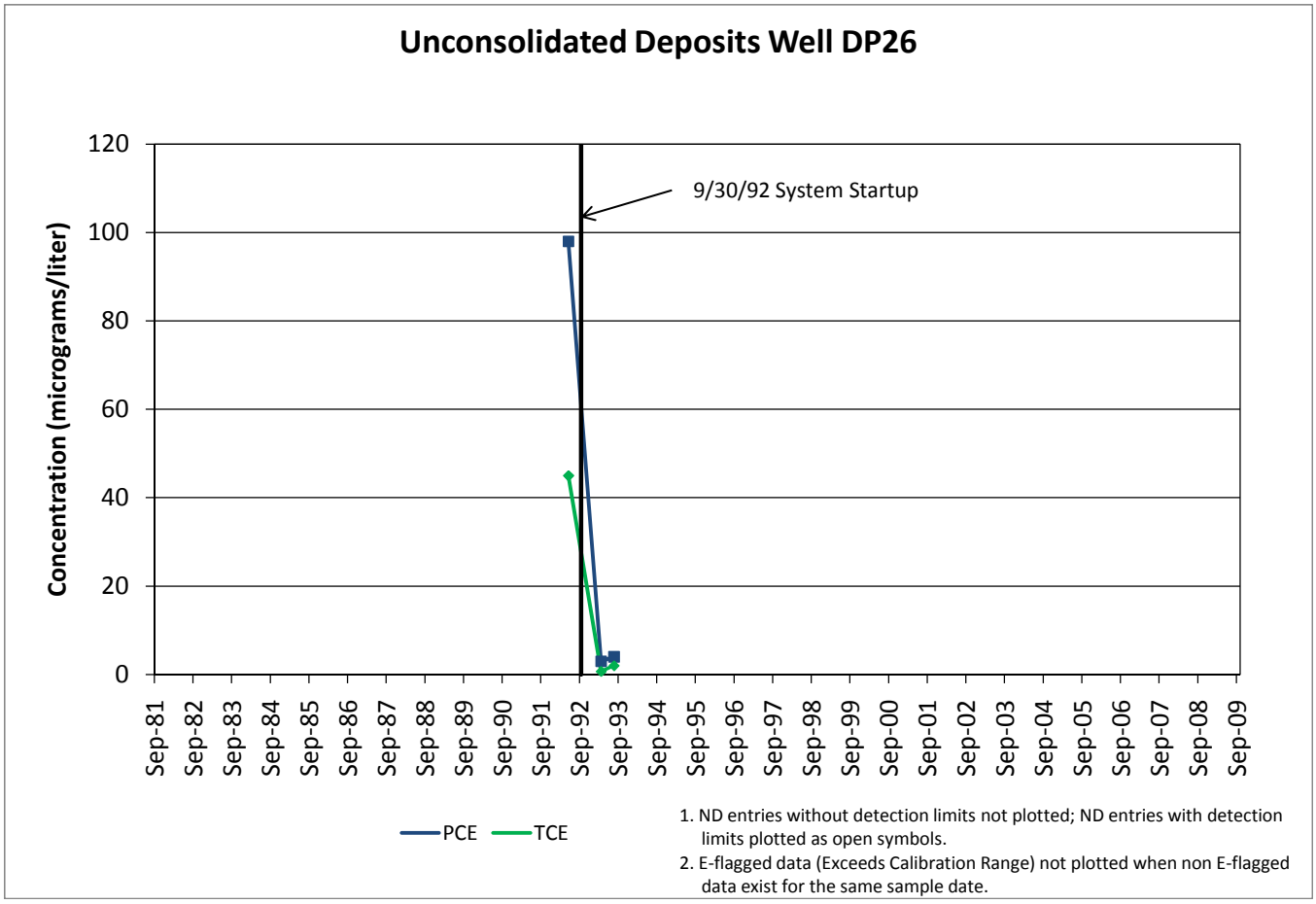
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

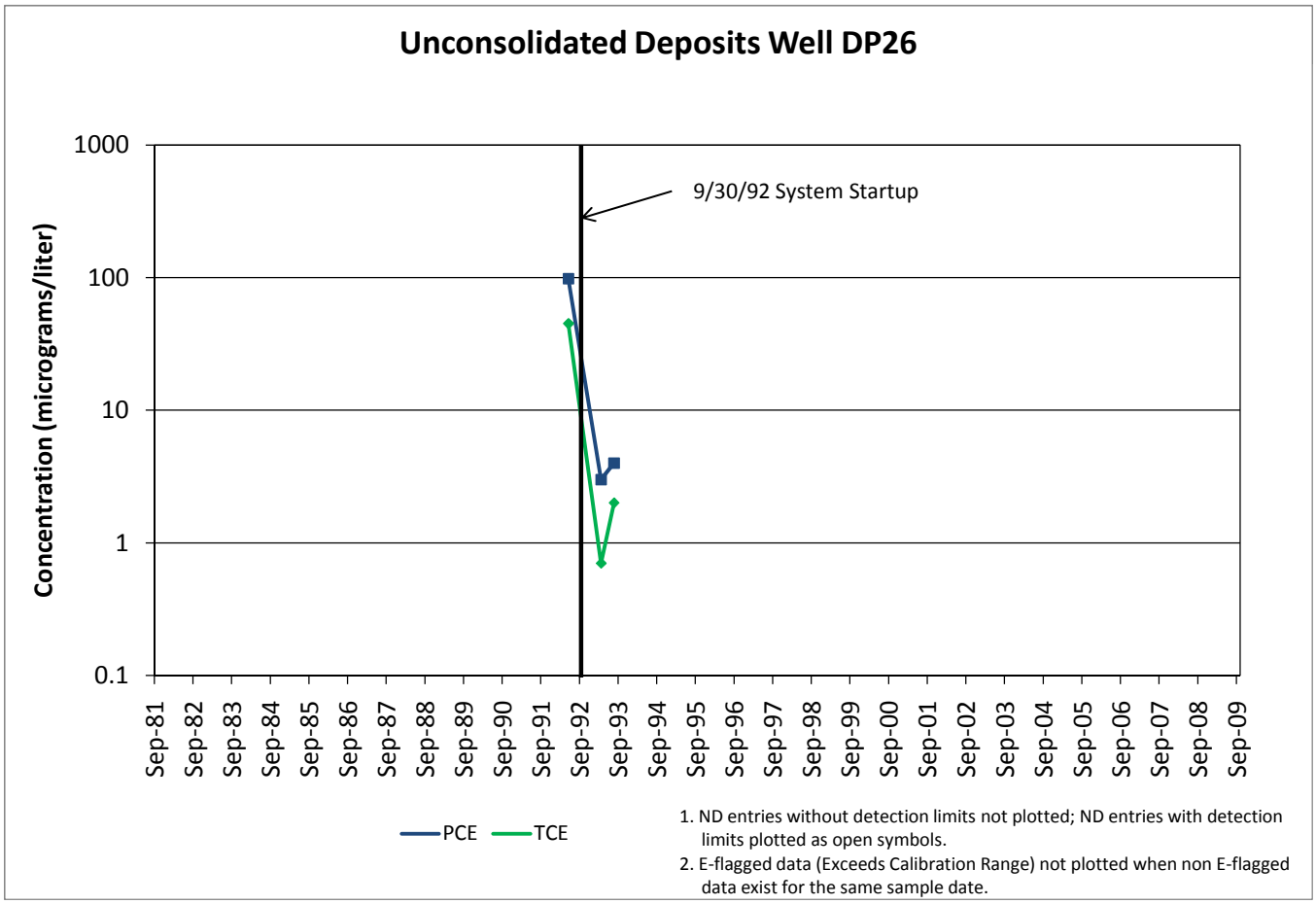


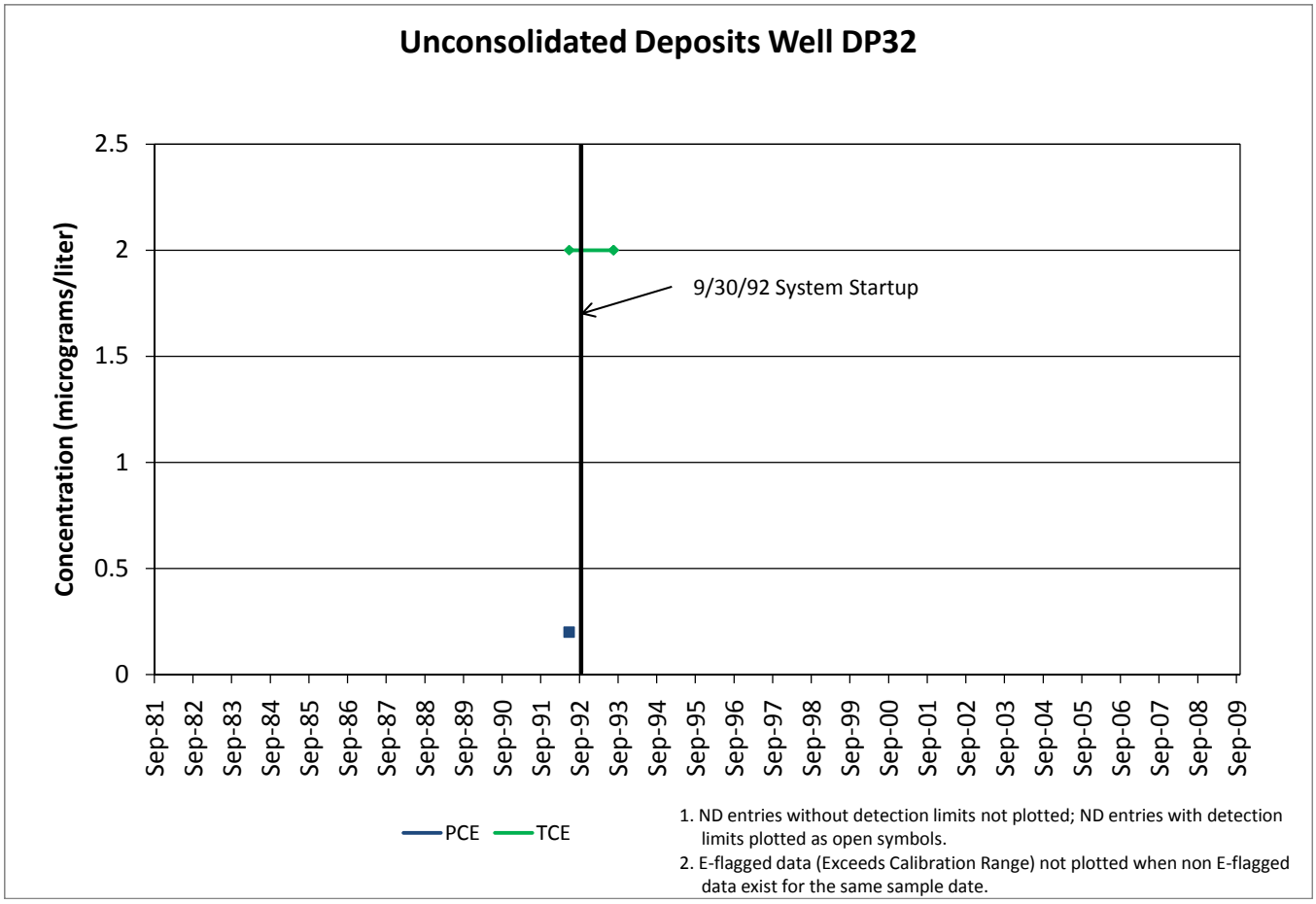
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

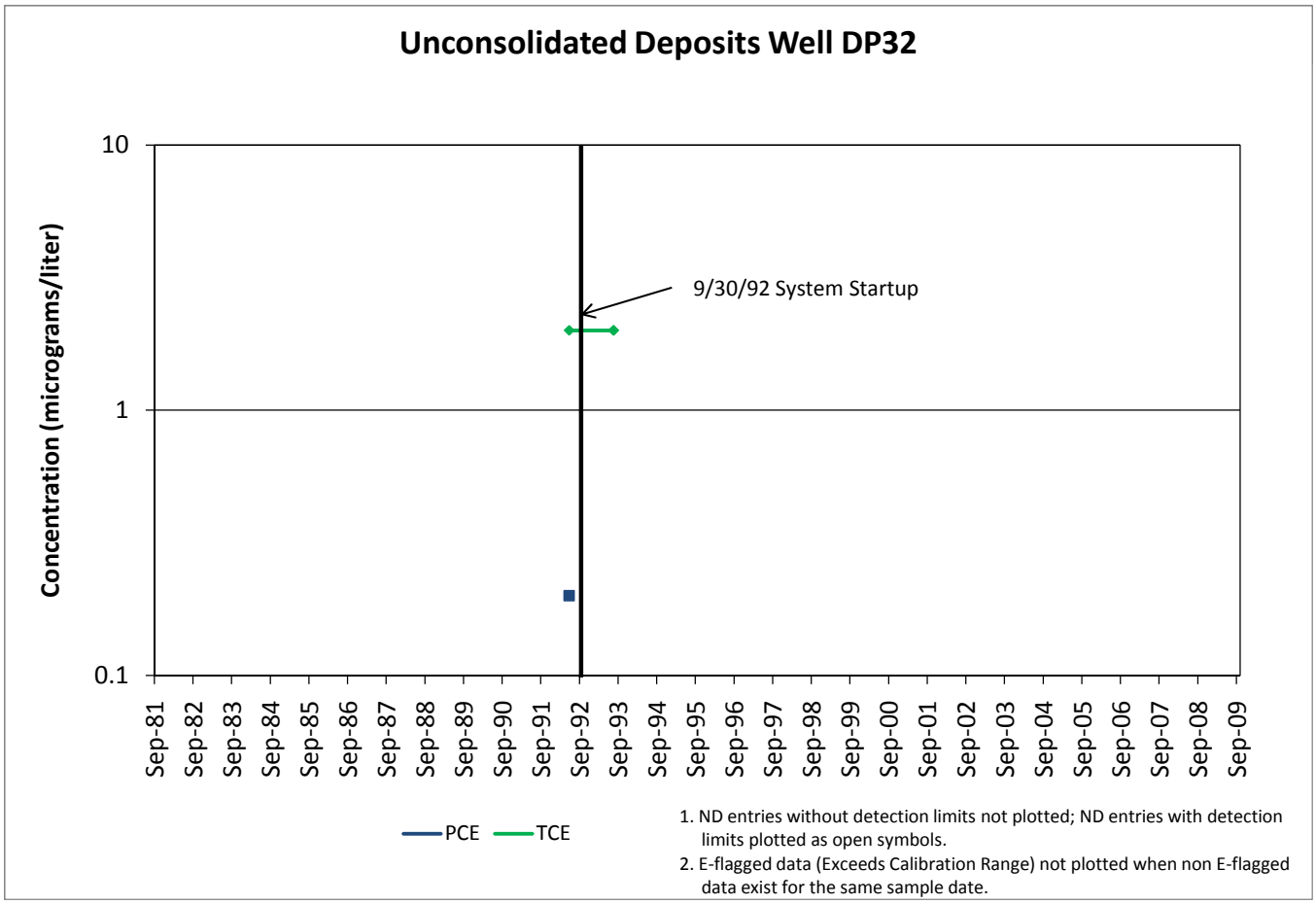

Unconsolidated Deposits Well DP7
Concentration (micrograms/liter)
120
100
80
60
40
20
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

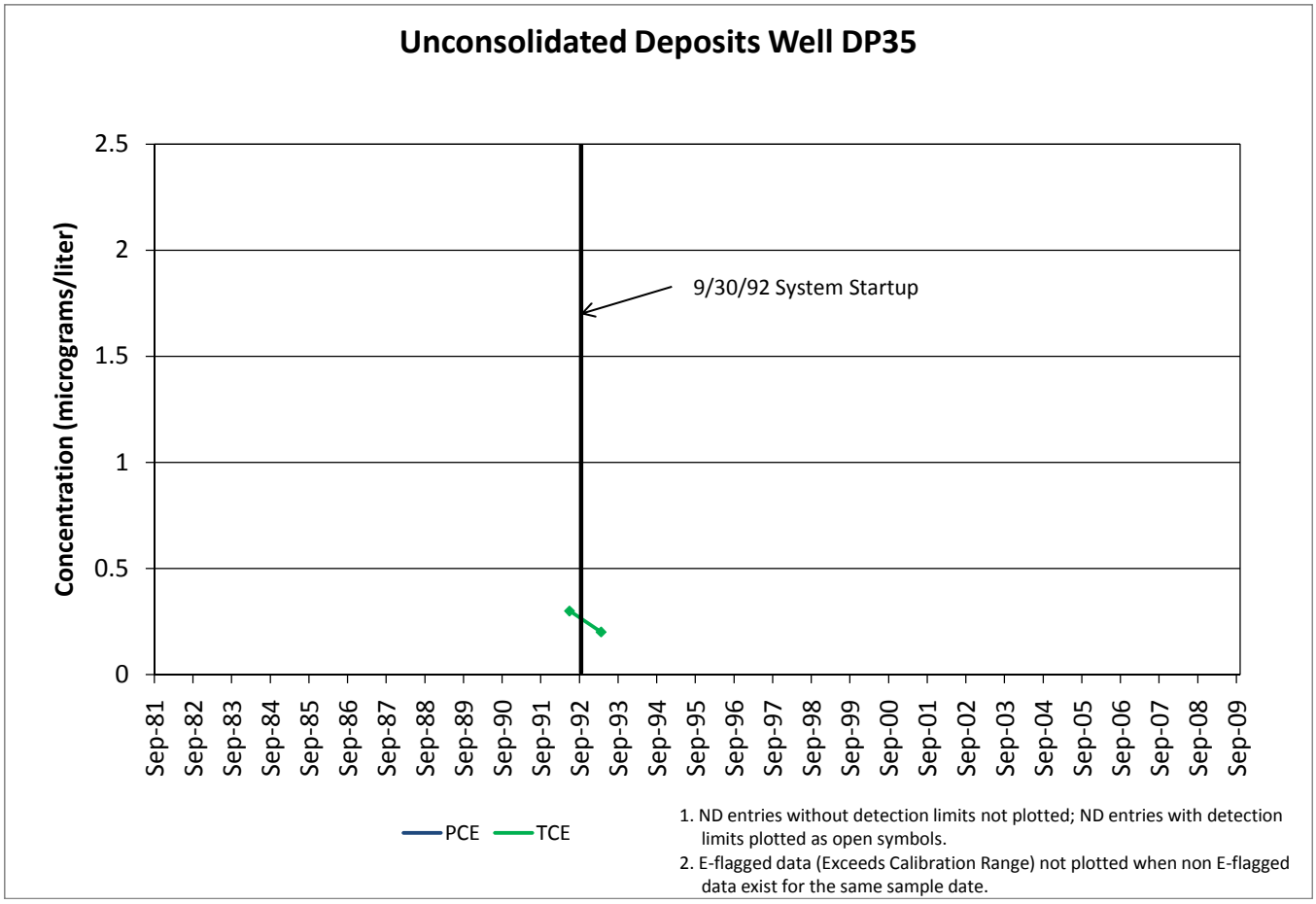

Unconsolidated Deposits Well DP7
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

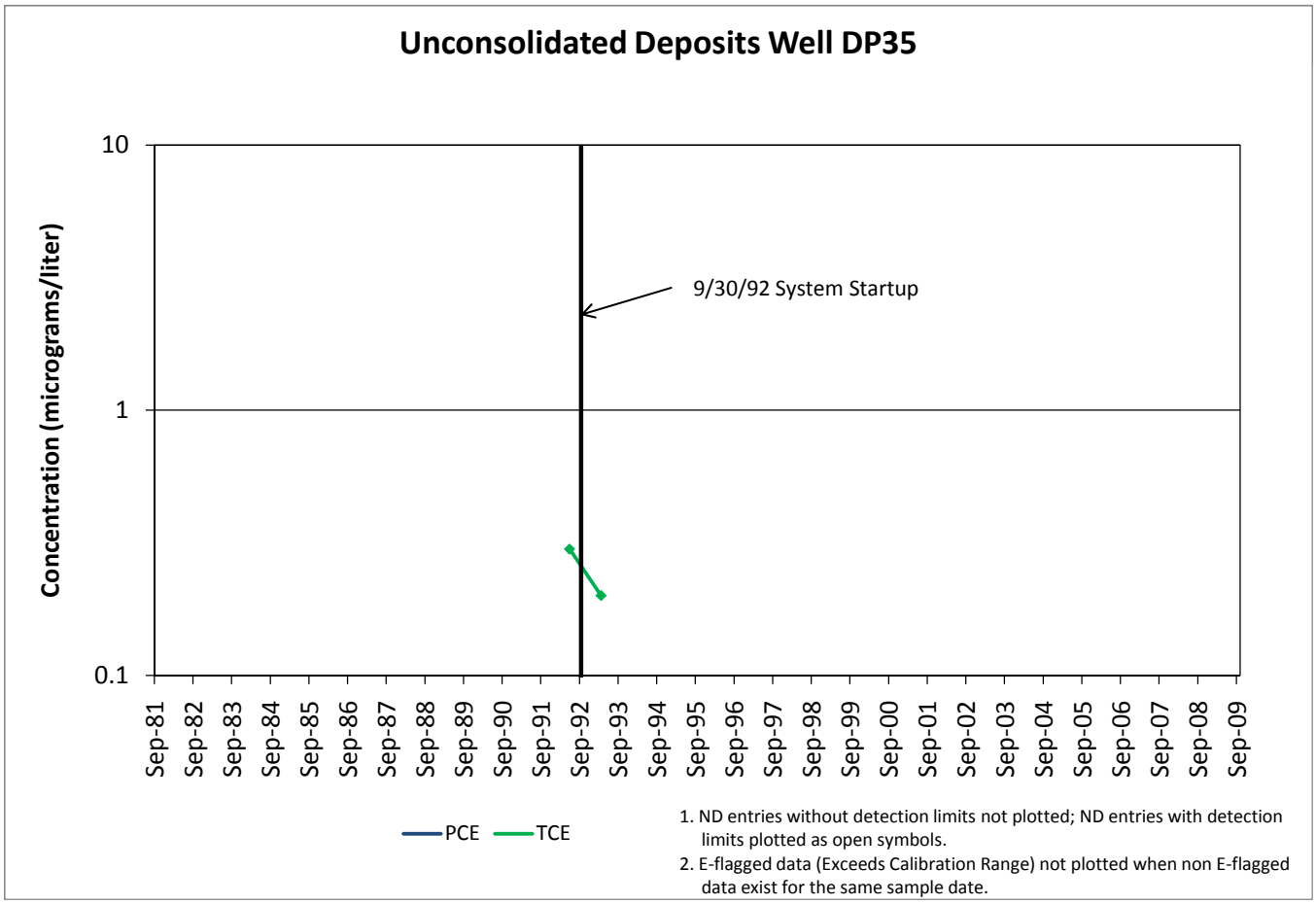

Unconsolidated Deposits Well DP26
Concentration (micrograms/liter)
120
100
80
60
40
20
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

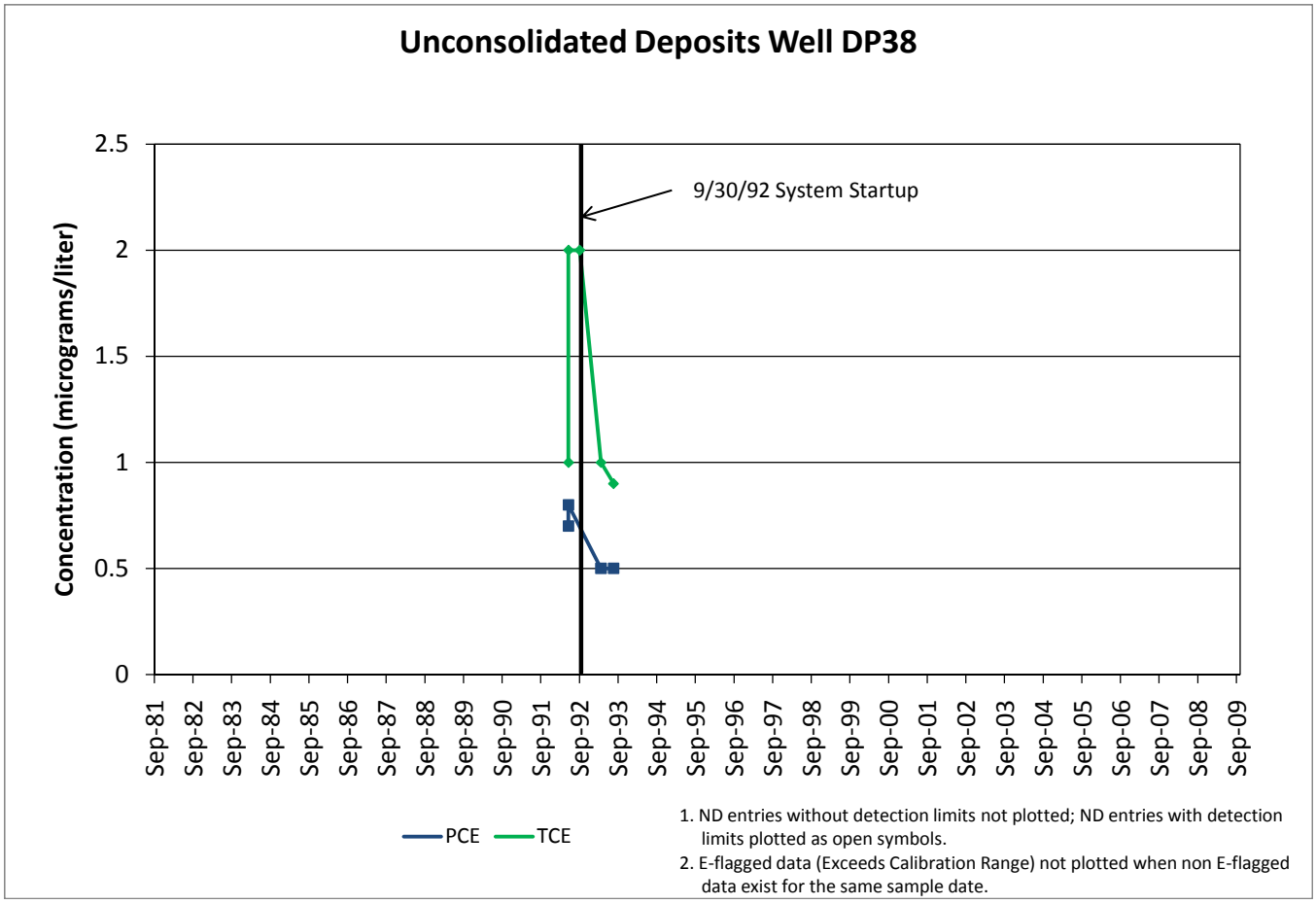

Unconsolidated Deposits Well DP26
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

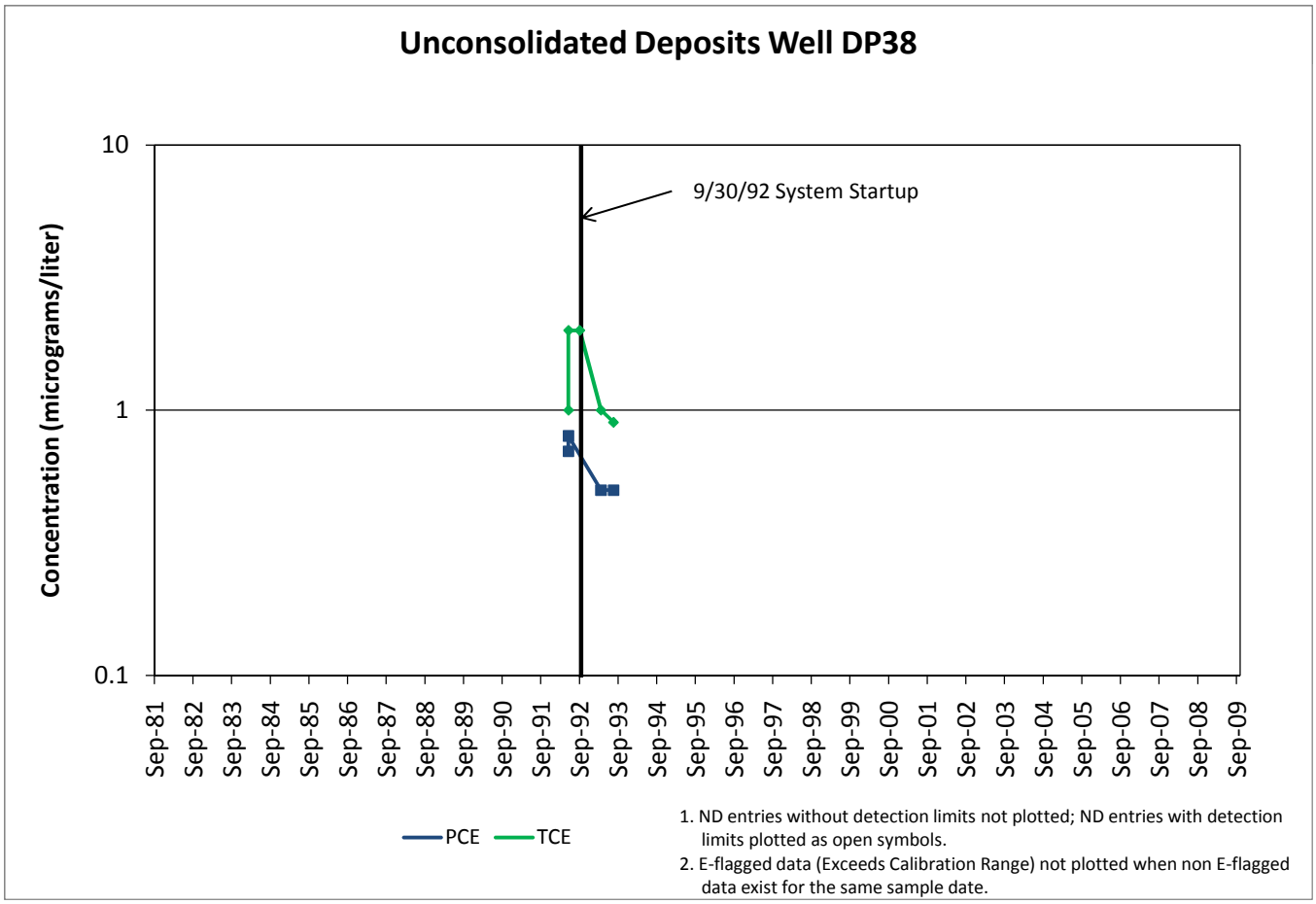

Unconsolidated Deposits Well DP32
Concentration (micrograms/liter)
2.5
2
1.5
1
0.5
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

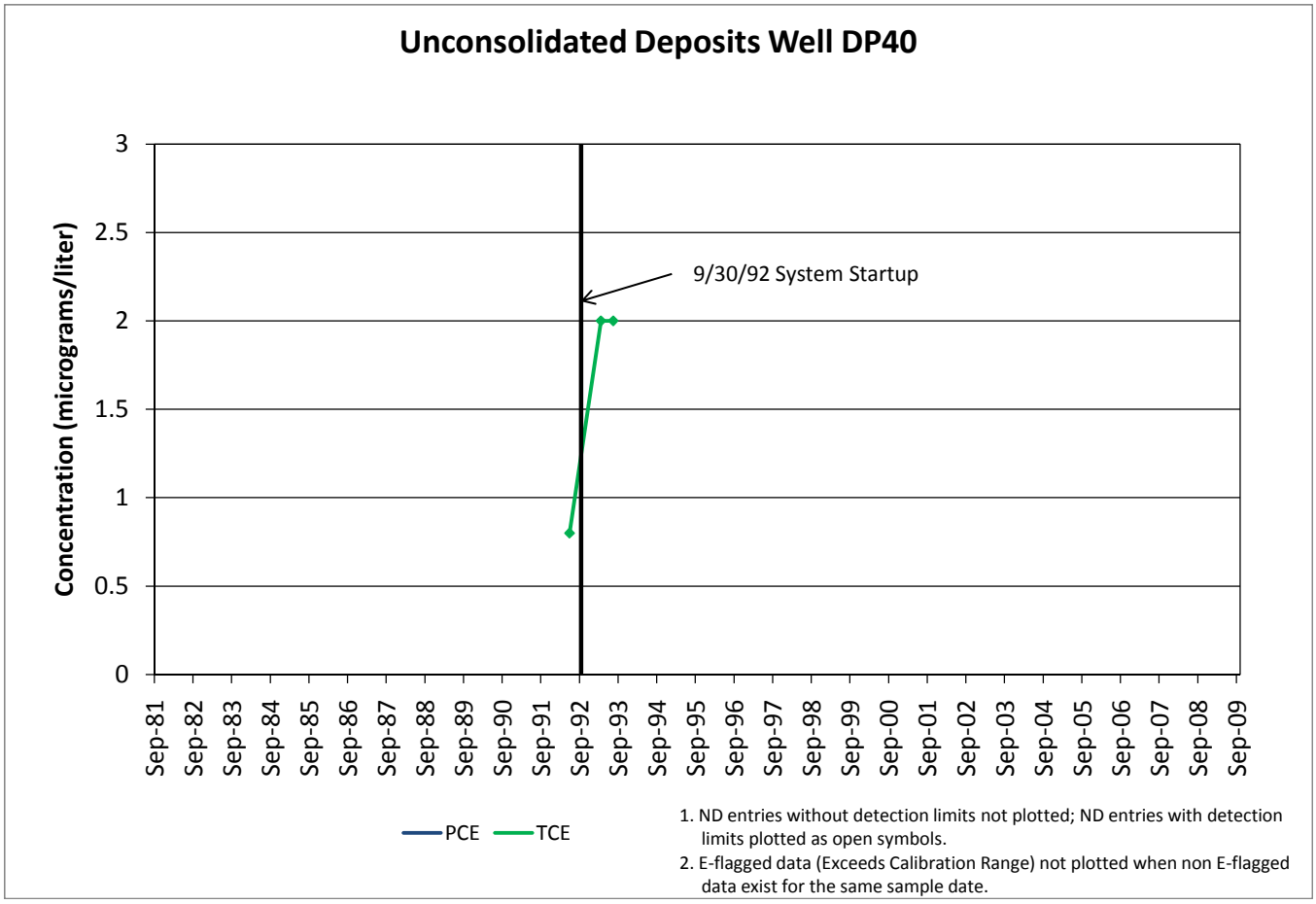

Unconsolidated Deposits Well DP32
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

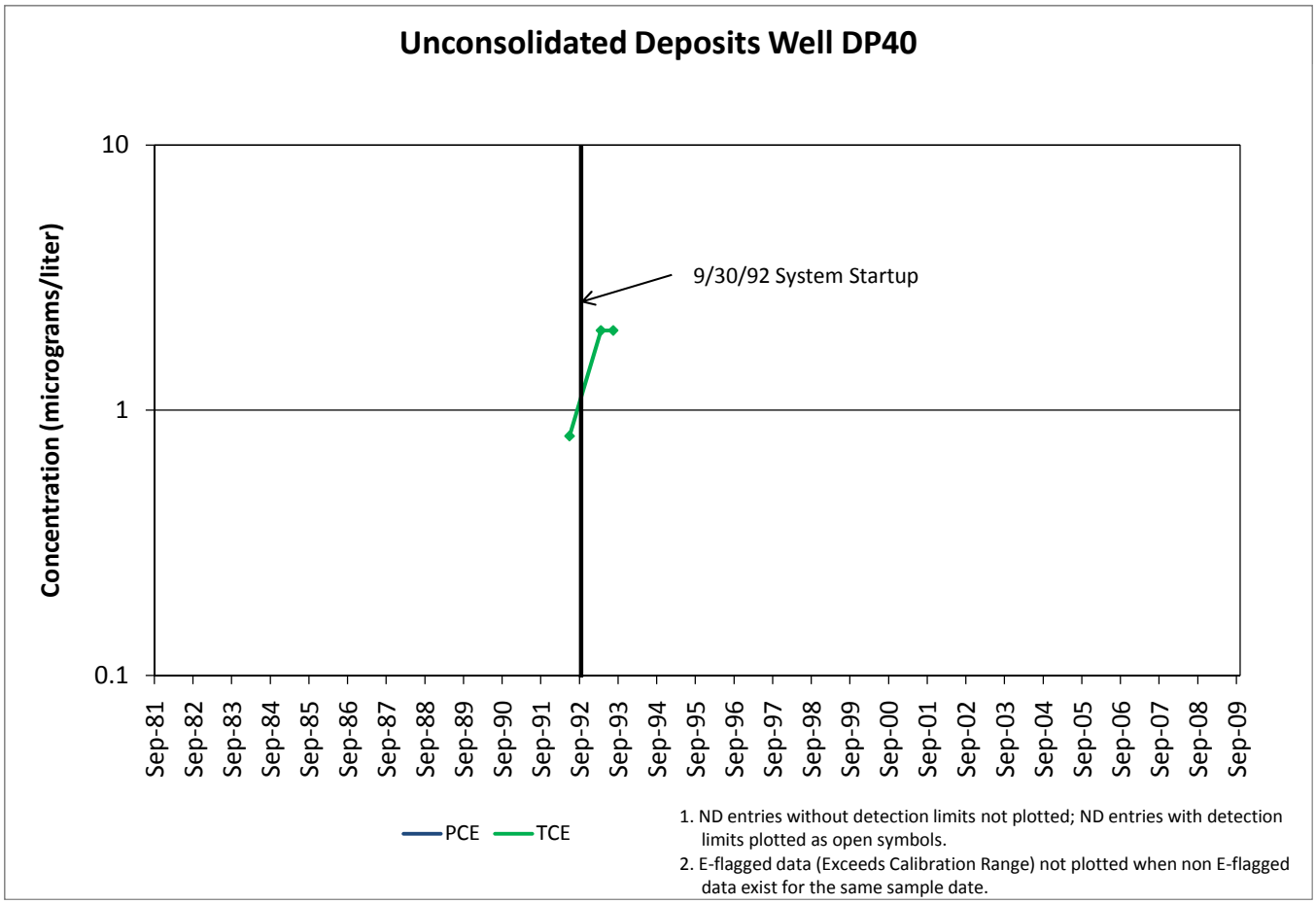

Unconsolidated Deposits Well DP35
Concentration (micrograms/liter)
2.5
2
1.5
1
0.5
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

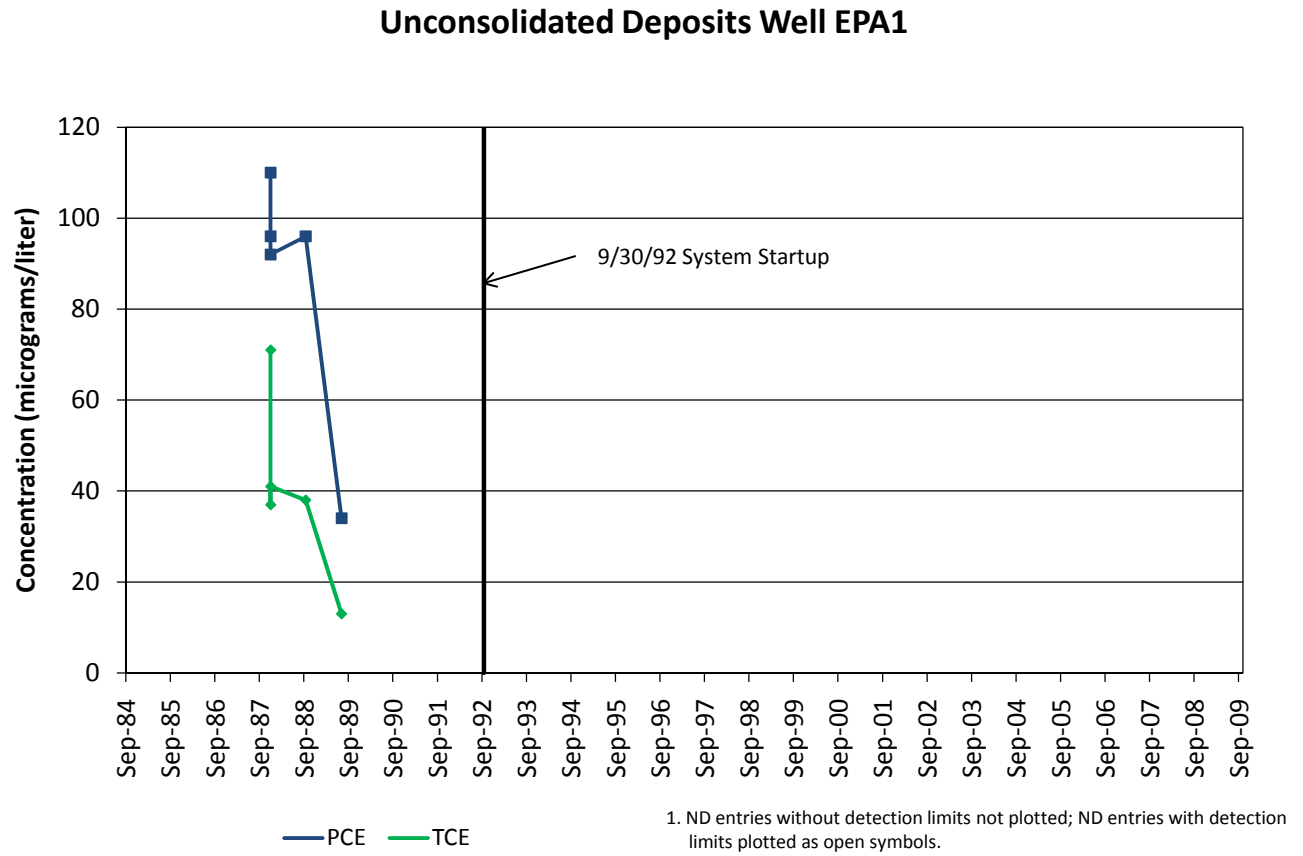

Unconsolidated Deposits Well DP35
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well DP38
Concentration (micrograms/liter)
2.5
2
1.5
1
0.5
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

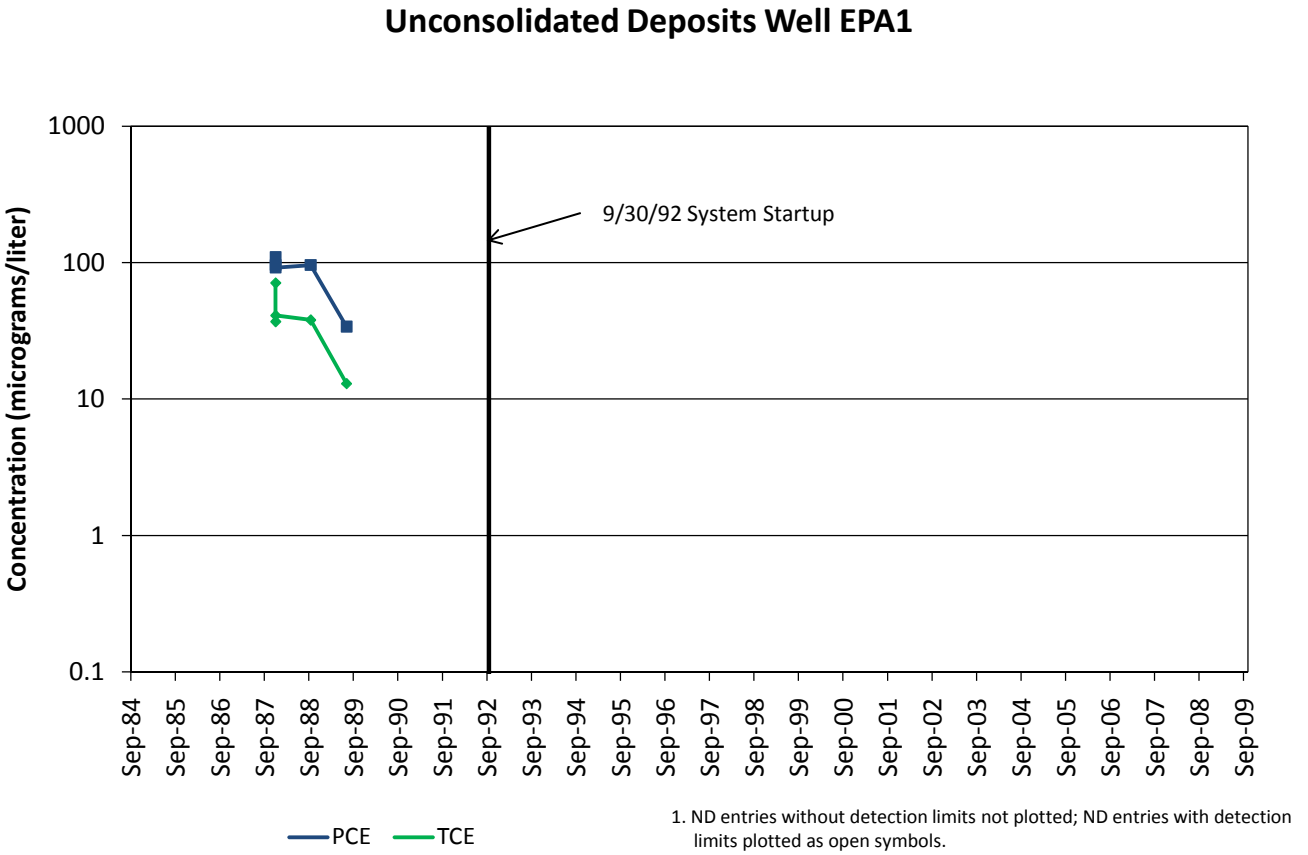

Unconsolidated Deposits Well DP38
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well DP40
Concentration (micrograms/liter)
3
2.5
2
1.5
1
0.5
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

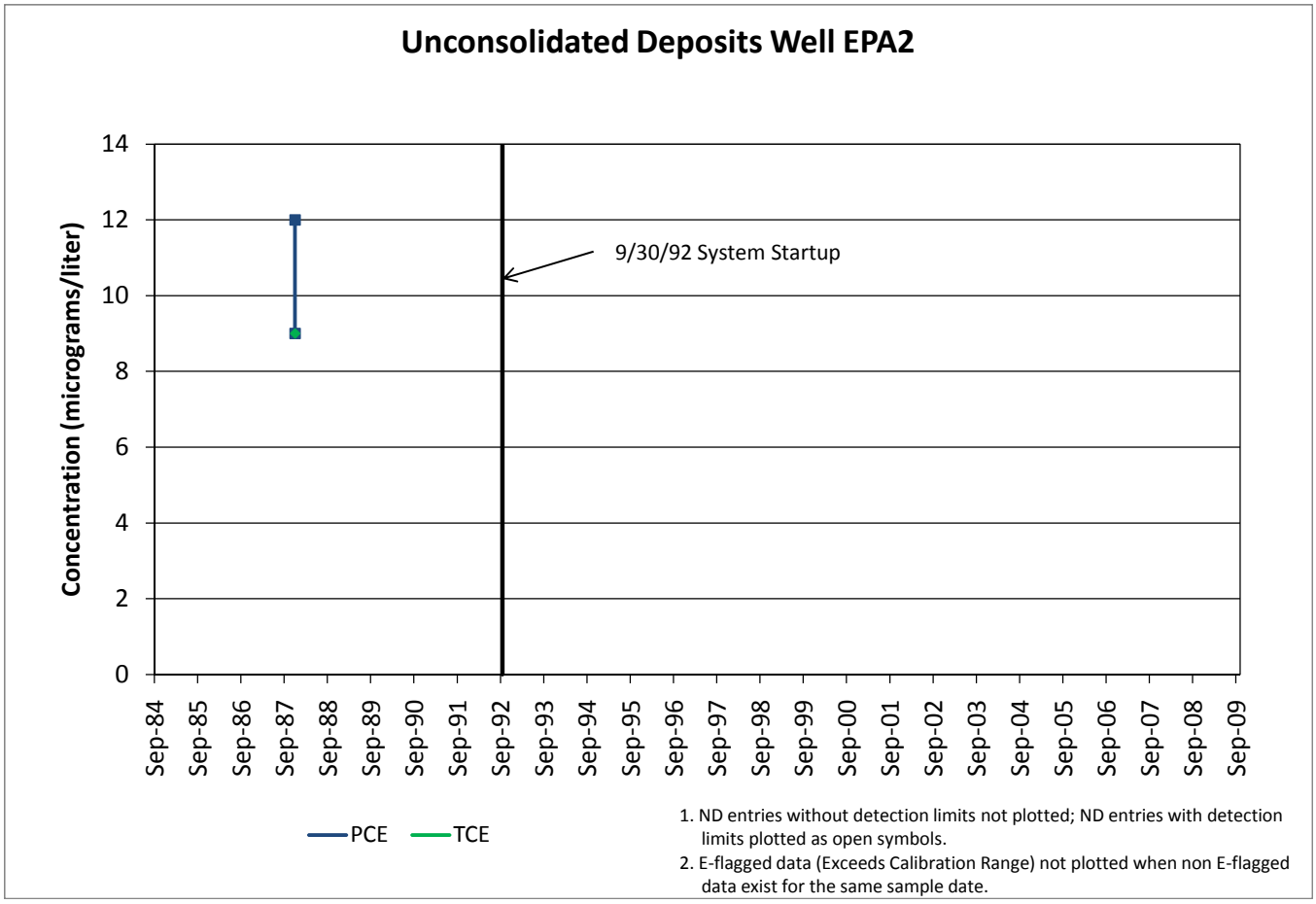

Unconsolidated Deposits Well DP40
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

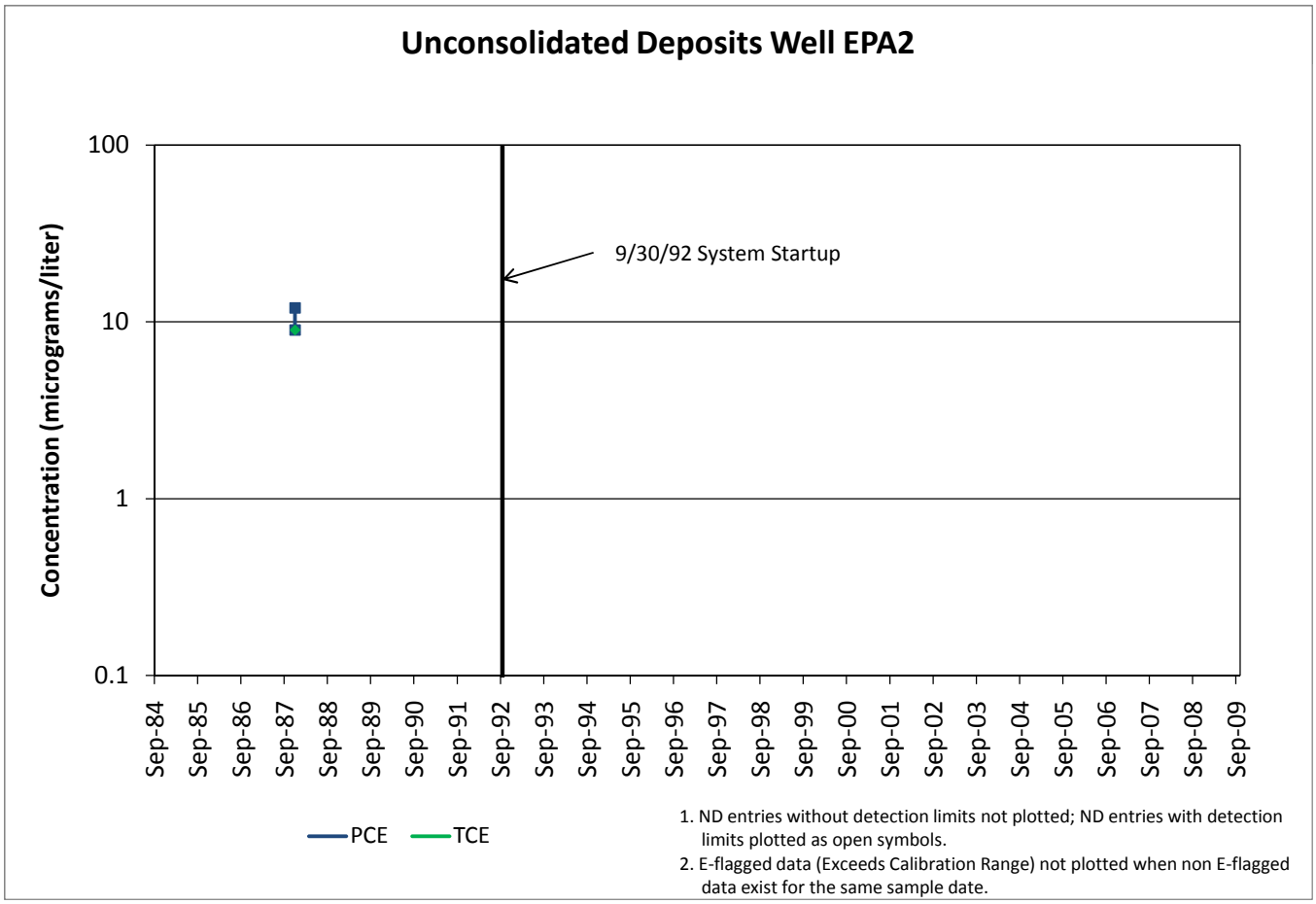


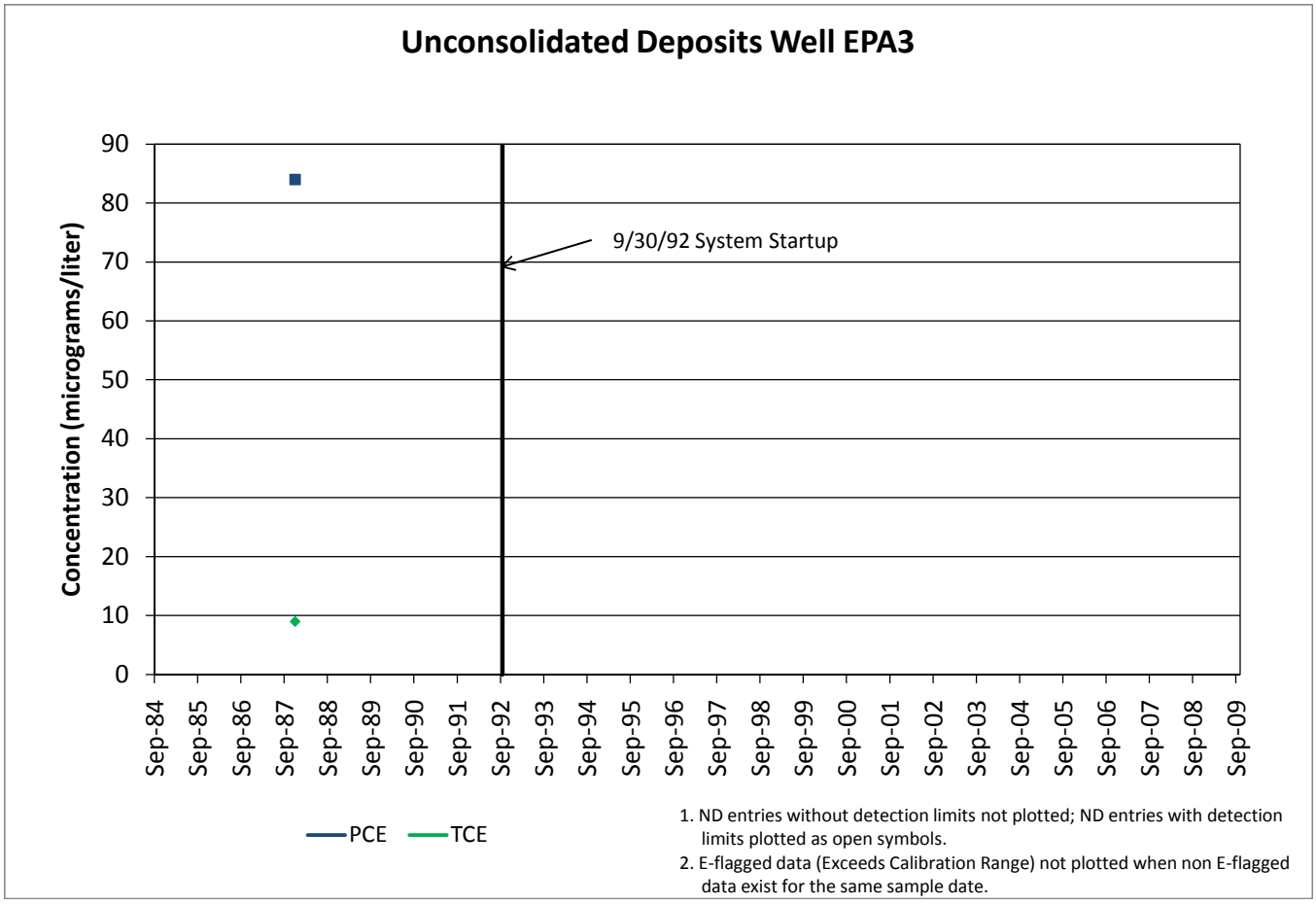
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

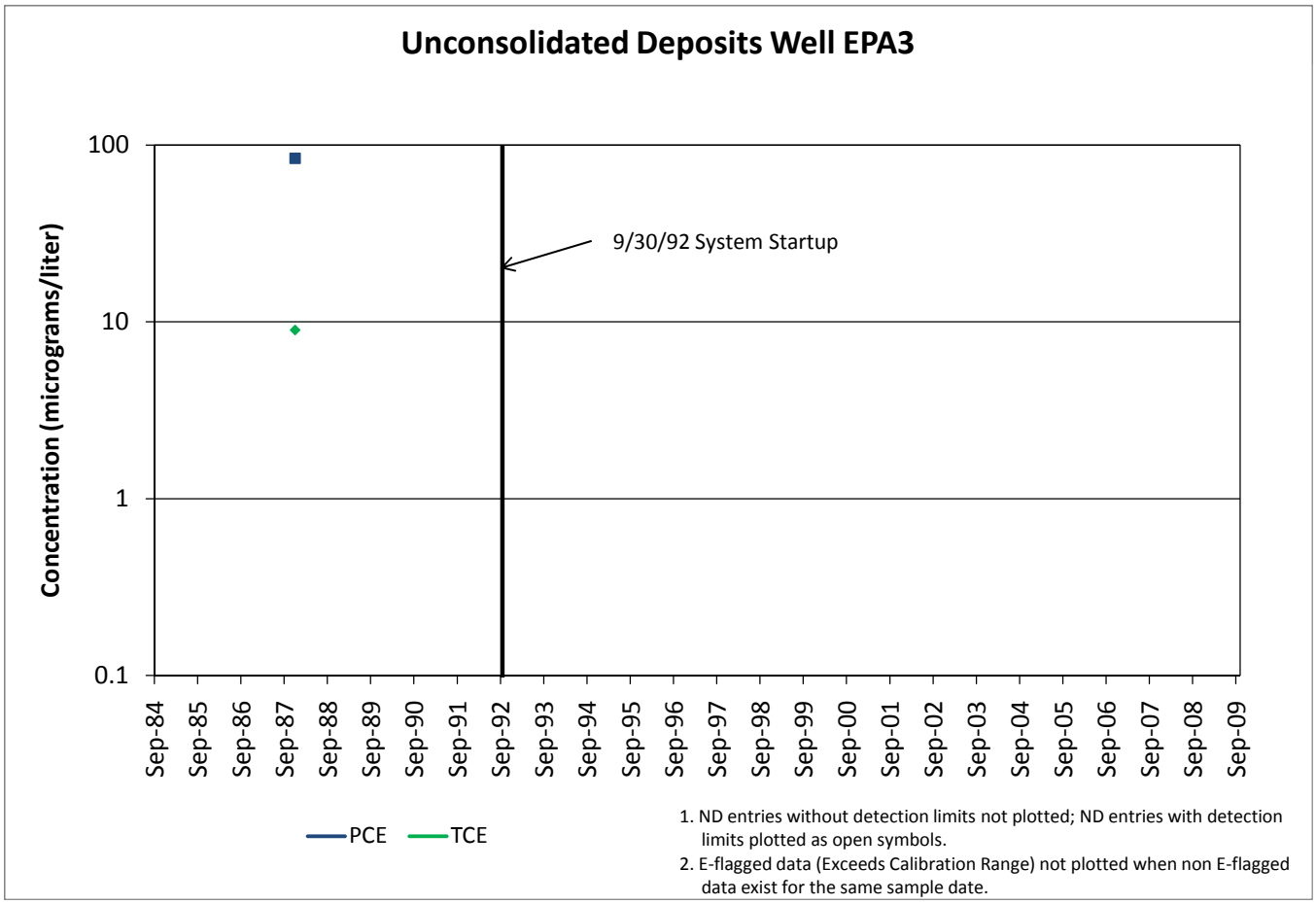


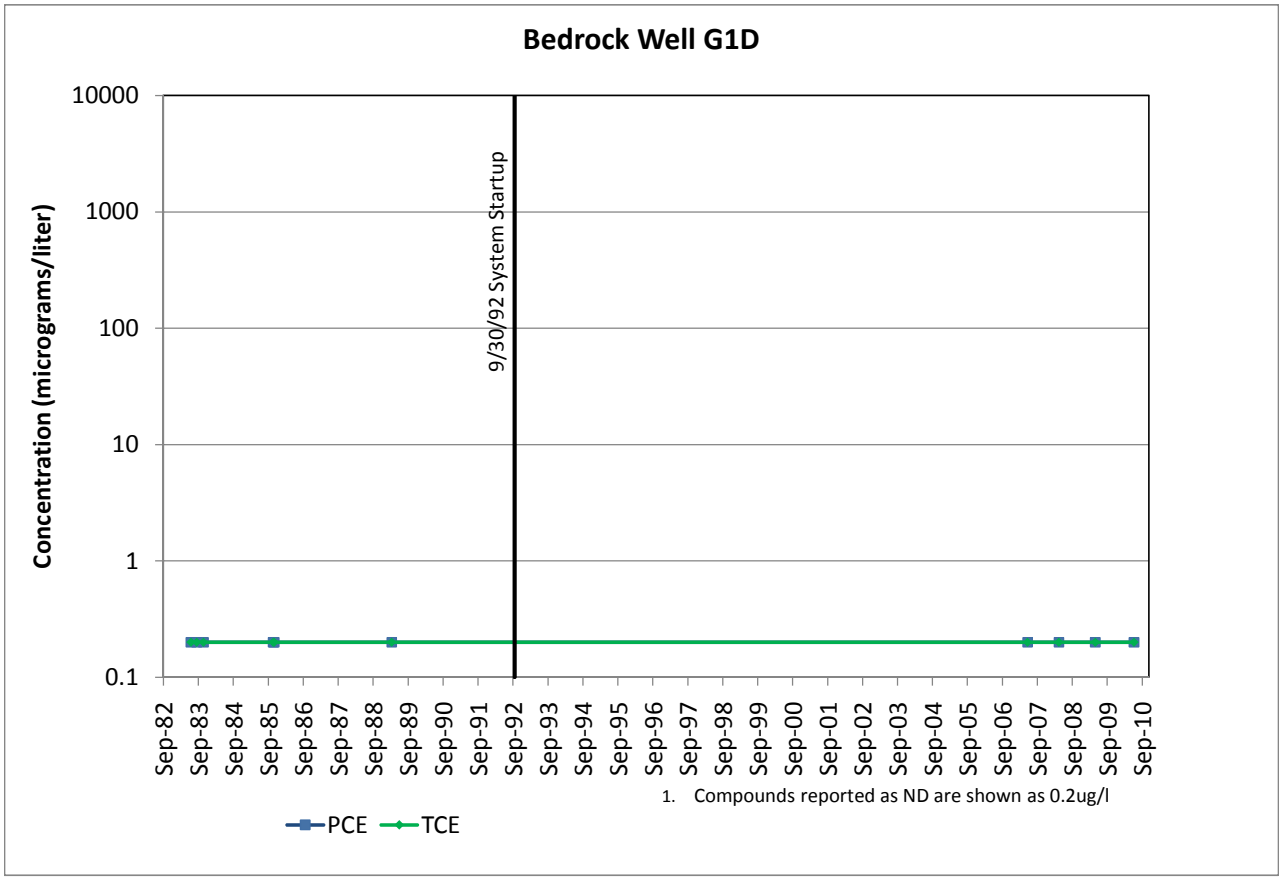
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

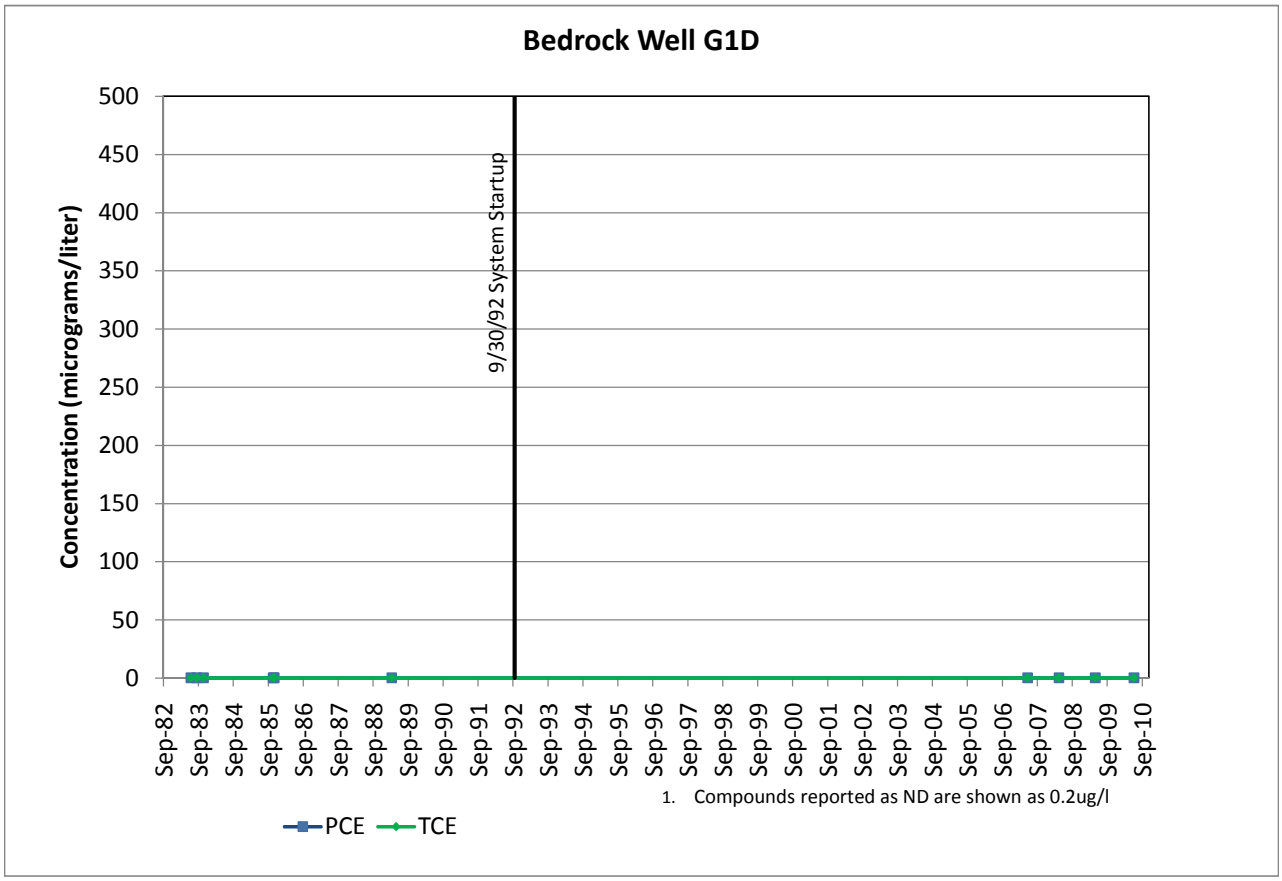

Unconsolidated Deposits Well EPA2
Concentration (micrograms/liter)
14
12
10
8
6
4
2
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

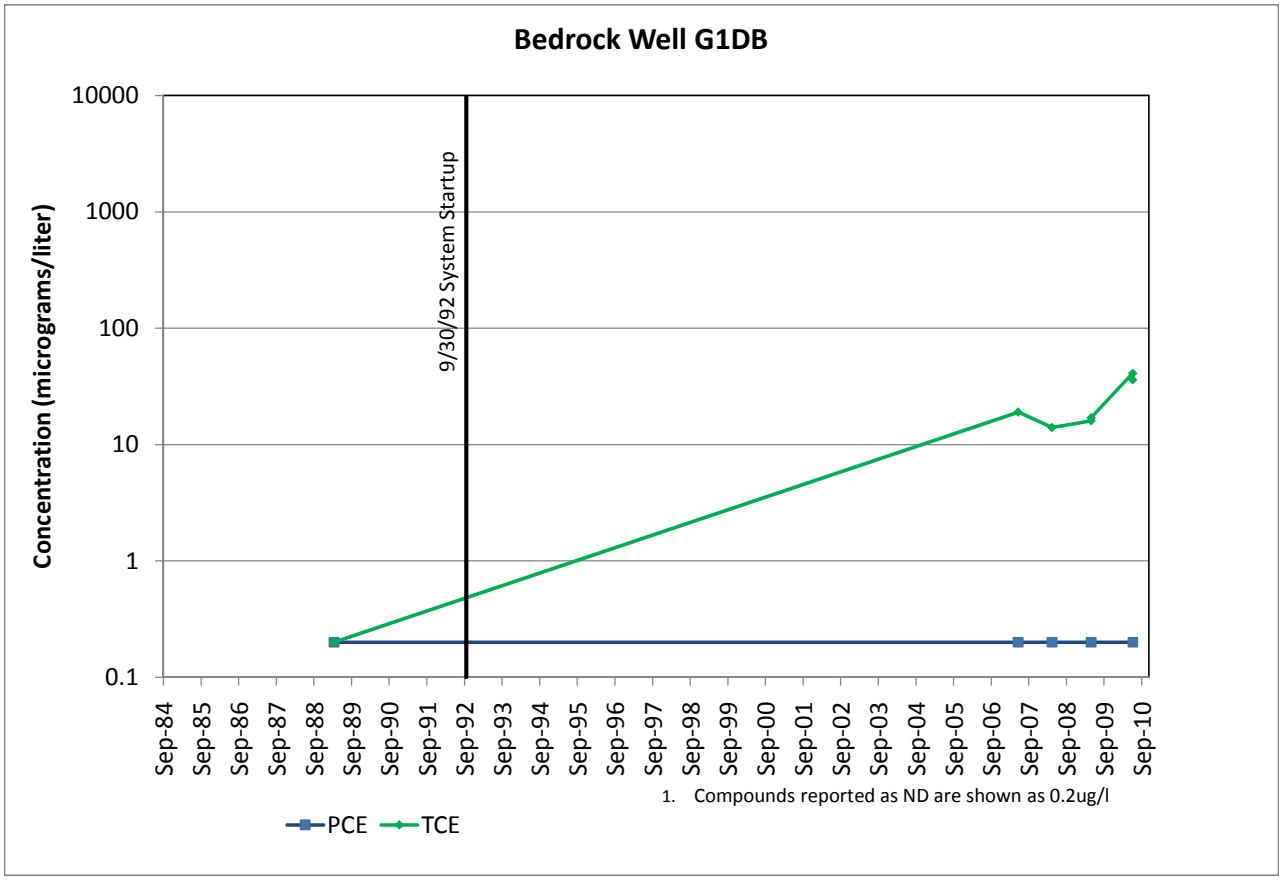

Unconsolidated Deposits Well EPA2
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

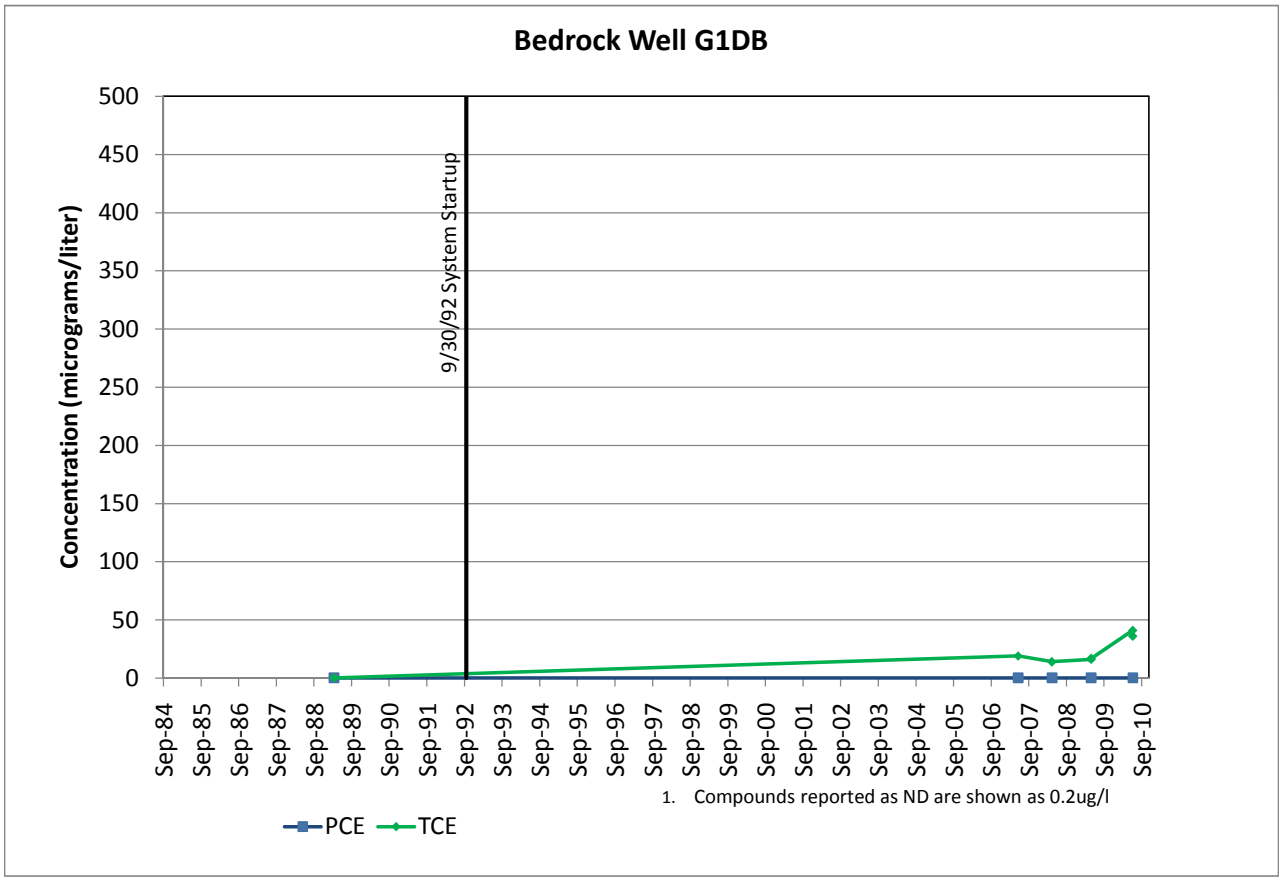

Unconsolidated Deposits Well EPA3
Concentration (micrograms/liter)
90
80
70
60
50
40
30
20
10
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

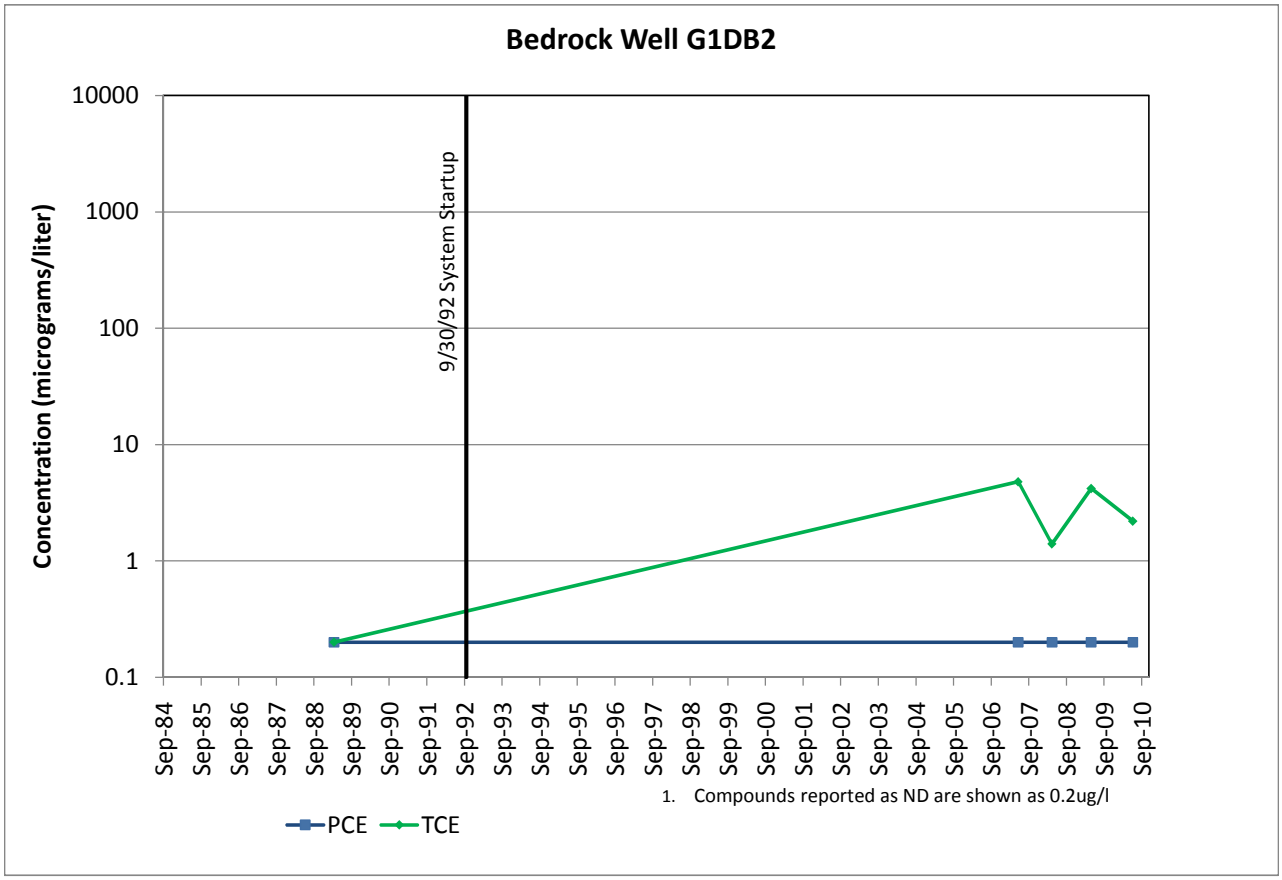

Unconsolidated Deposits Well EPA3
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

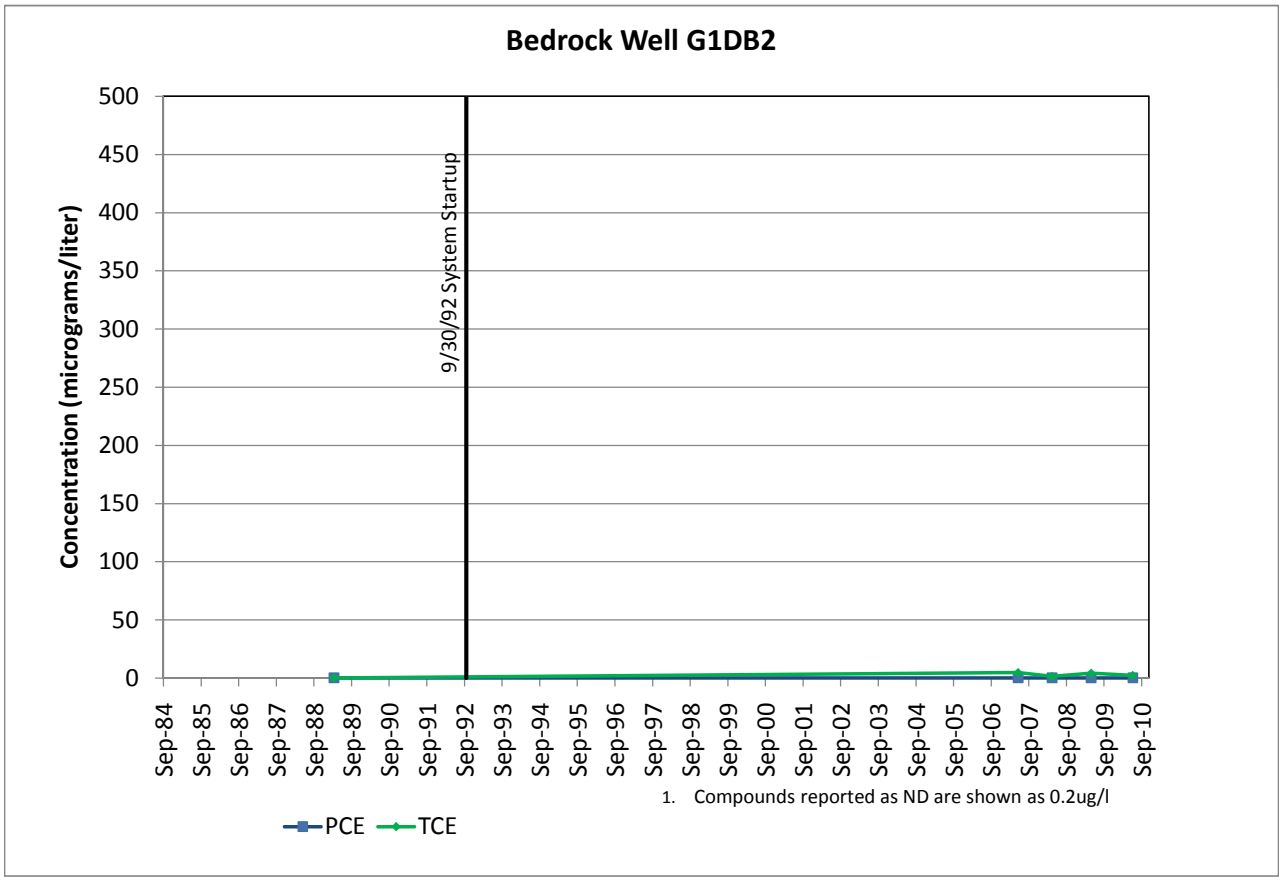

Bedrock Well G1D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

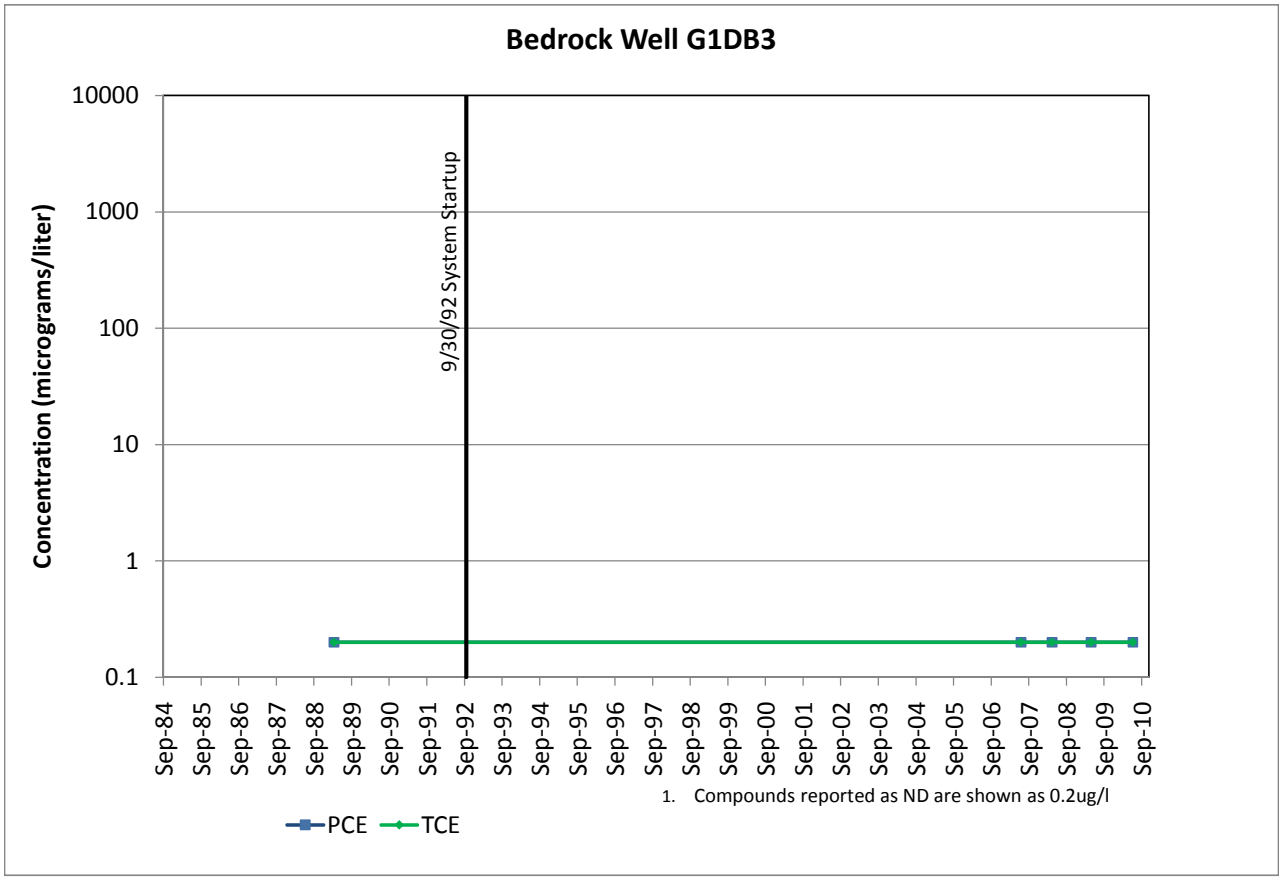

Bedrock Well G1D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

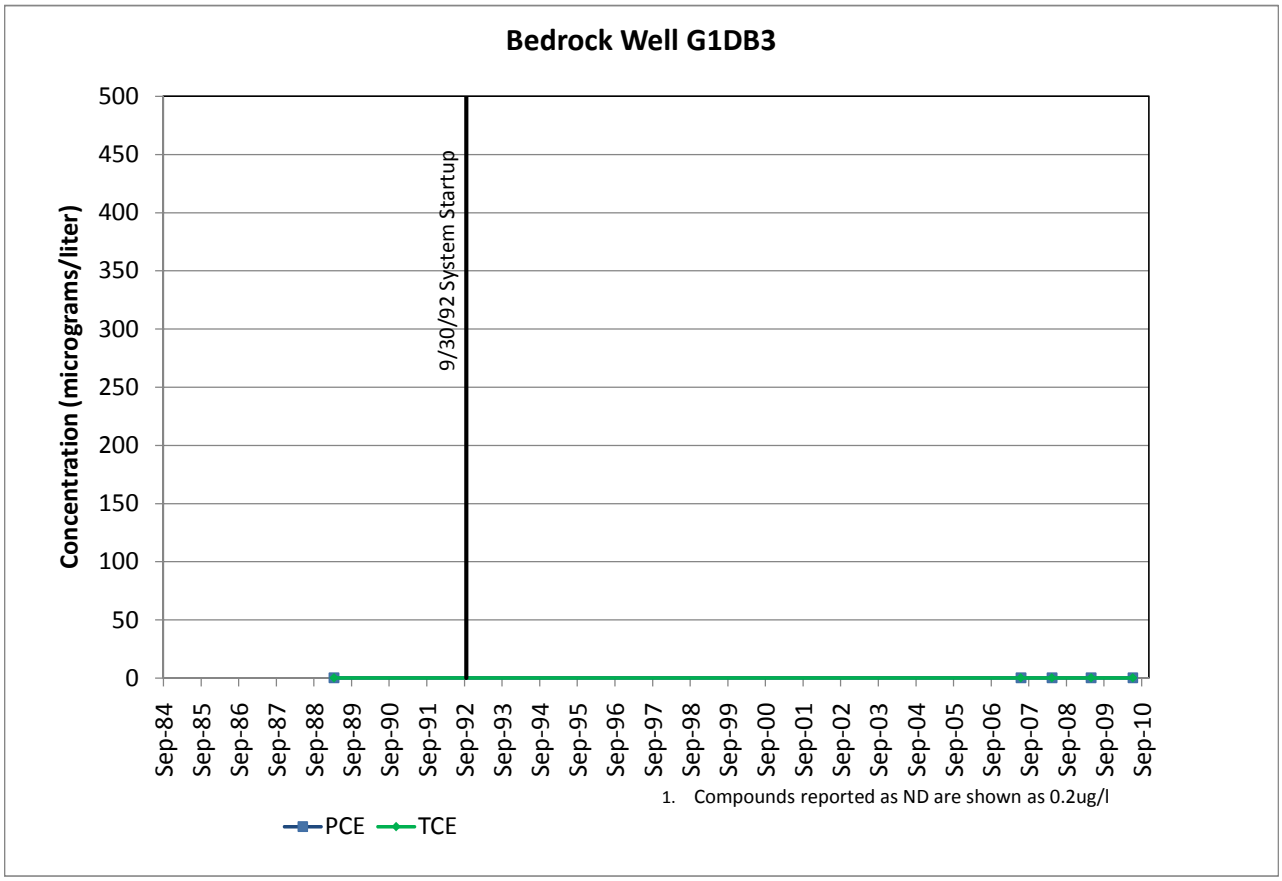

Bedrock Well G1DB
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

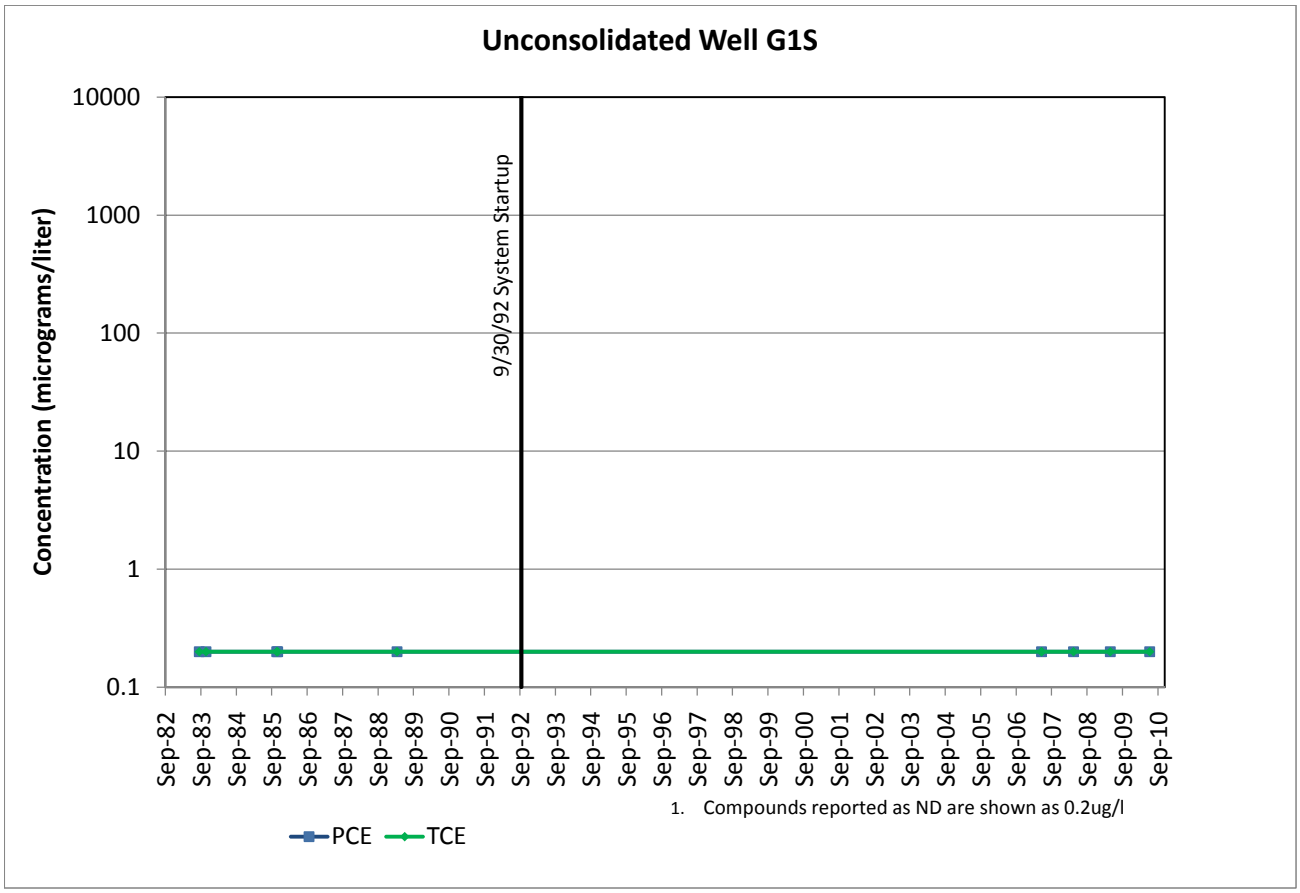

Bedrock Well G1DB
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

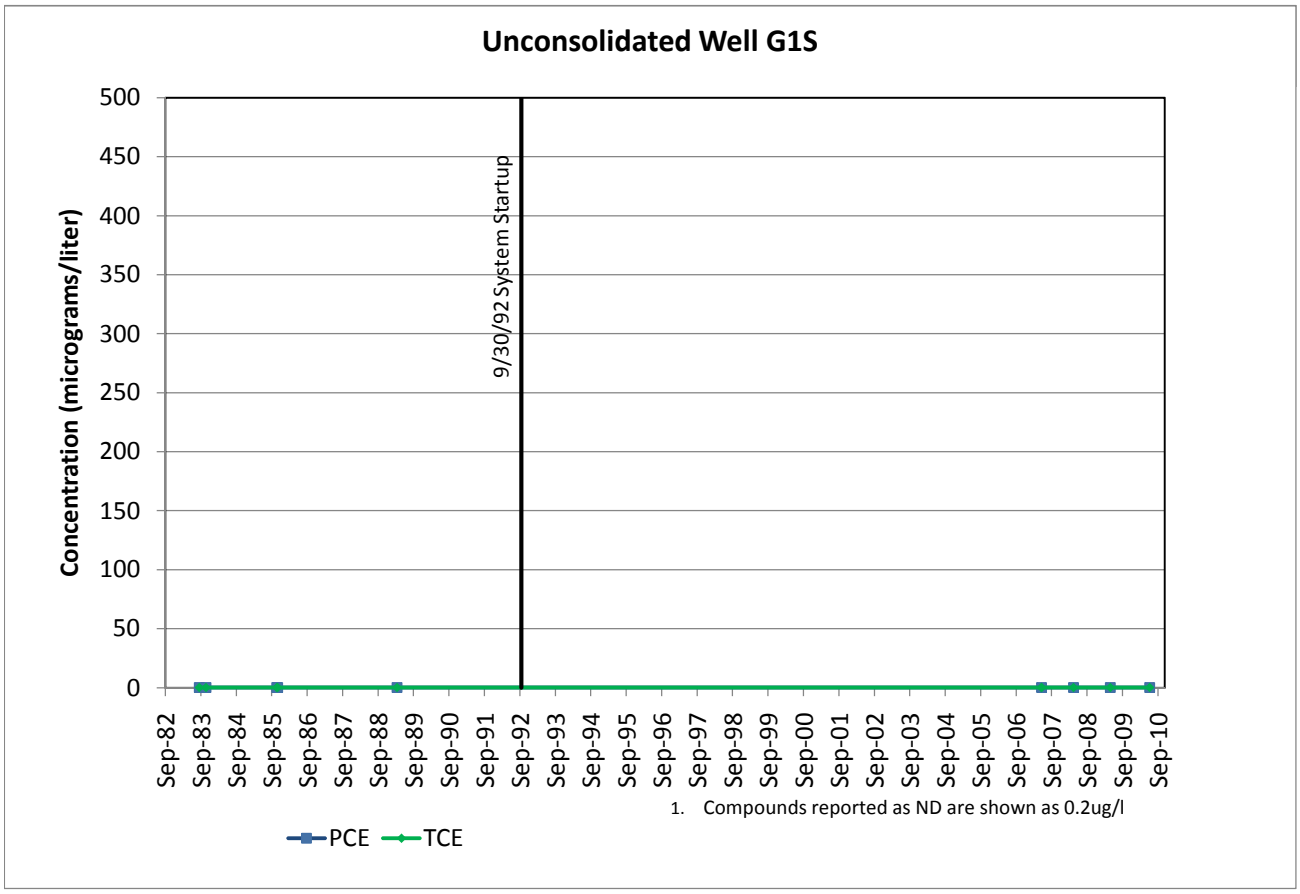

Bedrock Well G1DB2
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

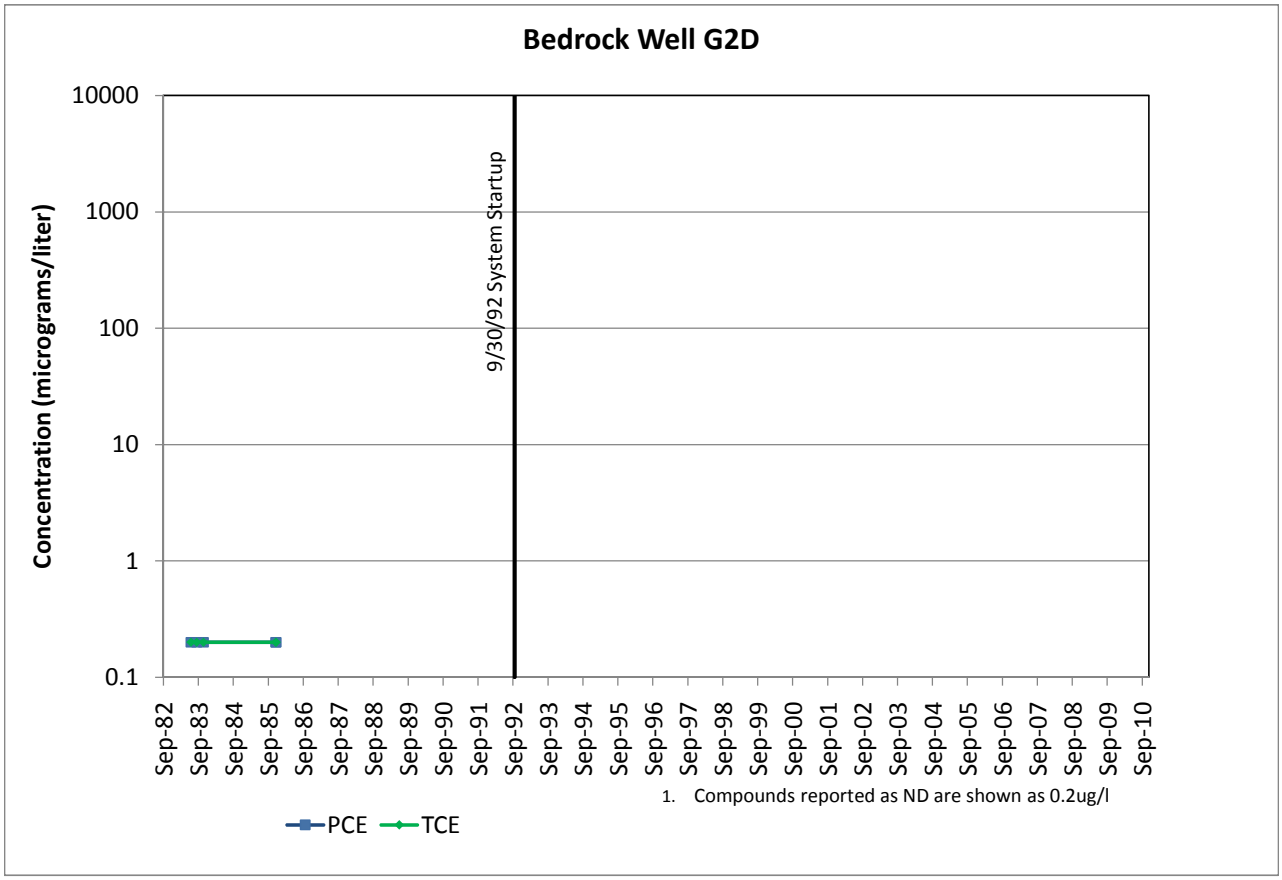

Bedrock Well G1DB2
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

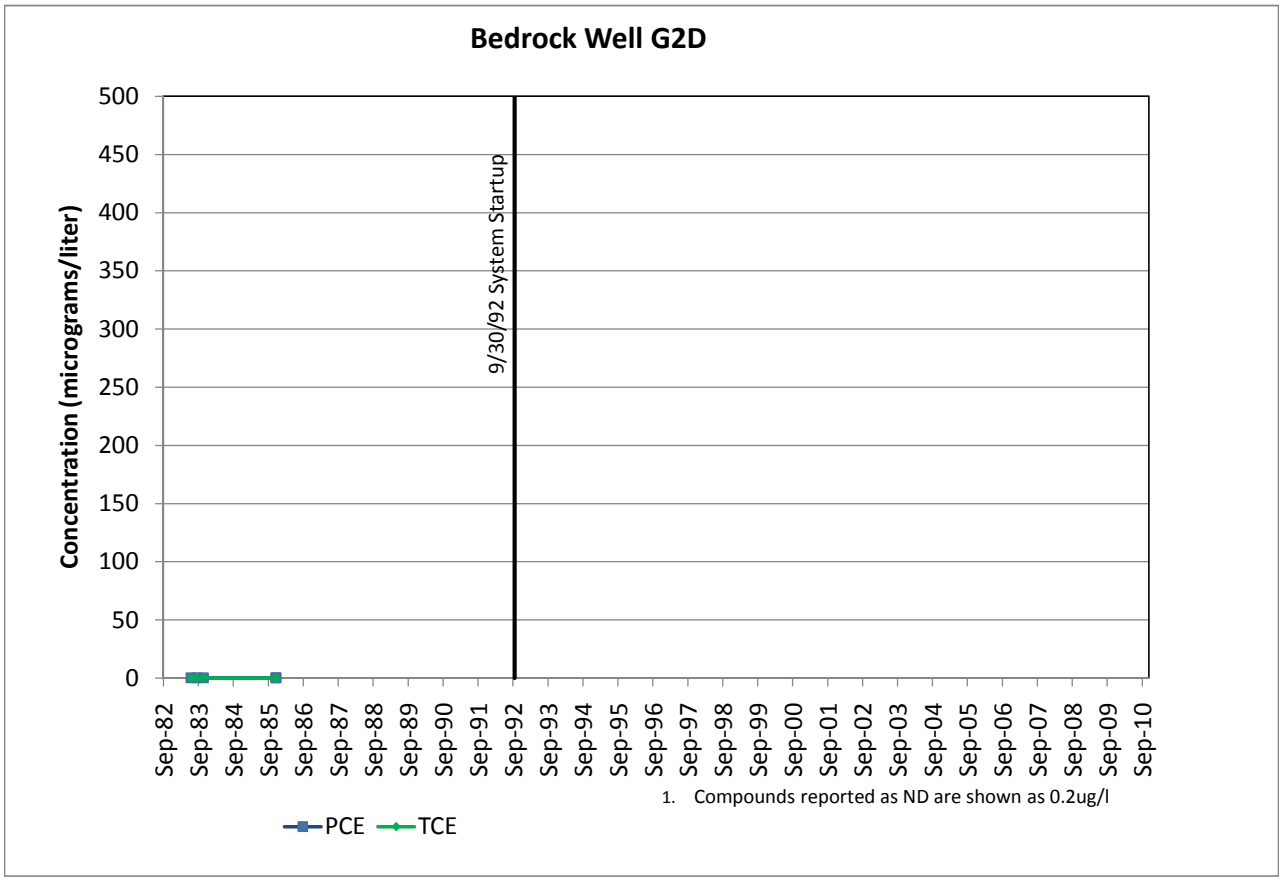

Bedrock Well G1DB3
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

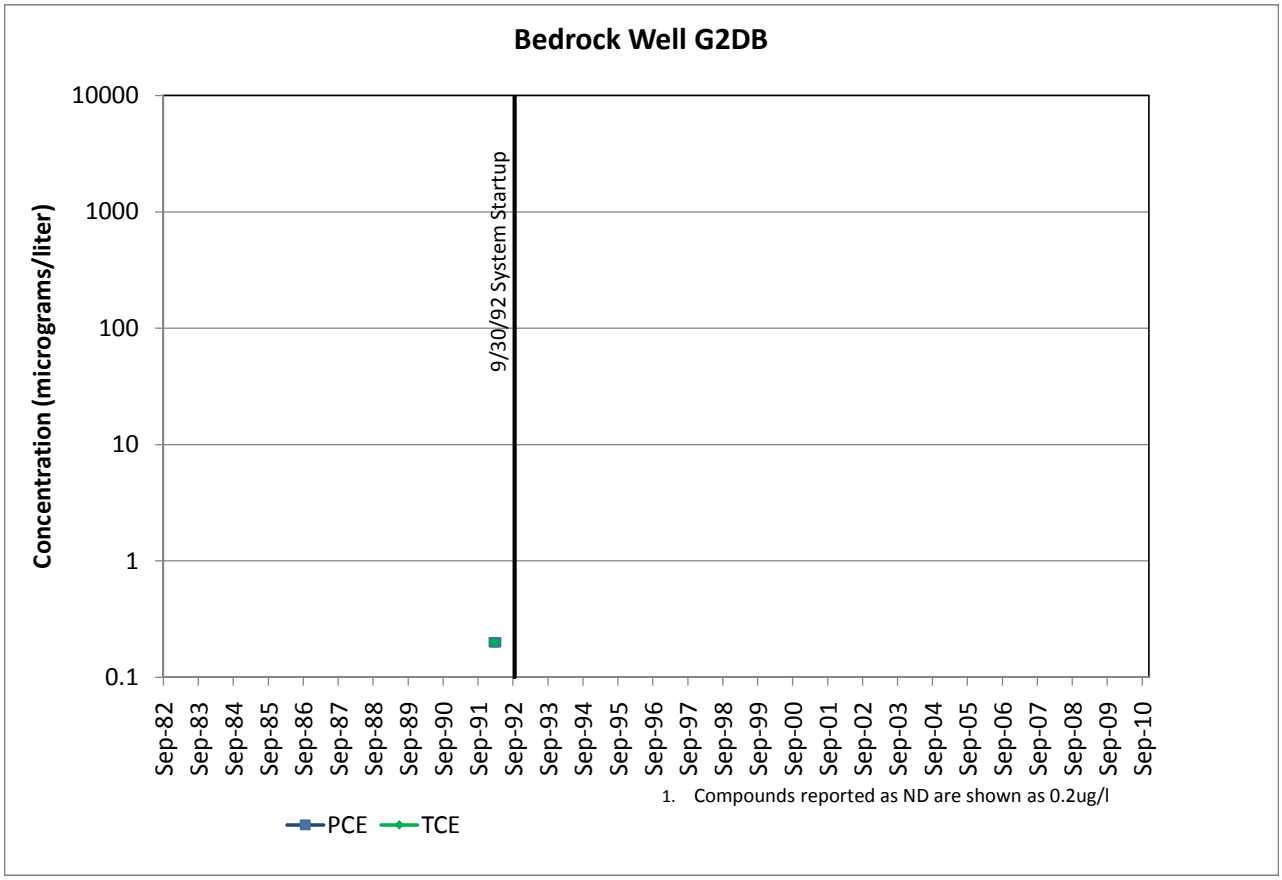

Bedrock Well G1DB3
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

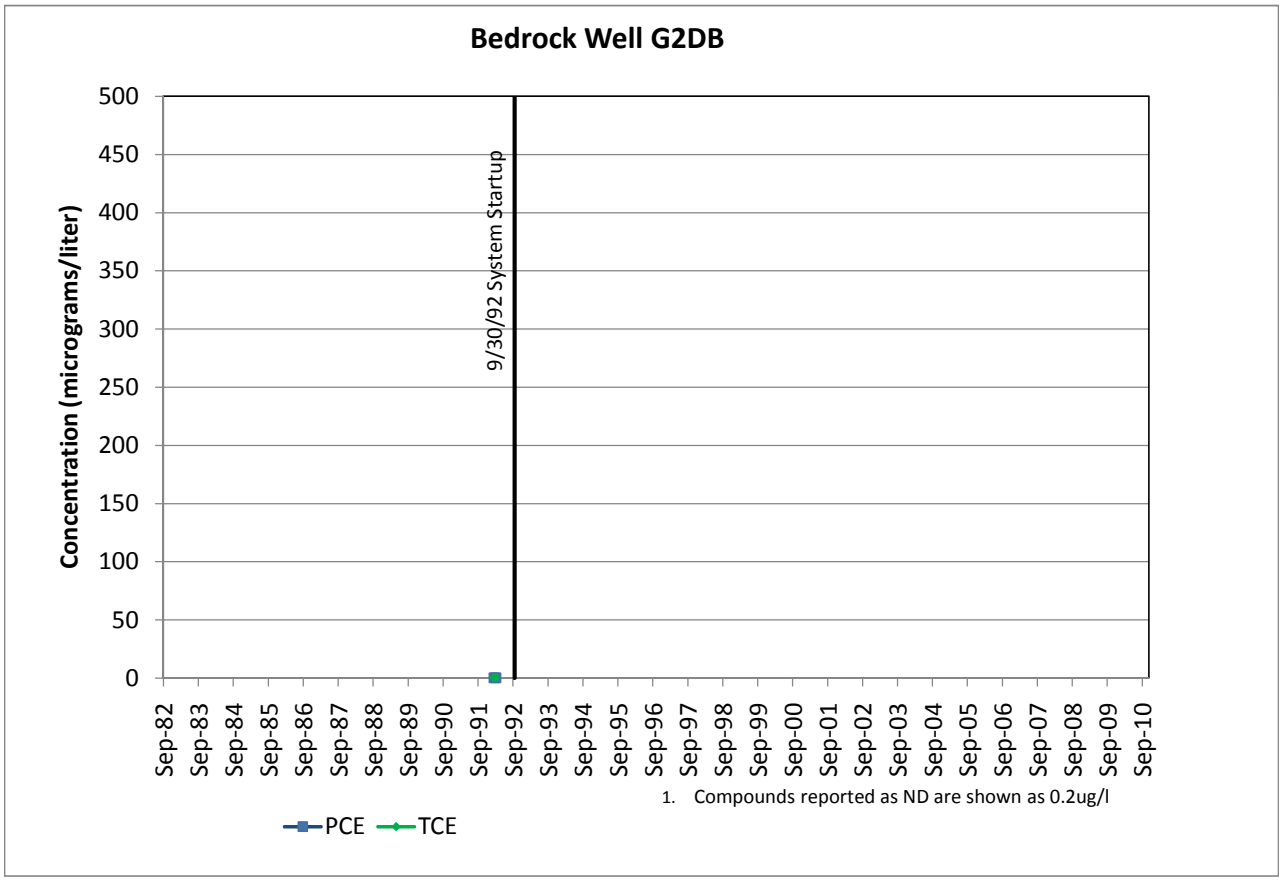

Unconsolidated Well G1S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

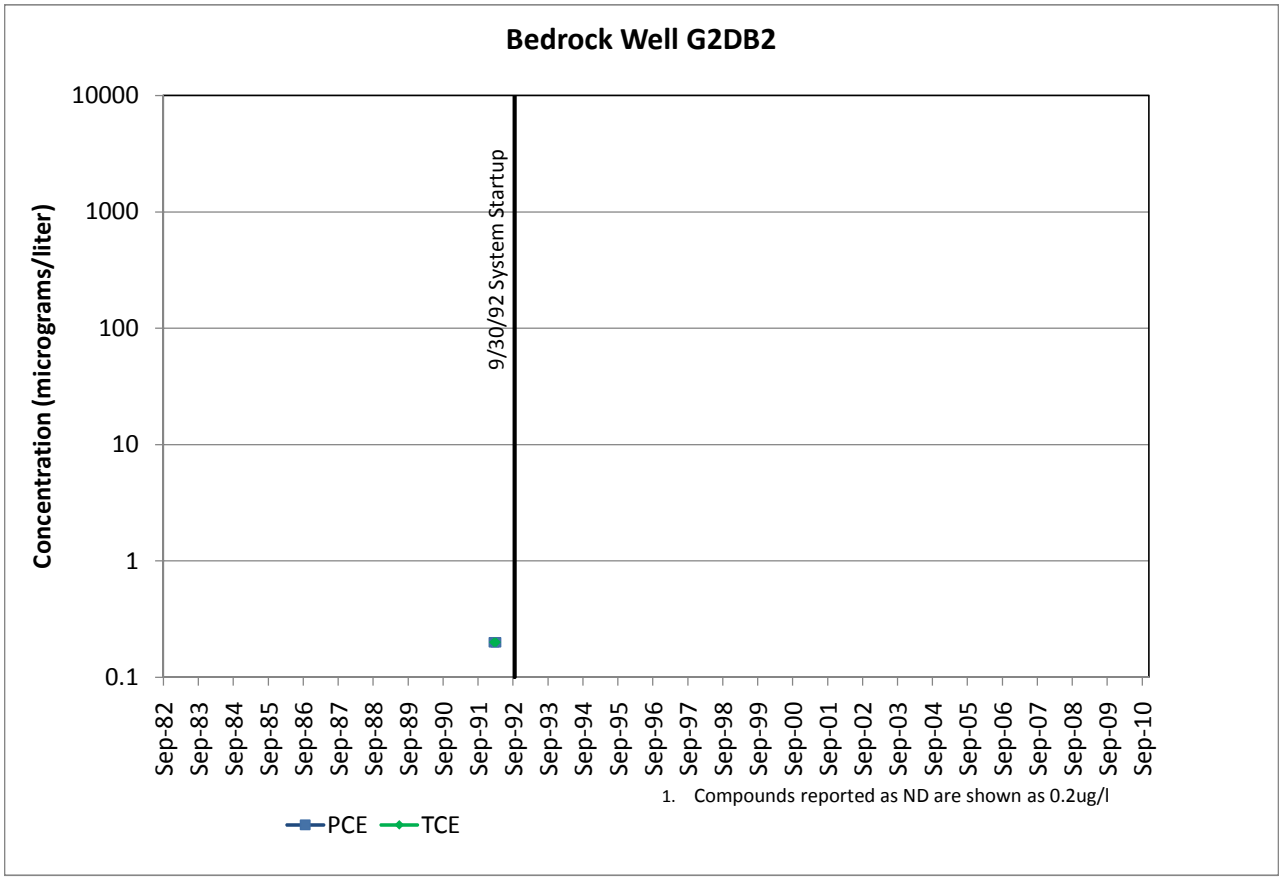

Unconsolidated Well G1S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

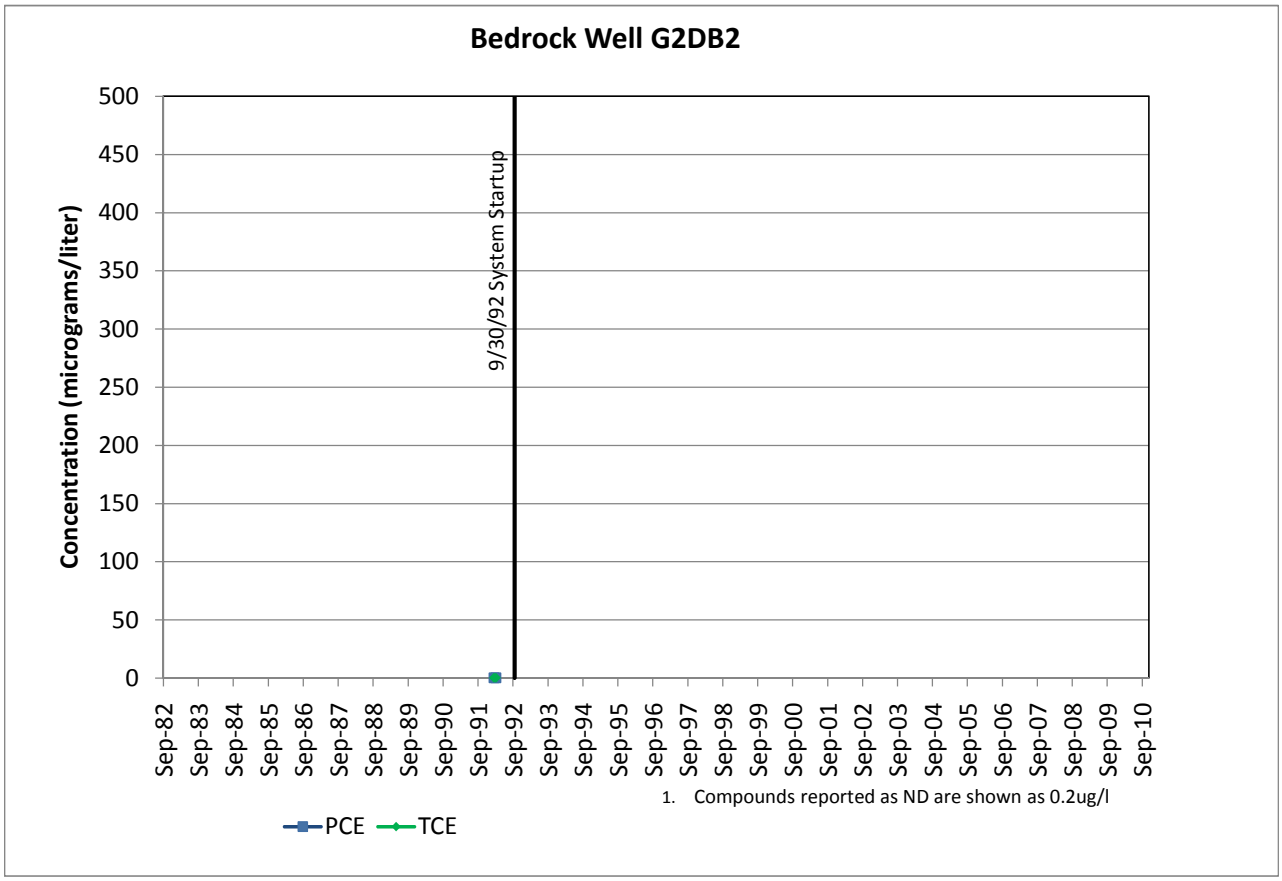

Bedrock Well G2D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

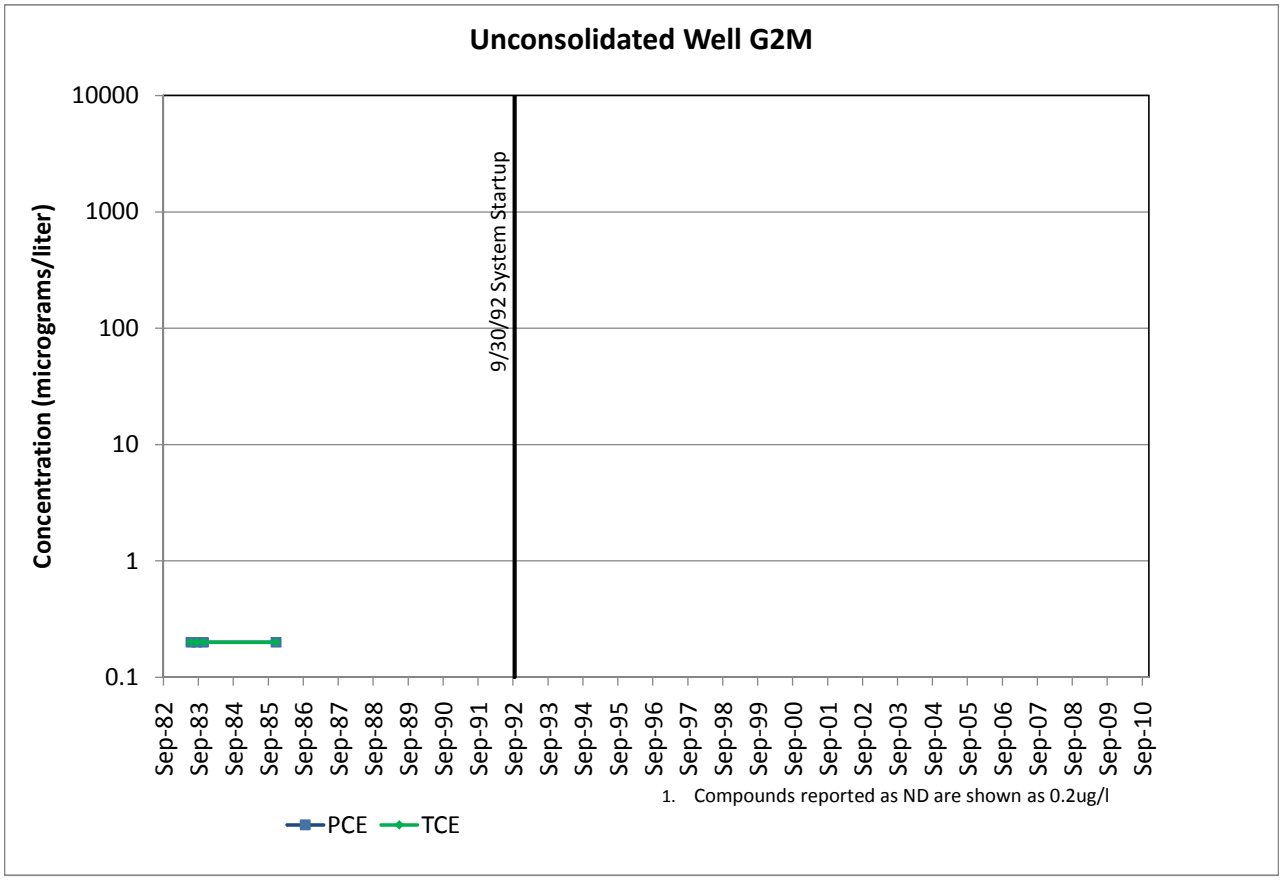

Bedrock Well G2D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

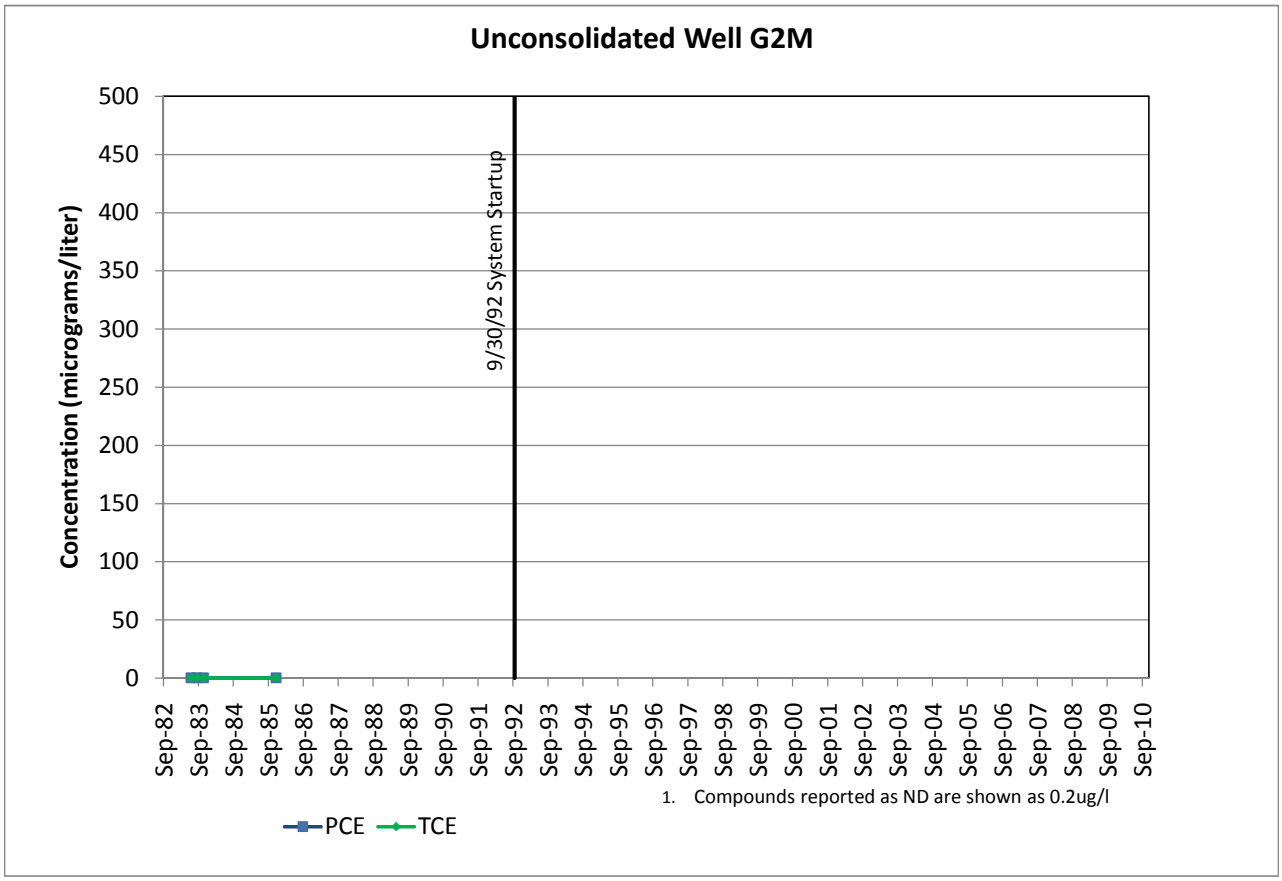

Bedrock Well G2DB
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

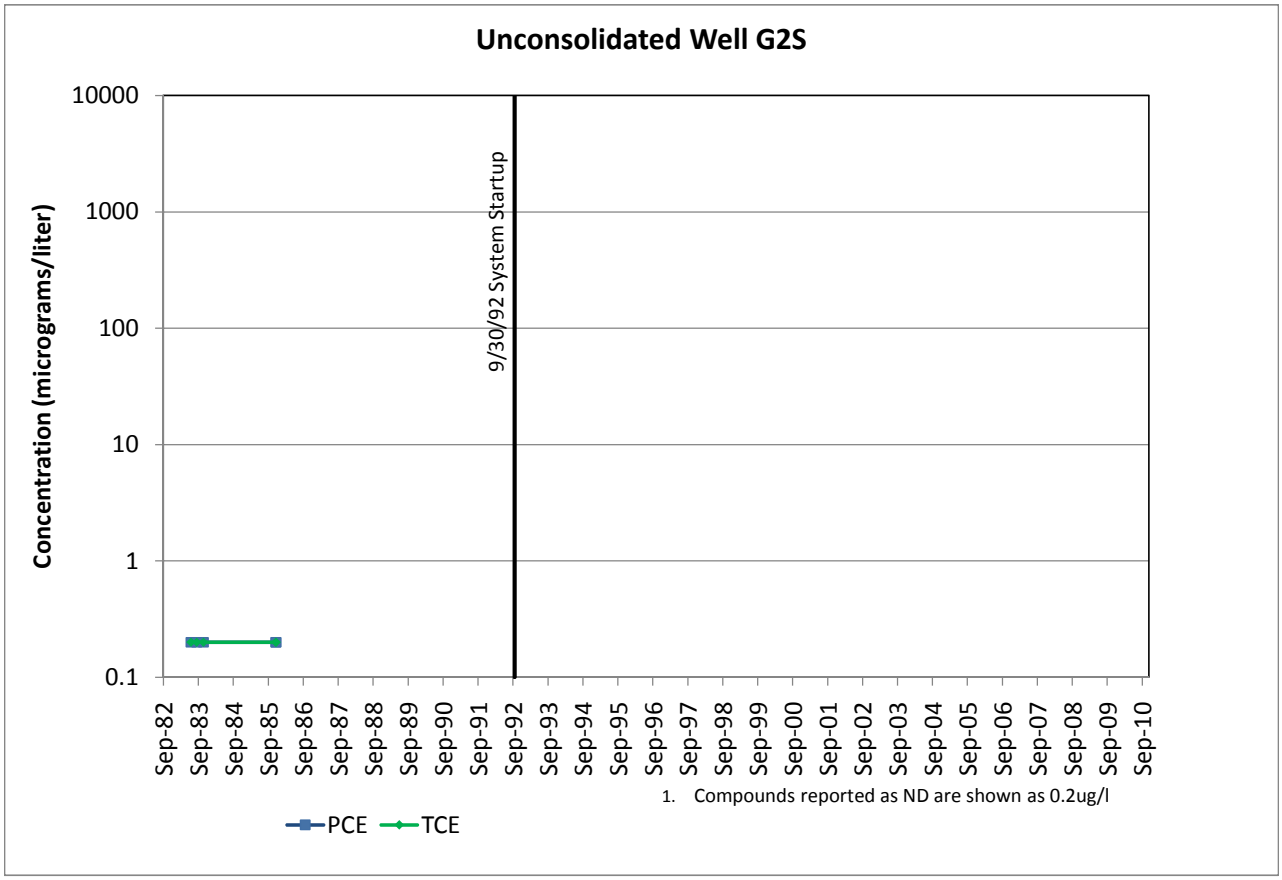

Bedrock Well G2DB
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

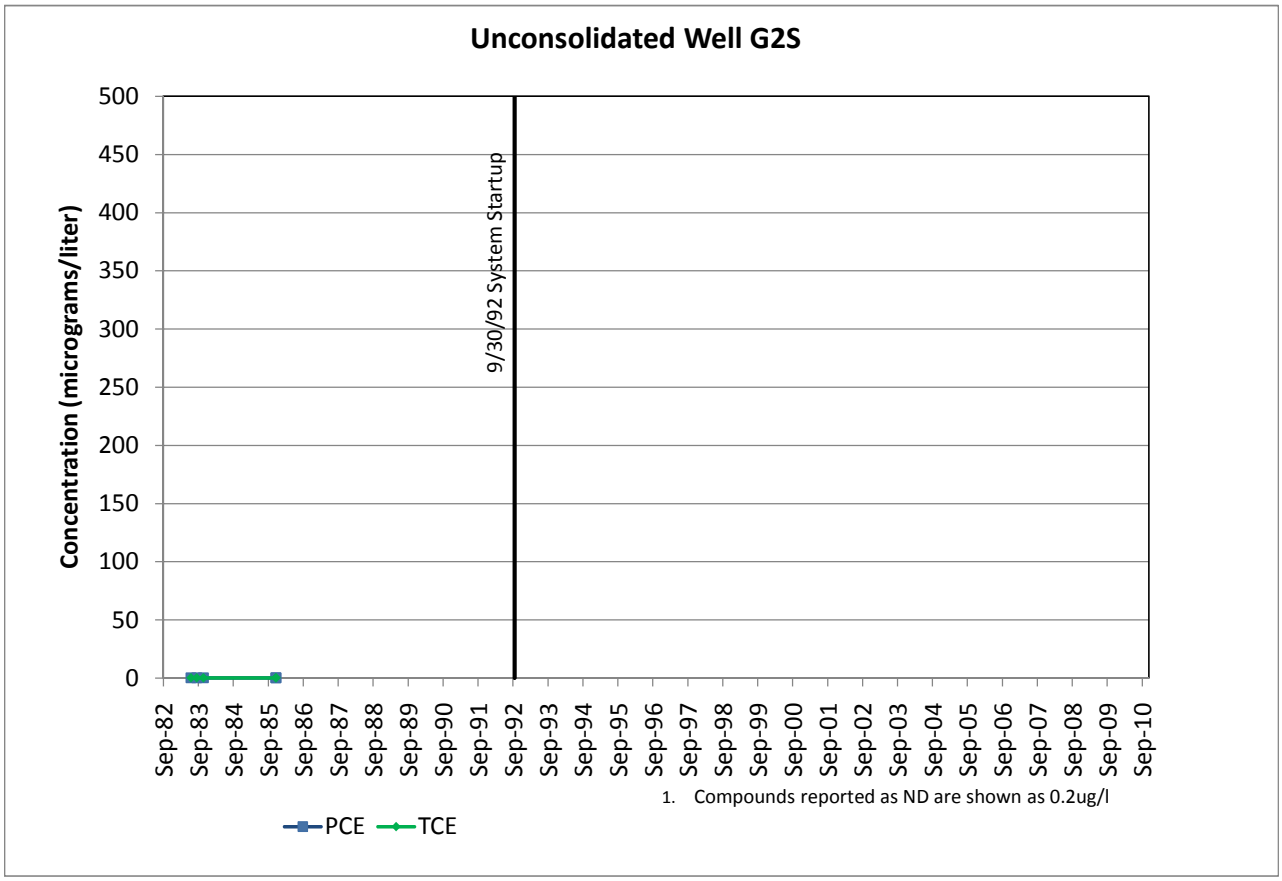

Bedrock Well G2DB2
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

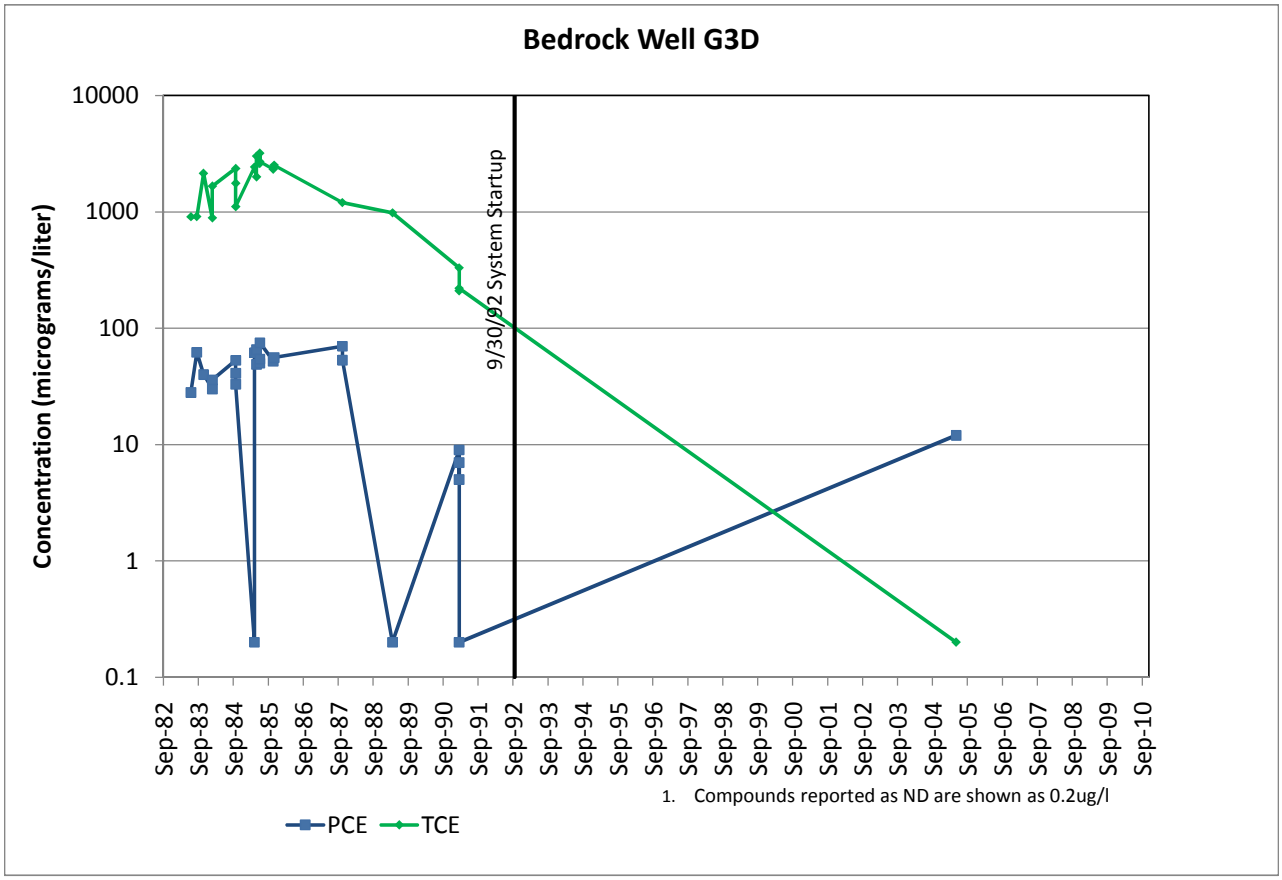

Bedrock Well G2DB2
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

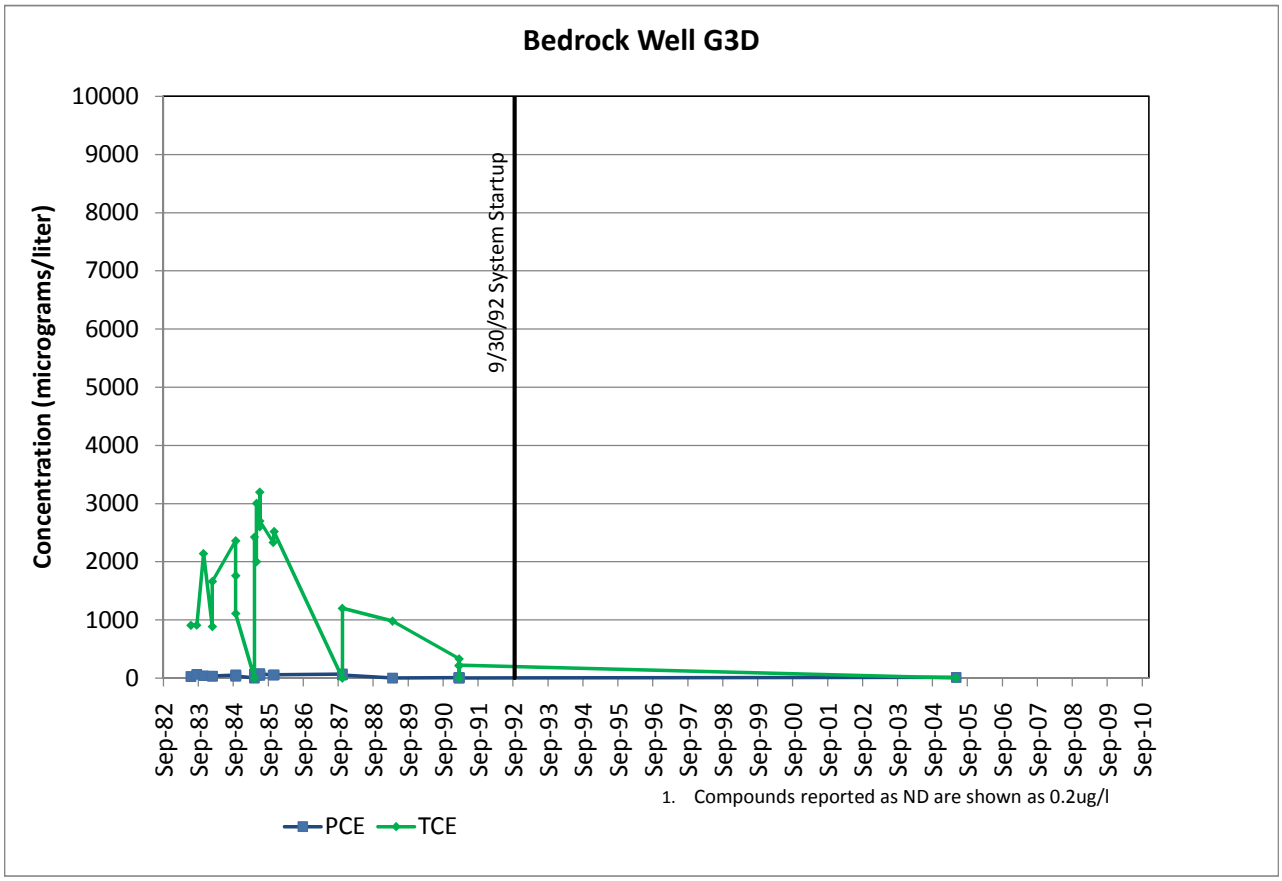

Unconsolidated Well G2M
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

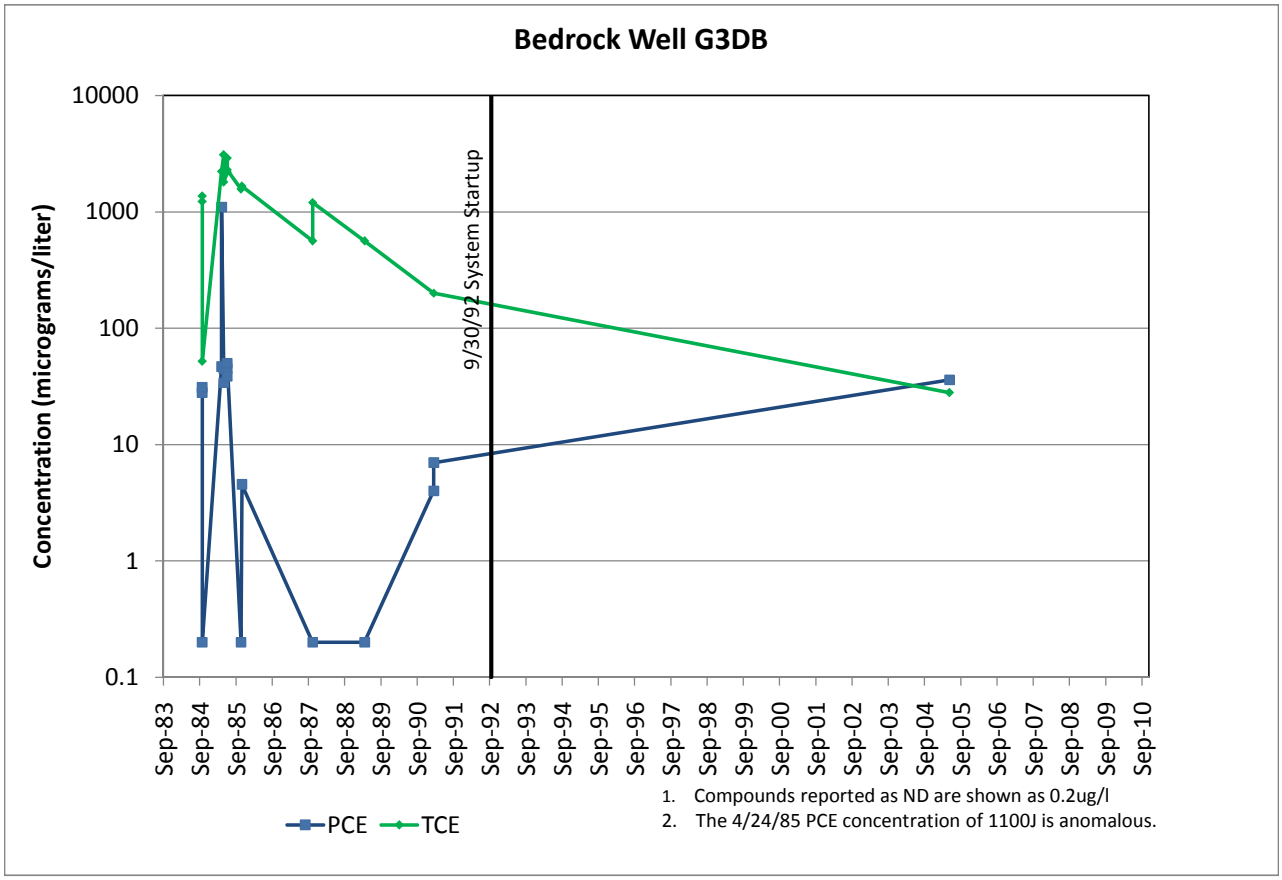

Unconsolidated Well G2M
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

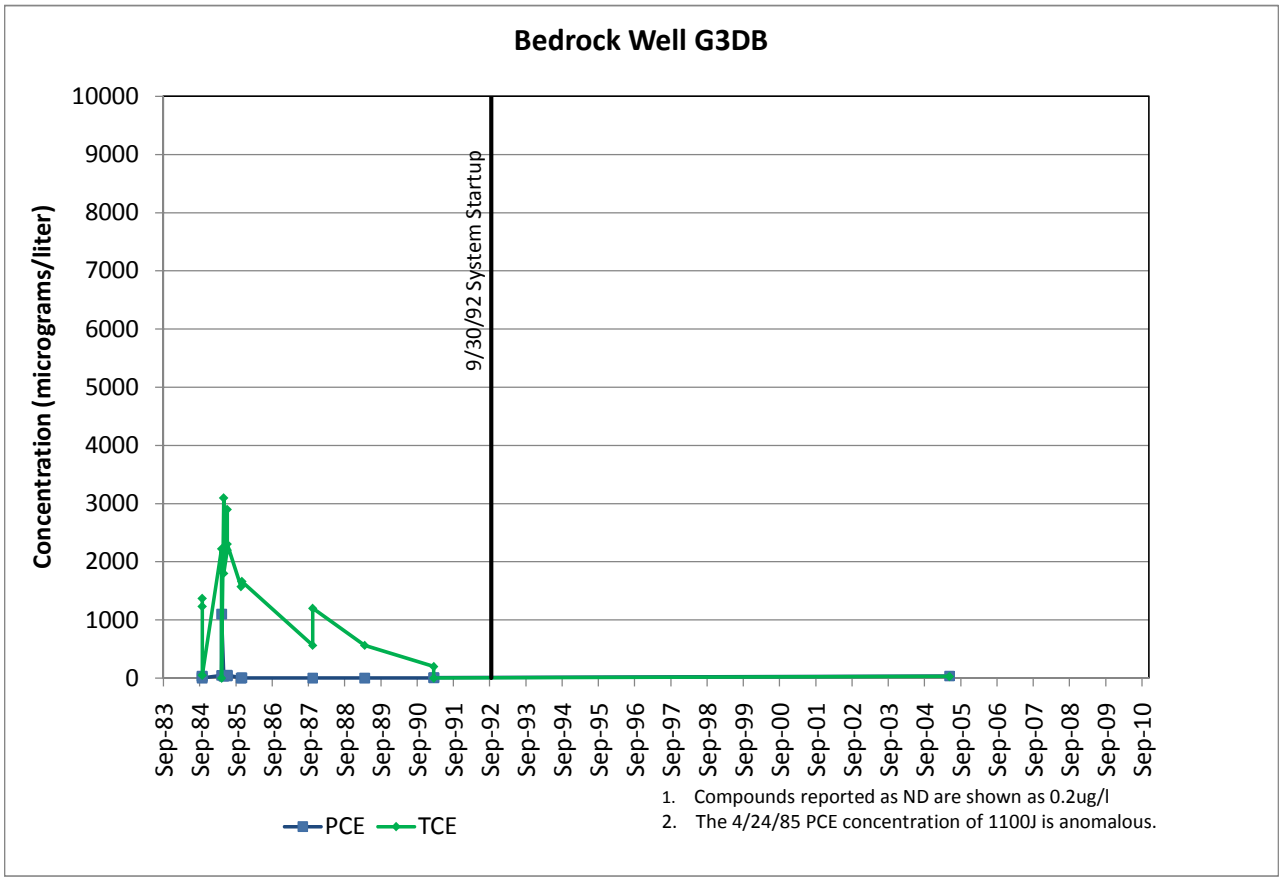

Unconsolidated Well G2S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

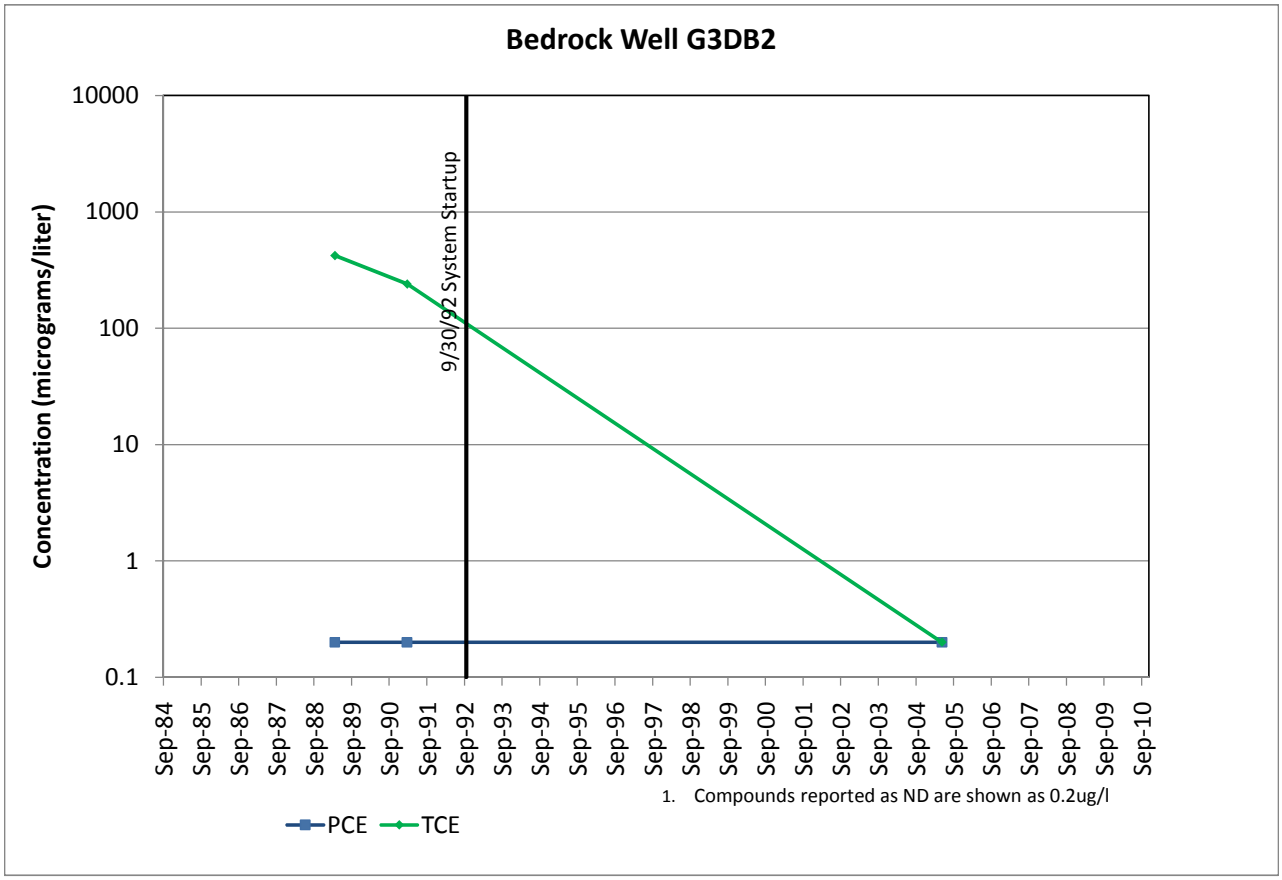

Unconsolidated Well G2S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

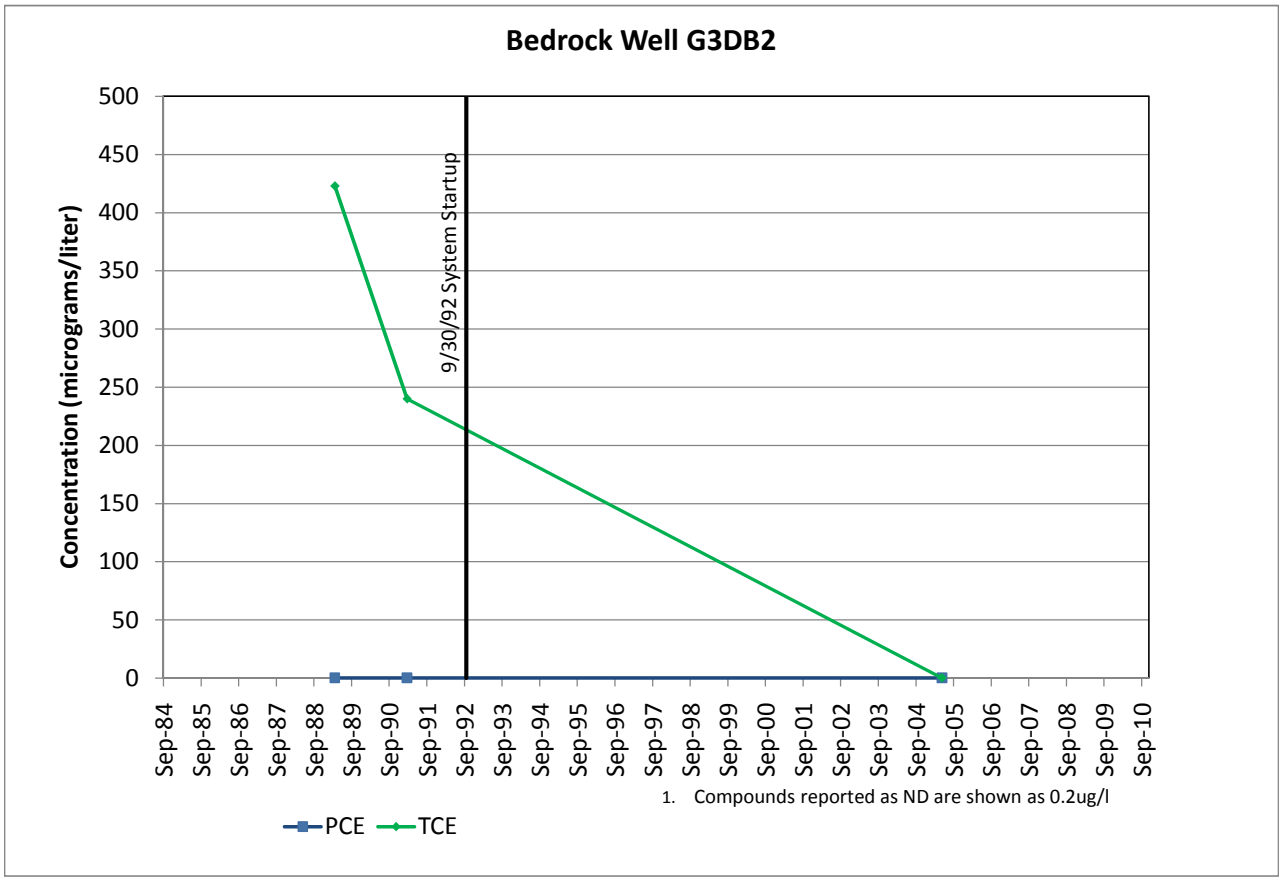

Bedrock Well G3D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

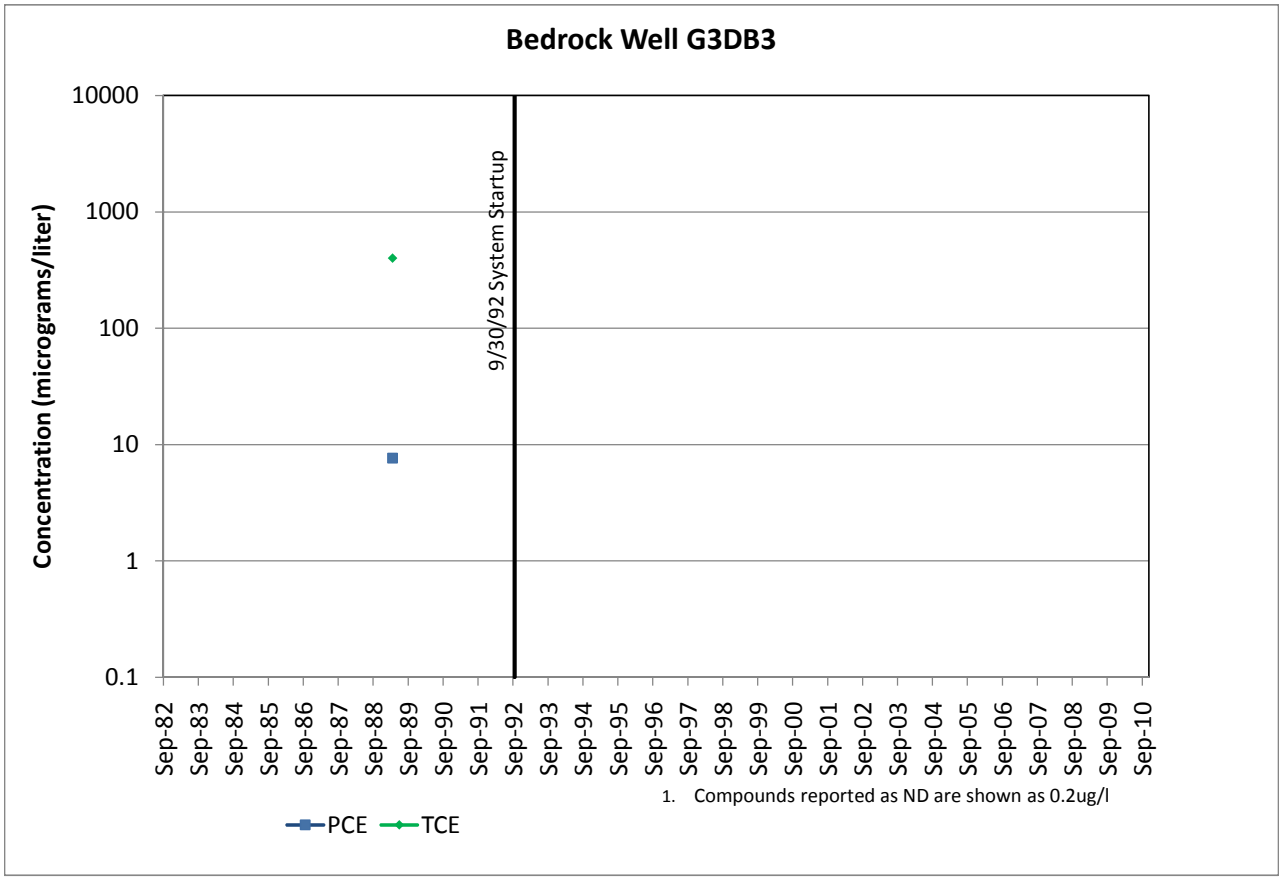

Bedrock Well G3D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

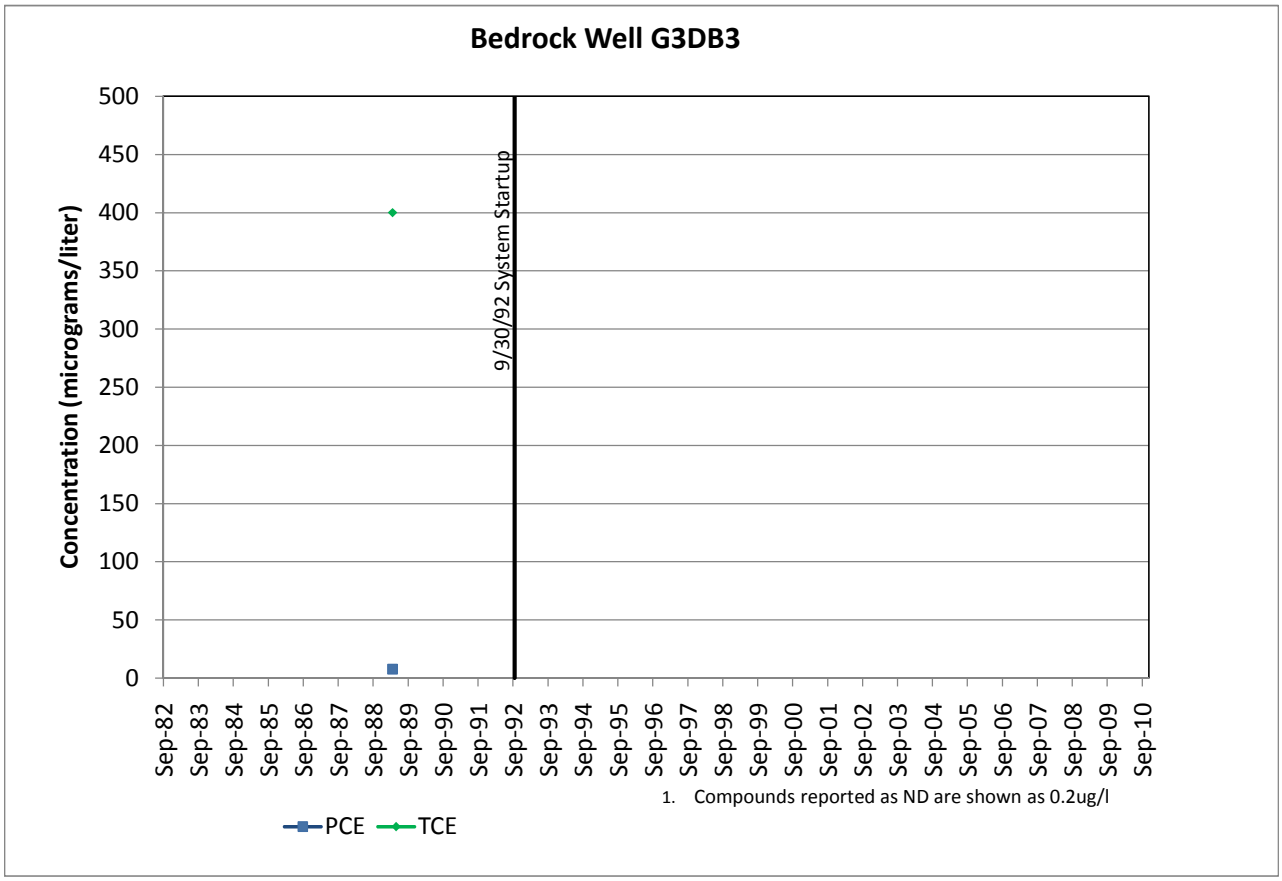

Bedrock Well G3DB
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. Compounds reported as ND are shown as 0.2ug/l
2. The 4/24/85 PCE concentration of 1100J is anomalous.

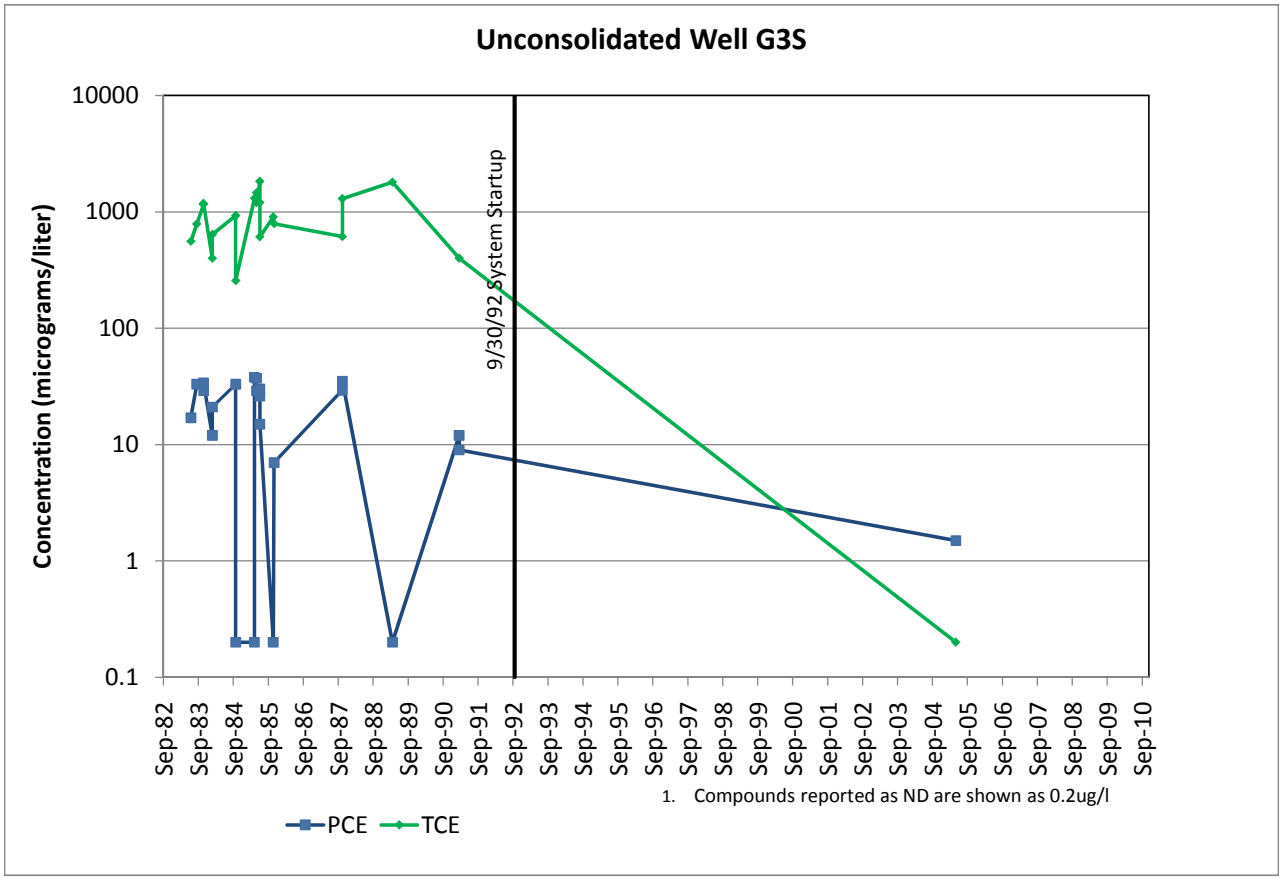

Bedrock Well G3DB
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. Compounds reported as ND are shown as 0.2ug/l
2. The 4/24/85 PCE concentration of 1100J is anomalous.

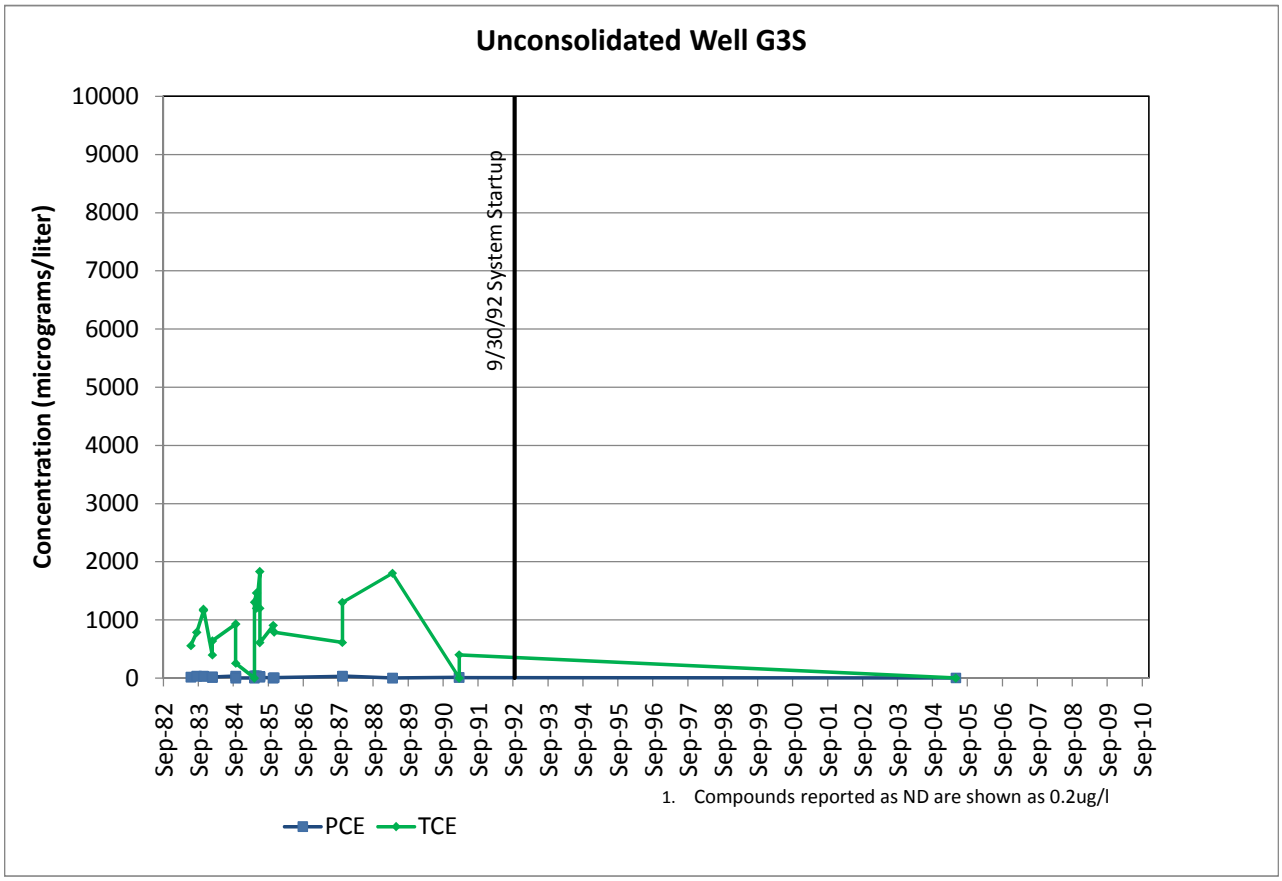

Bedrock Well G3DB2
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

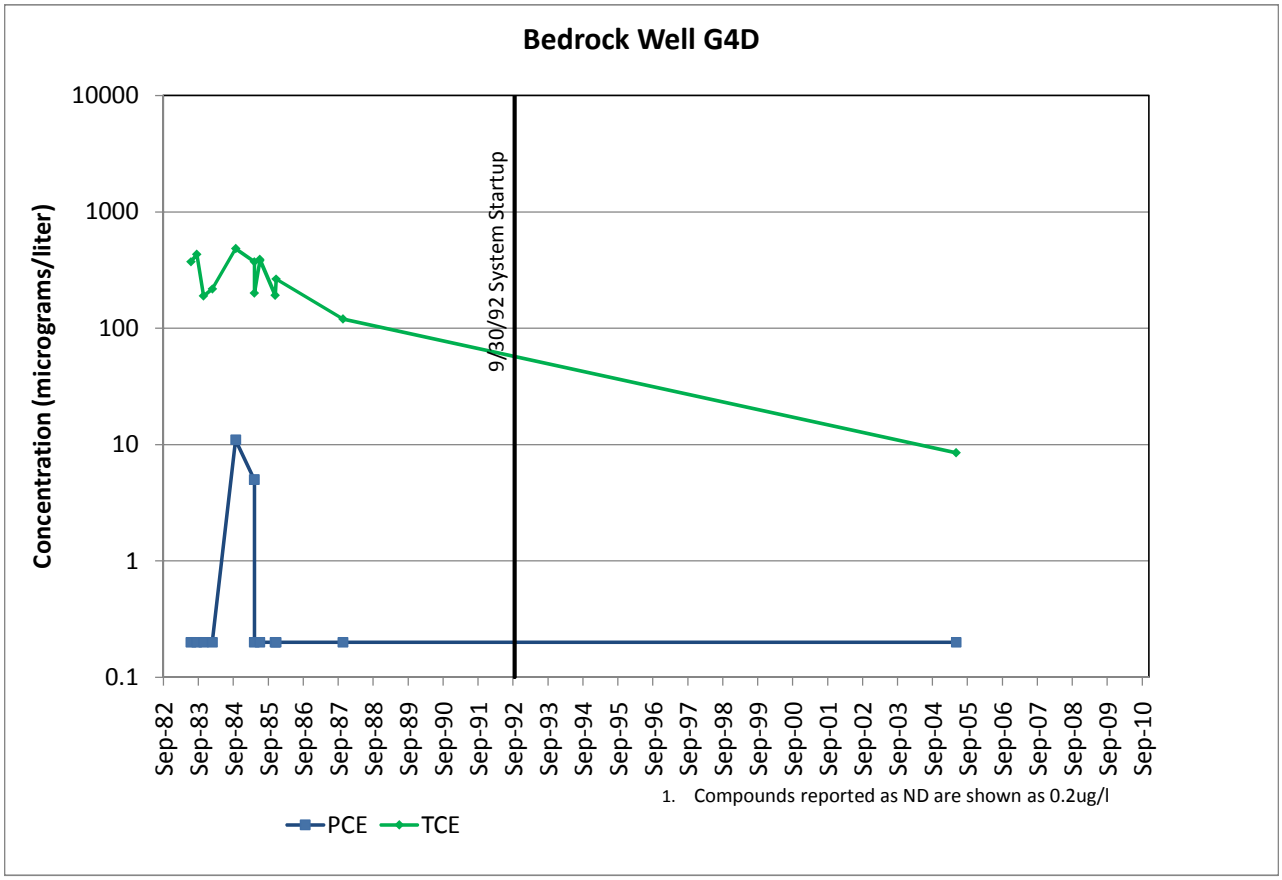

Bedrock Well G3DB2
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

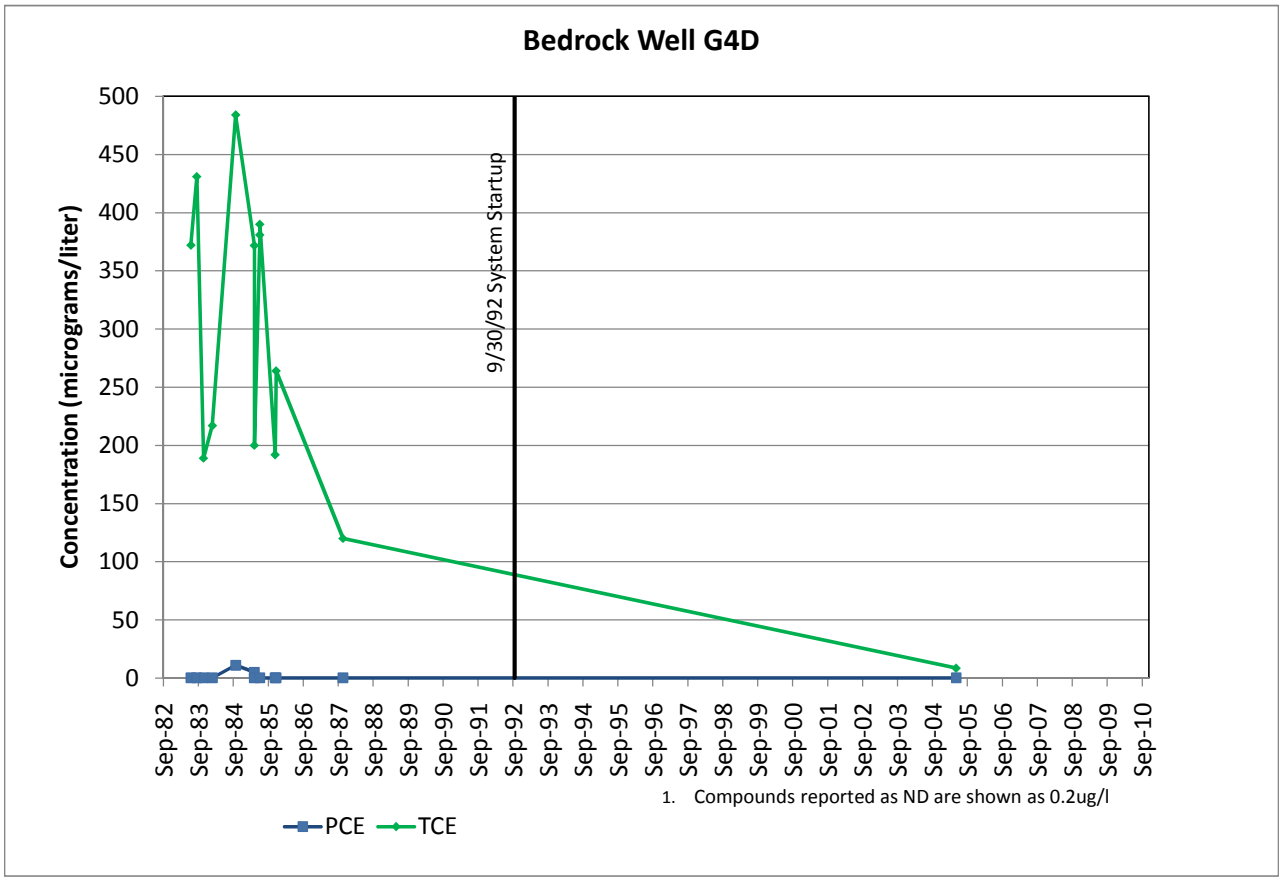

Bedrock Well G3DB3
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

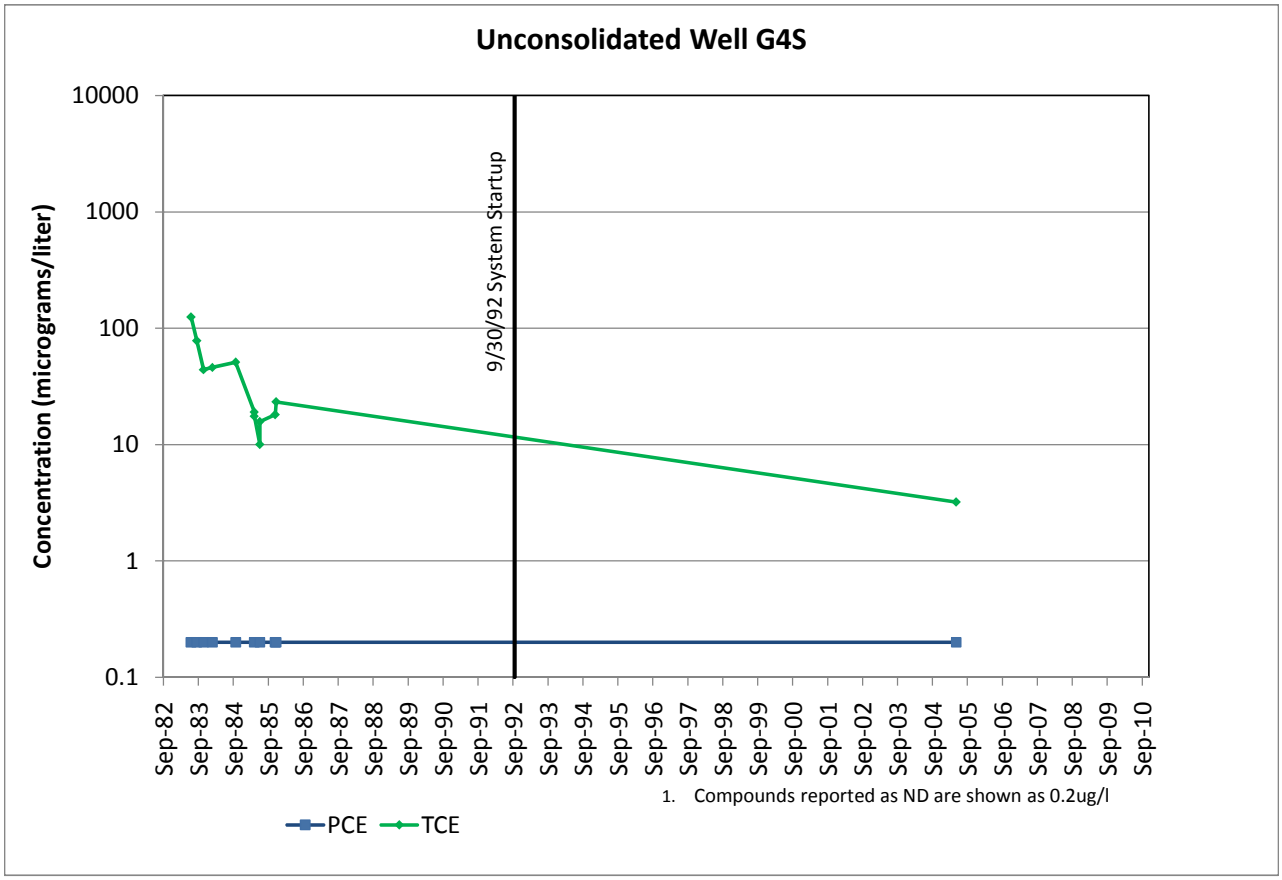

Bedrock Well G3DB3
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

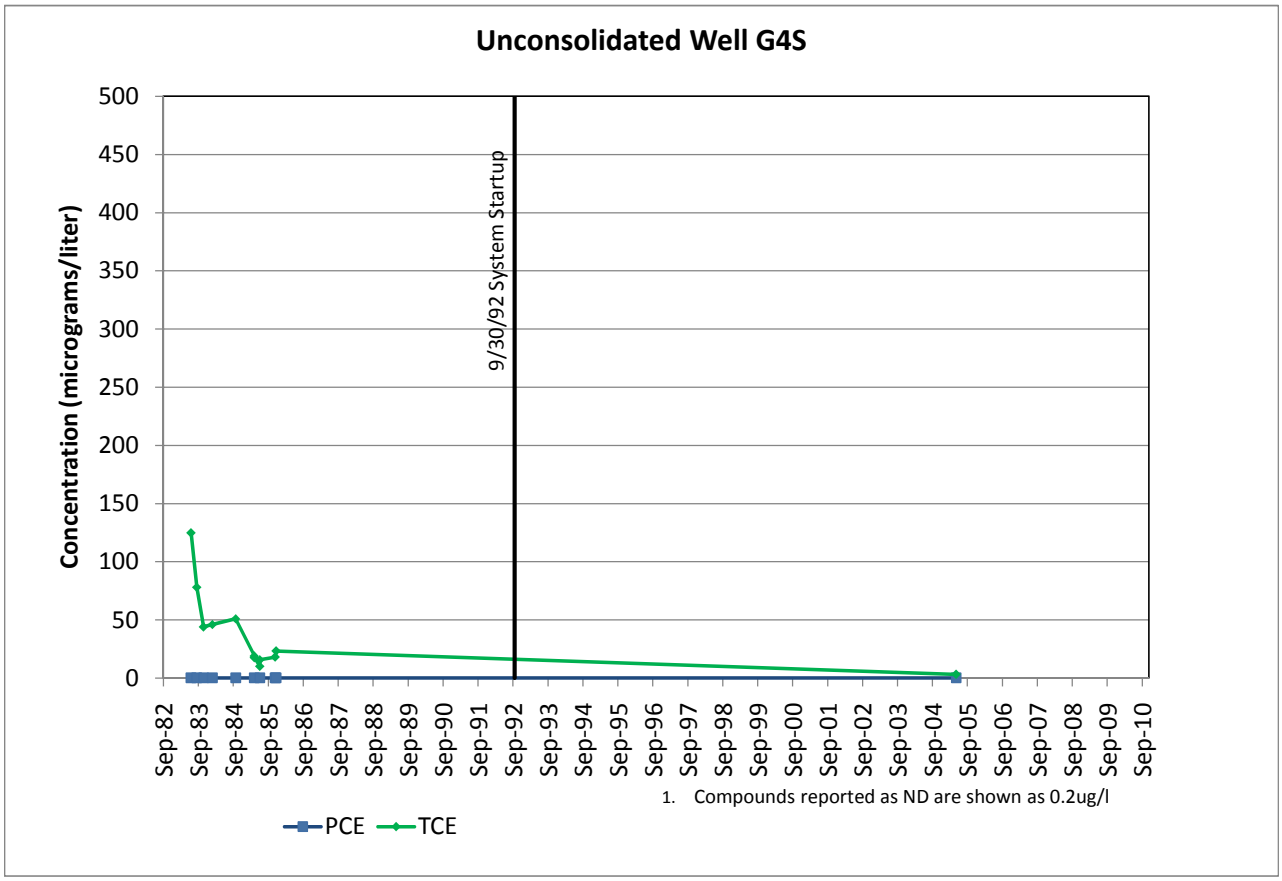

Unconsolidated Well G3S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

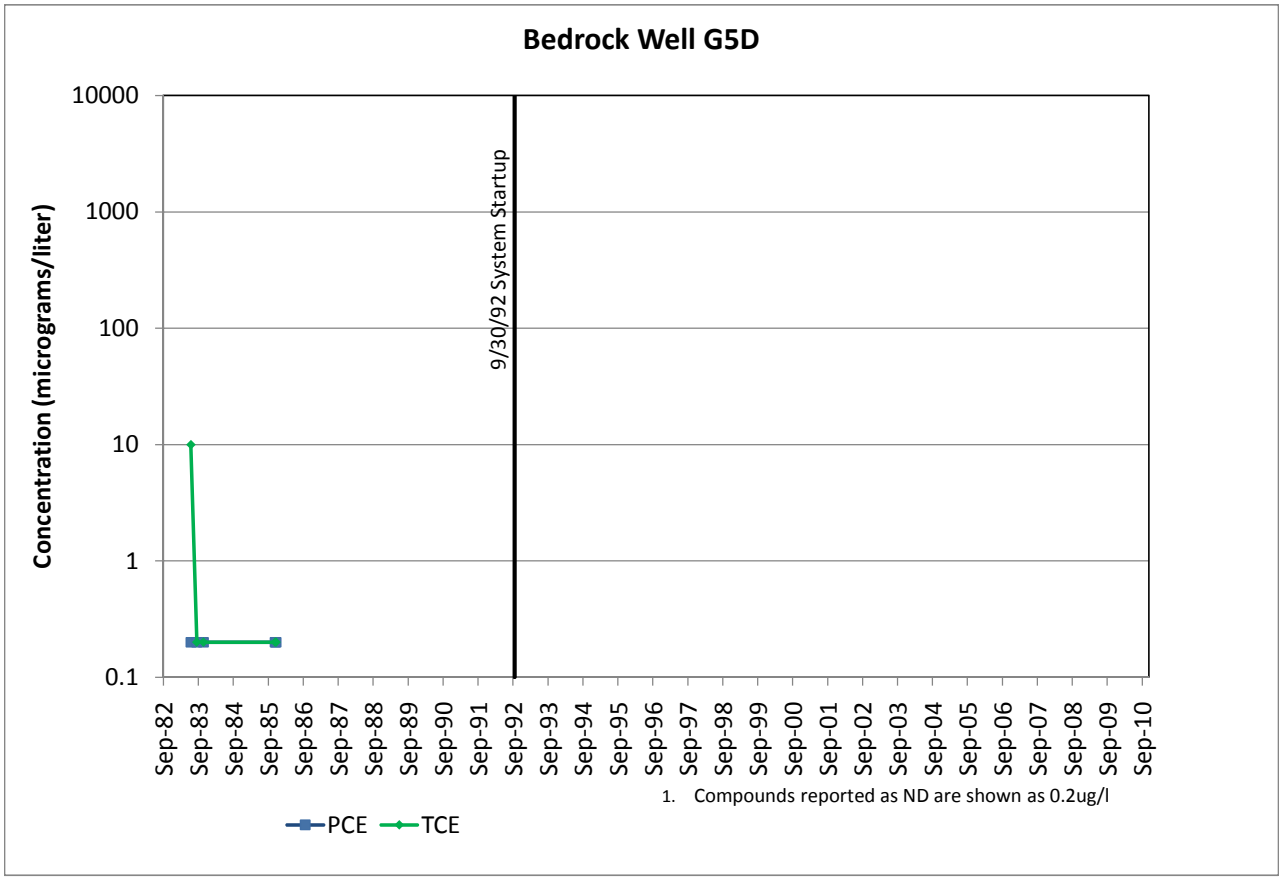

Unconsolidated Well G3S
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

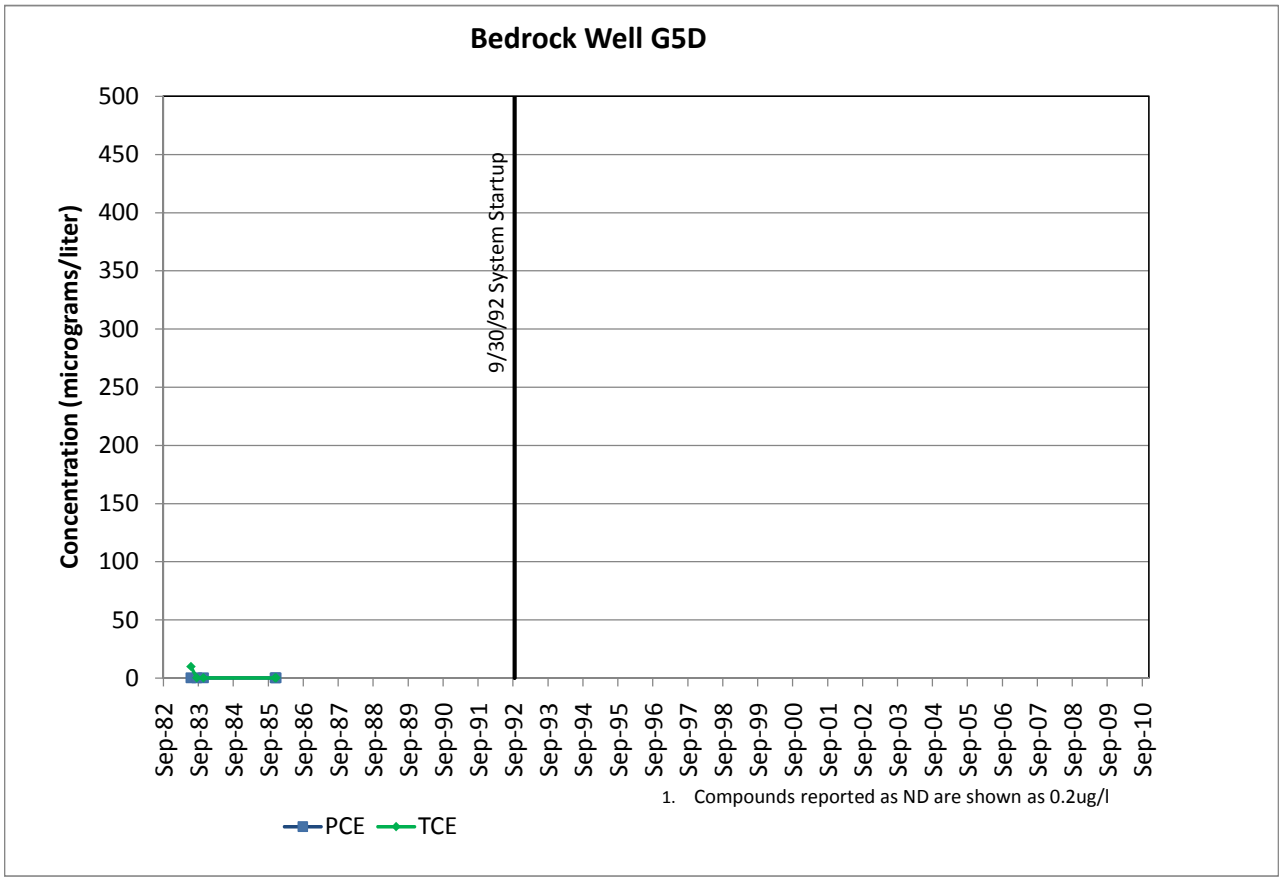

Bedrock Well G4D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

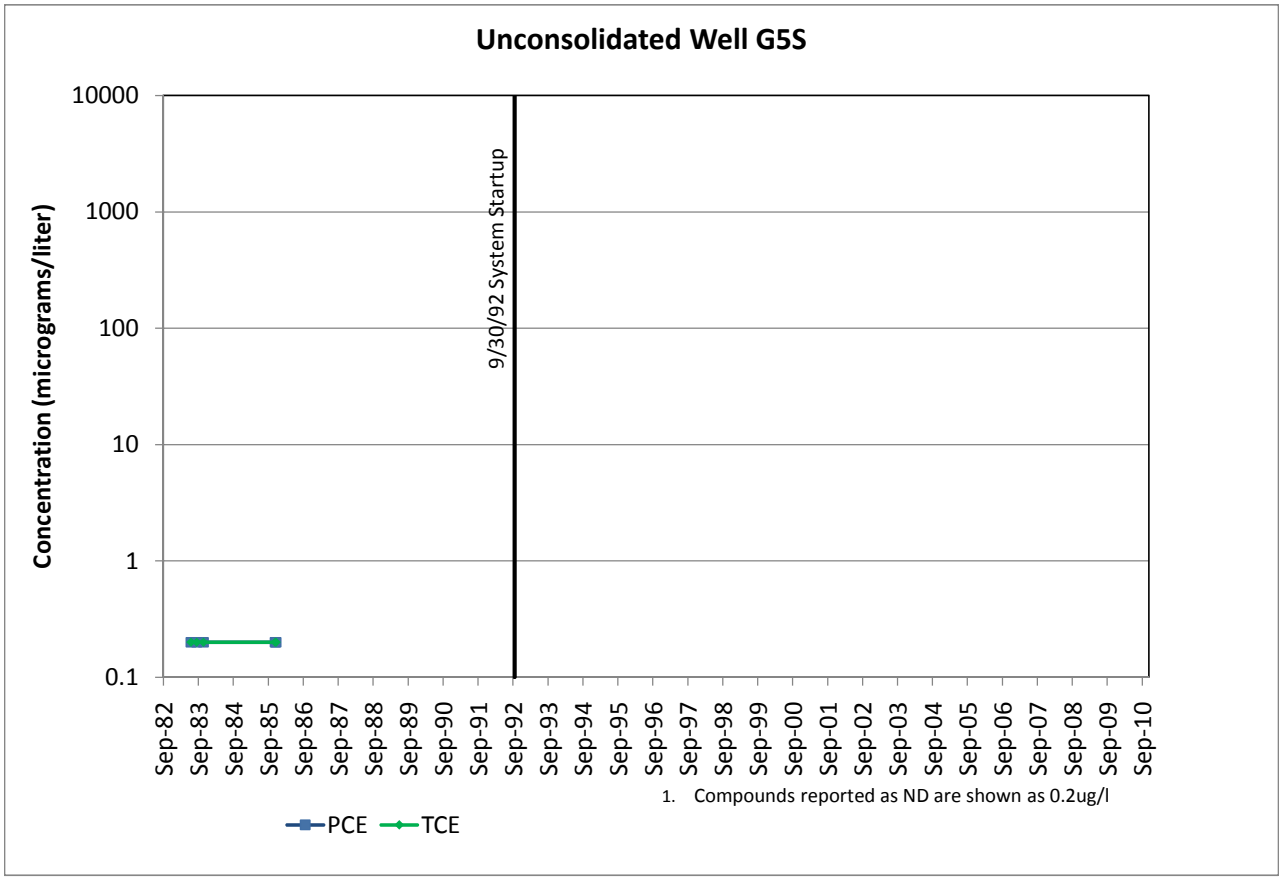

Bedrock Well G4D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

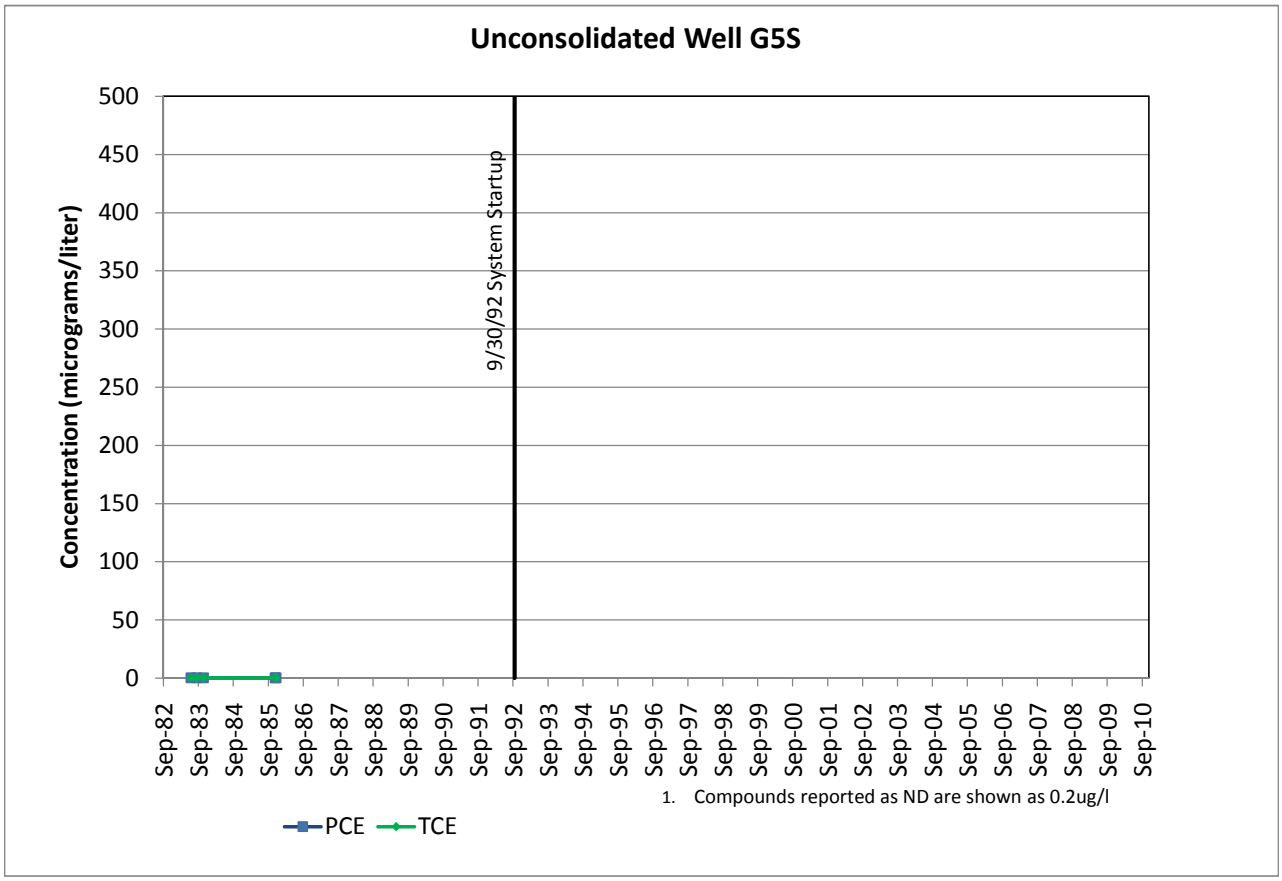

Unconsolidated Well G4S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

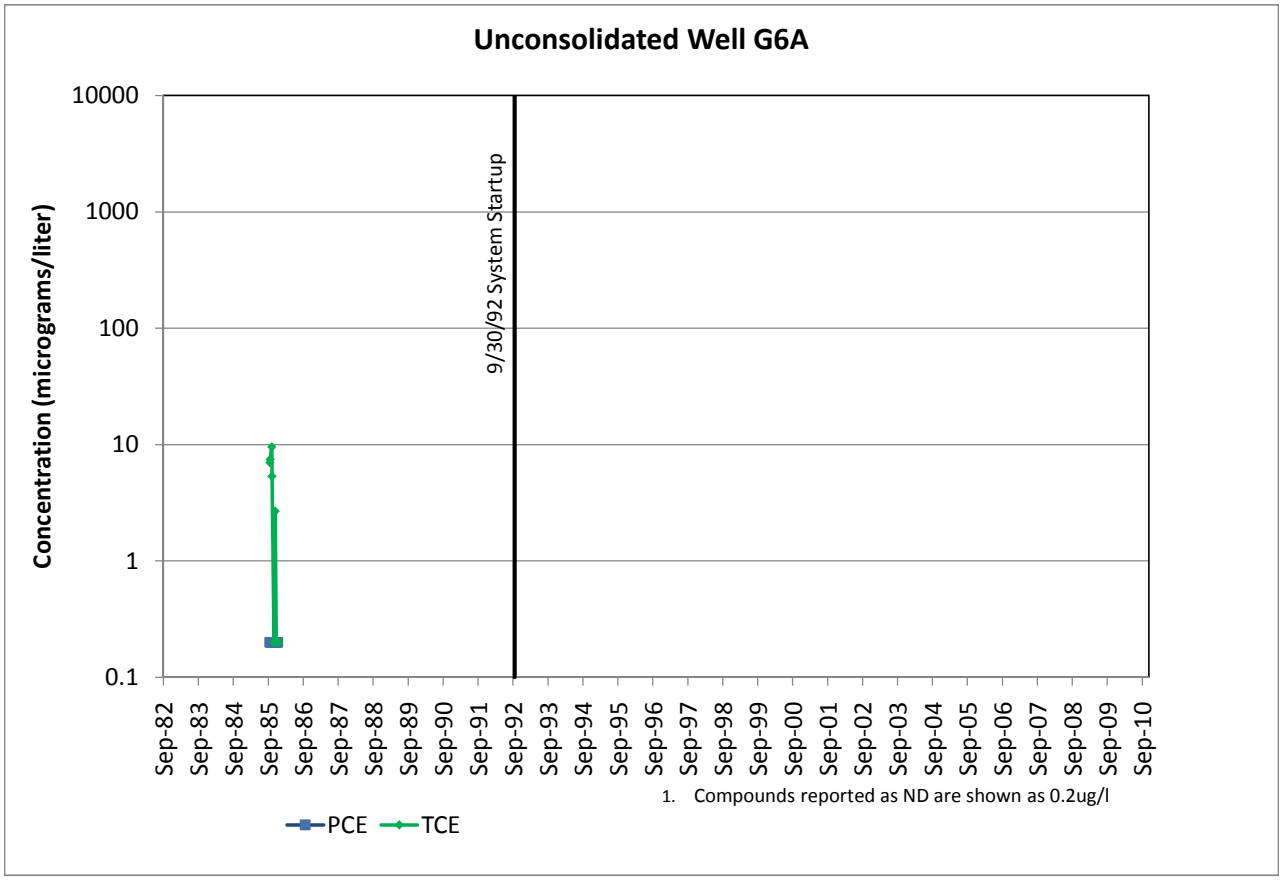

Unconsolidated Well G4S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

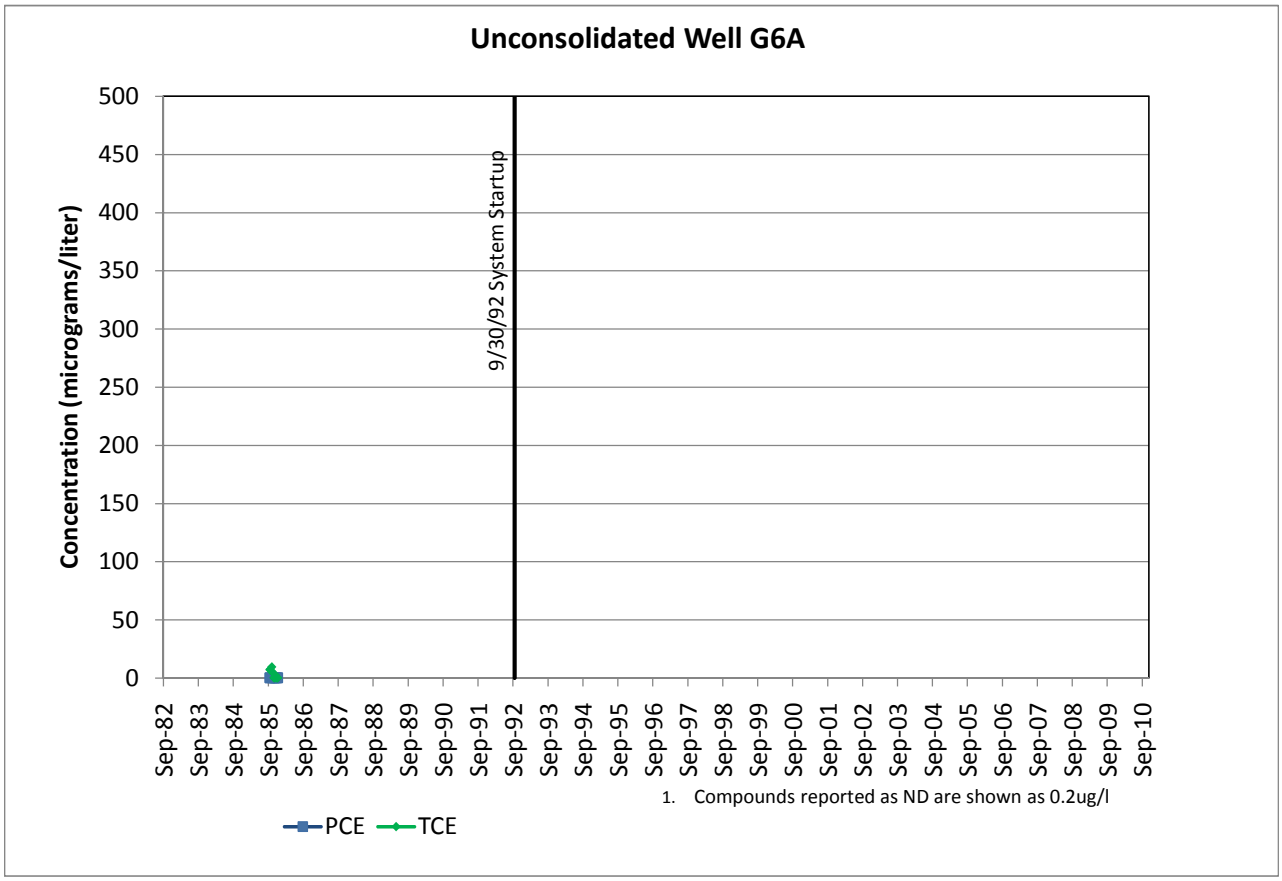

Bedrock Well G5D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

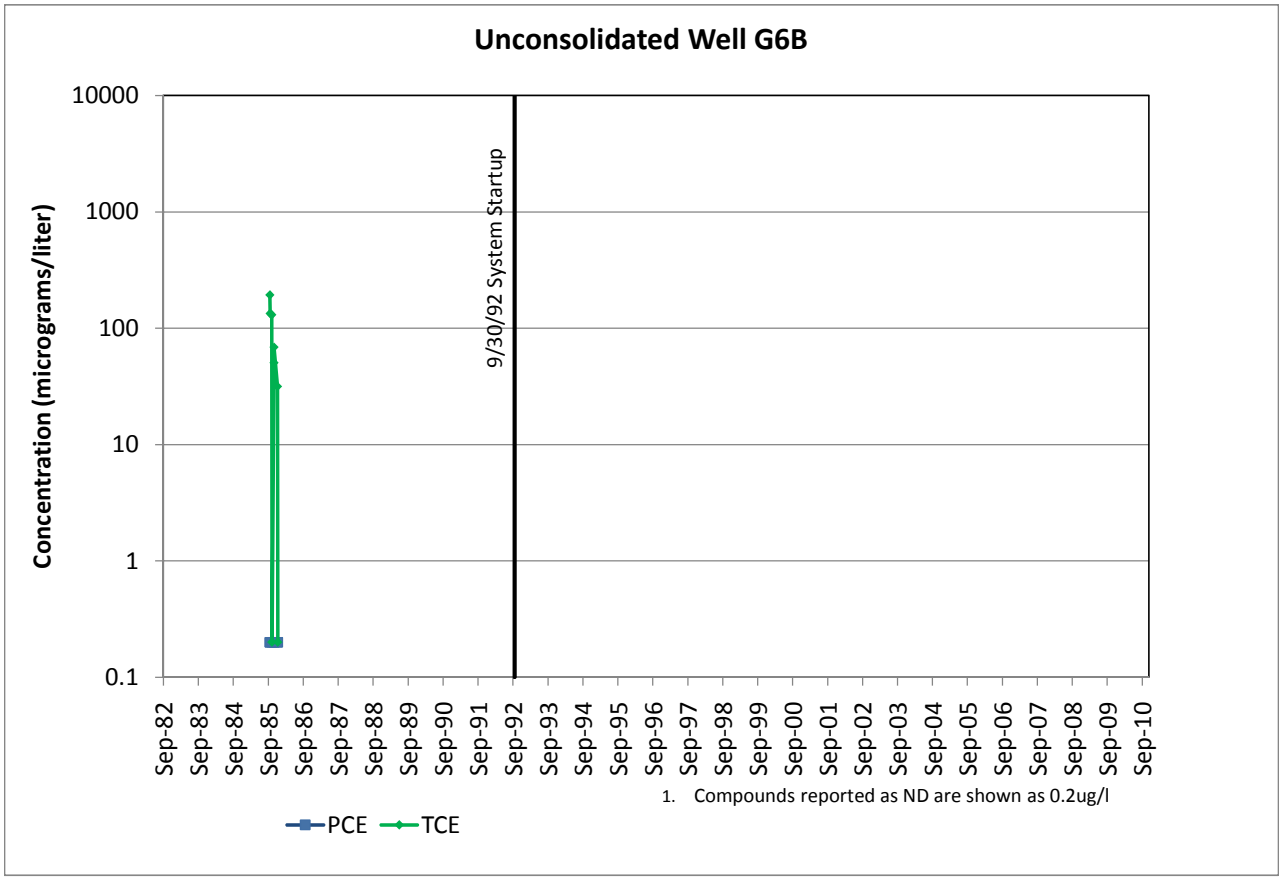

Bedrock Well G5D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

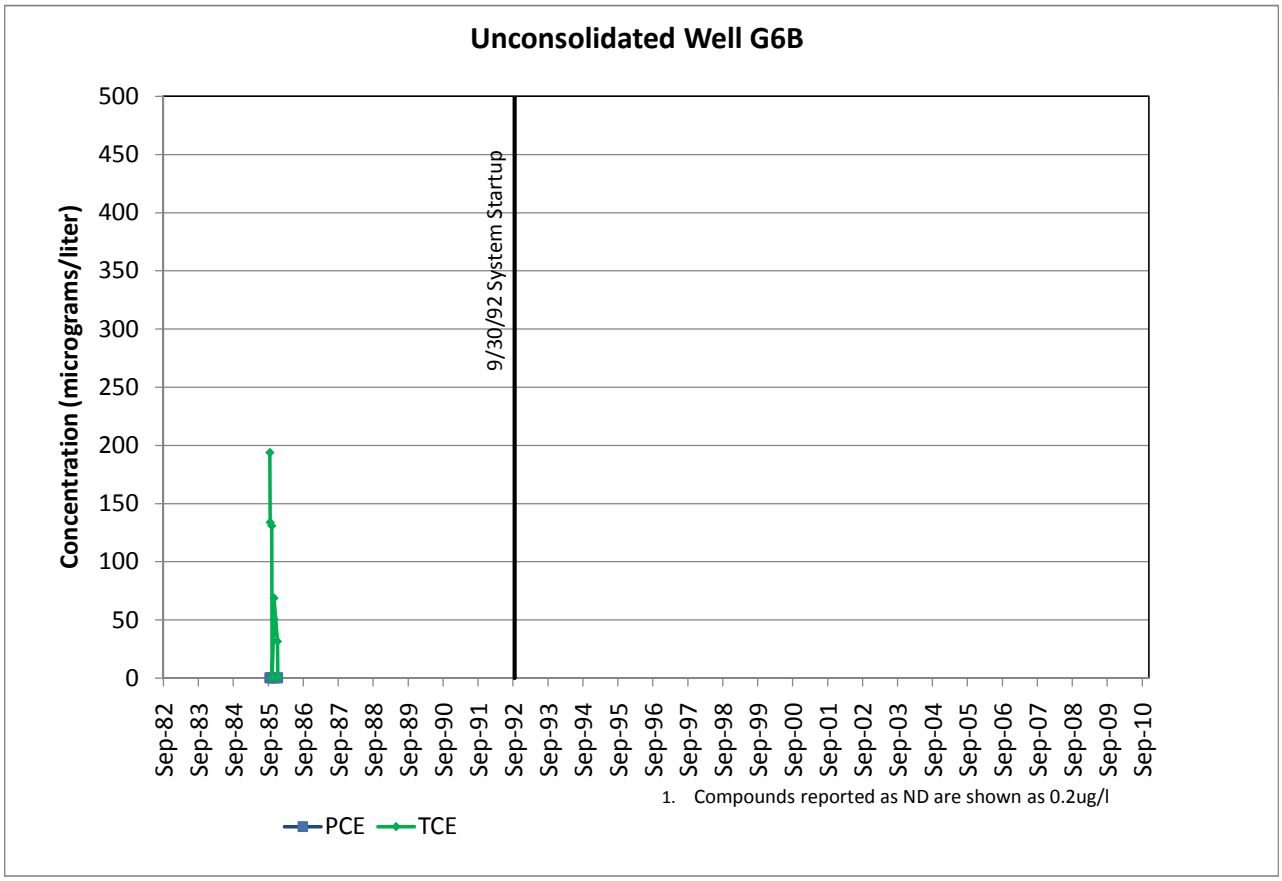

Unconsolidated Well G5S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

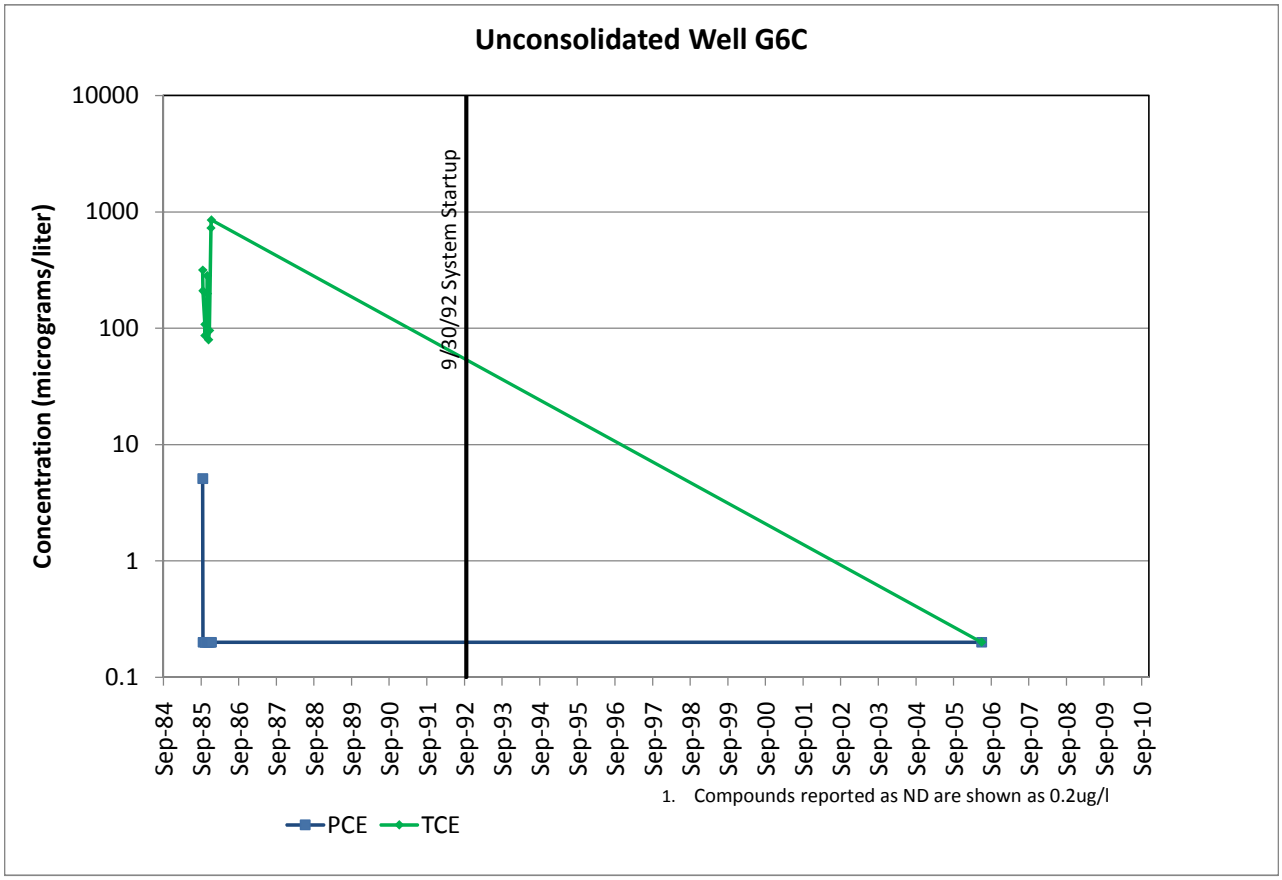

Unconsolidated Well G5S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

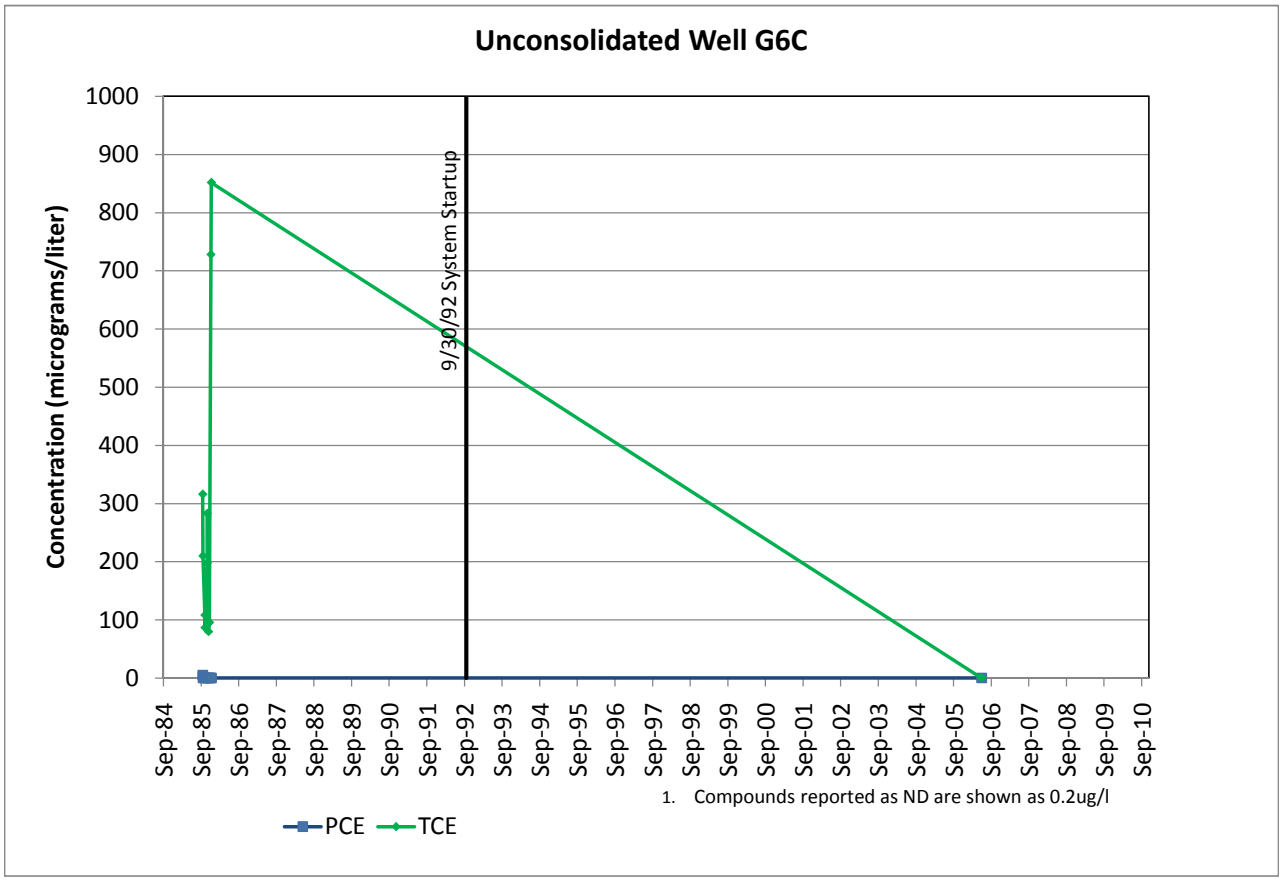

Unconsolidated Well G6A
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

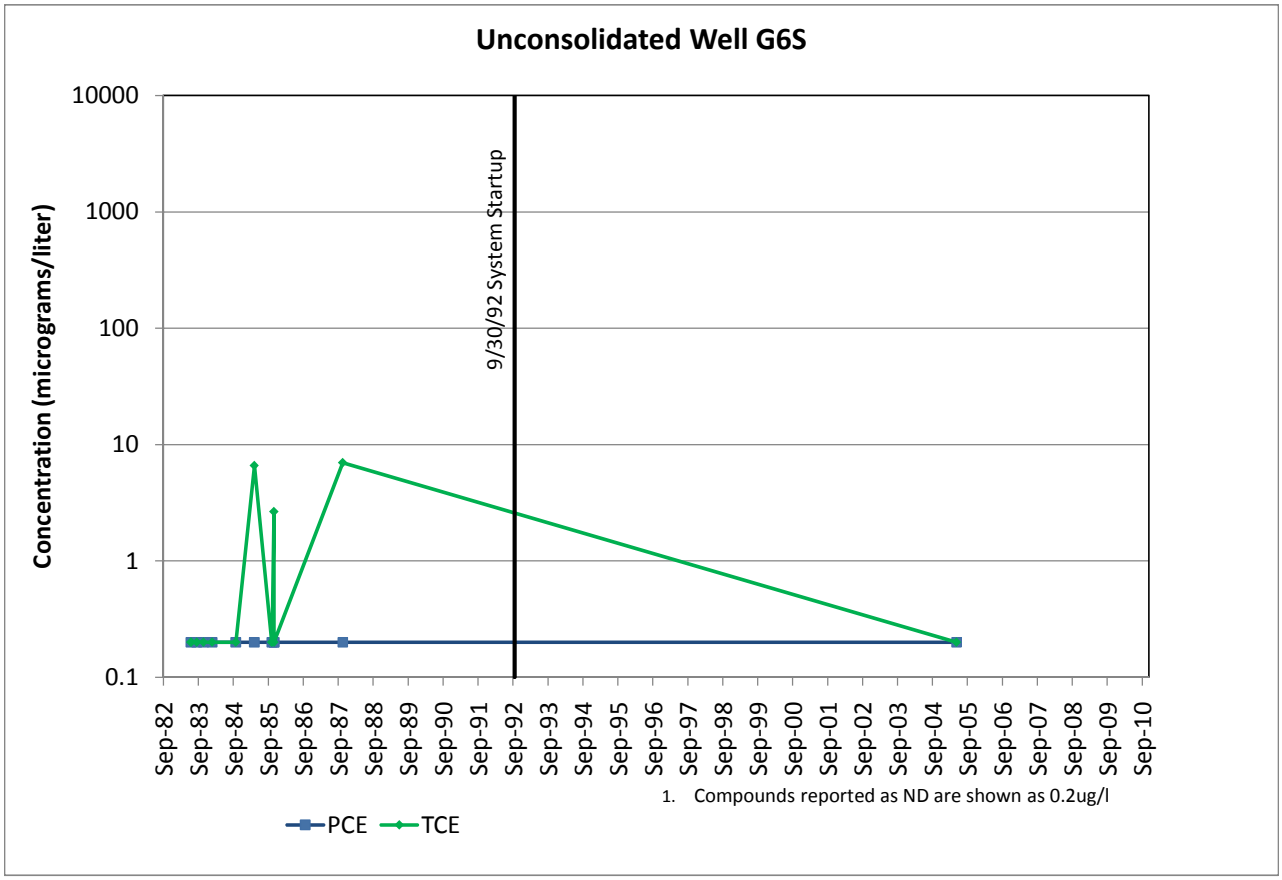

Unconsolidated Well G6A
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

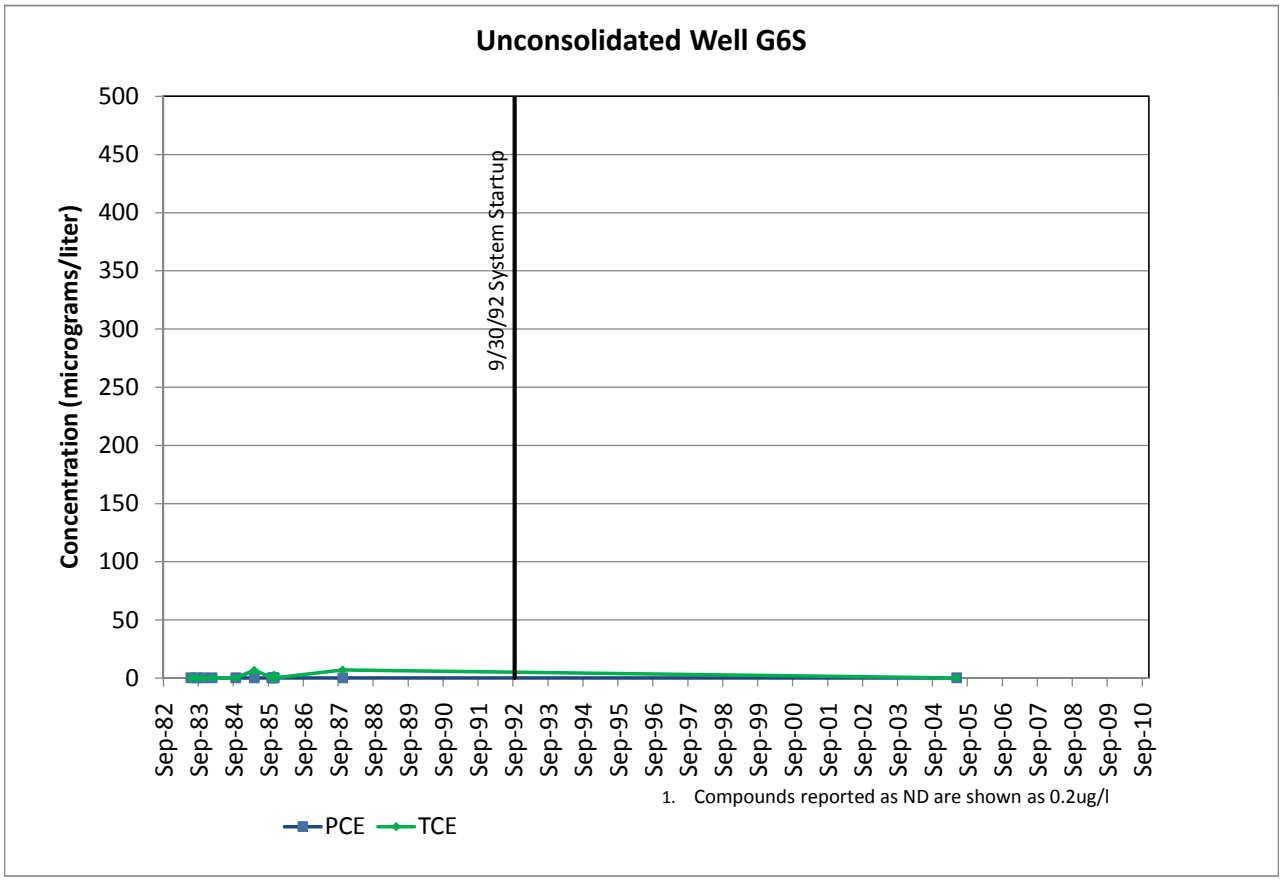

Unconsolidated Well G6B
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

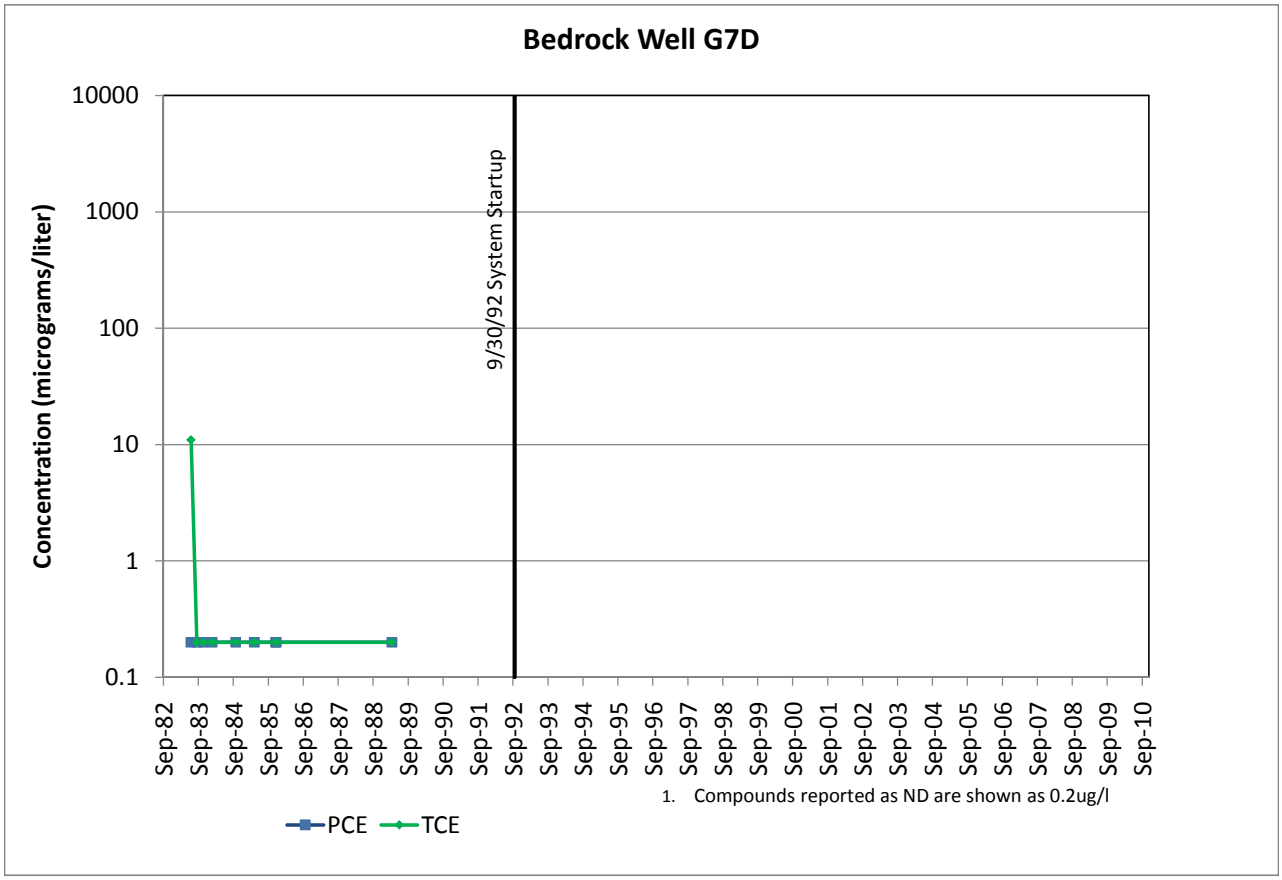

Unconsolidated Well G6B
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

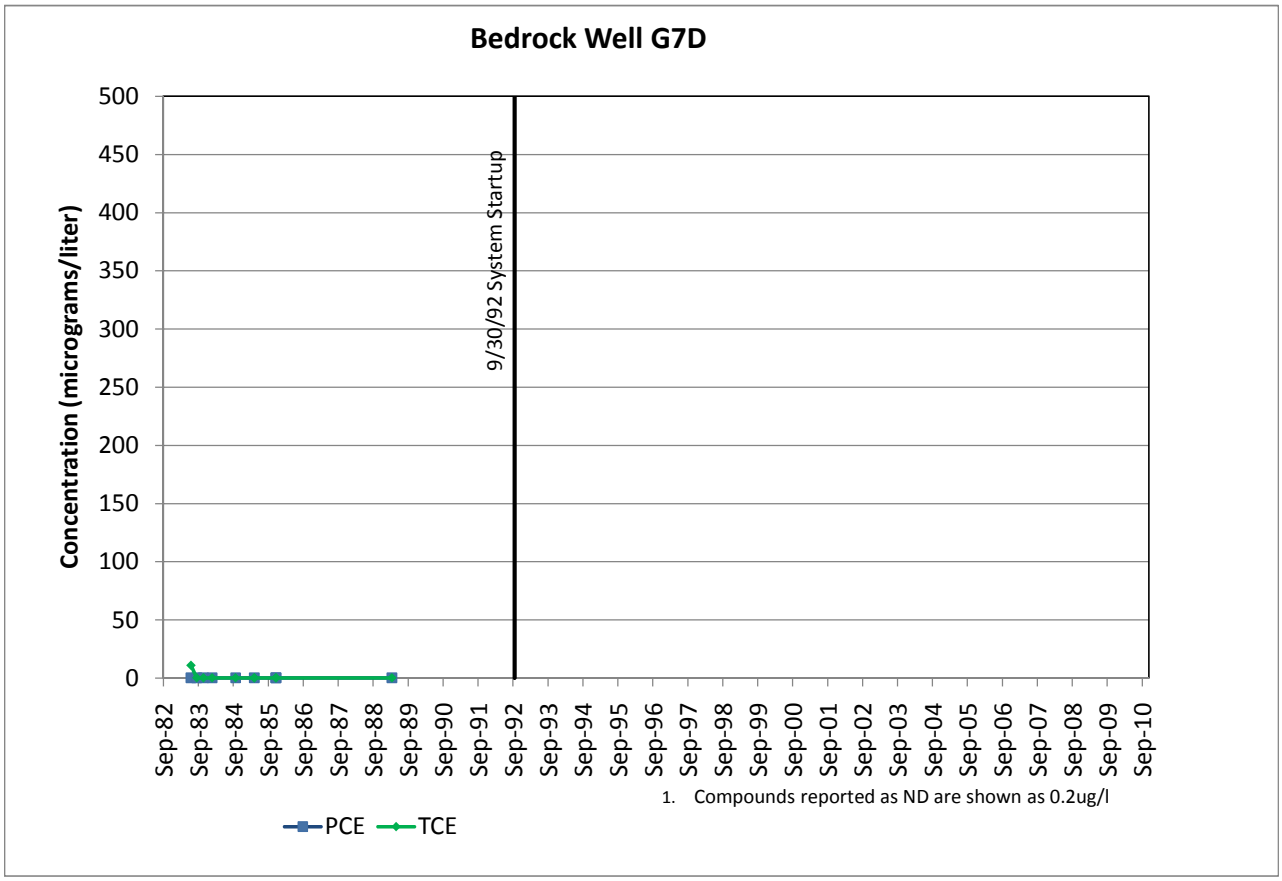

Unconsolidated Well G6C
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

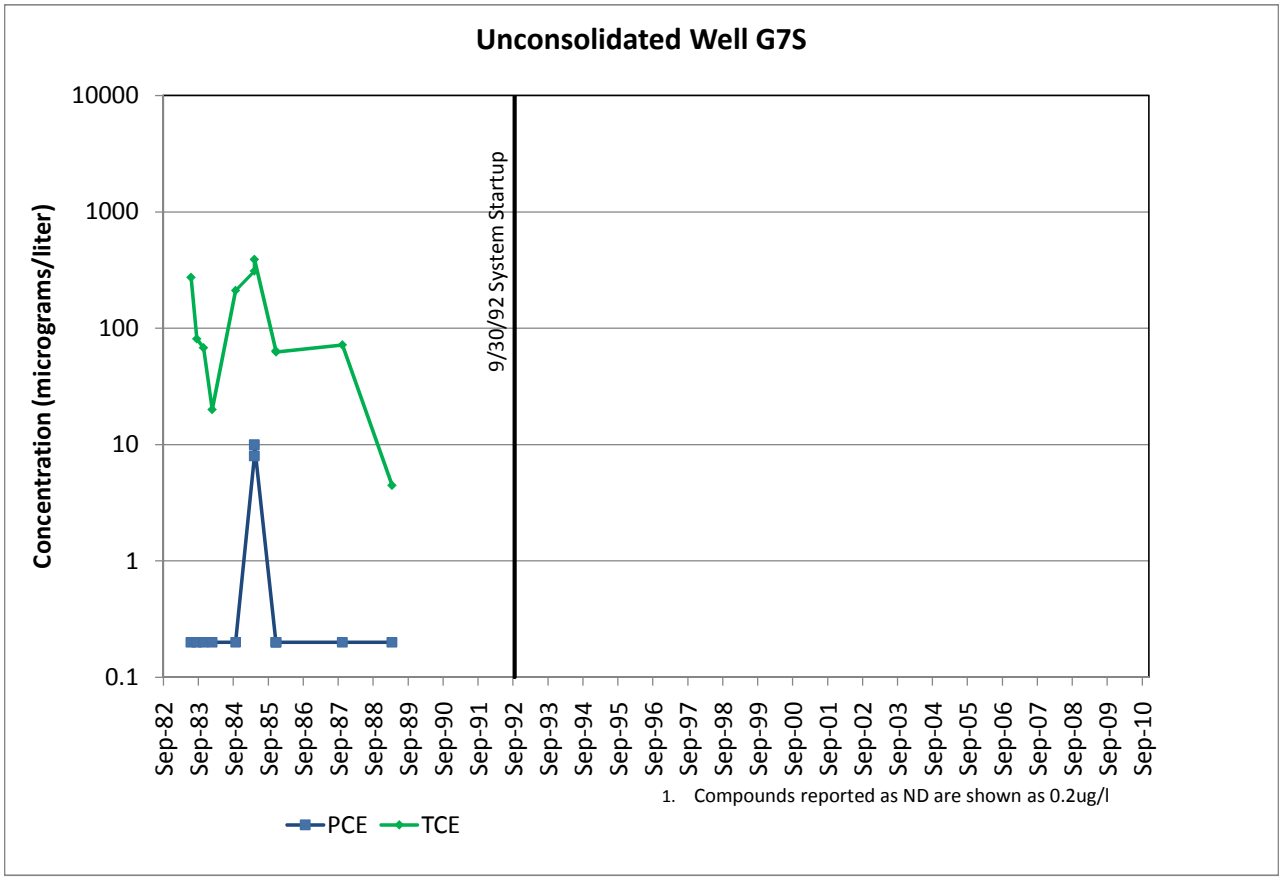

Unconsolidated Well G6C
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

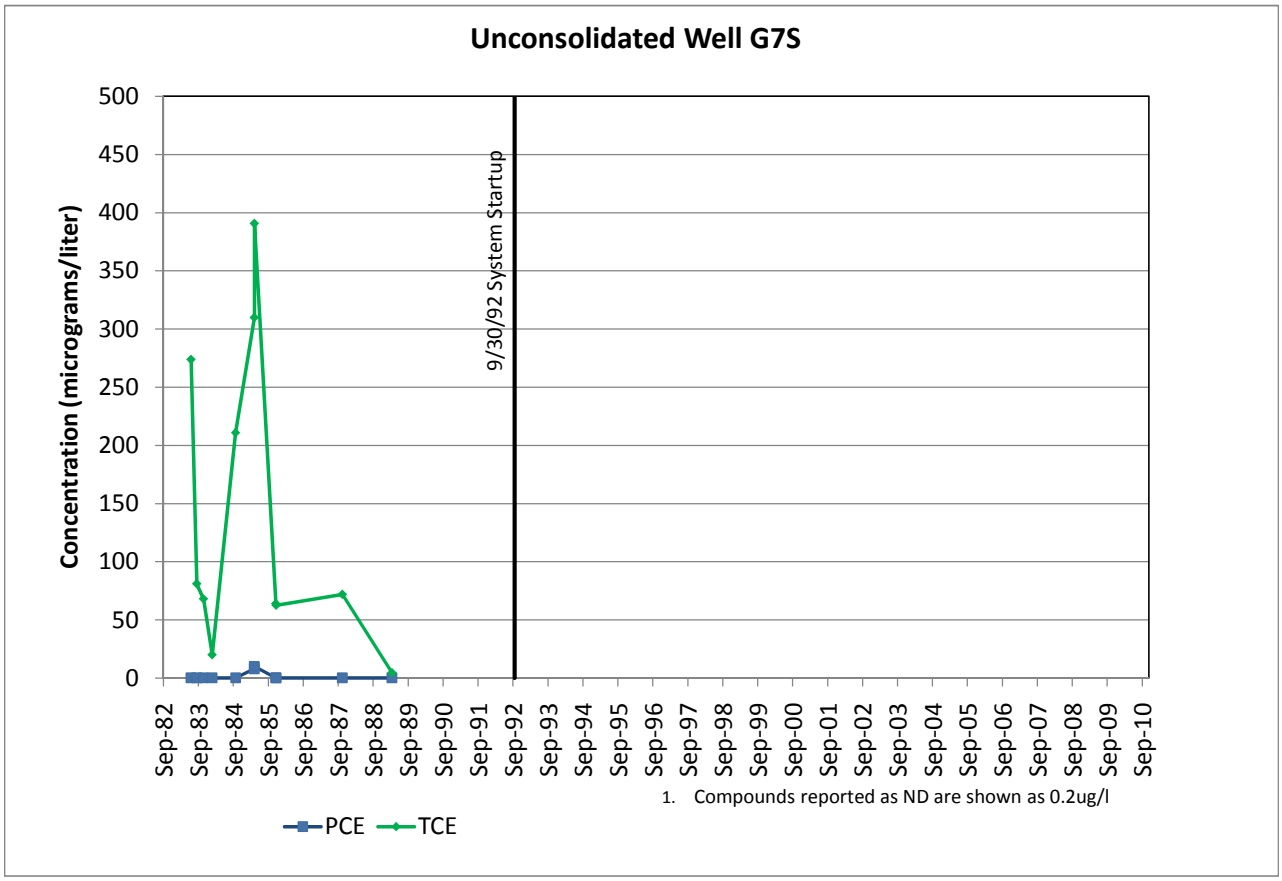

Unconsolidated Well G6S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

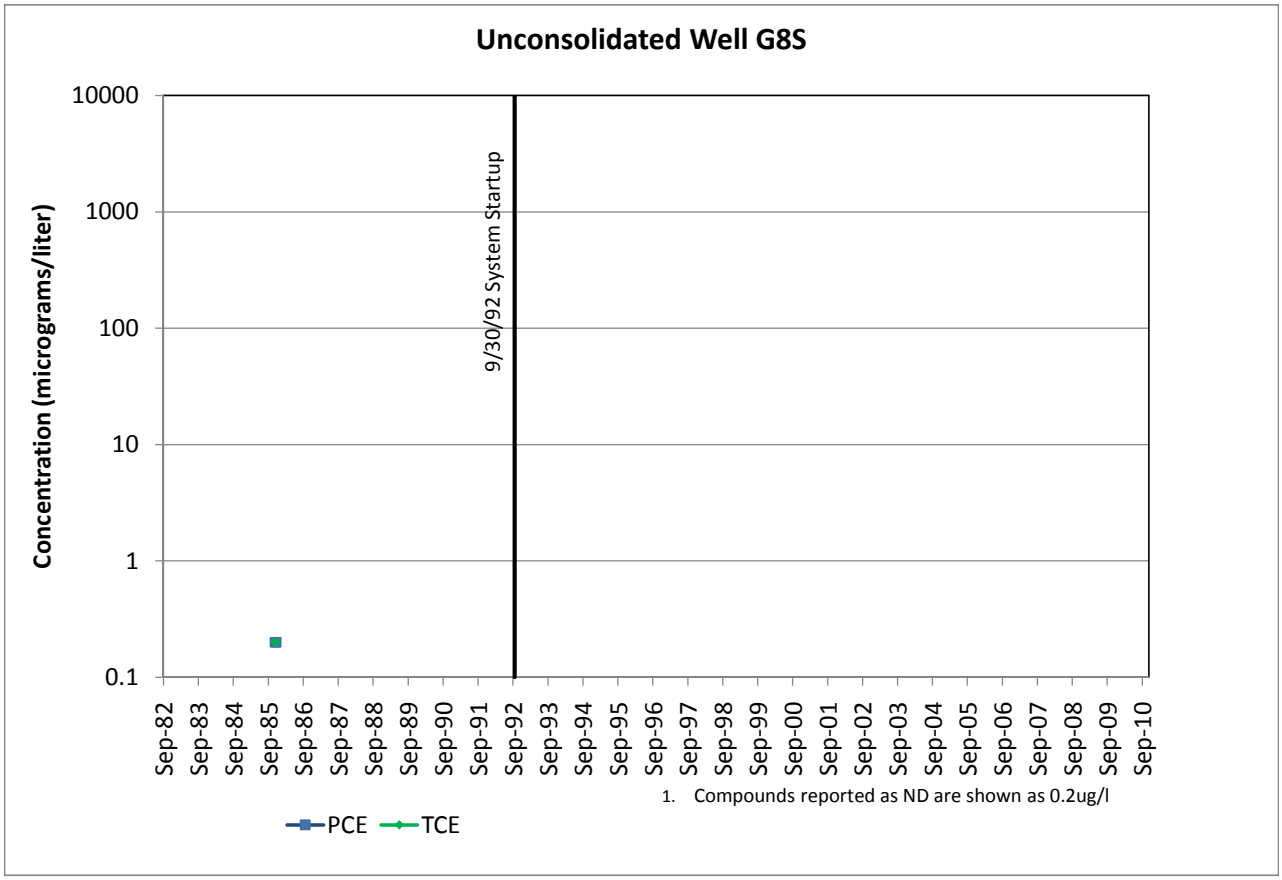

Unconsolidated Well G6S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

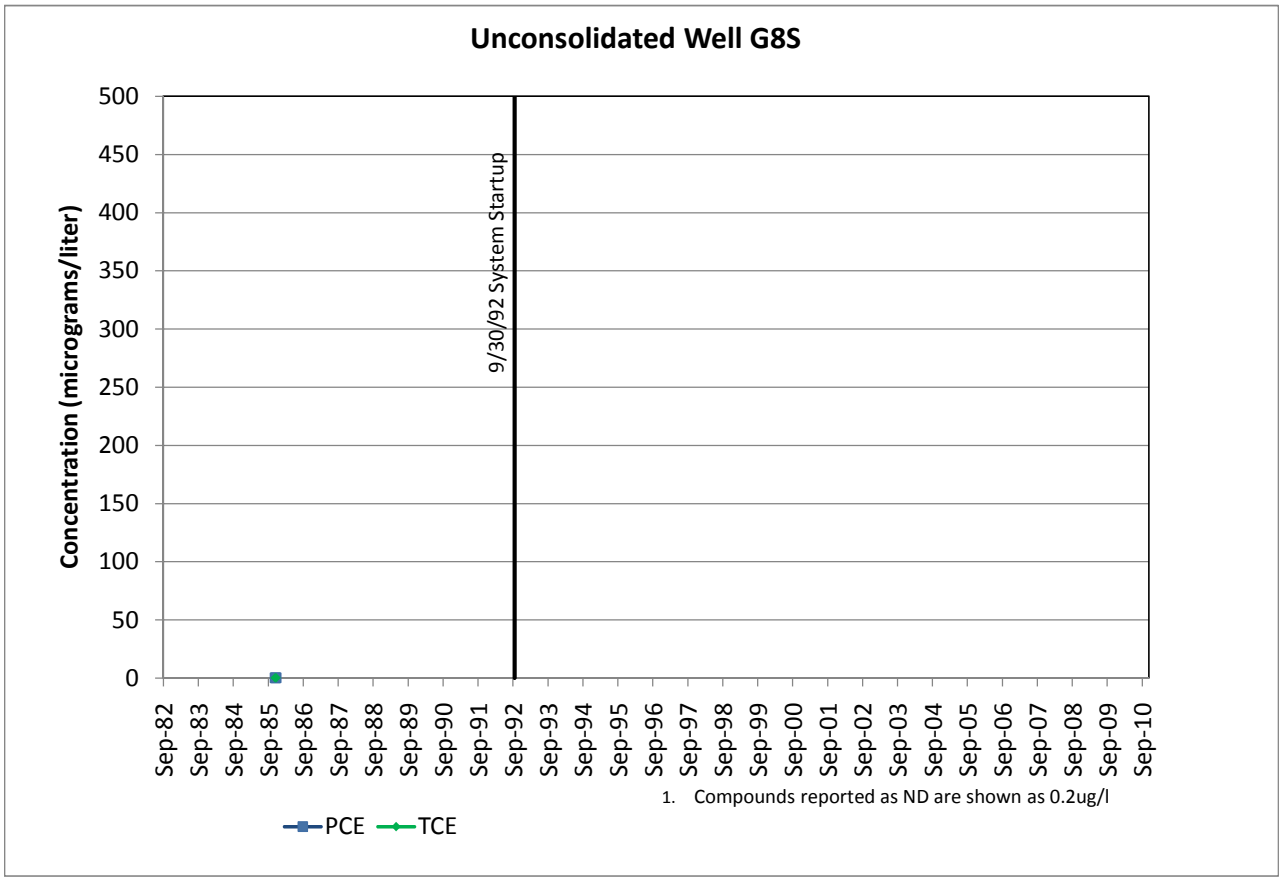

Bedrock Well G7D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

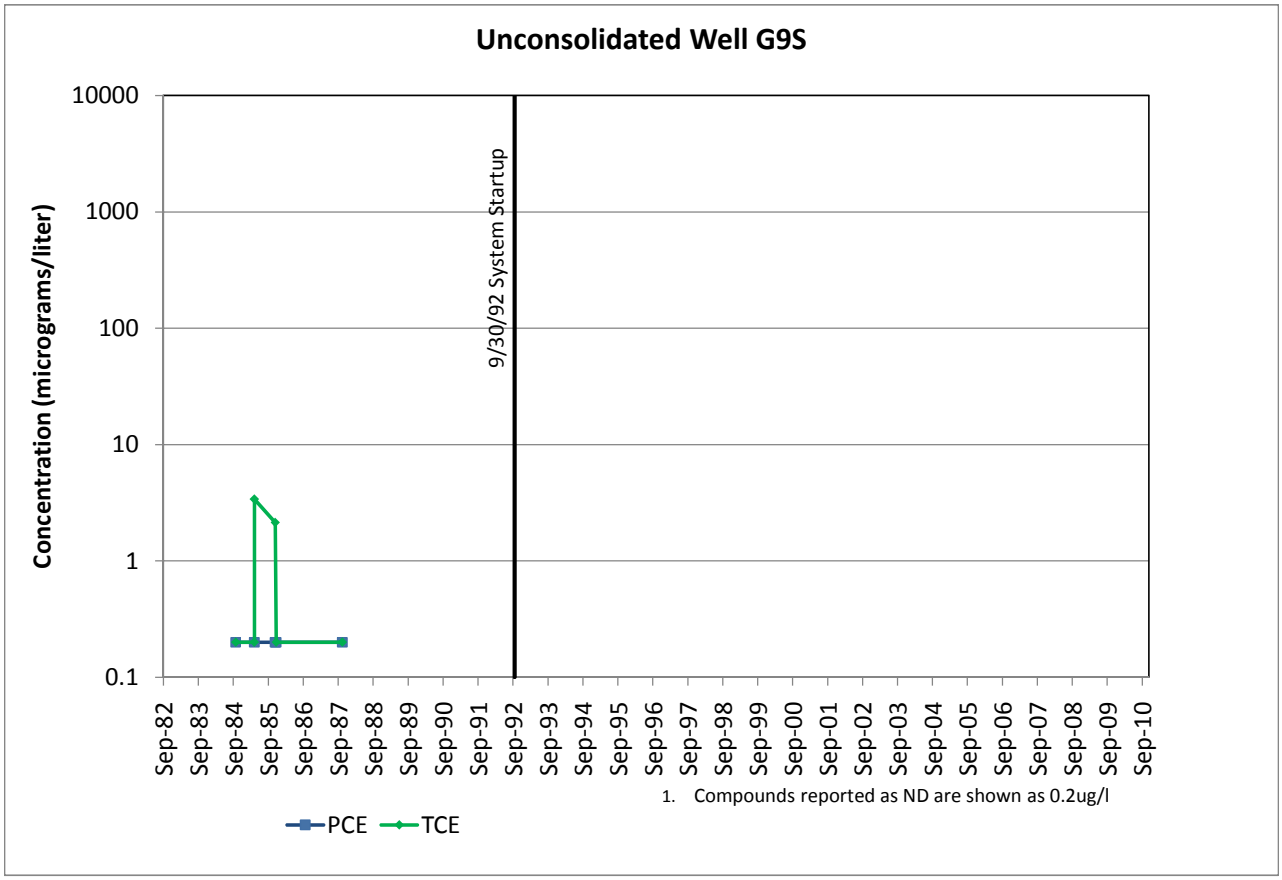

Bedrock Well G7D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

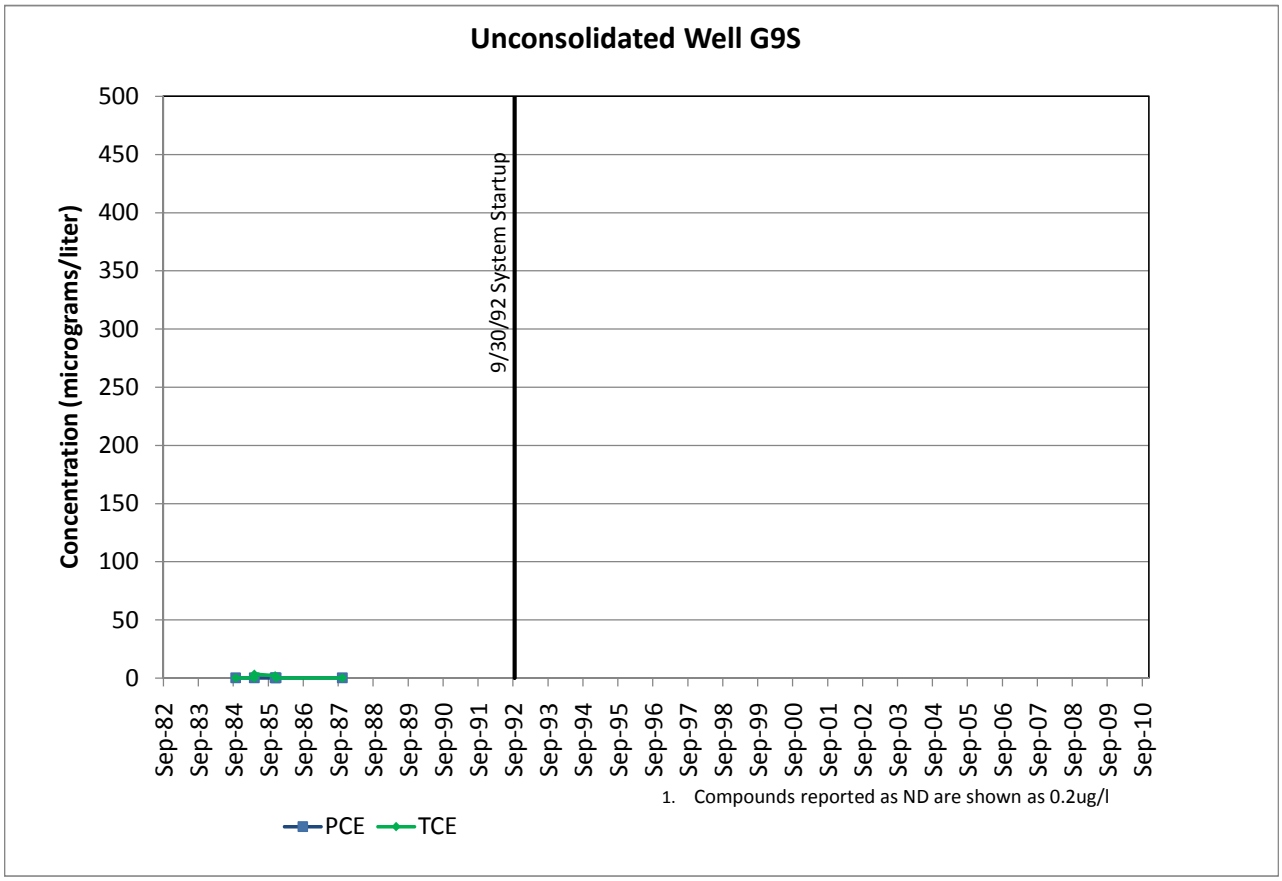

Unconsolidated Well G7S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

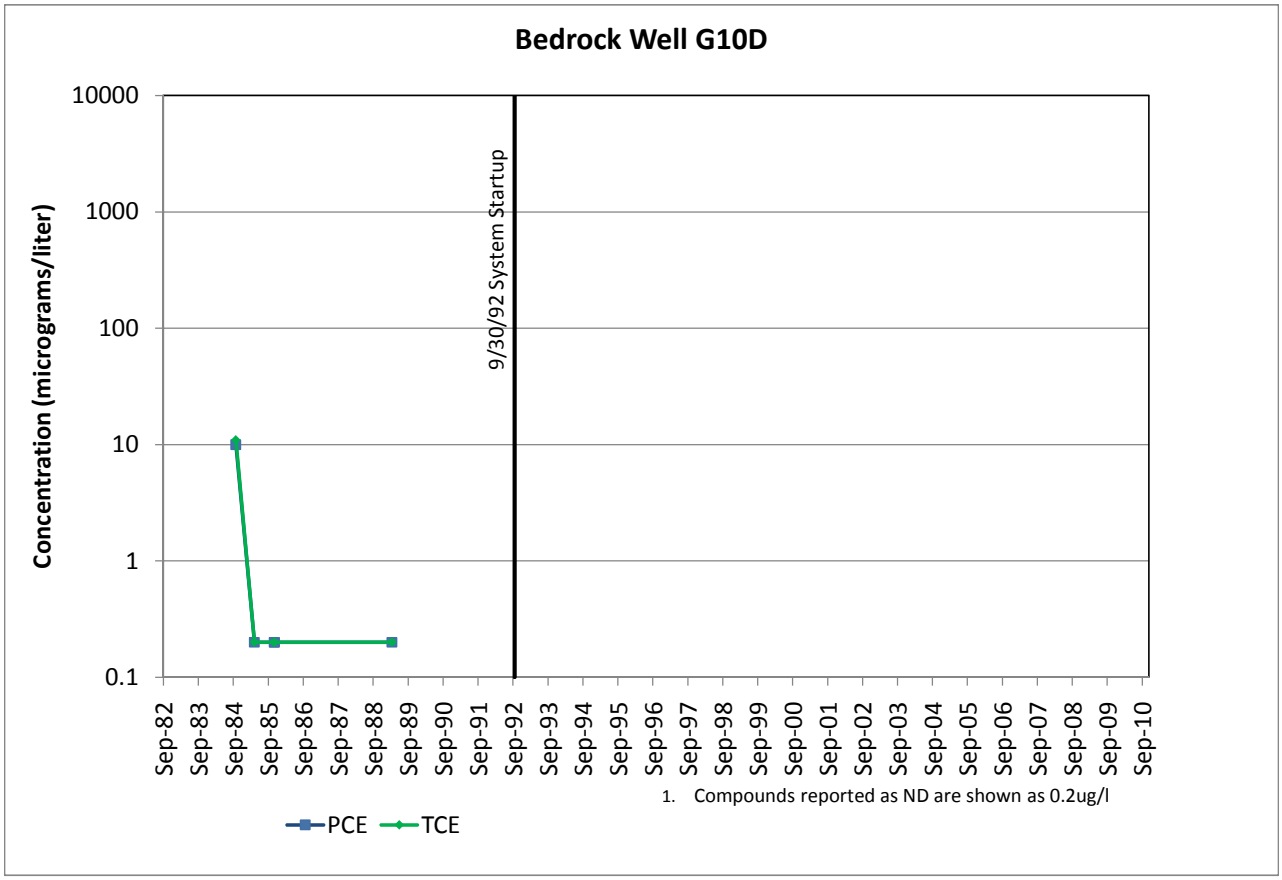

Unconsolidated Well G7S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

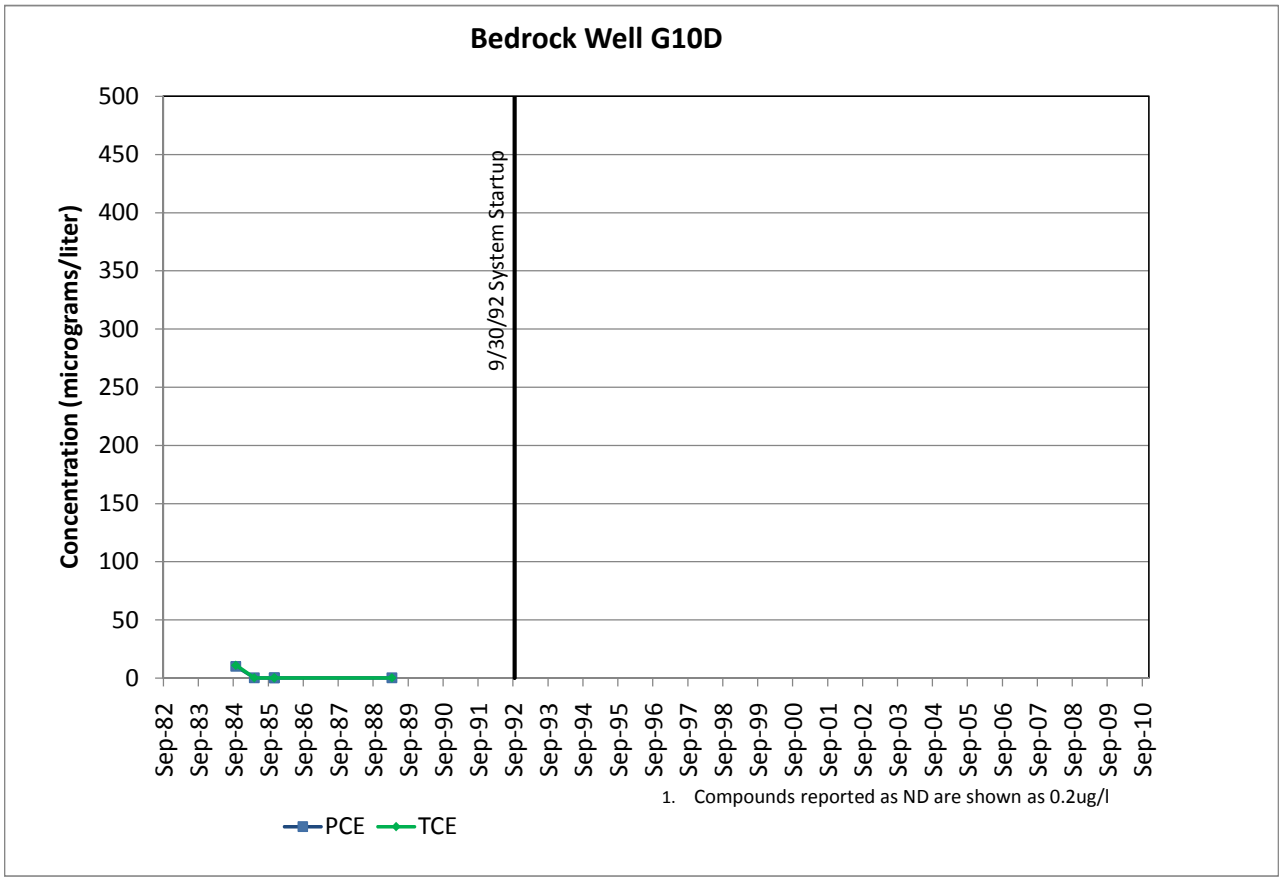

Unconsolidated Well G8S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

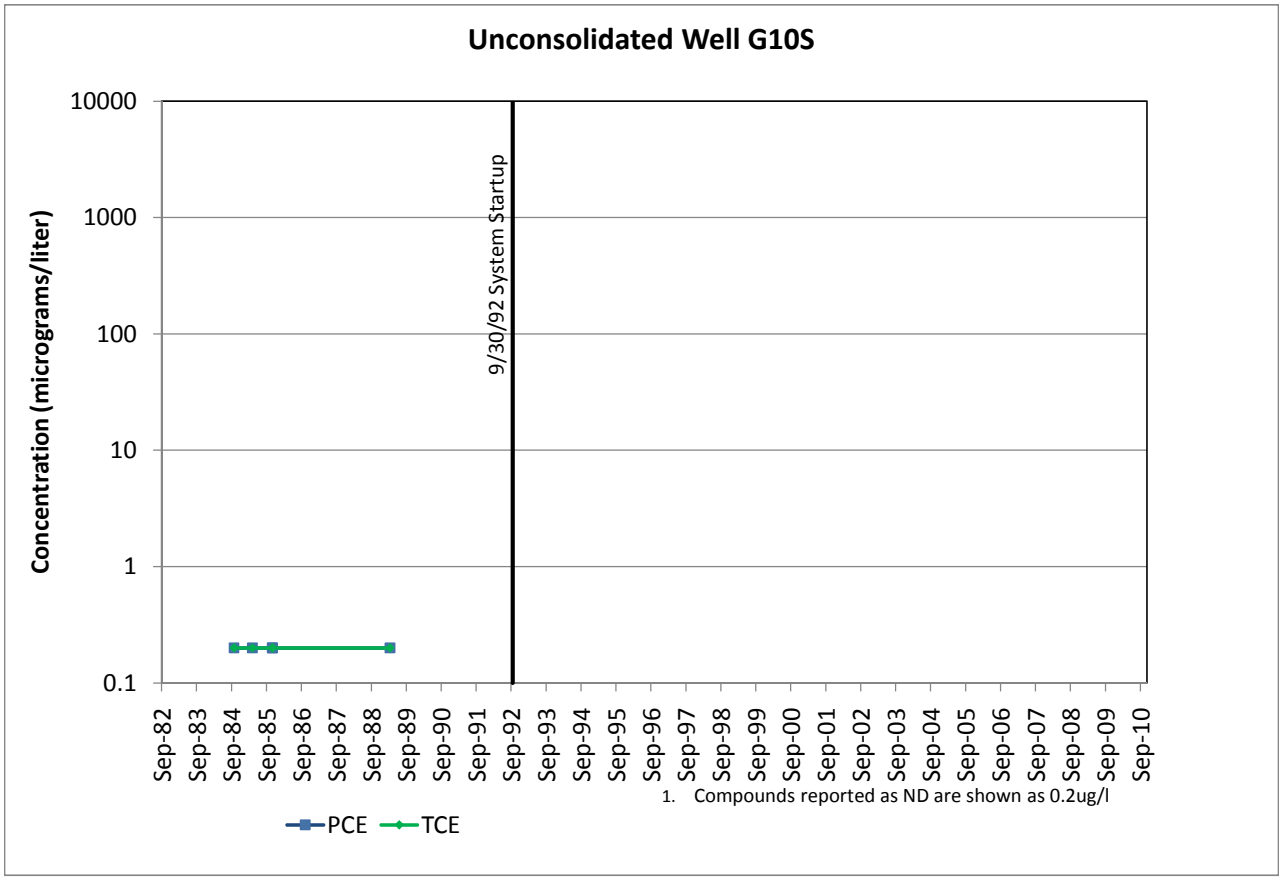

Unconsolidated Well G8S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

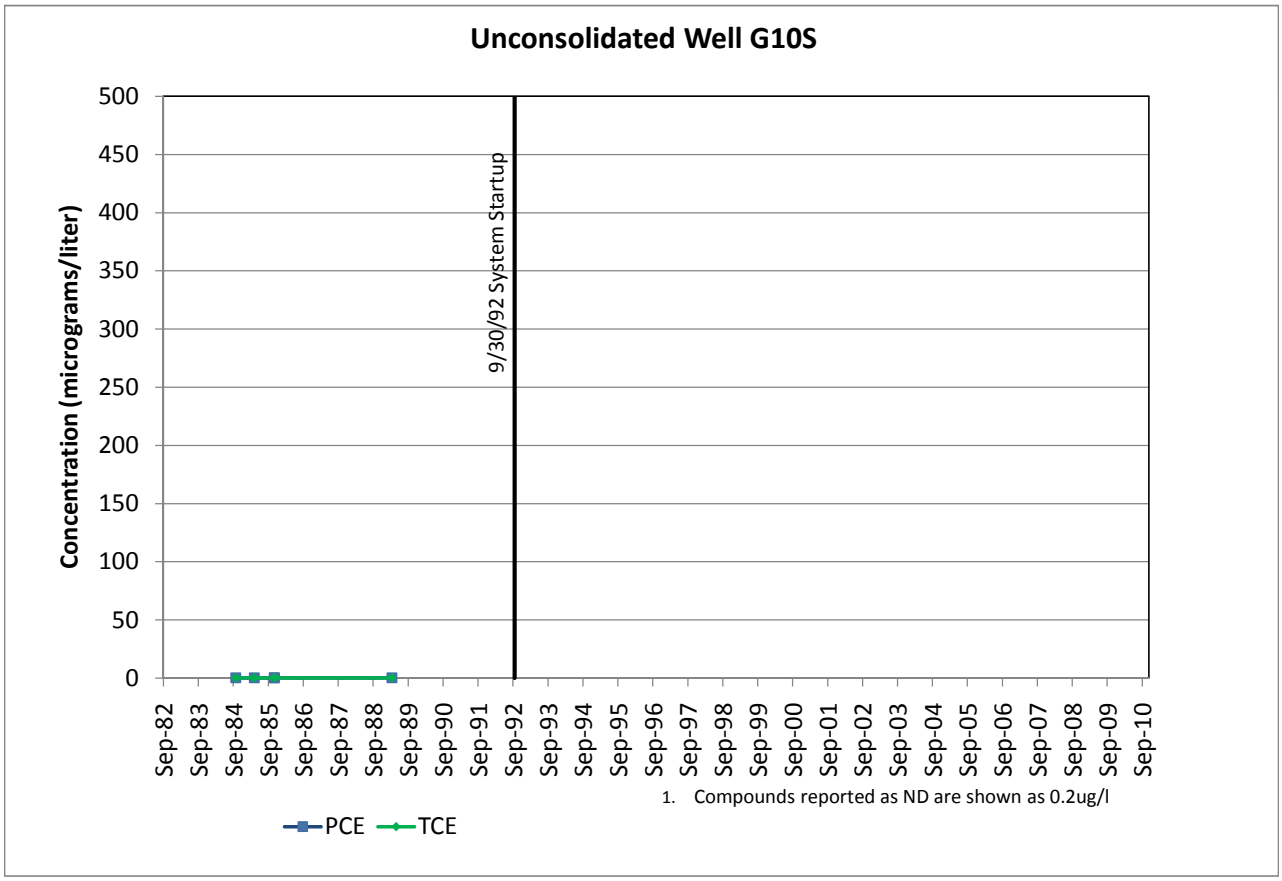

Unconsolidated Well G9S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

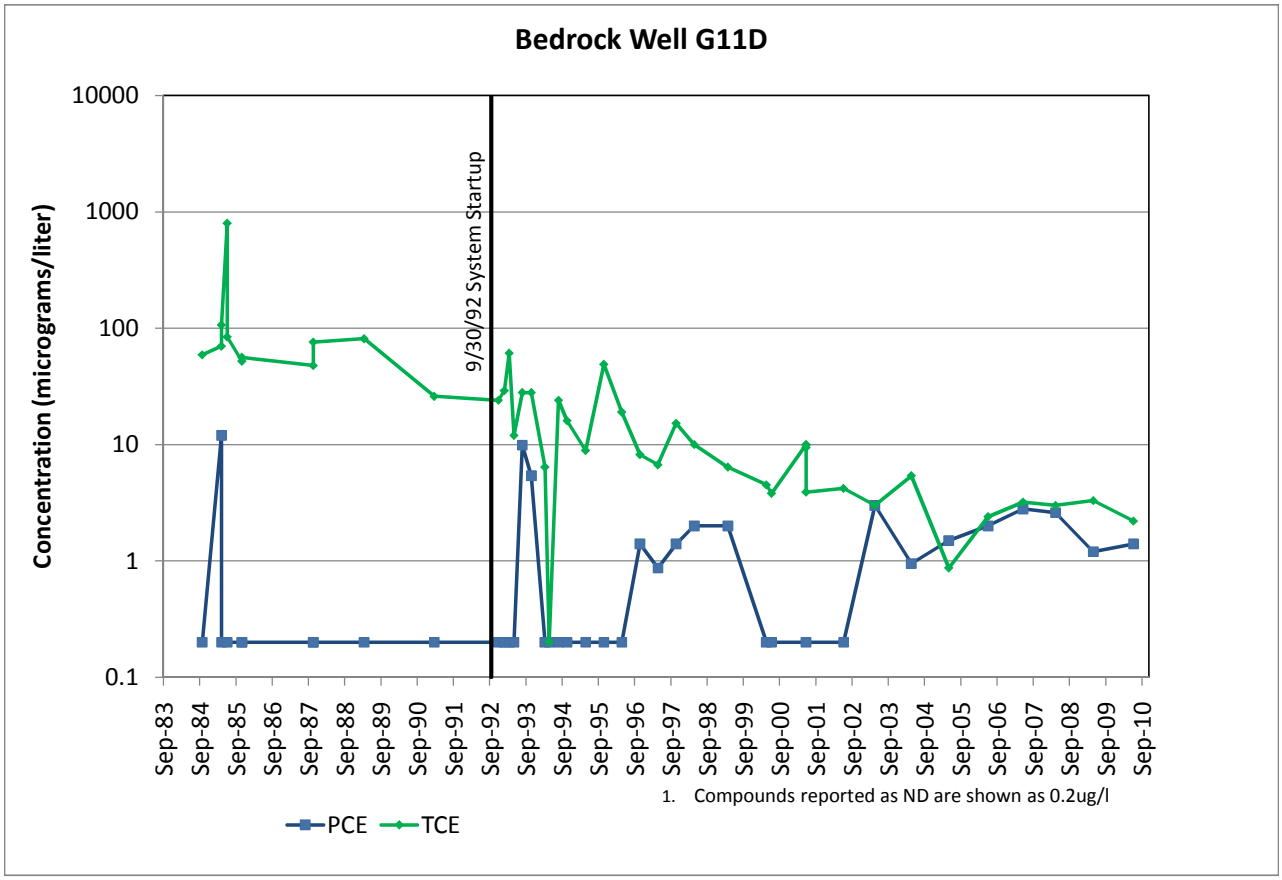

Unconsolidated Well G9S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

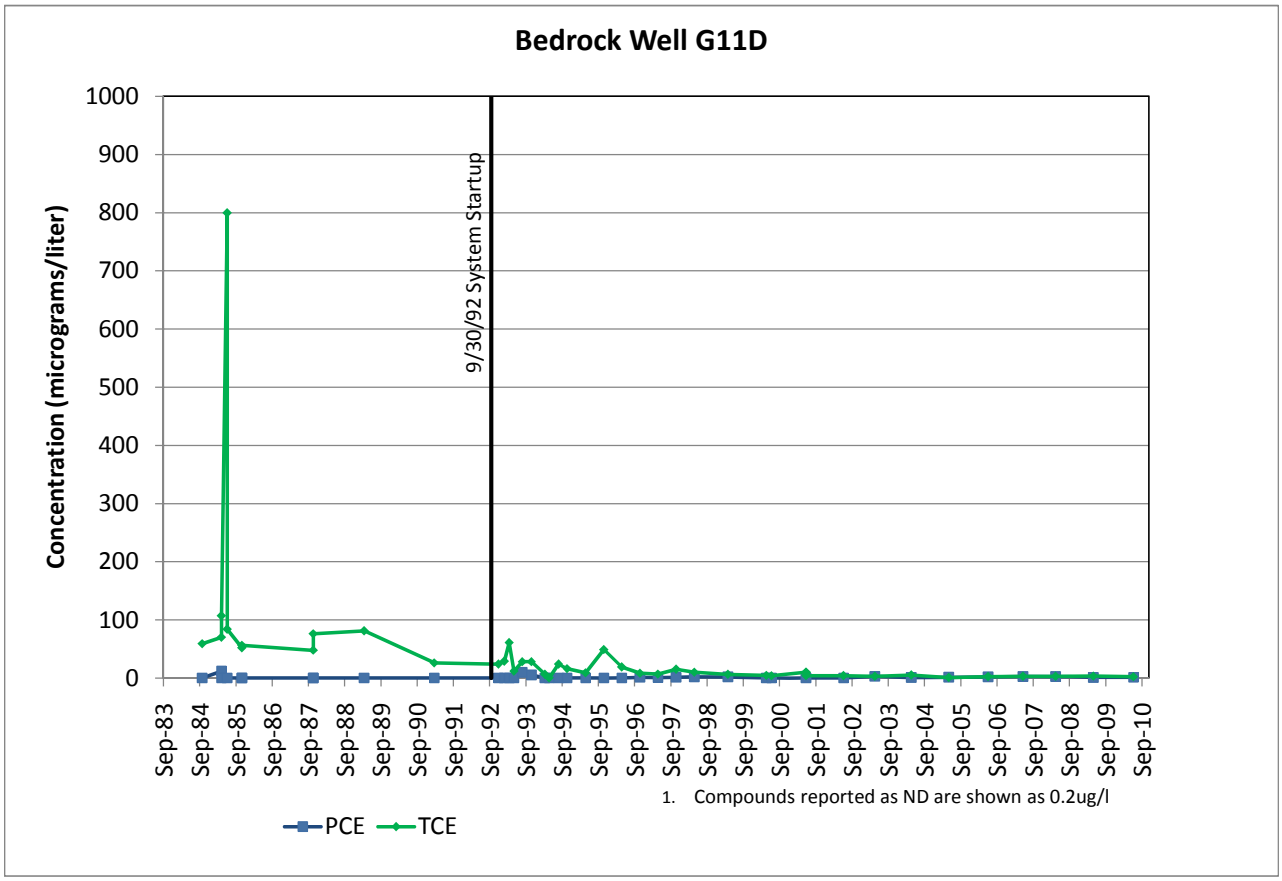

Bedrock Well G10D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

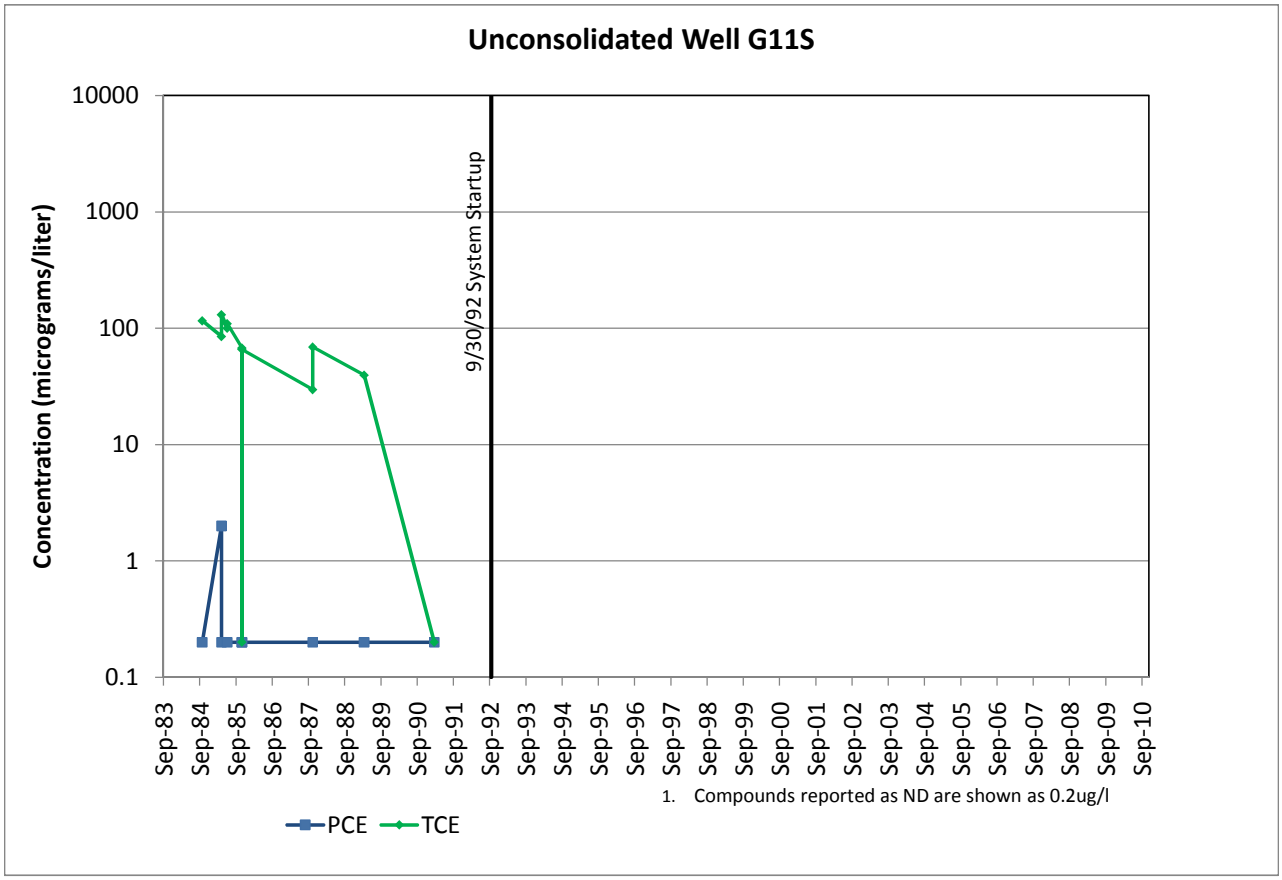

Bedrock Well G10D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

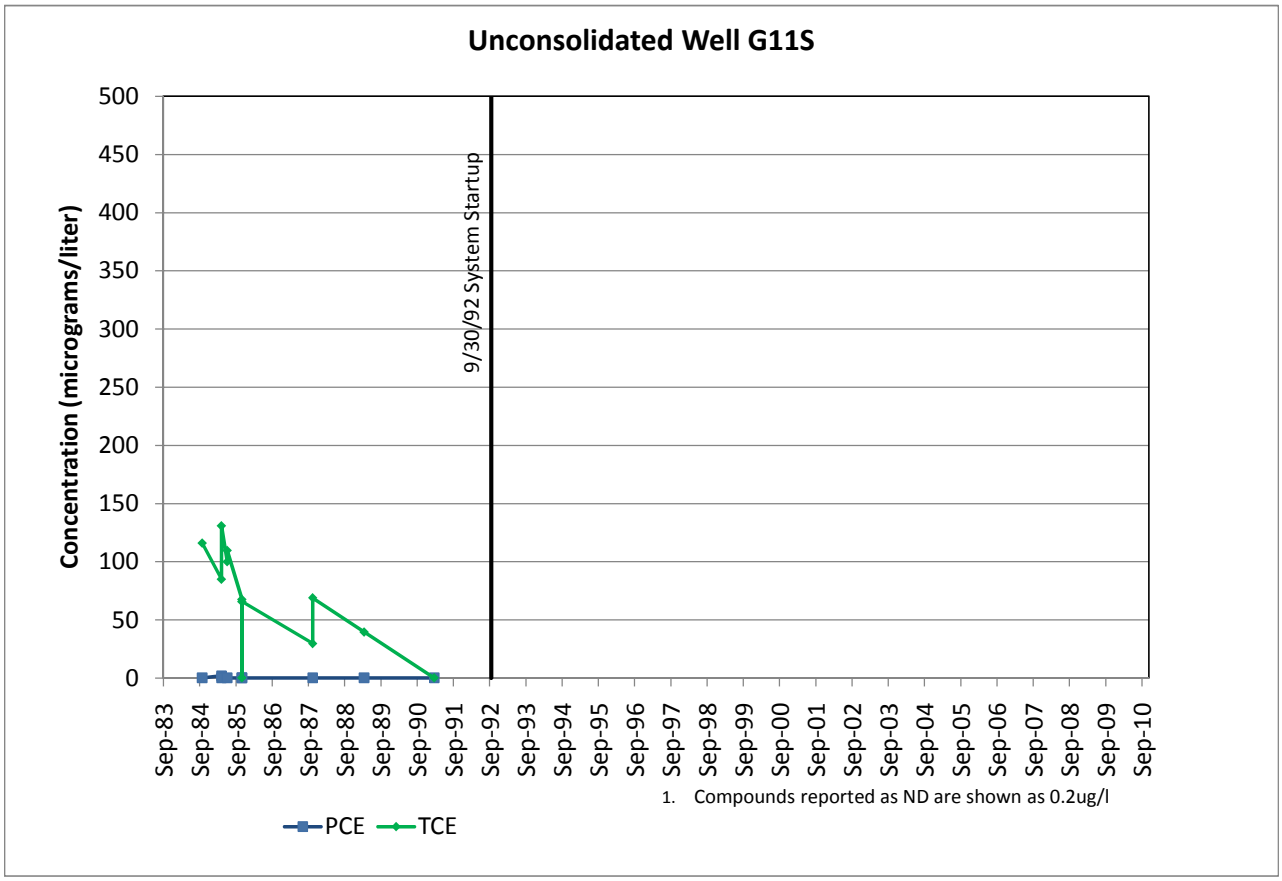

Unconsolidated Well G10S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

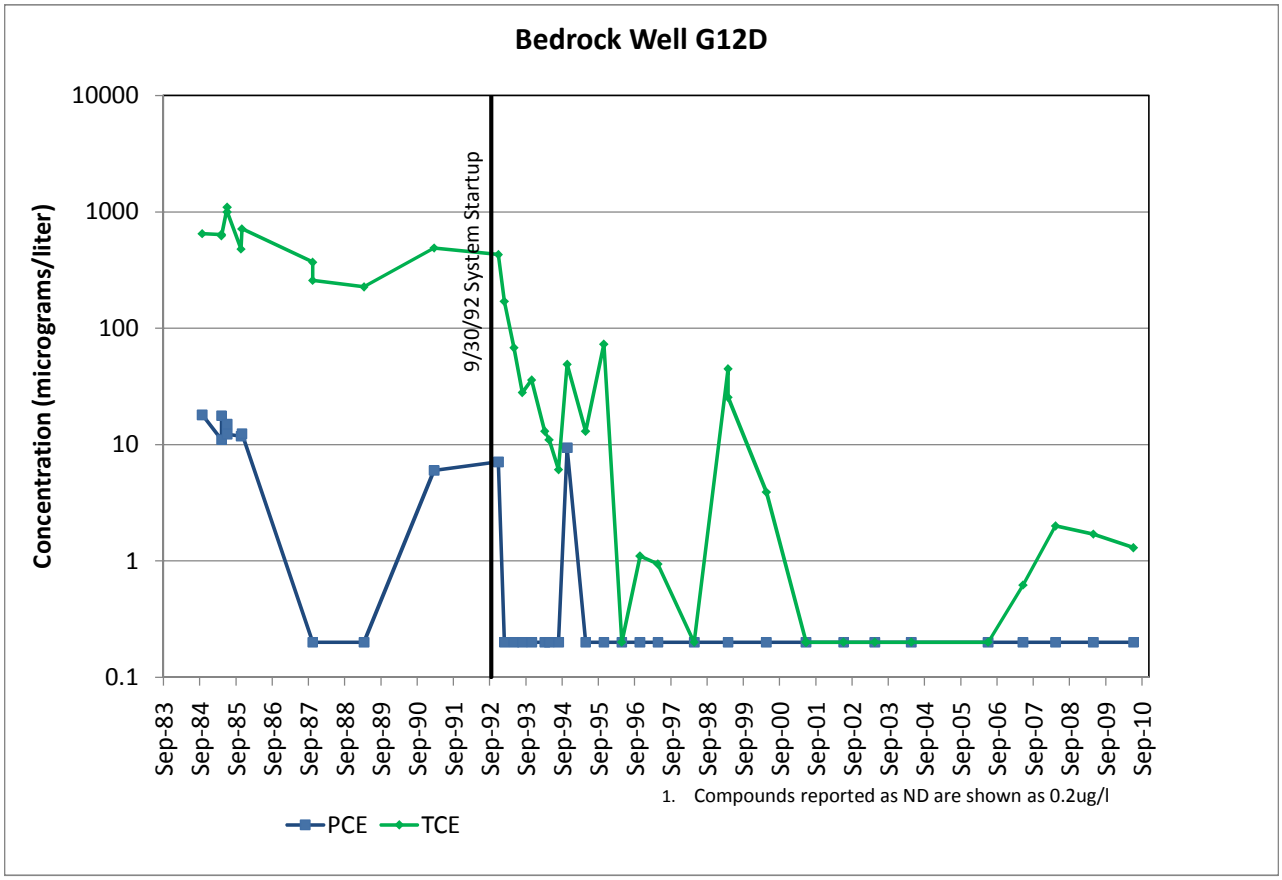

Unconsolidated Well G10S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

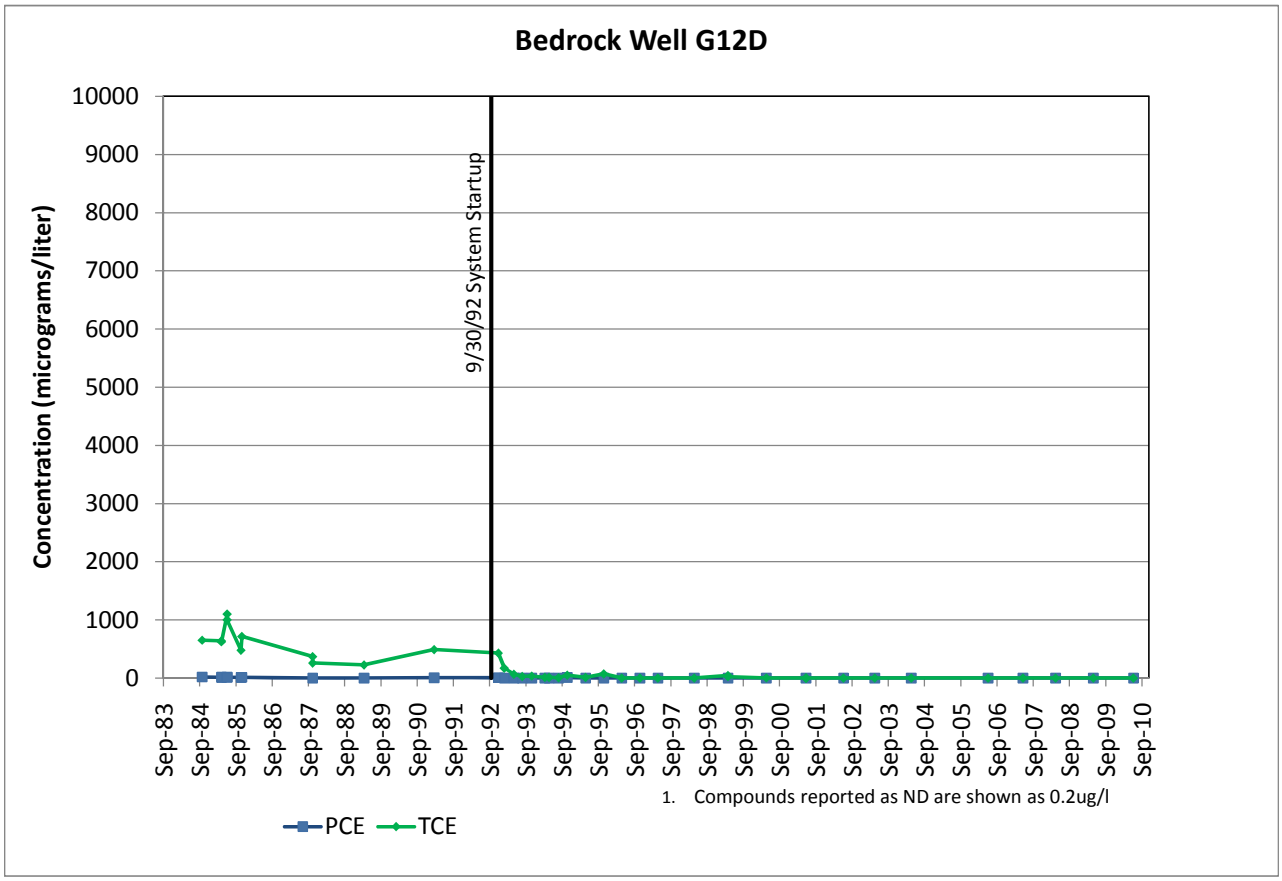

Bedrock Well G11D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

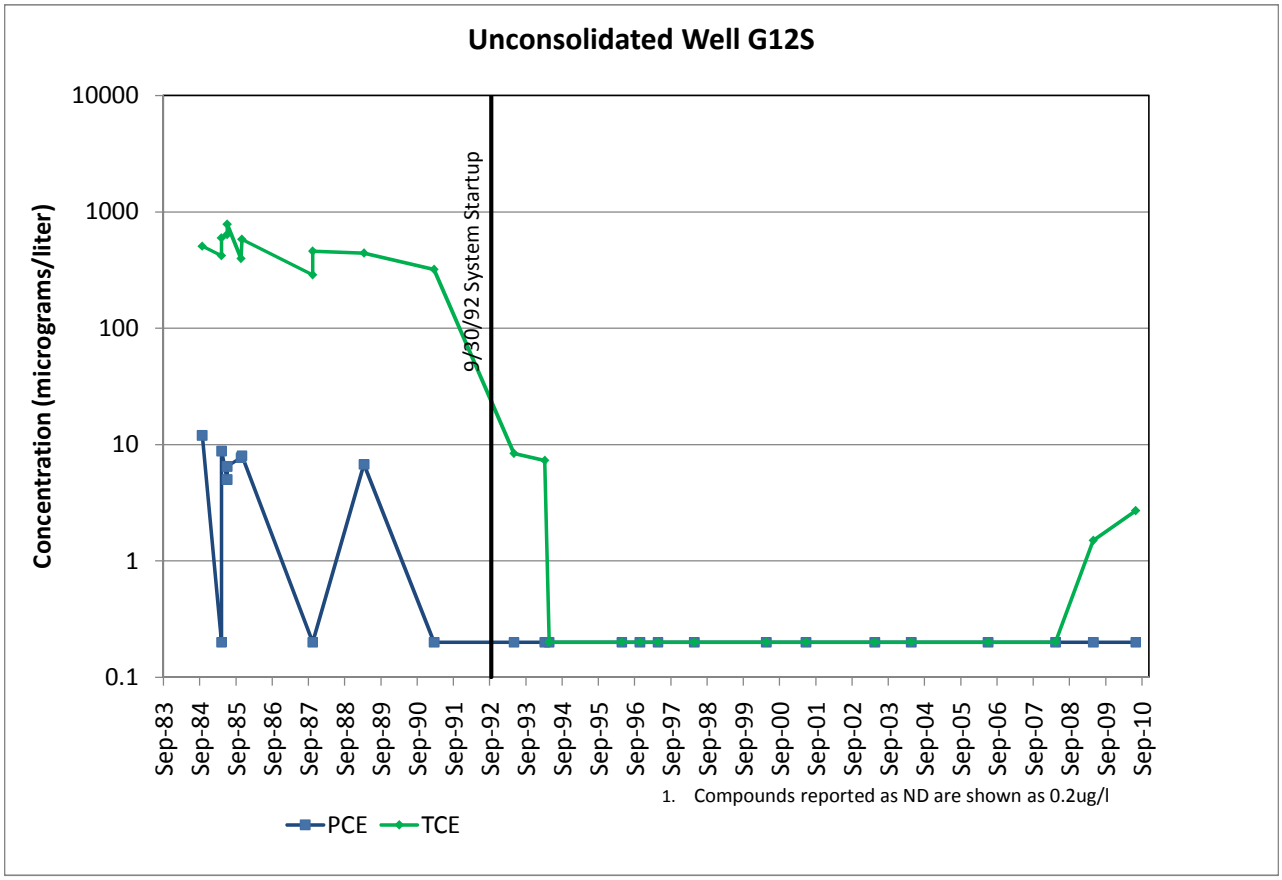

Bedrock Well G11D
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

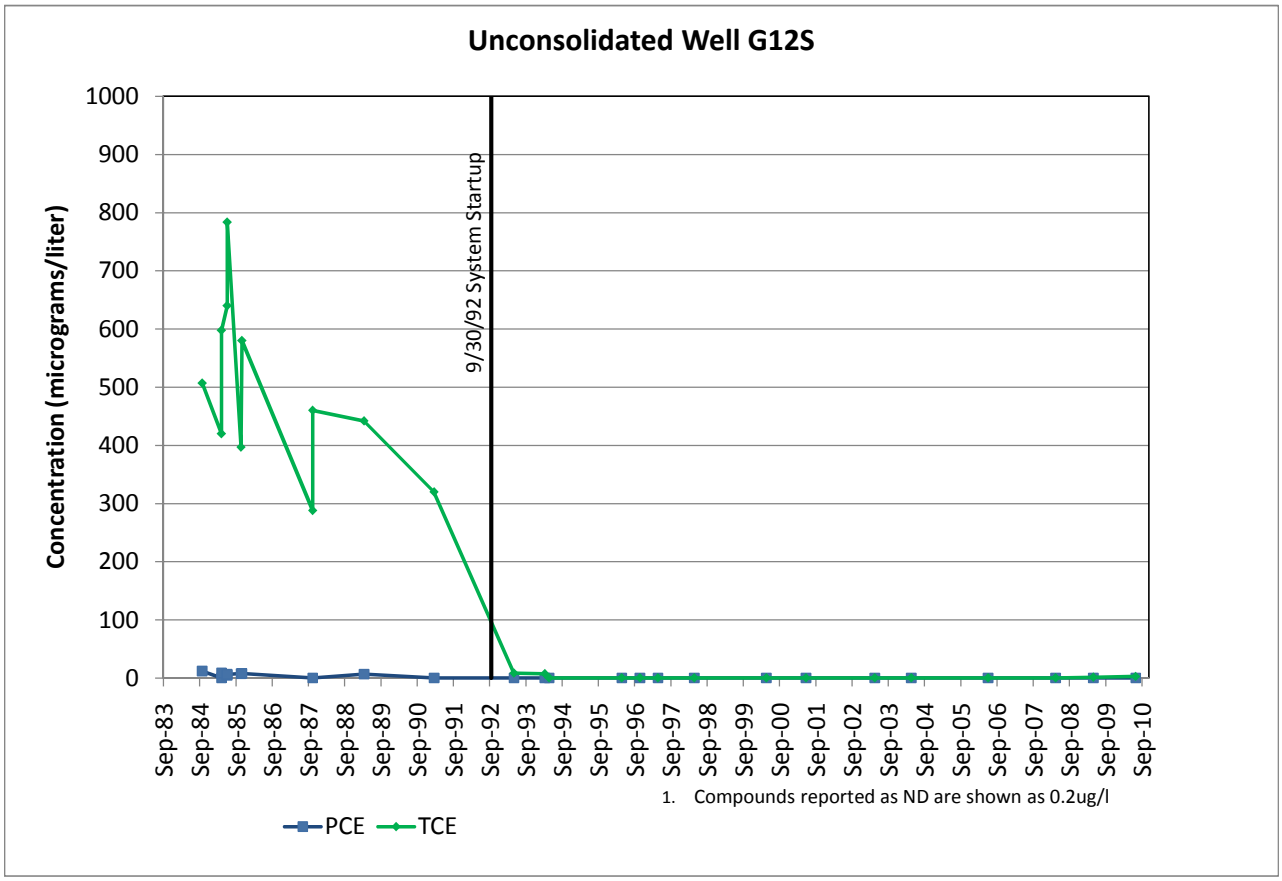

Unconsolidated Well G11S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

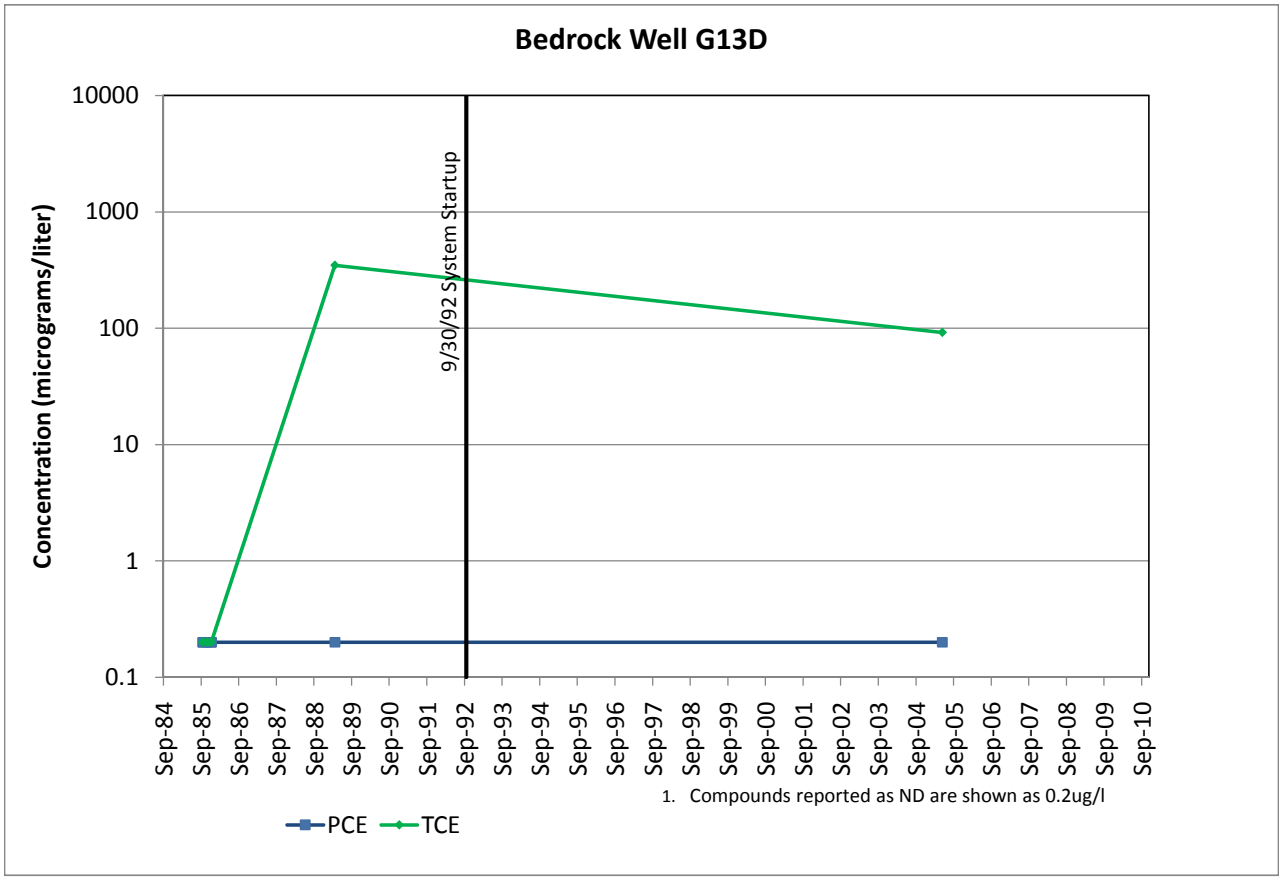

Unconsolidated Well G11S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

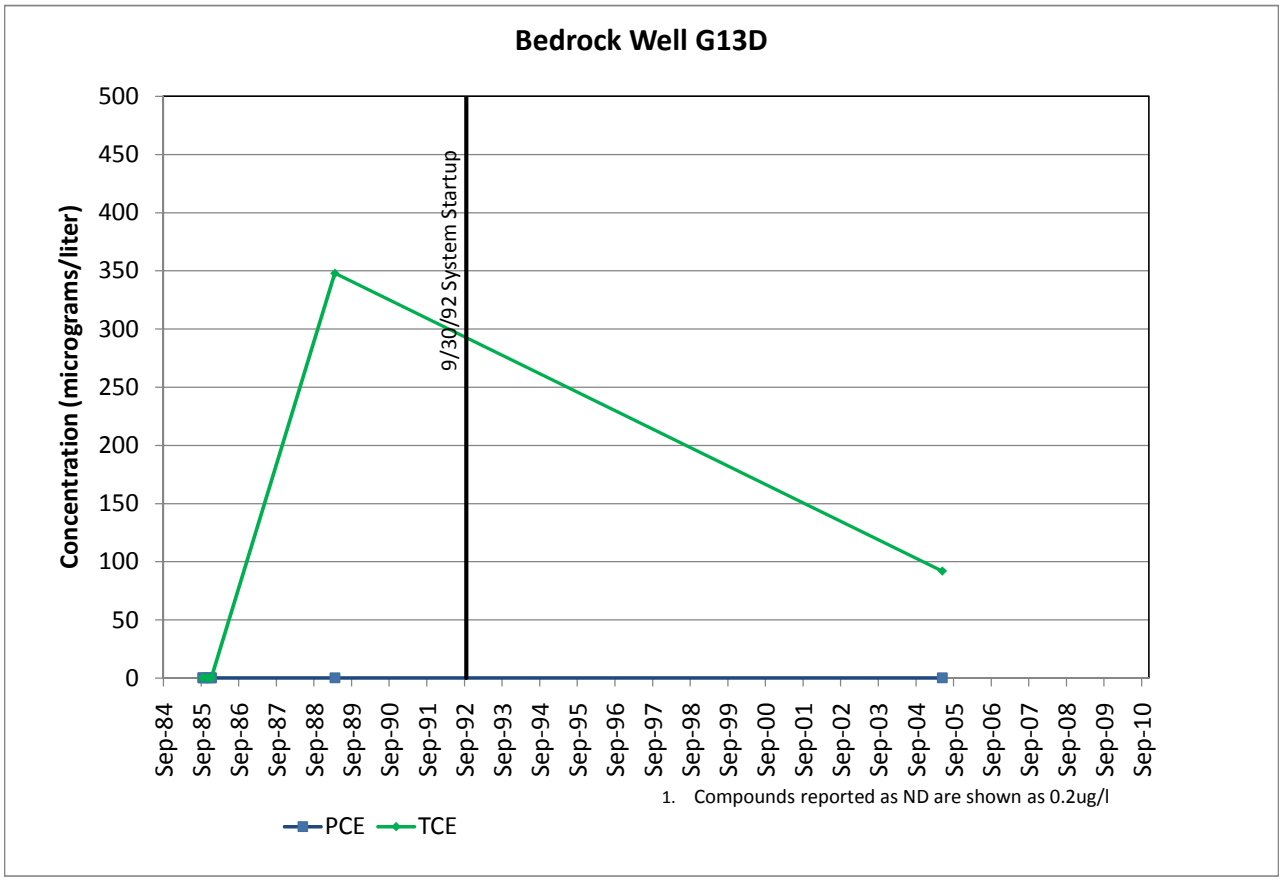

Bedrock Well G12D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

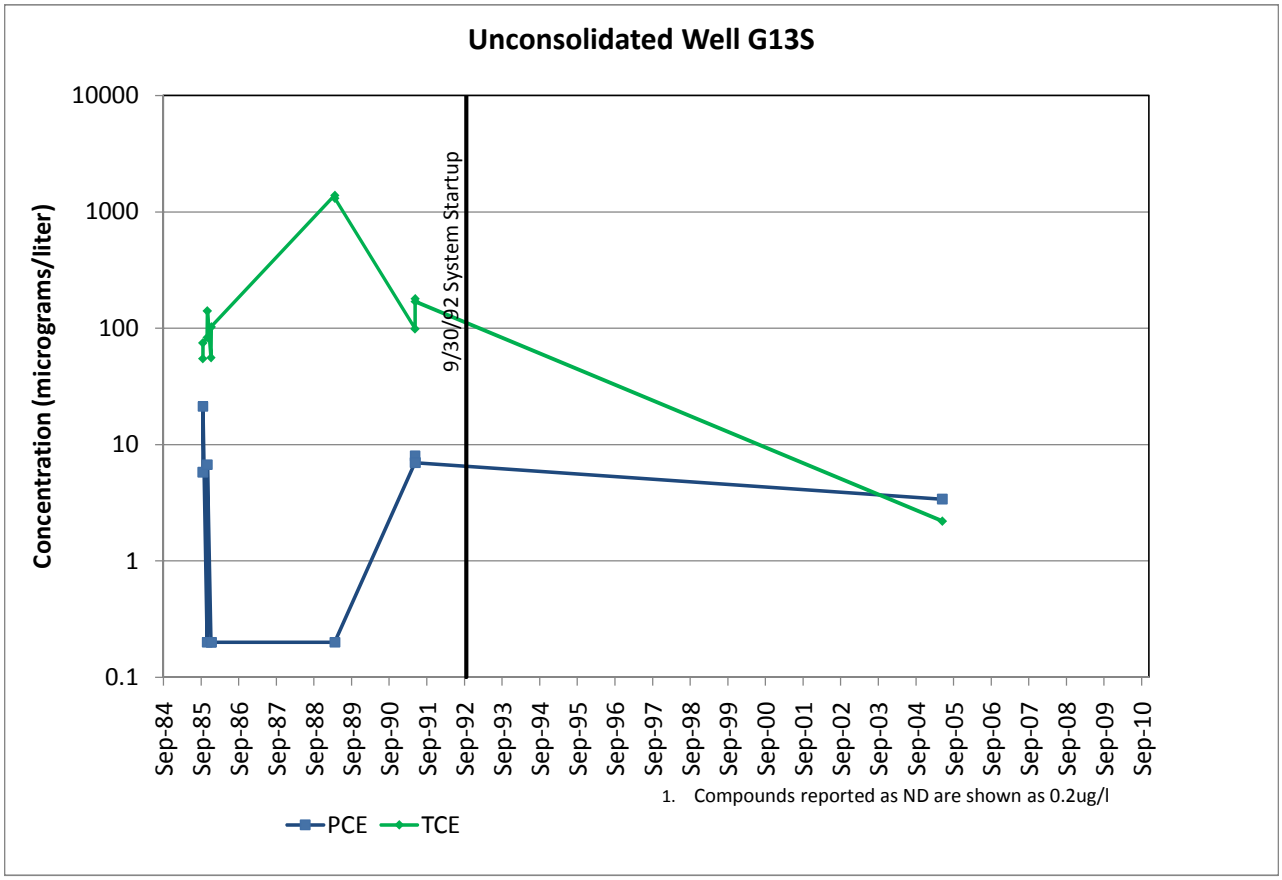

Bedrock Well G12D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

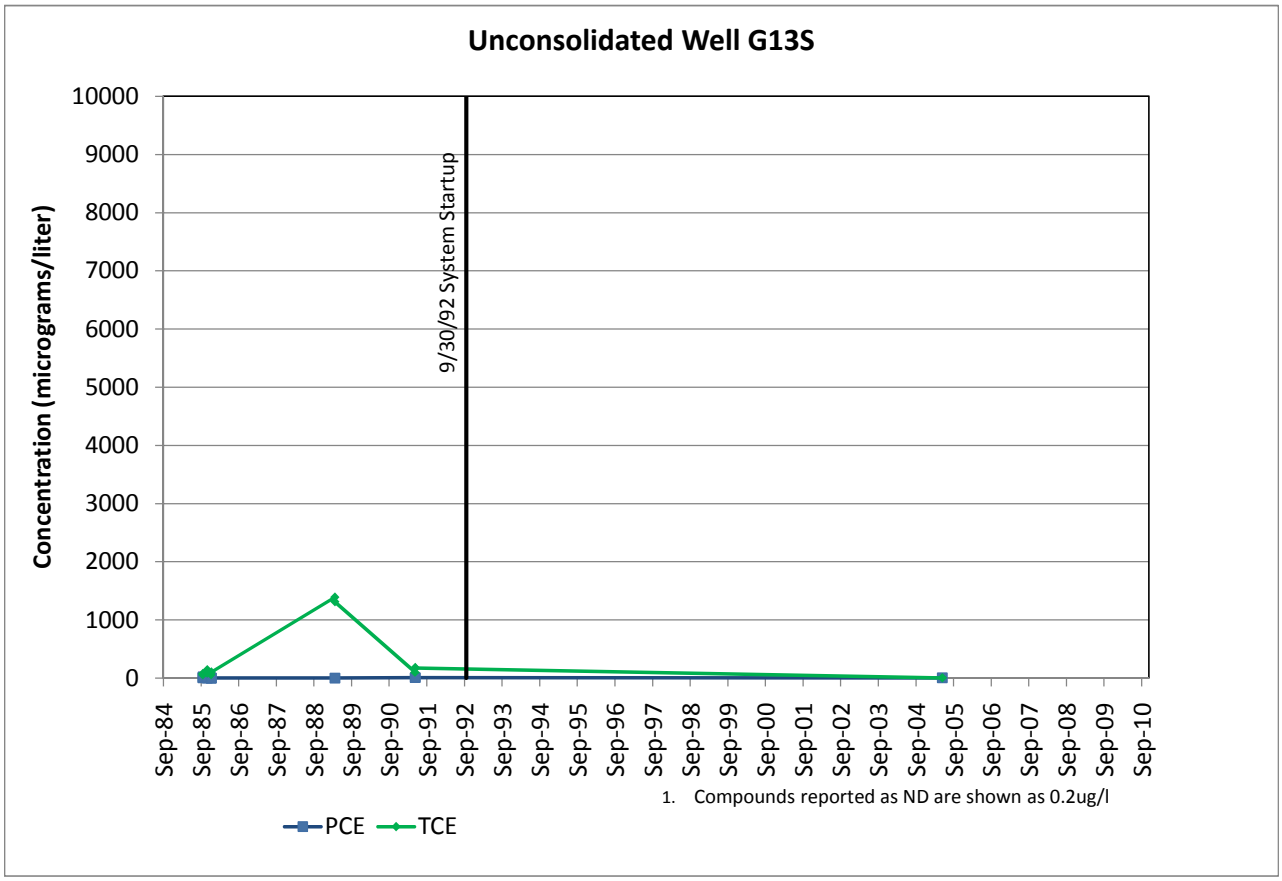

Unconsolidated Well G12S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

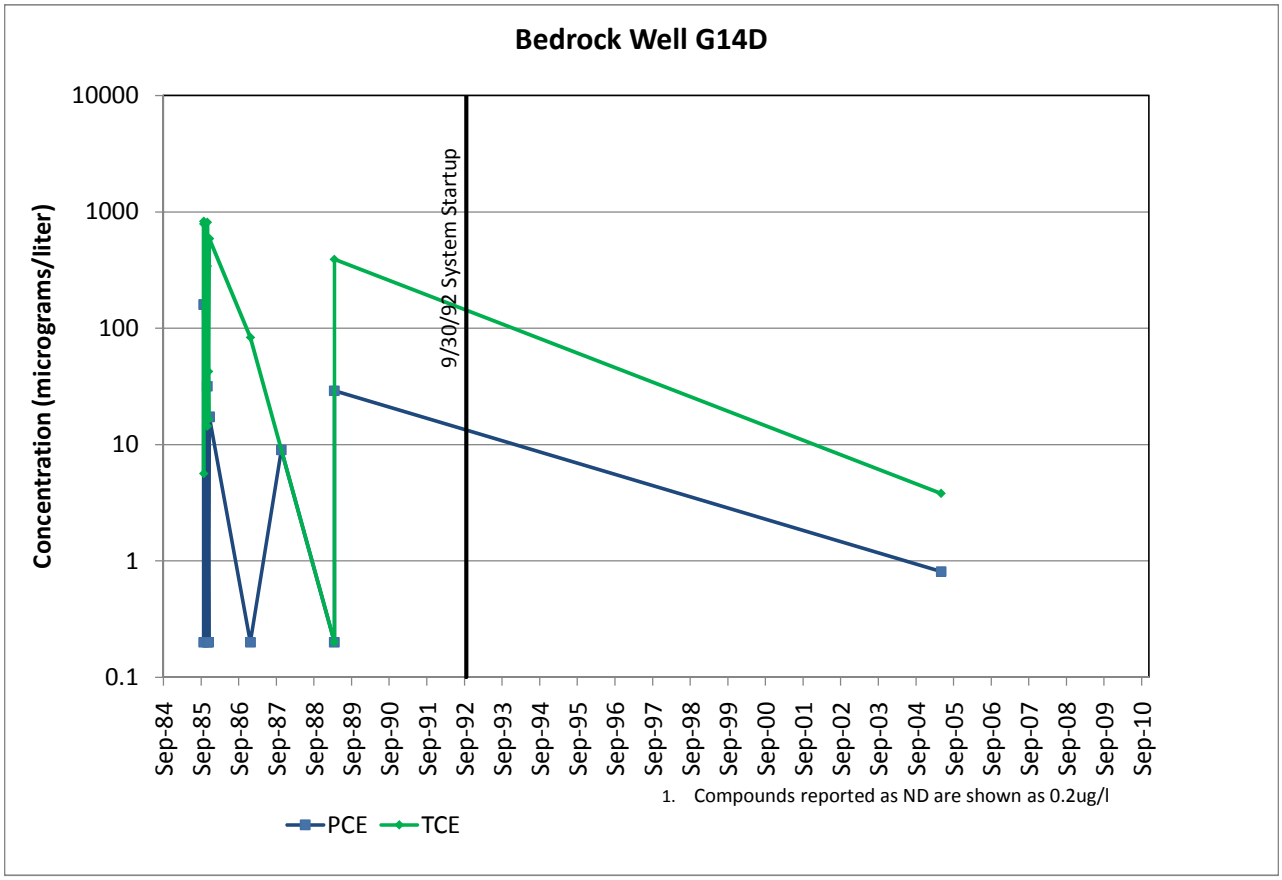

Unconsolidated Well G12S
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

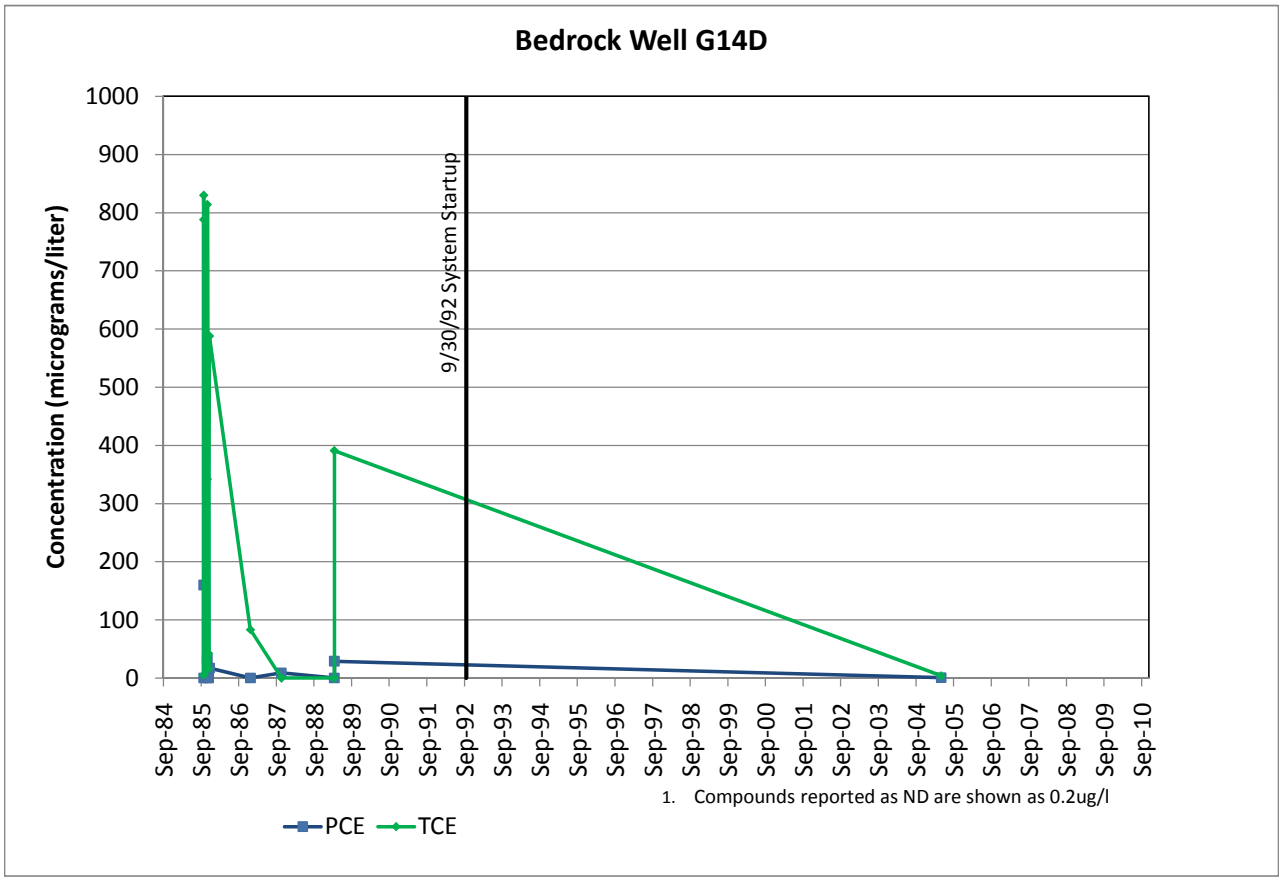

Bedrock Well G13D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

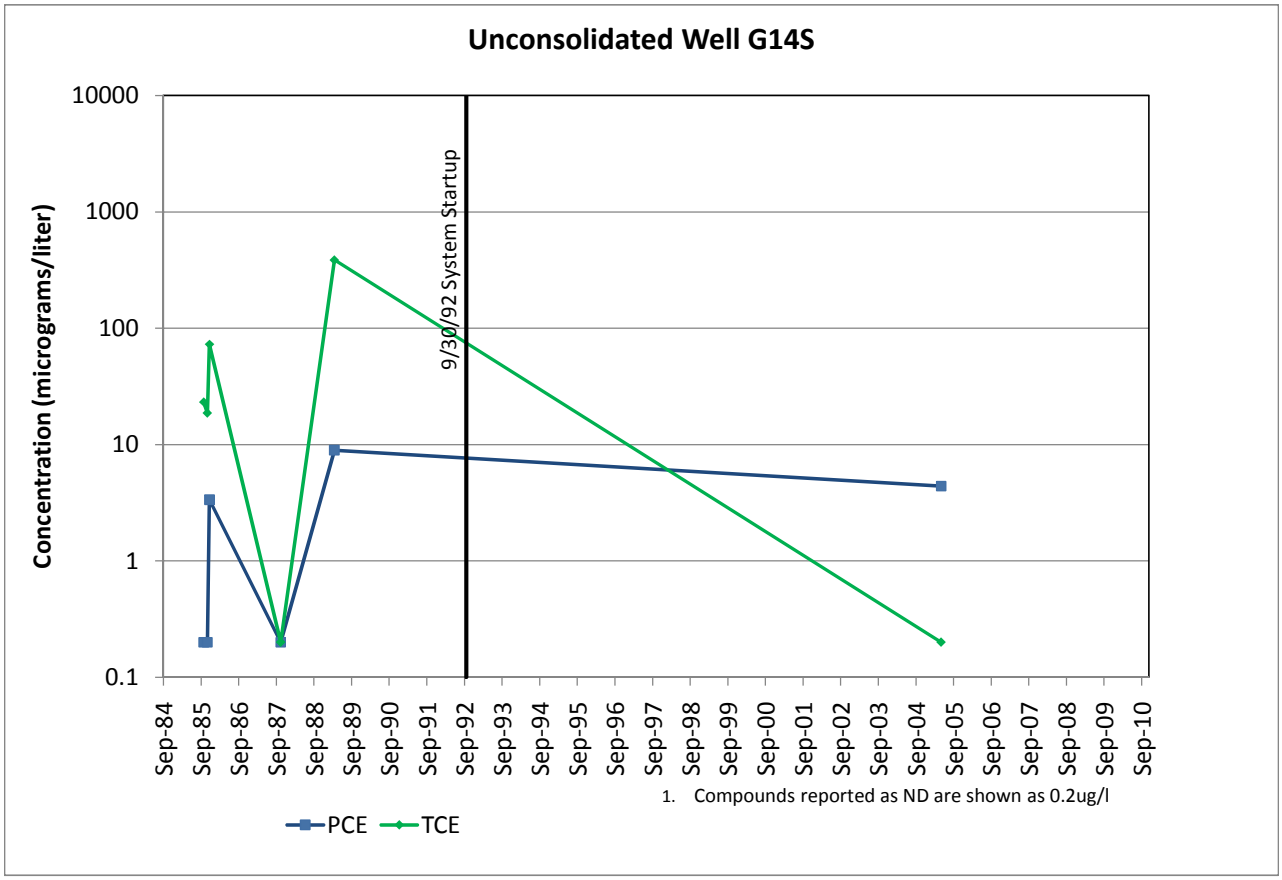

Bedrock Well G13D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

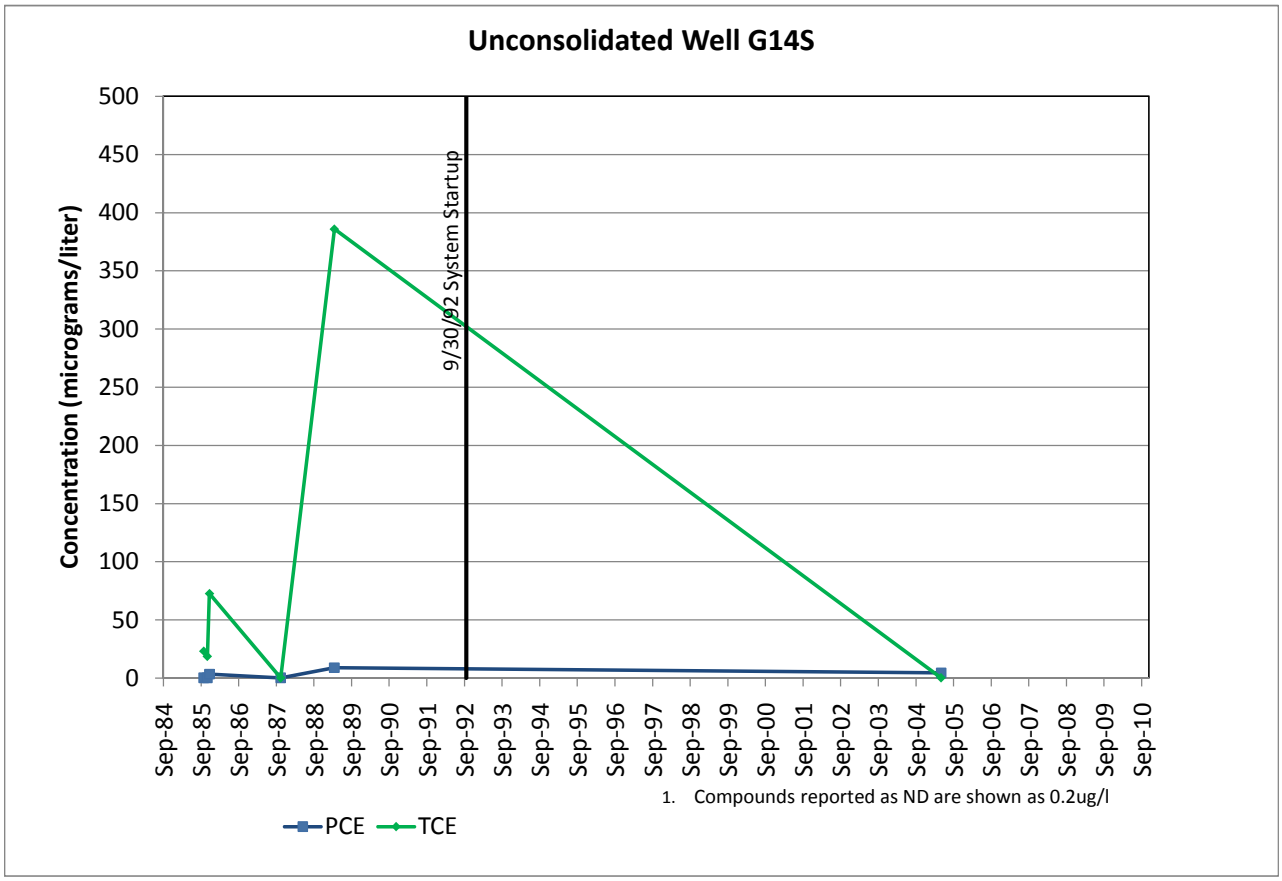

Unconsolidated Well G13S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

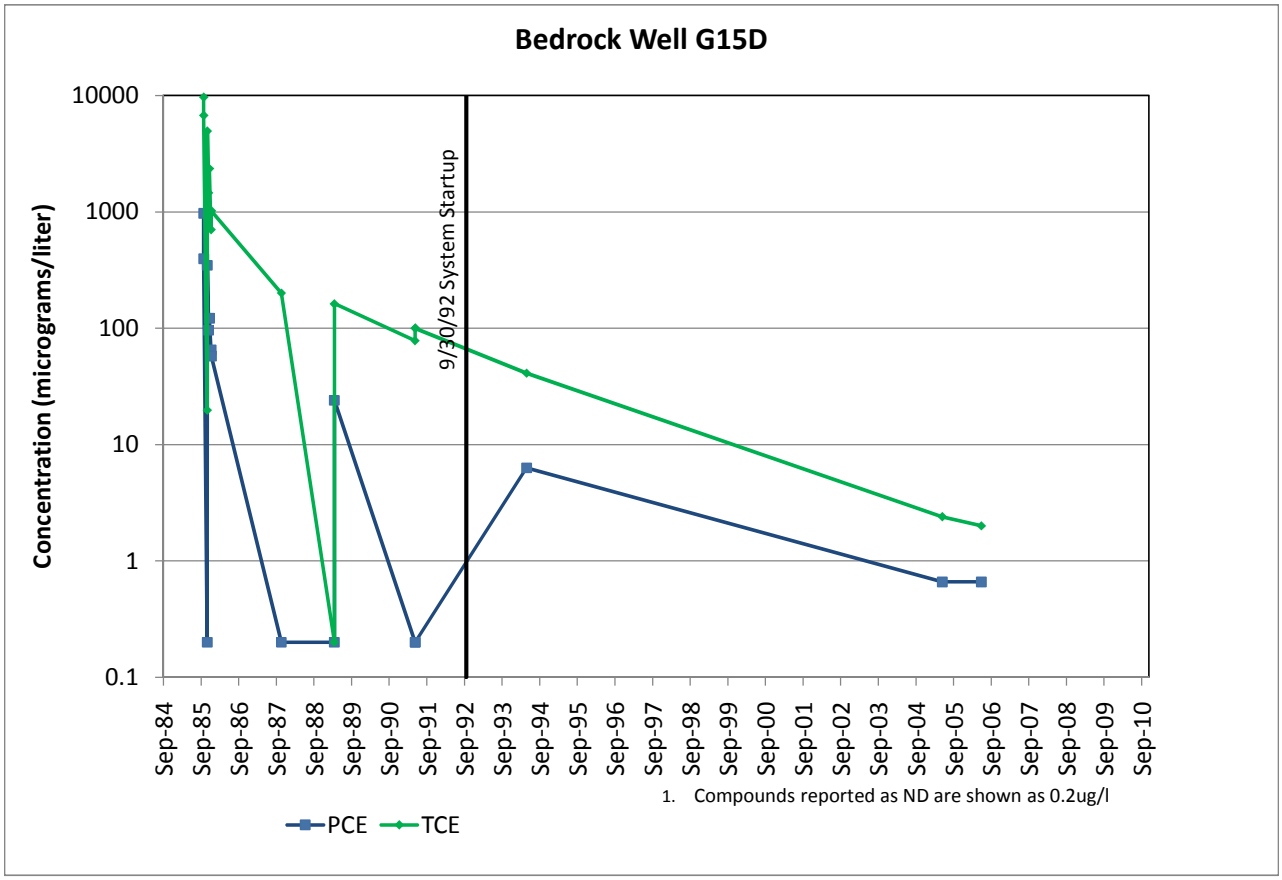

Unconsolidated Well G13S
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

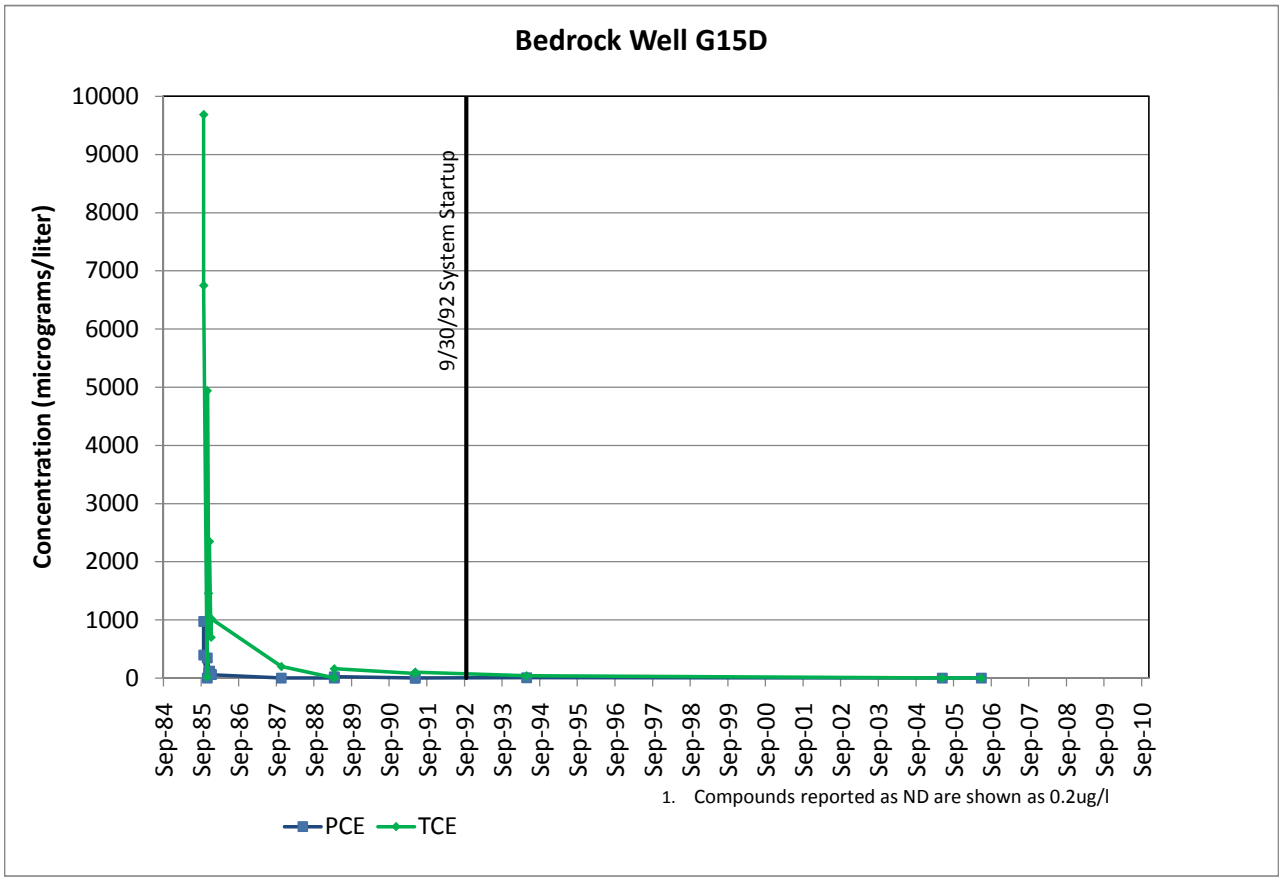

Bedrock Well G14D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

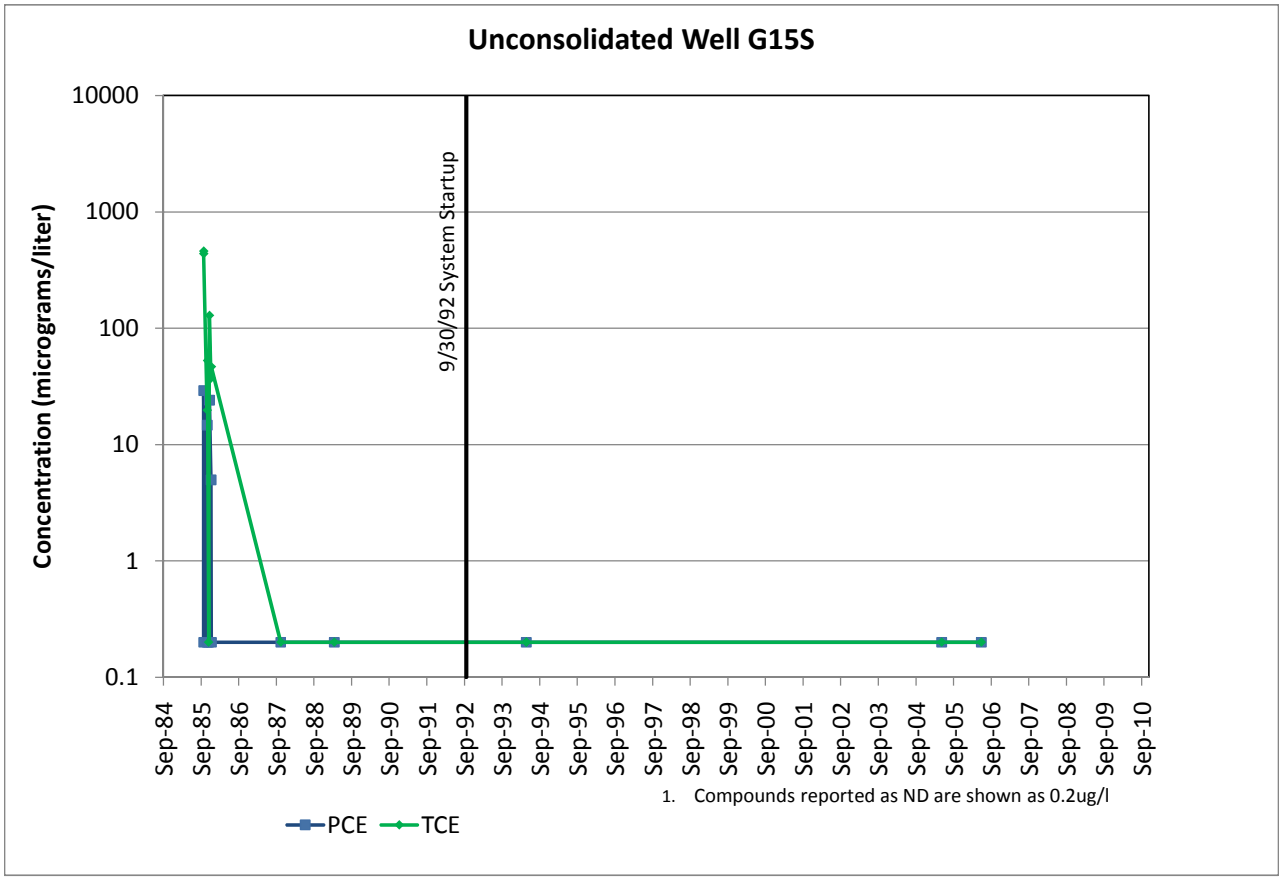

Bedrock Well G14D
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

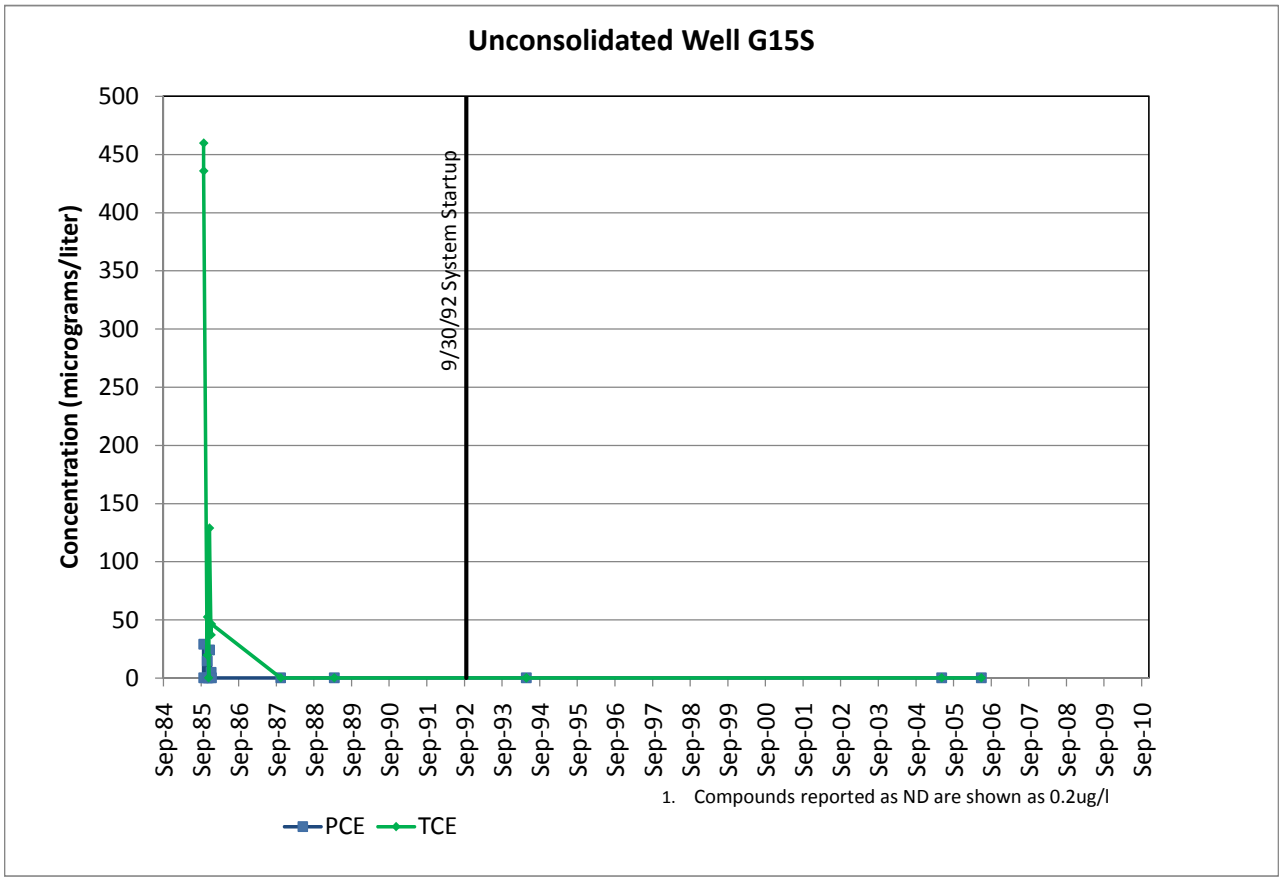

Unconsolidated Well G14S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

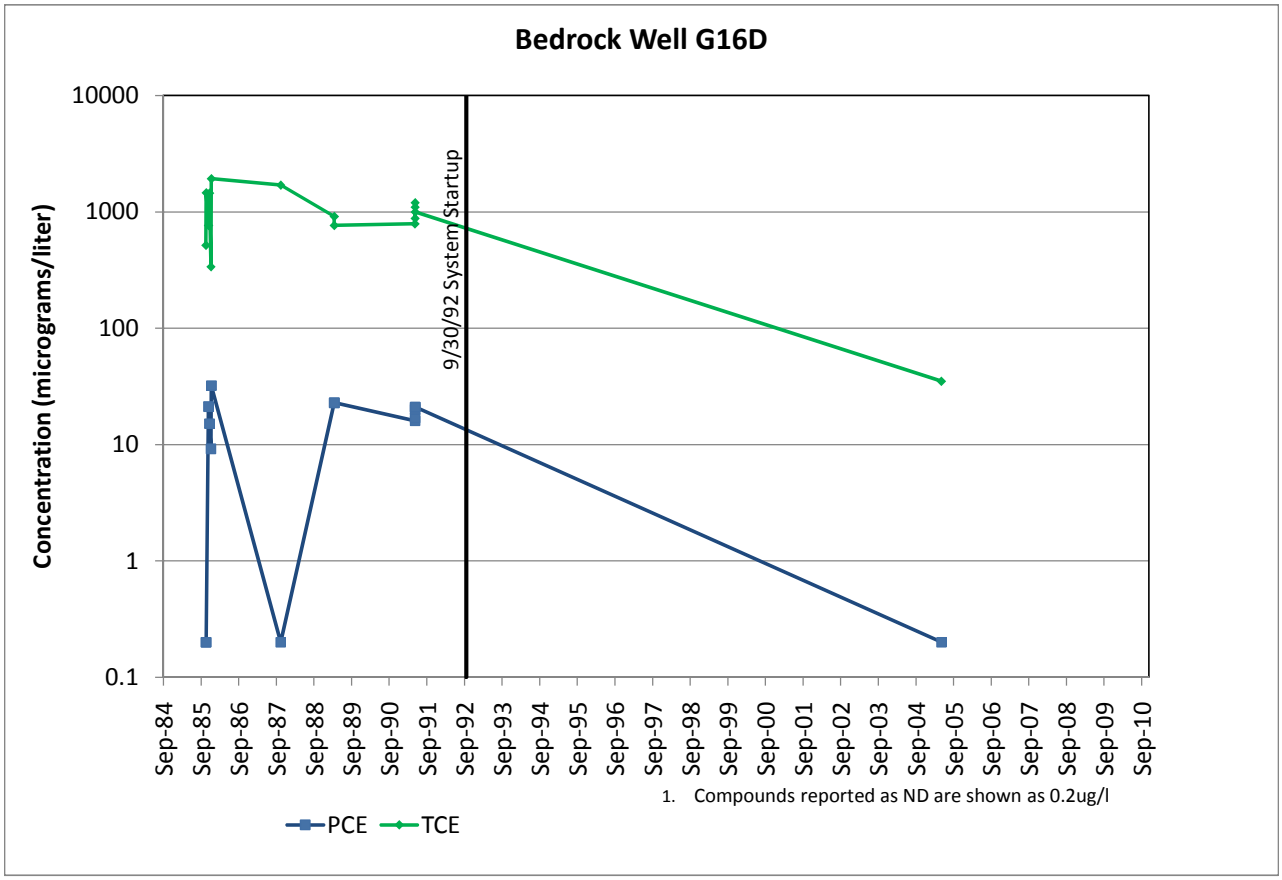

Unconsolidated Well G14S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

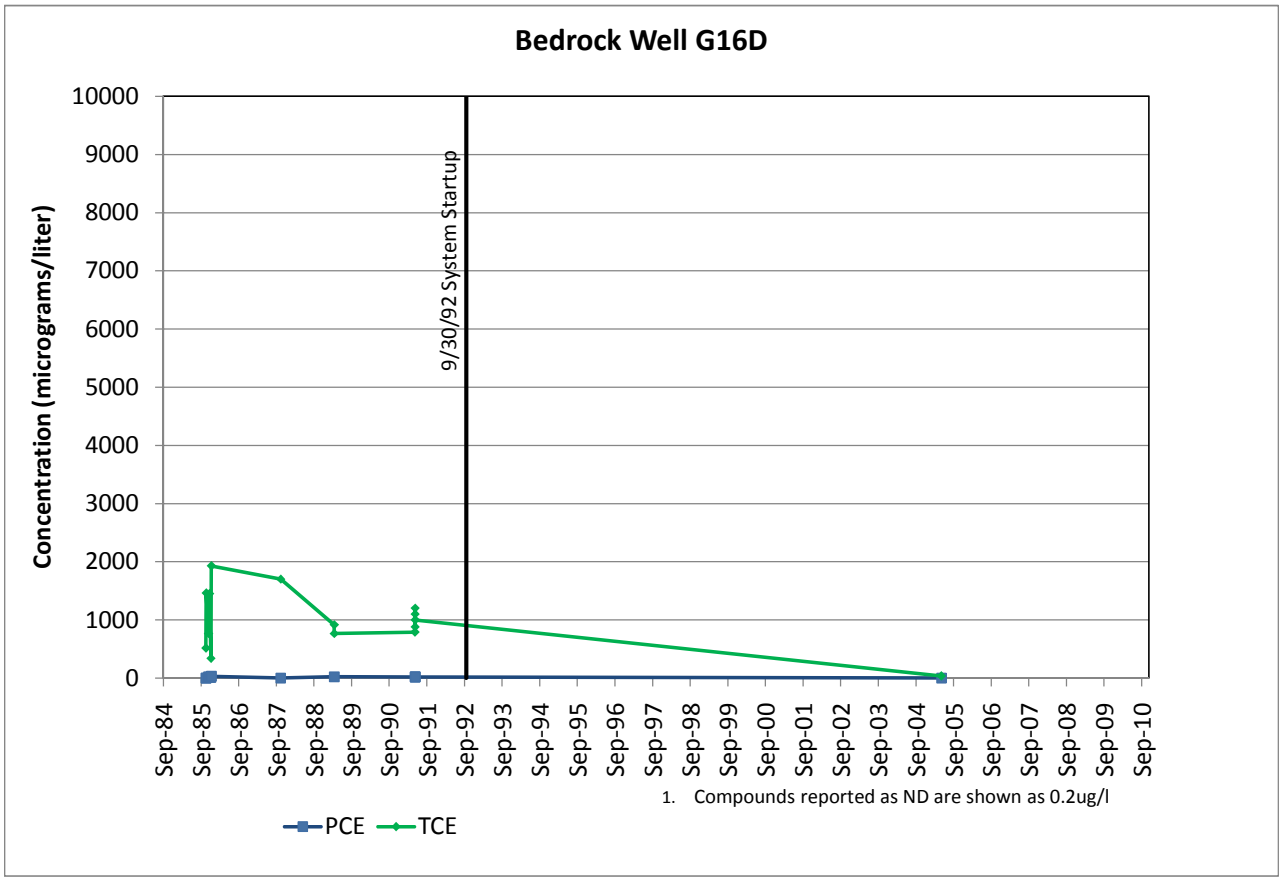

Bedrock Well G15D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

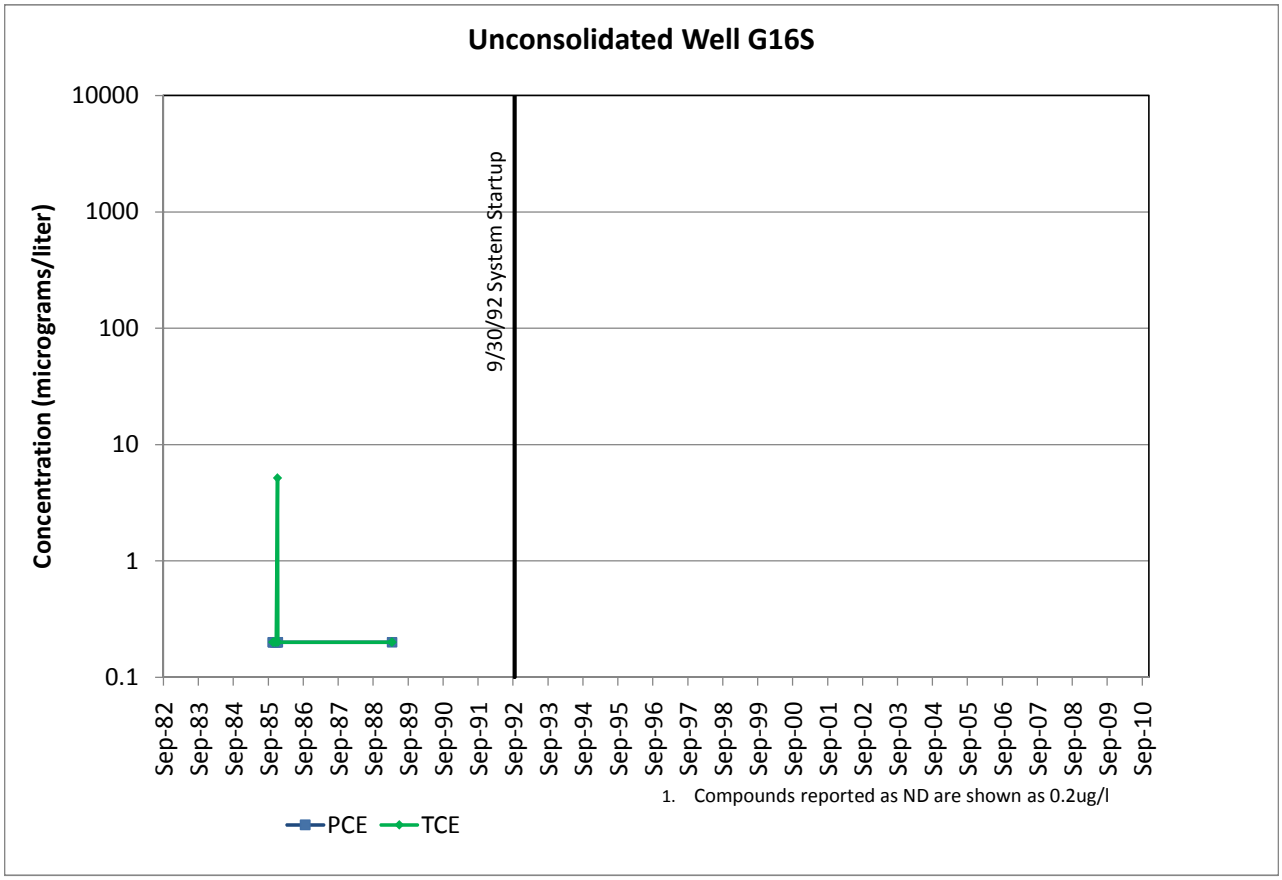

Bedrock Well G15D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

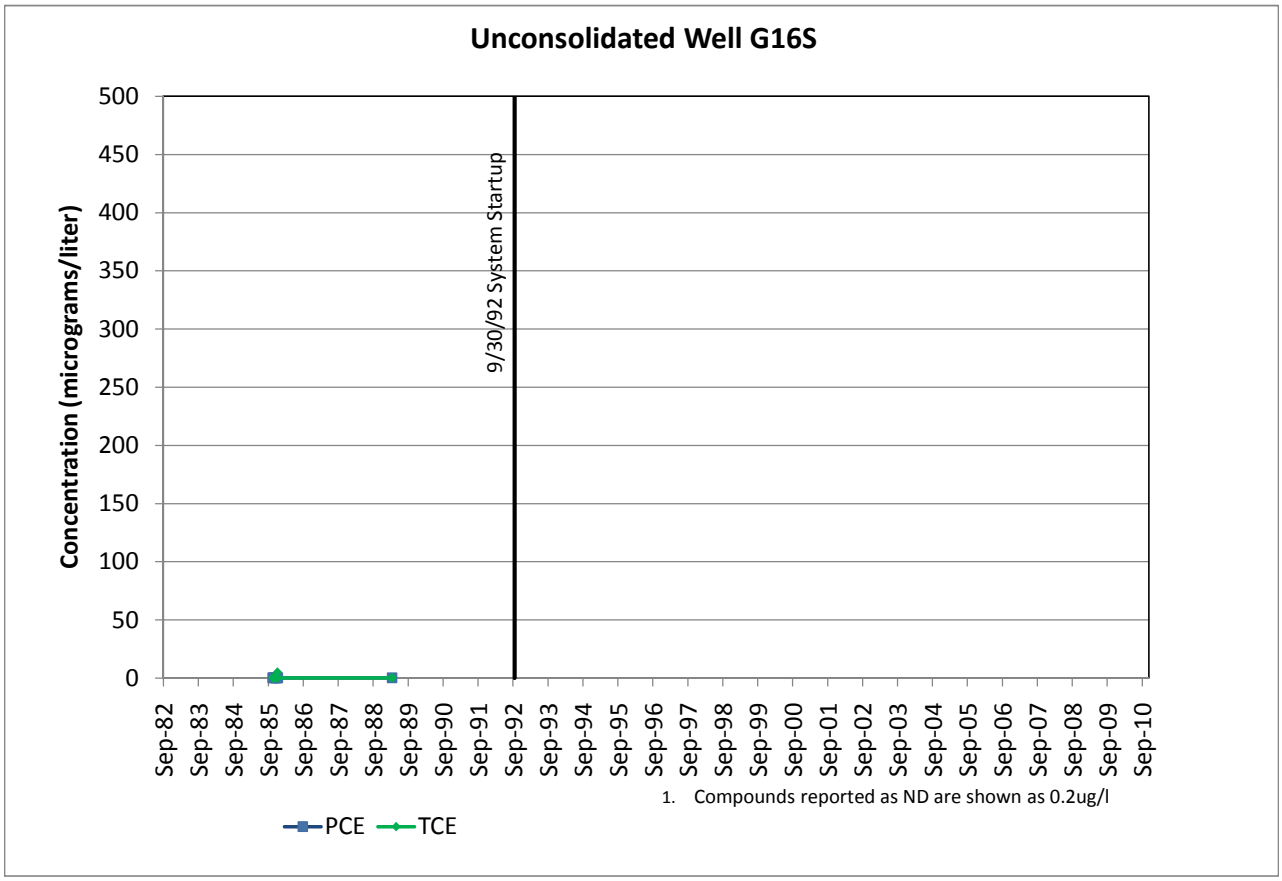

Unconsolidated Well G15S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

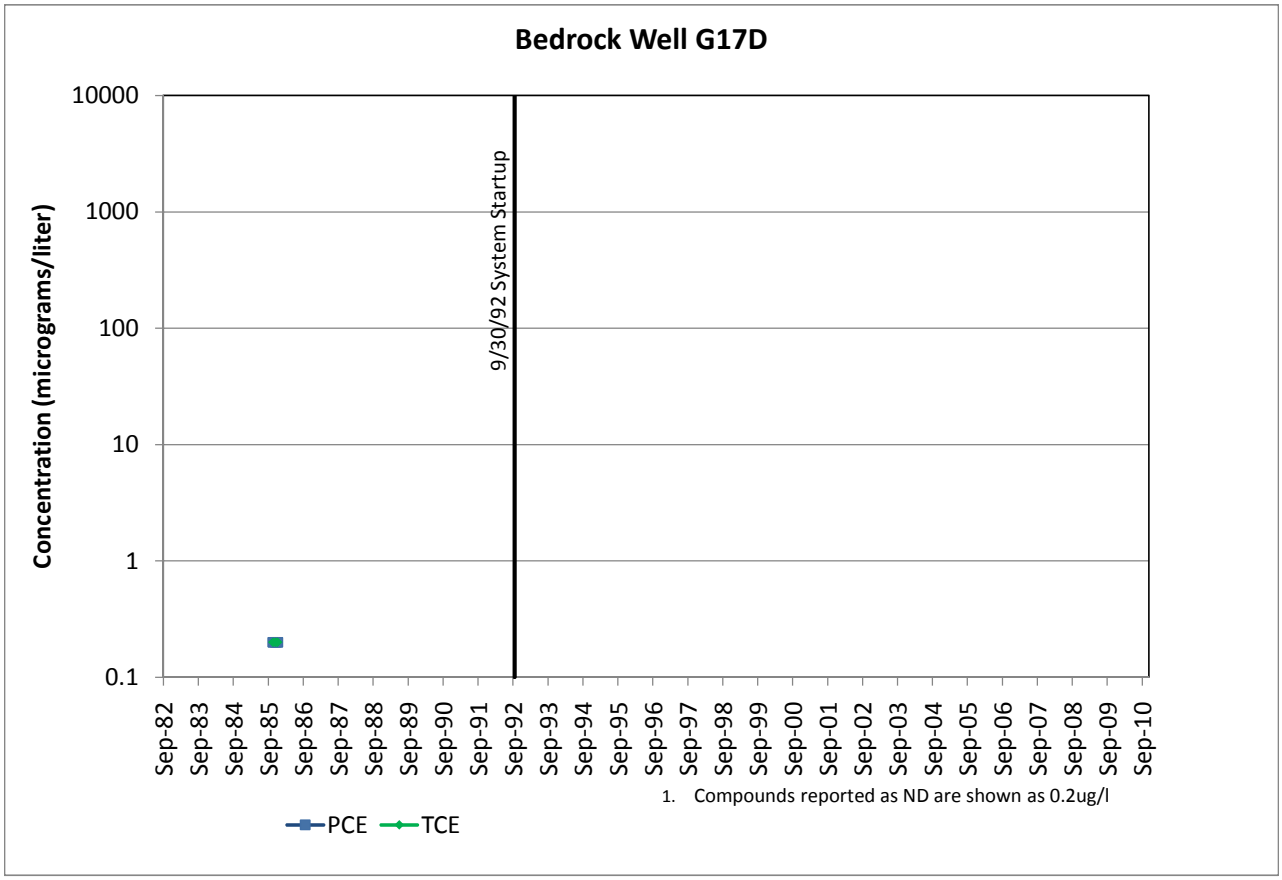

Unconsolidated Well G15S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

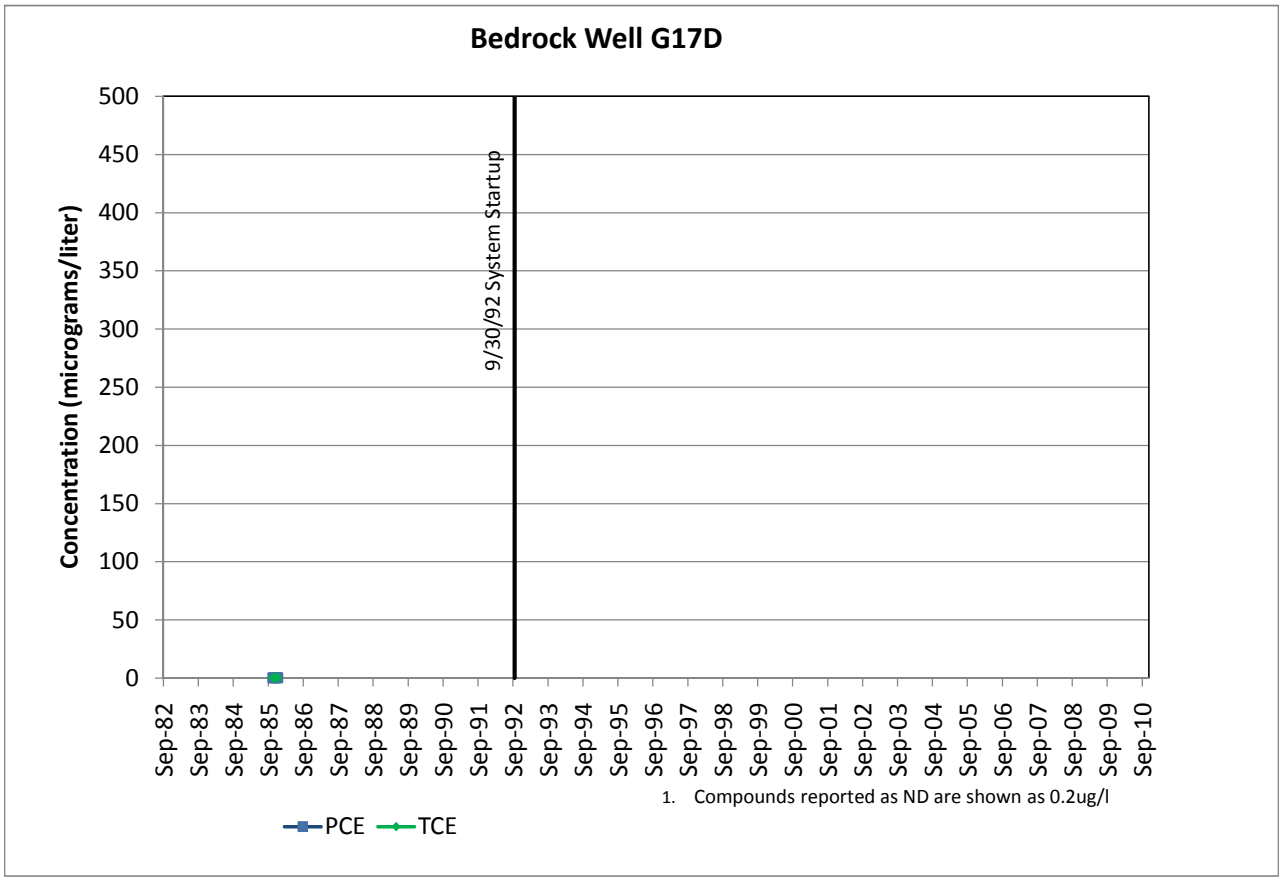

Bedrock Well G16D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

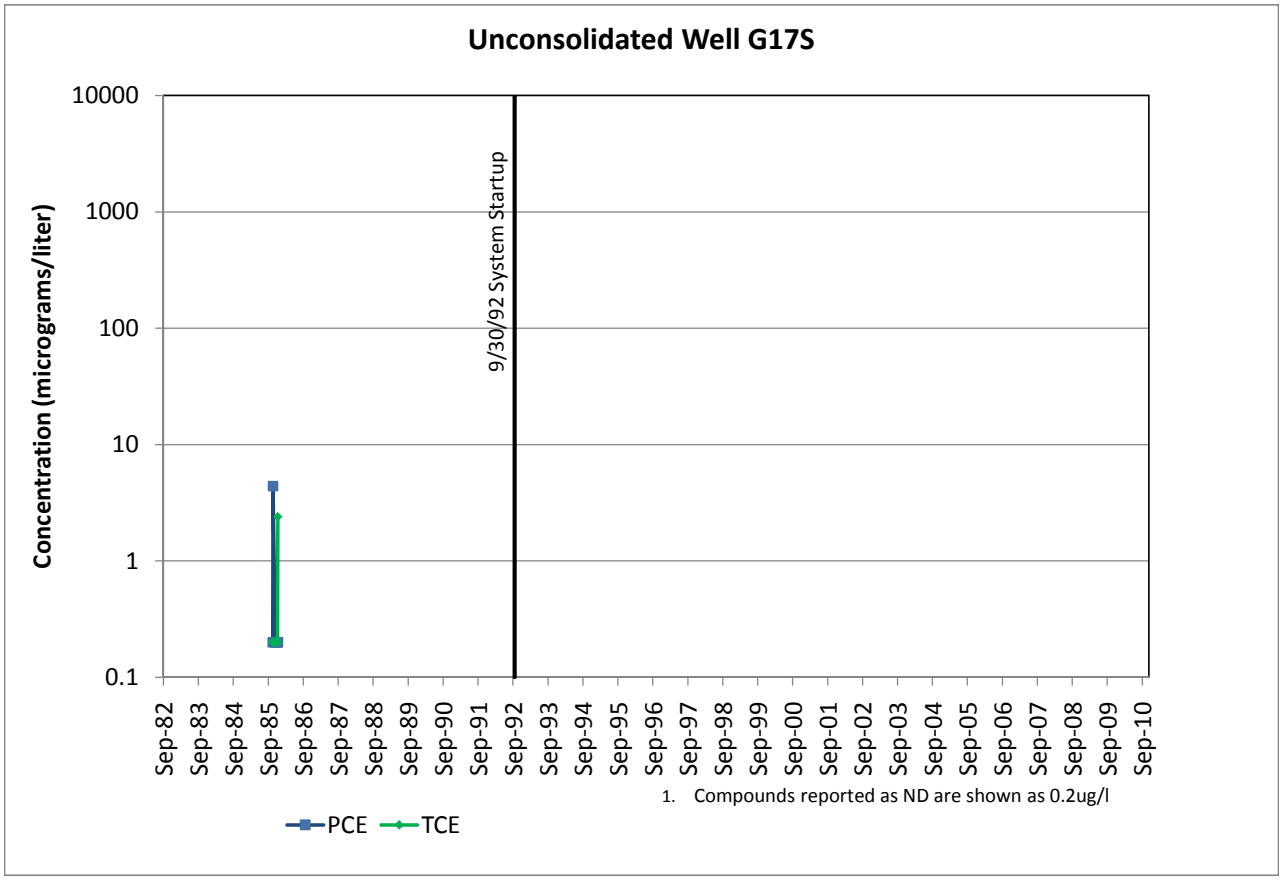

Bedrock Well G16D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

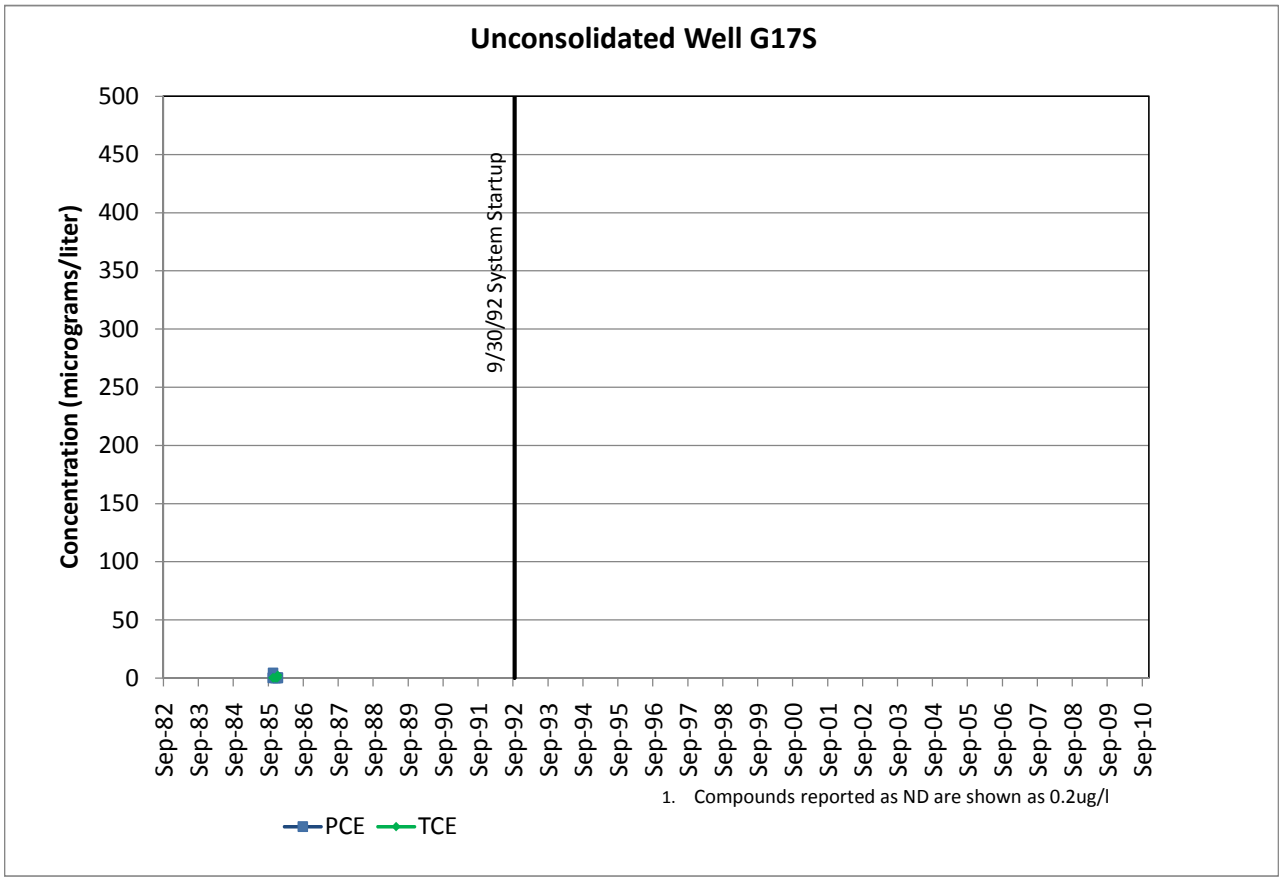

Unconsolidated Well G16S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

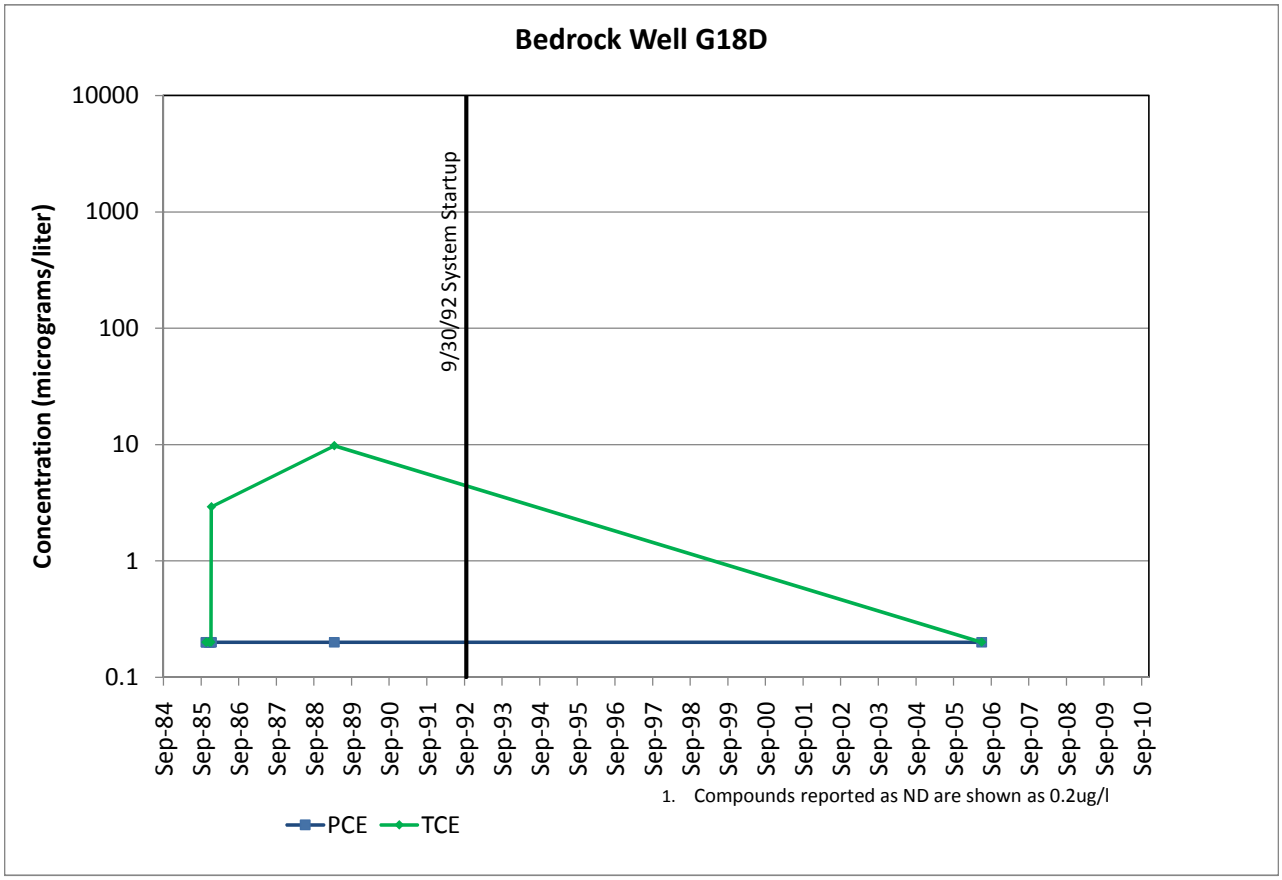

Unconsolidated Well G16S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

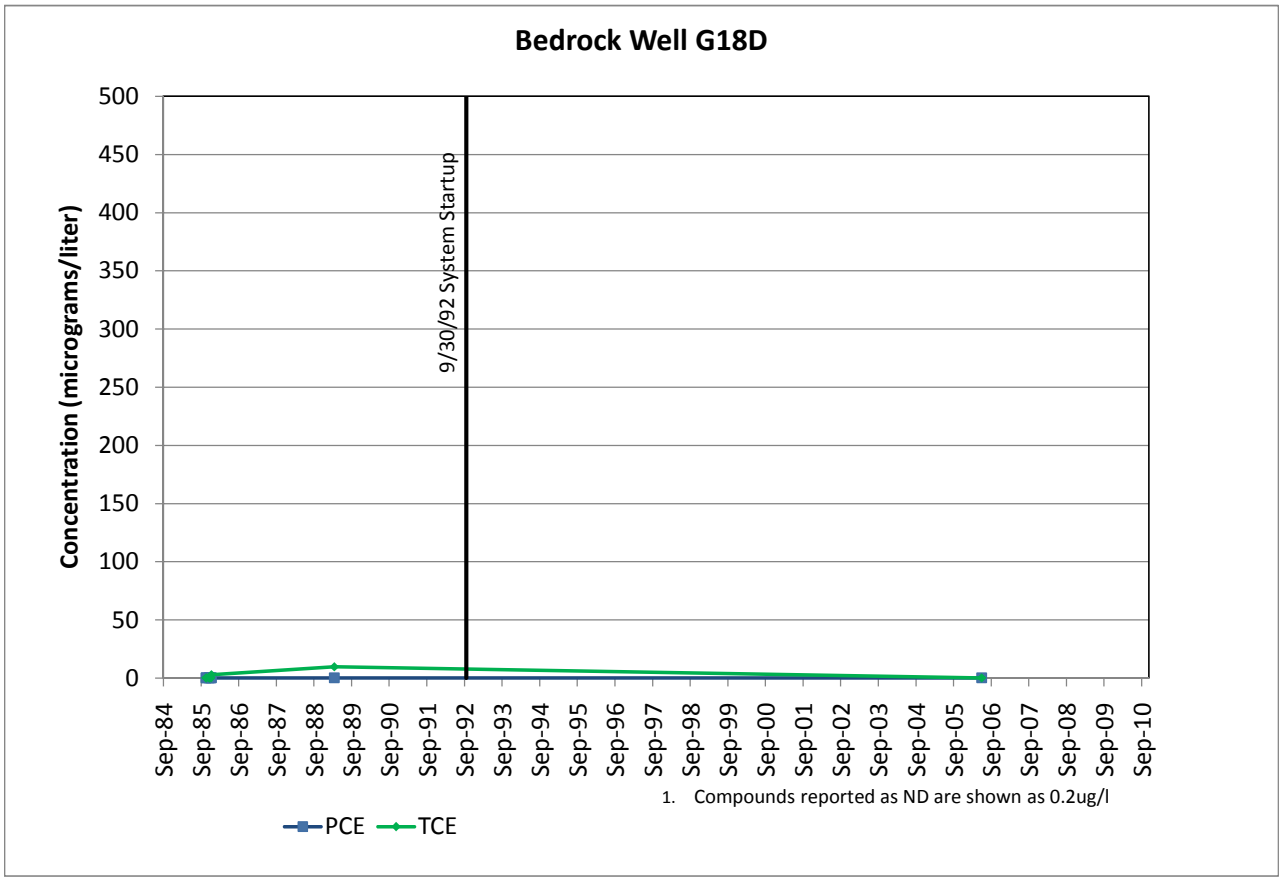

Bedrock Well G17D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

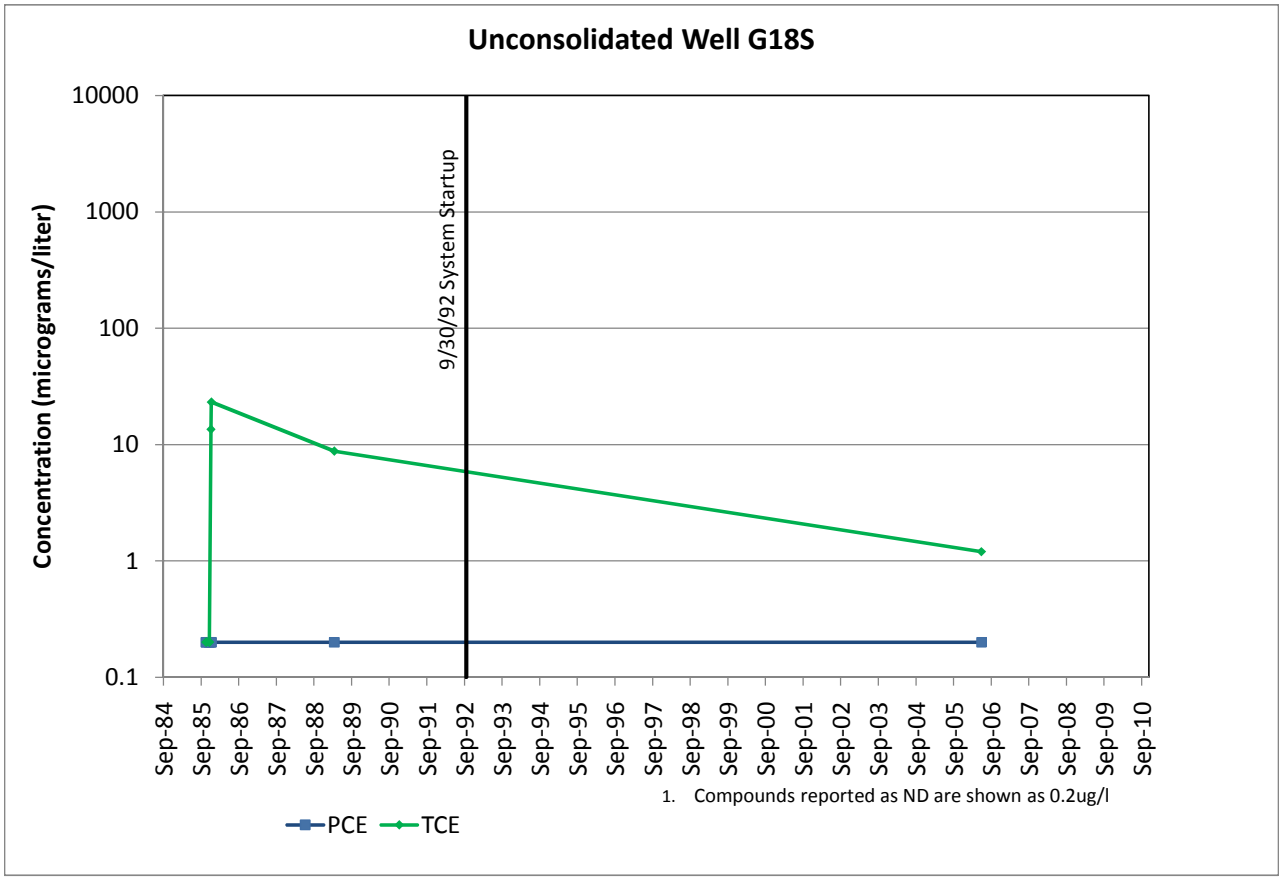

Bedrock Well G17D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

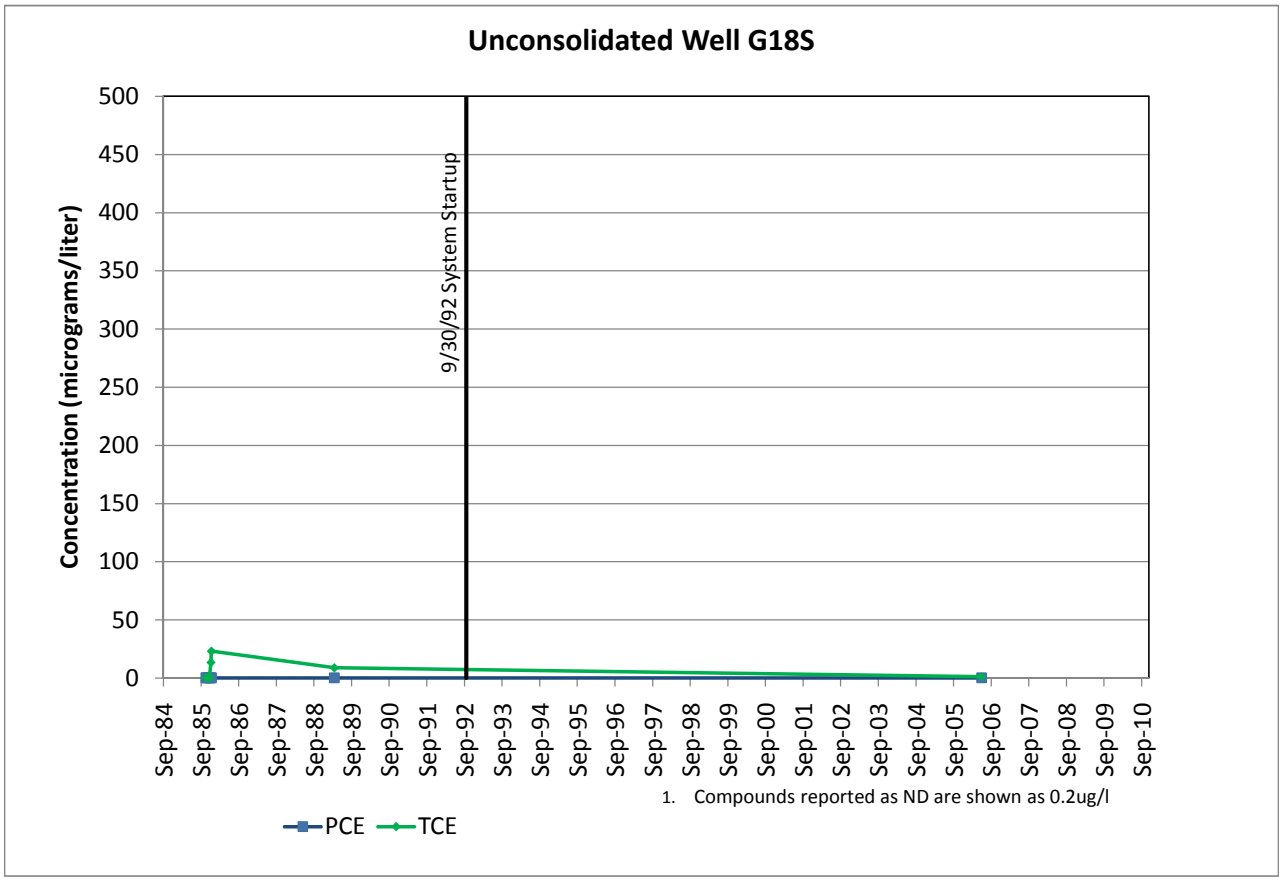

Unconsolidated Well G17S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

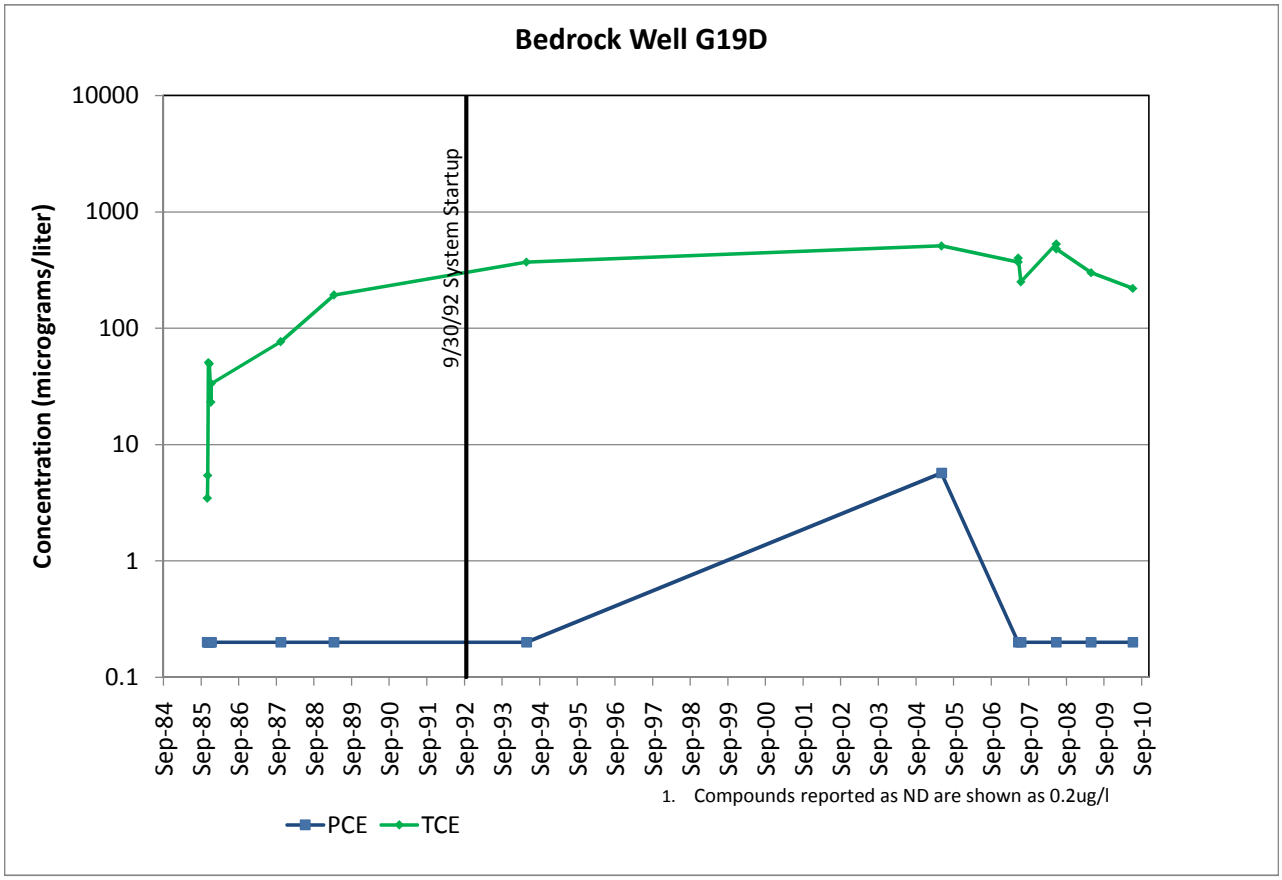

Unconsolidated Well G17S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

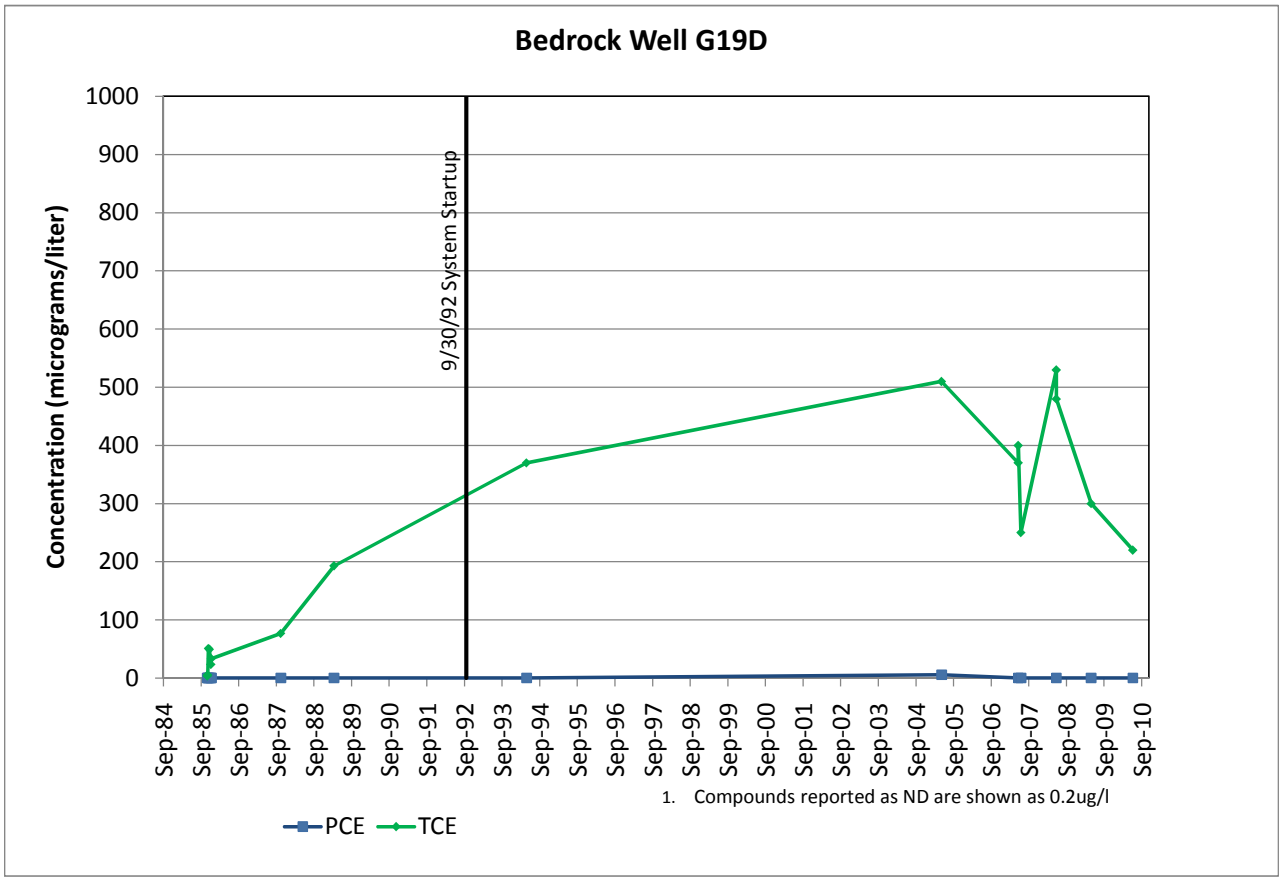

Bedrock Well G18D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

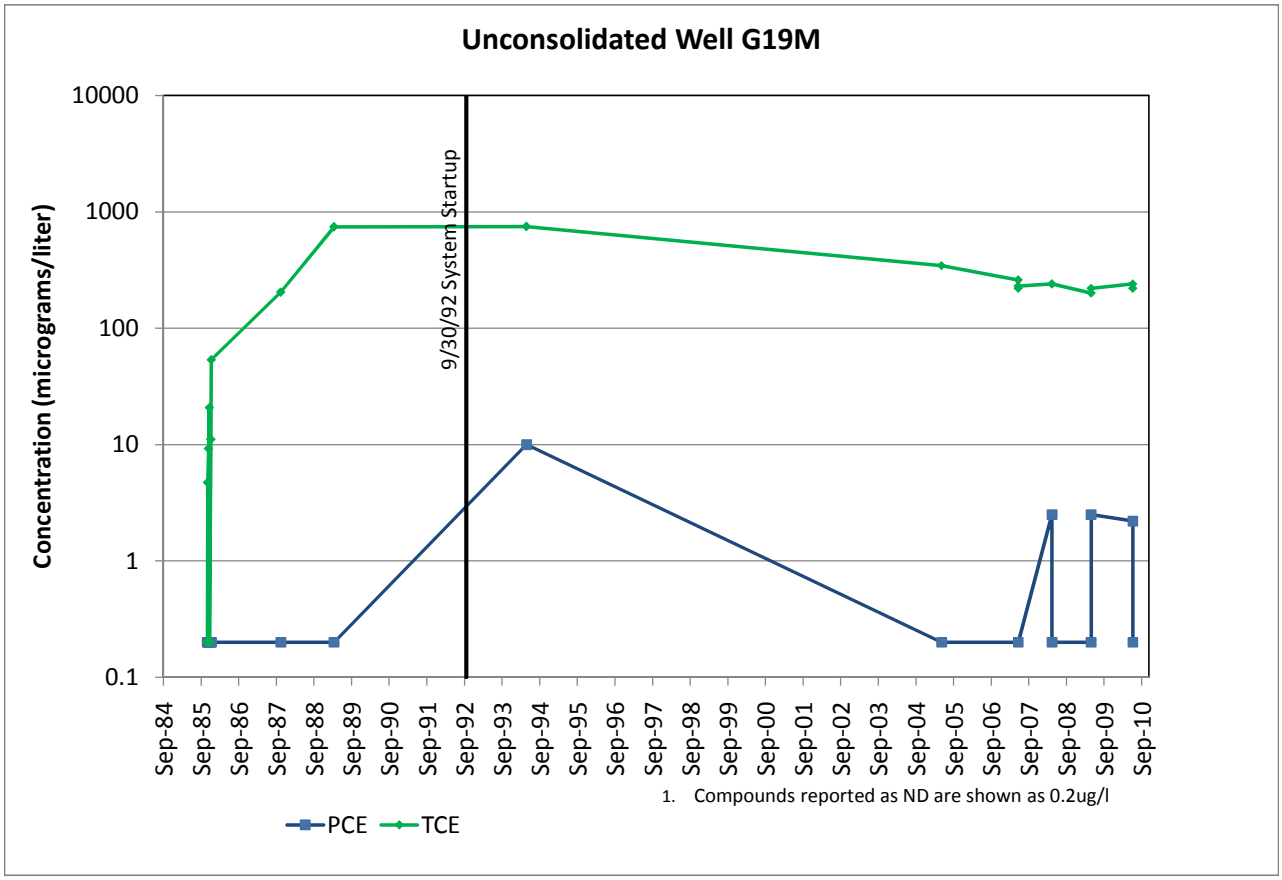

Bedrock Well G18D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

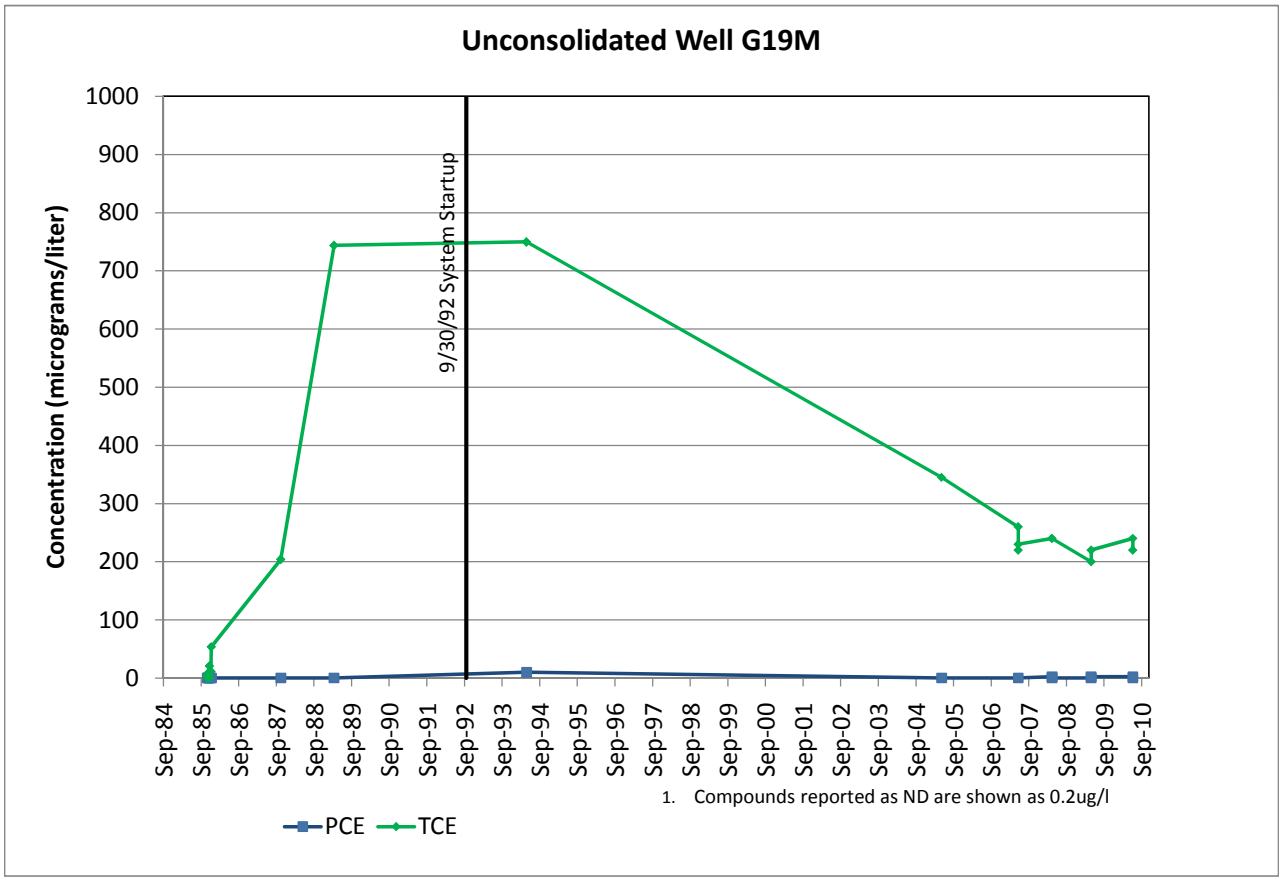

Unconsolidated Well G18S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

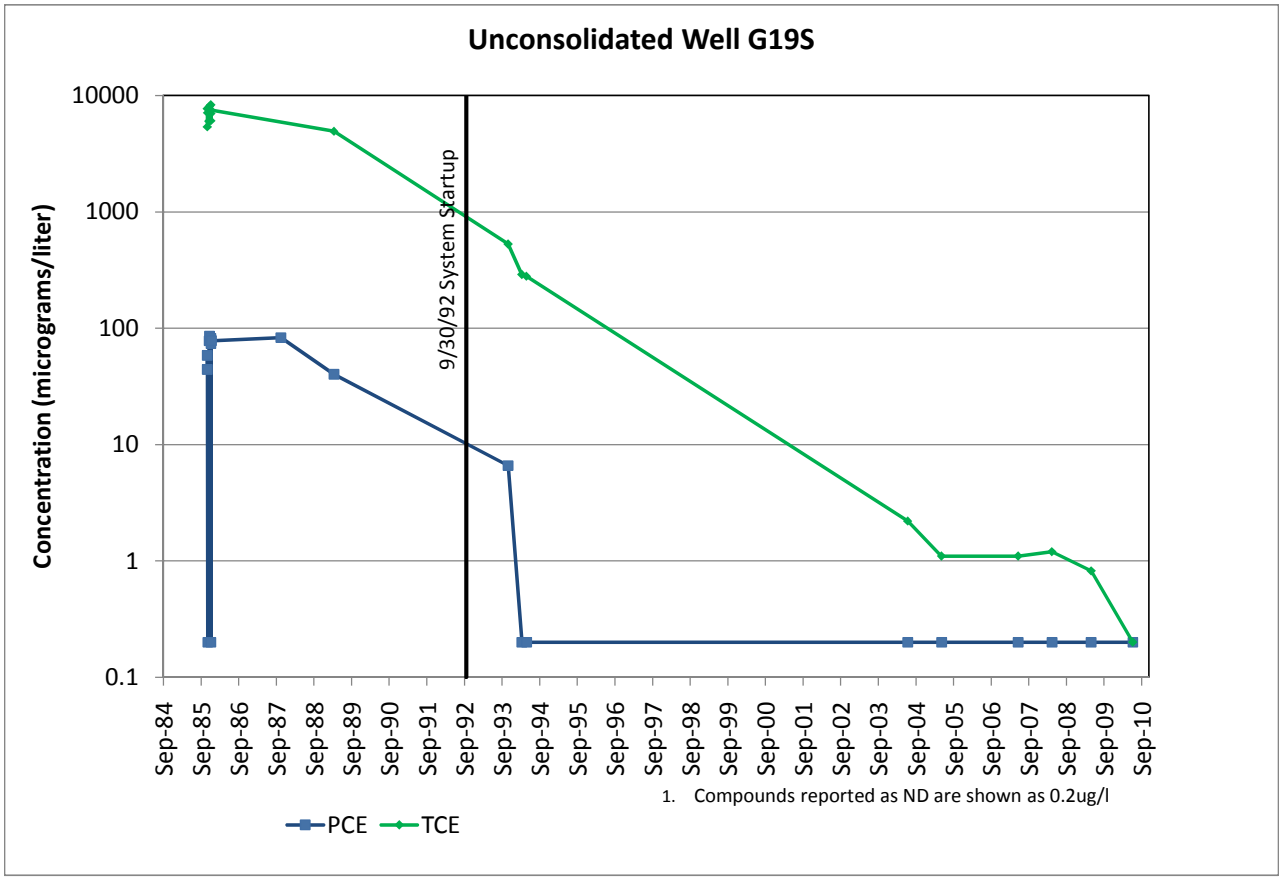

Unconsolidated Well G18S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

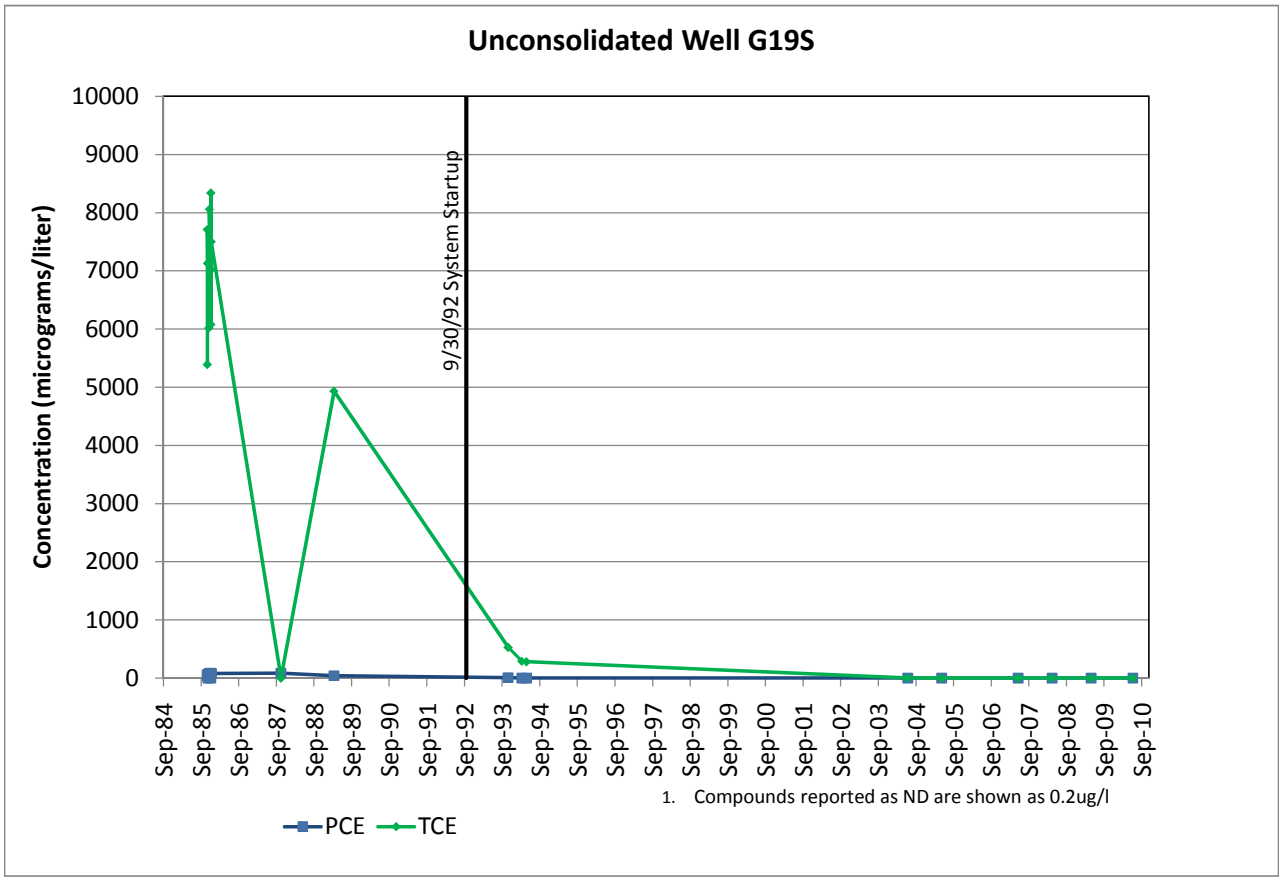

Bedrock Well G19D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

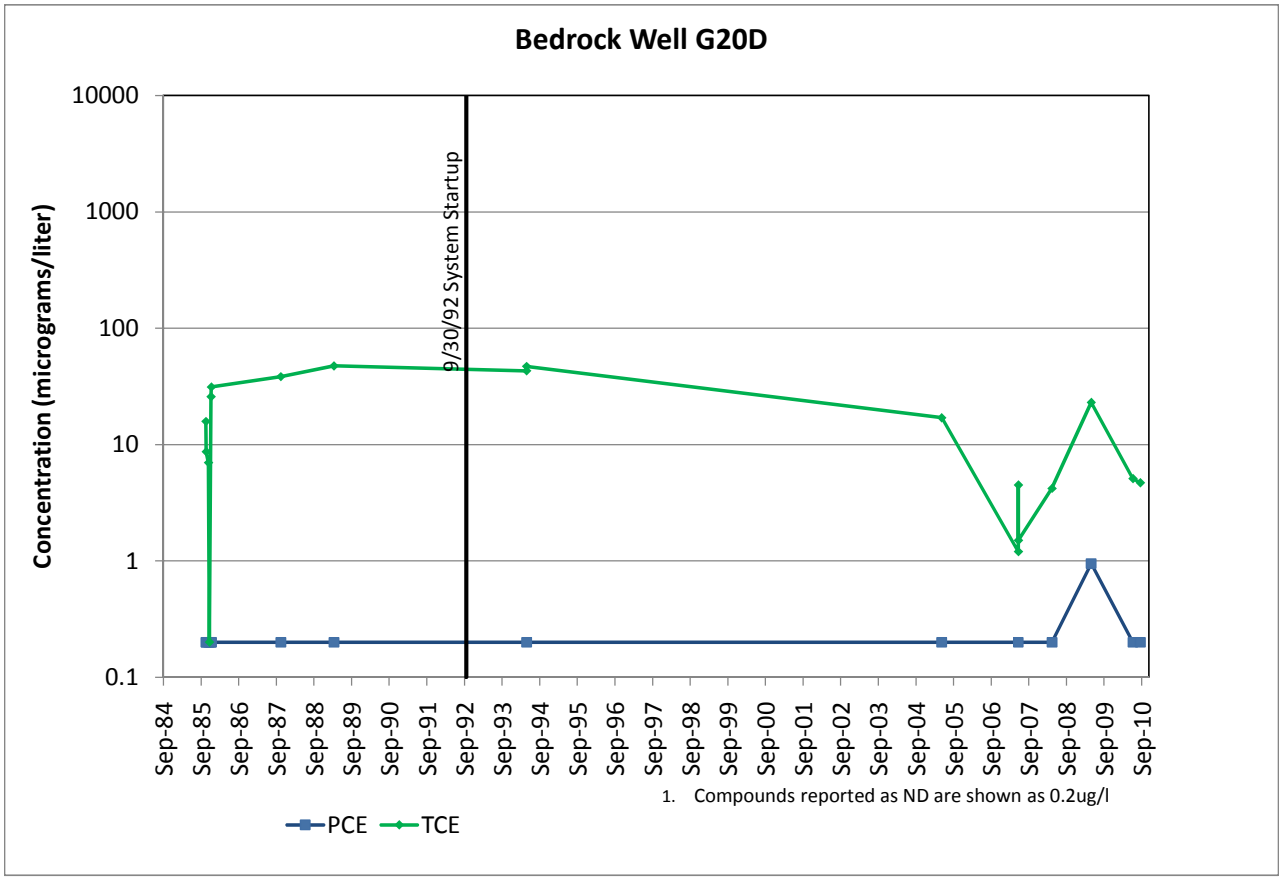

Bedrock Well G19D
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

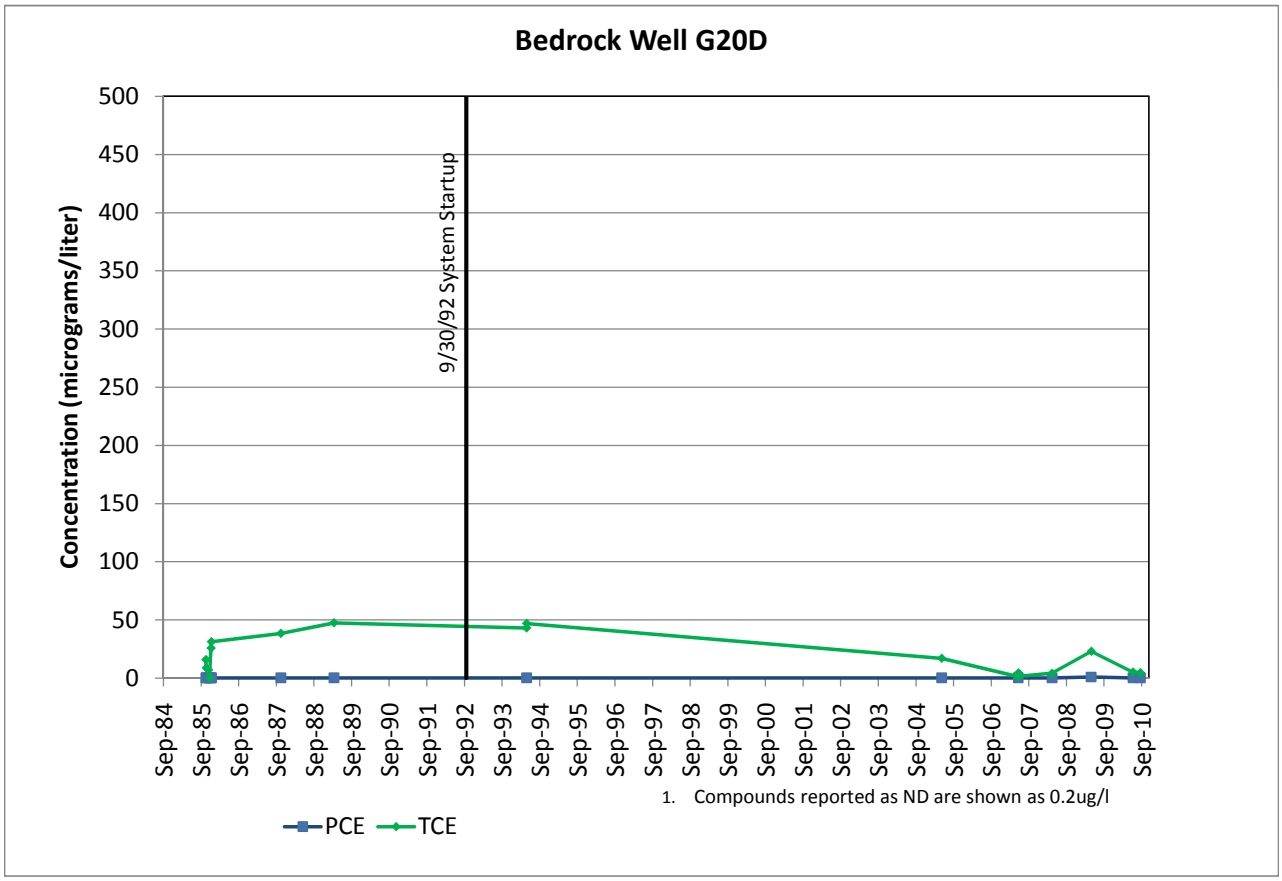

Unconsolidated Well G19M
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

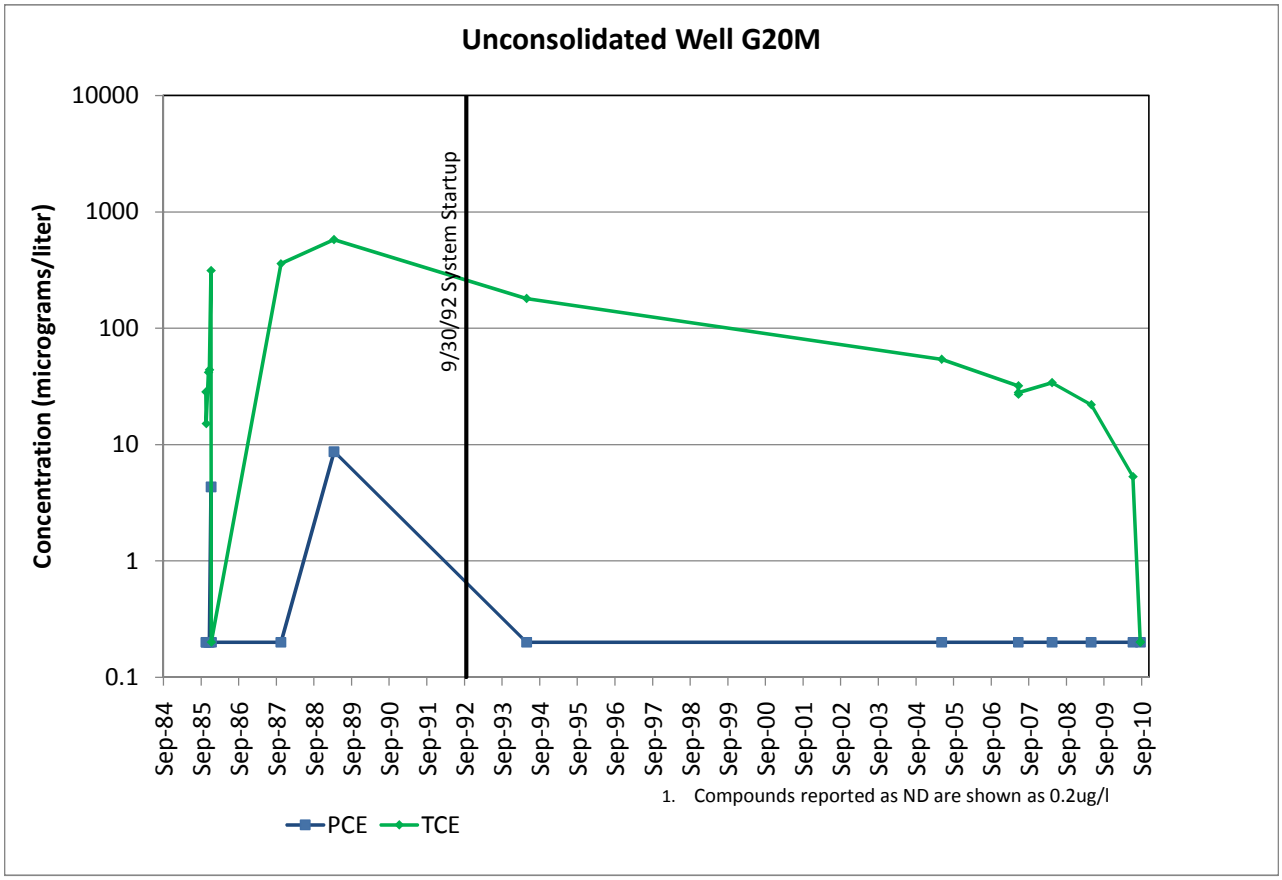

Unconsolidated Well G19M
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

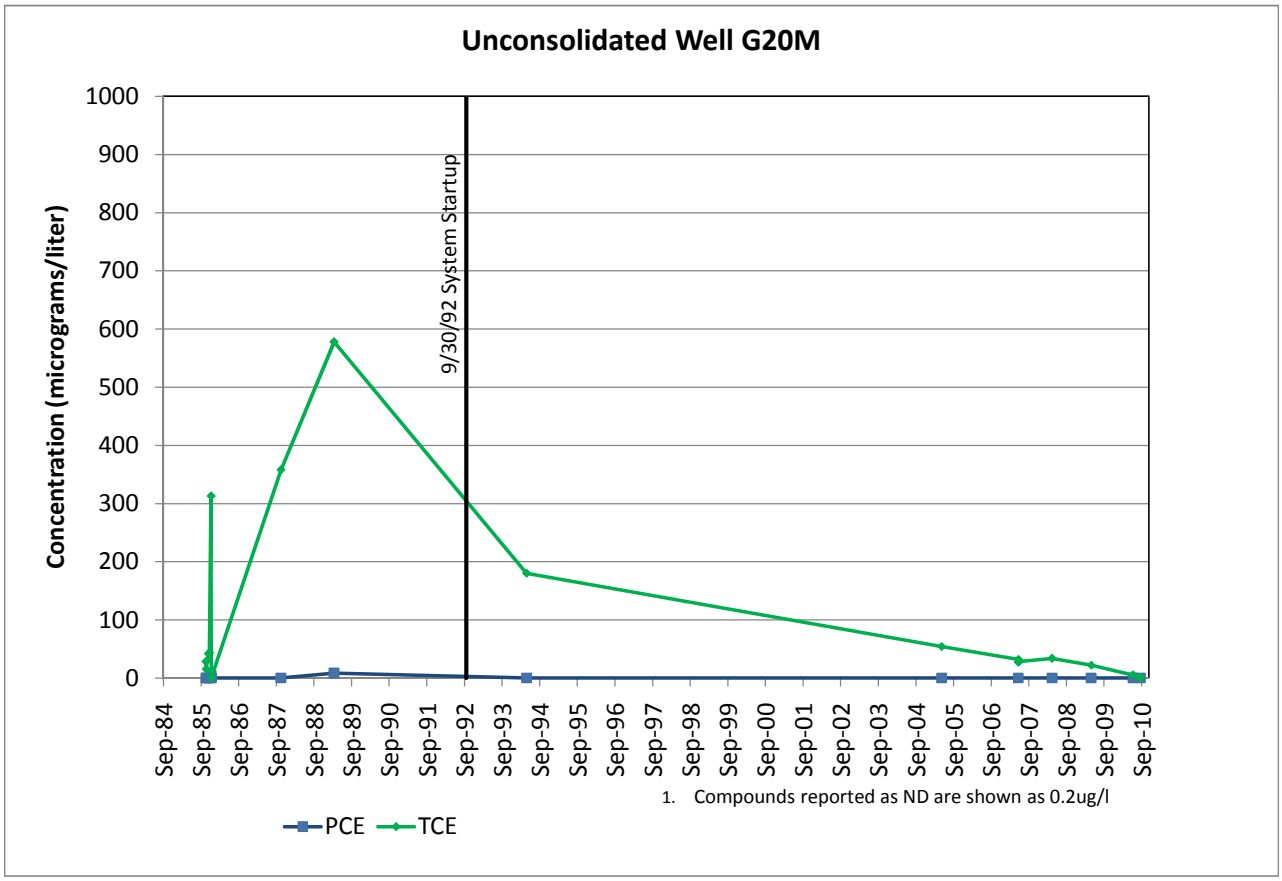

Unconsolidated Well G19S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

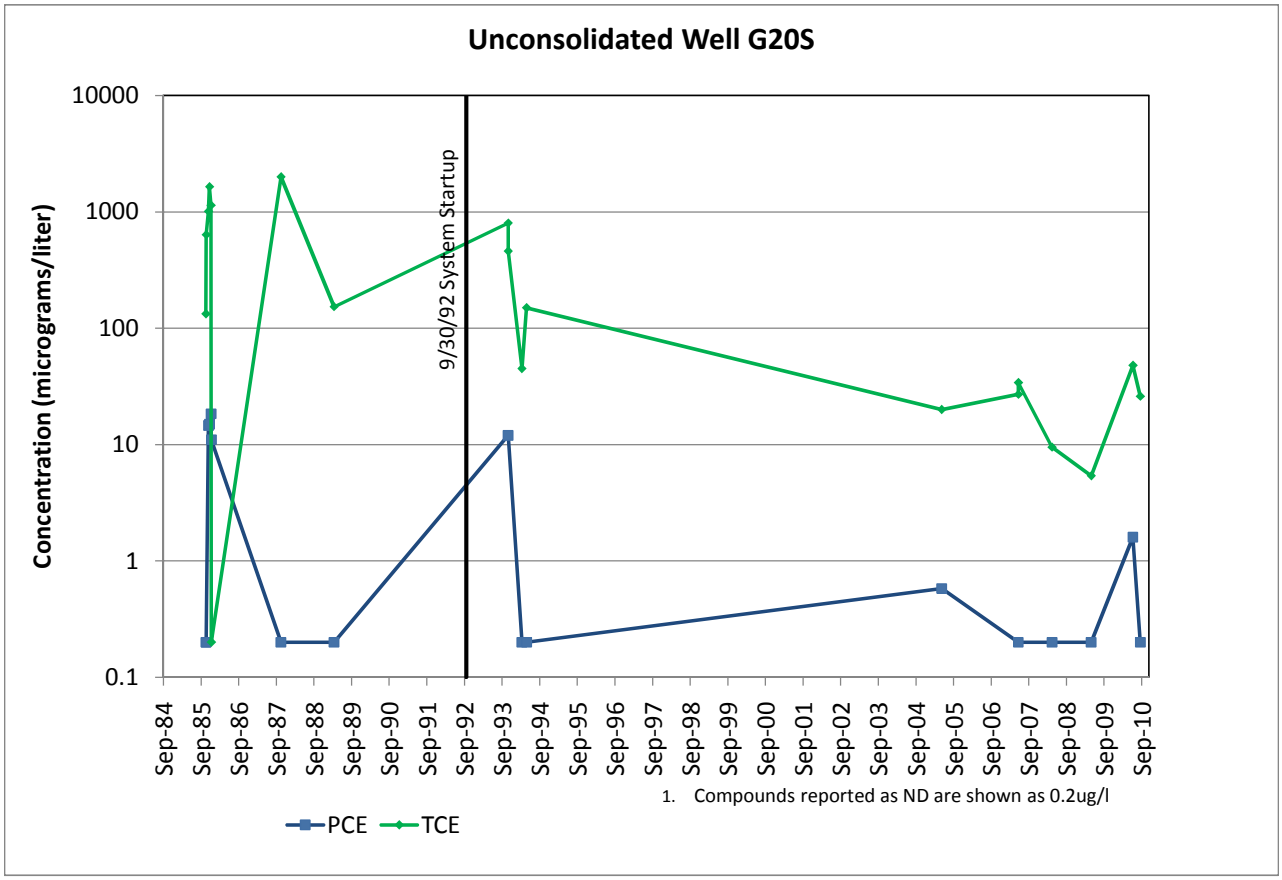

Unconsolidated Well G19S
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

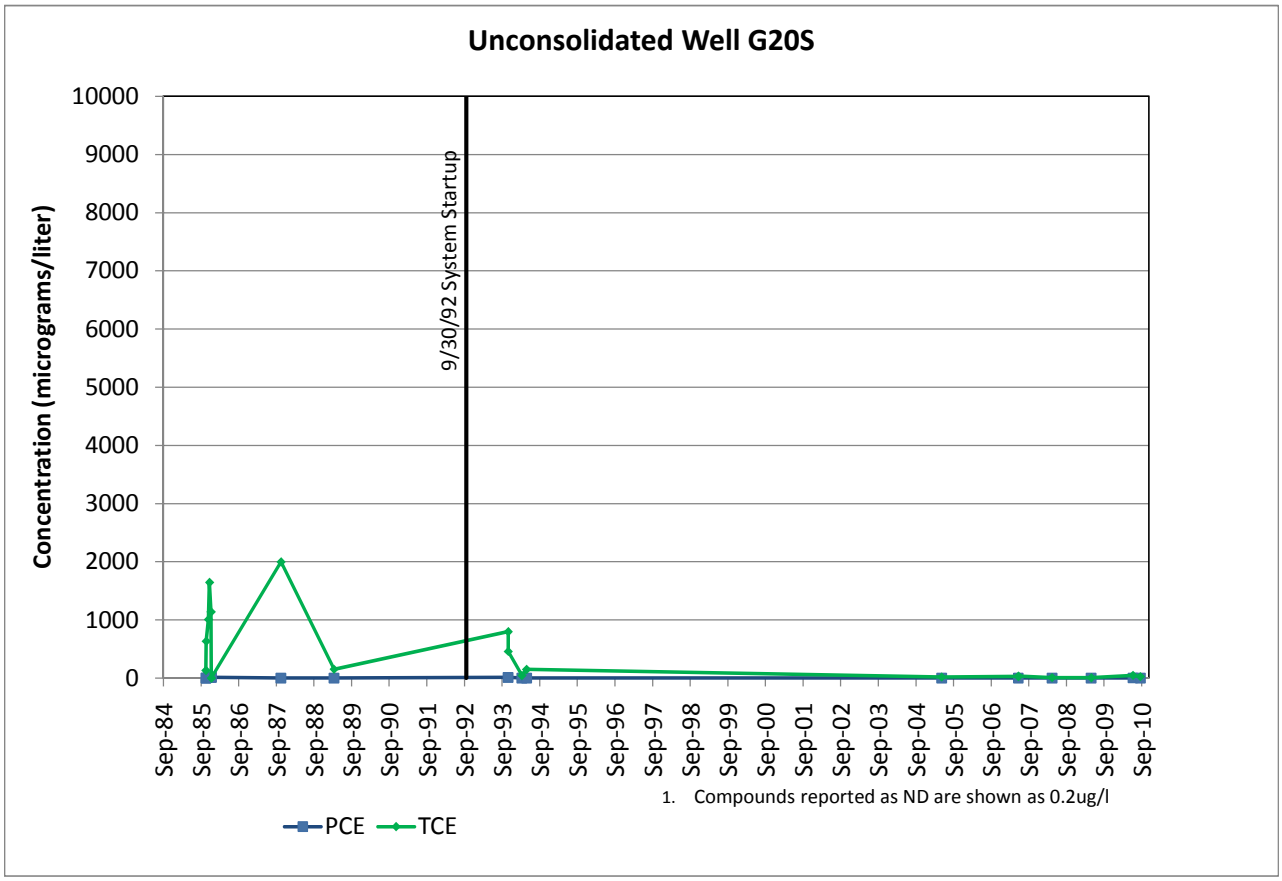

Bedrock Well G20D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

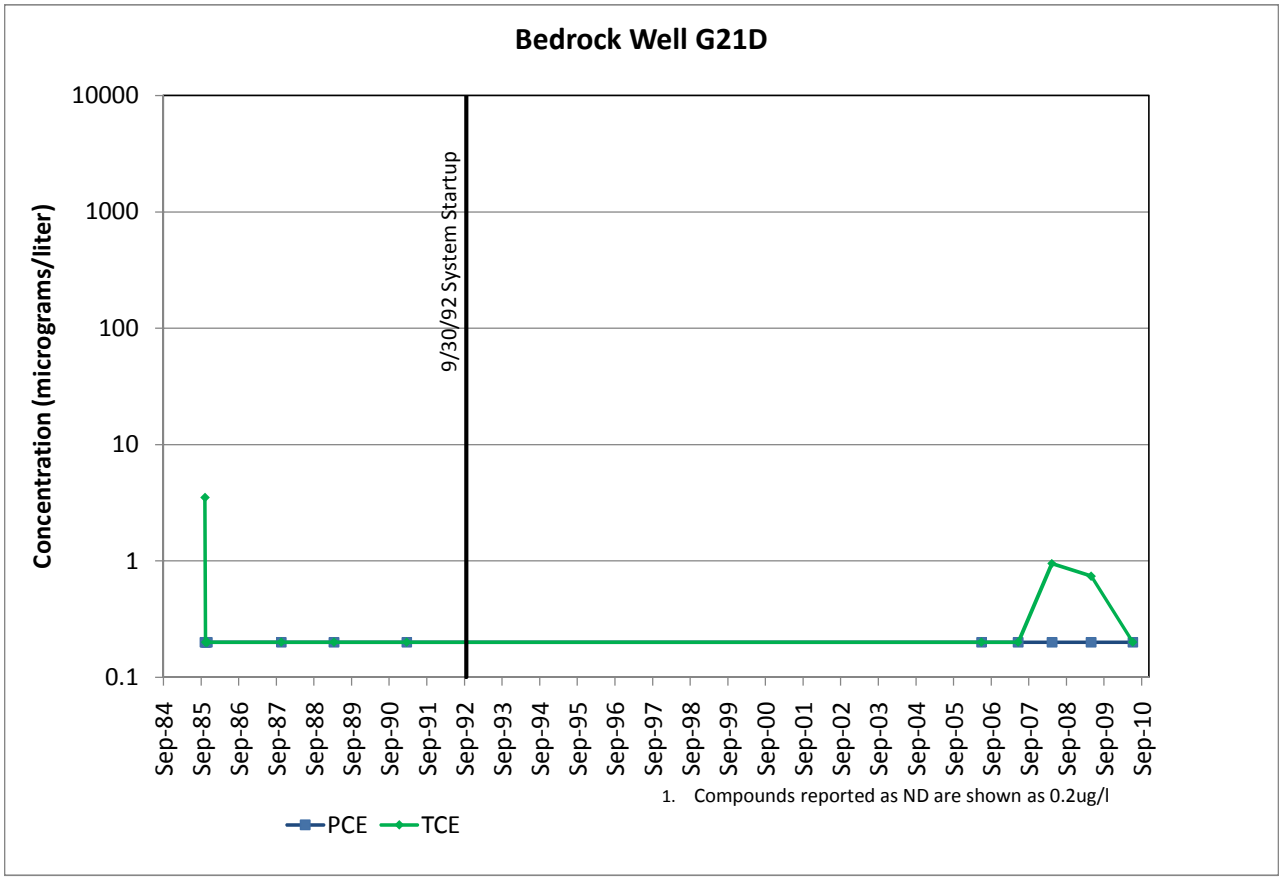

Bedrock Well G20D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

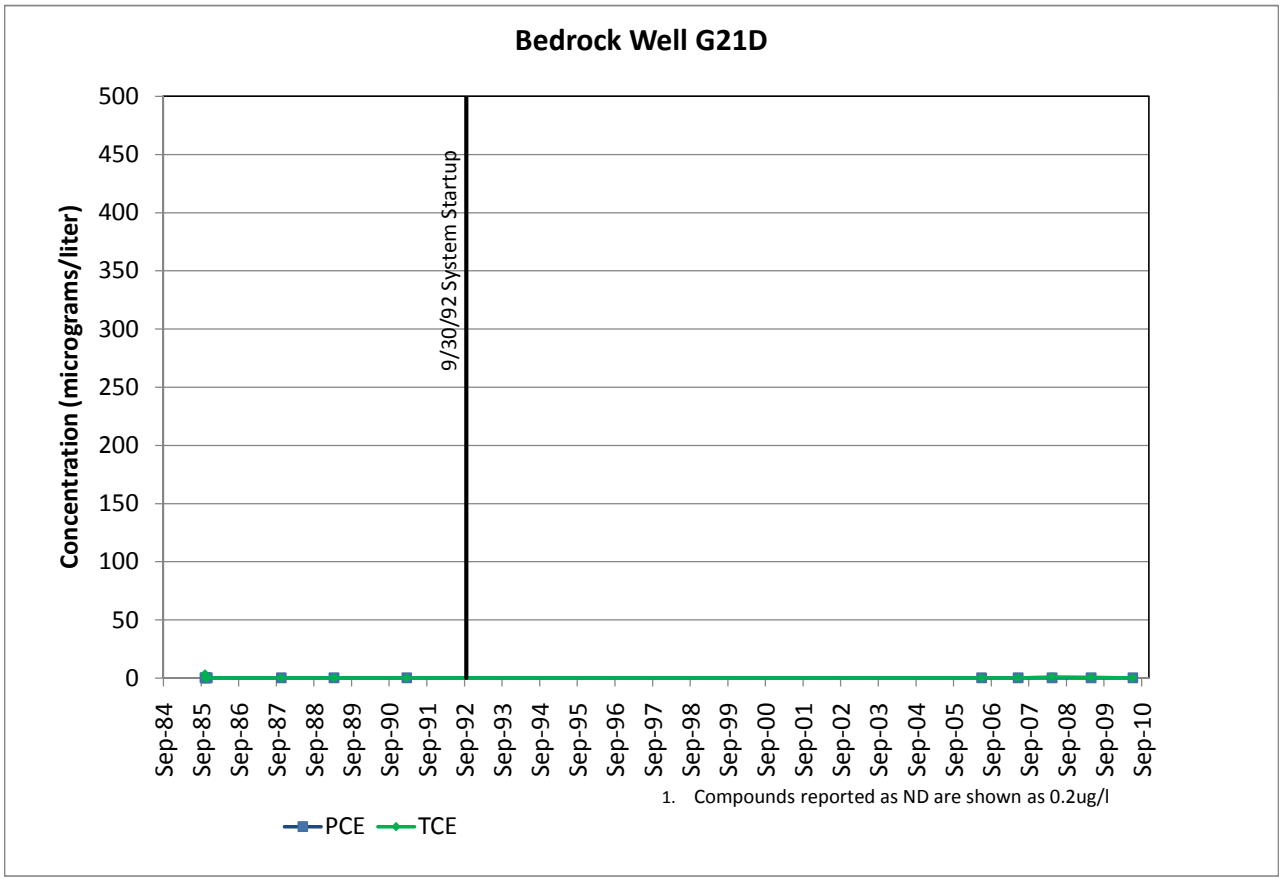

Unconsolidated Well G20M
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

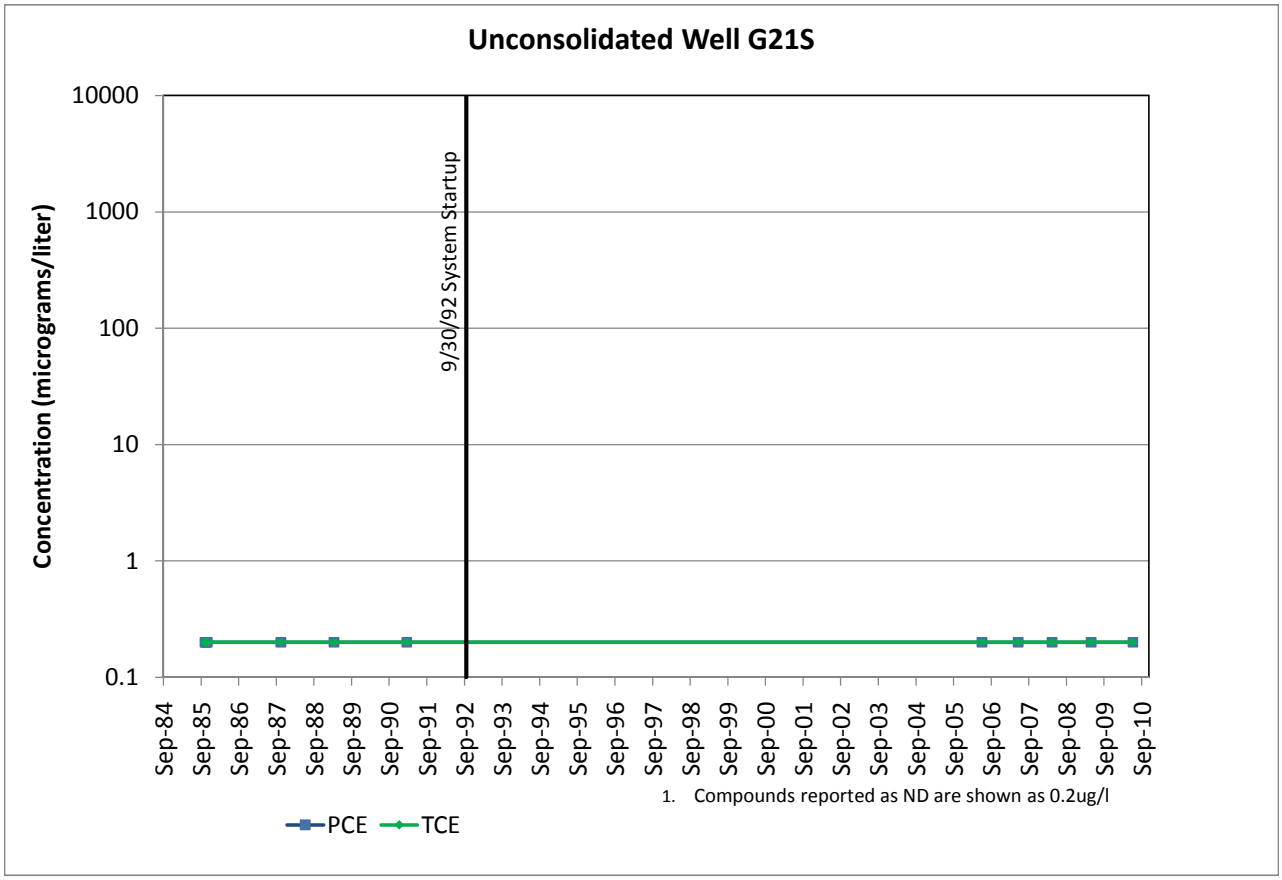

Unconsolidated Well G20M
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

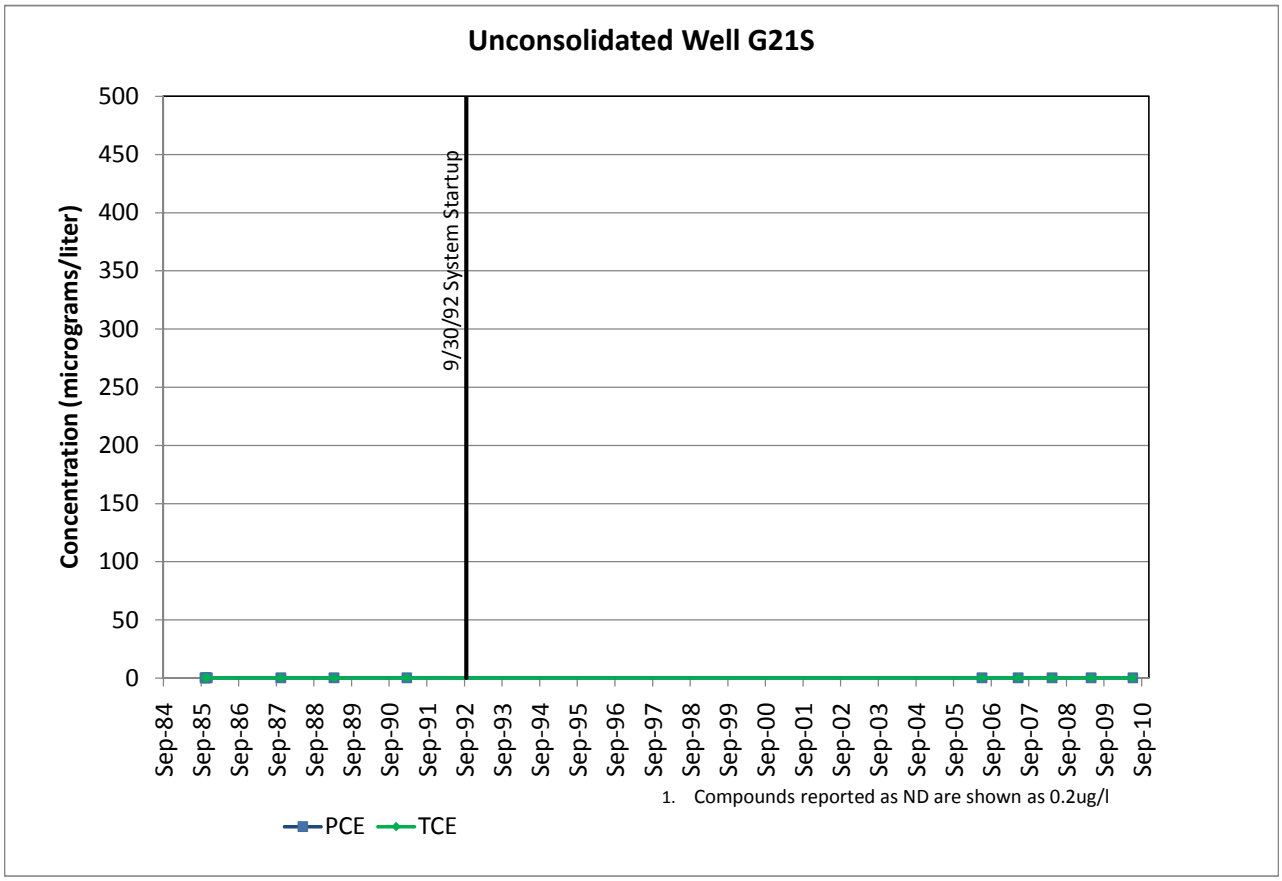

Unconsolidated Well G20S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

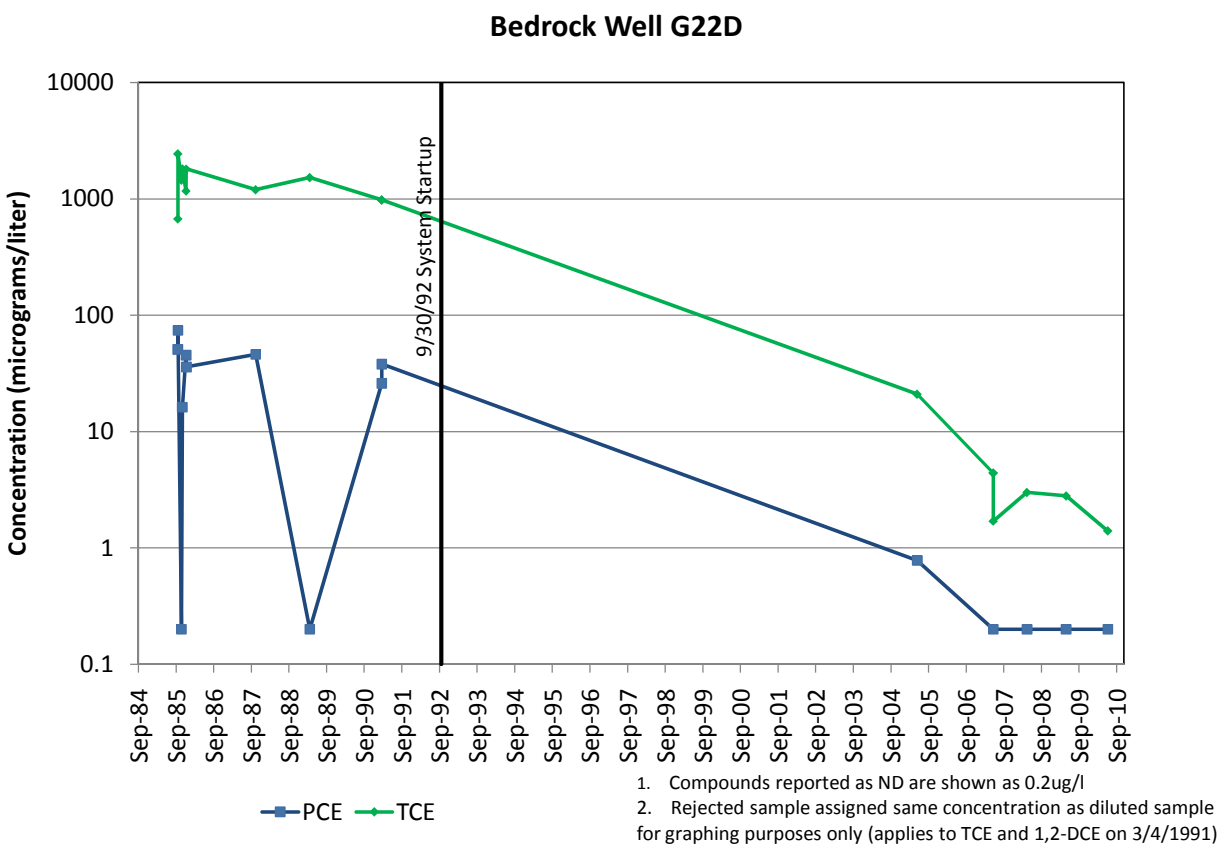

Unconsolidated Well G20S
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE


Bedrock Well G21D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

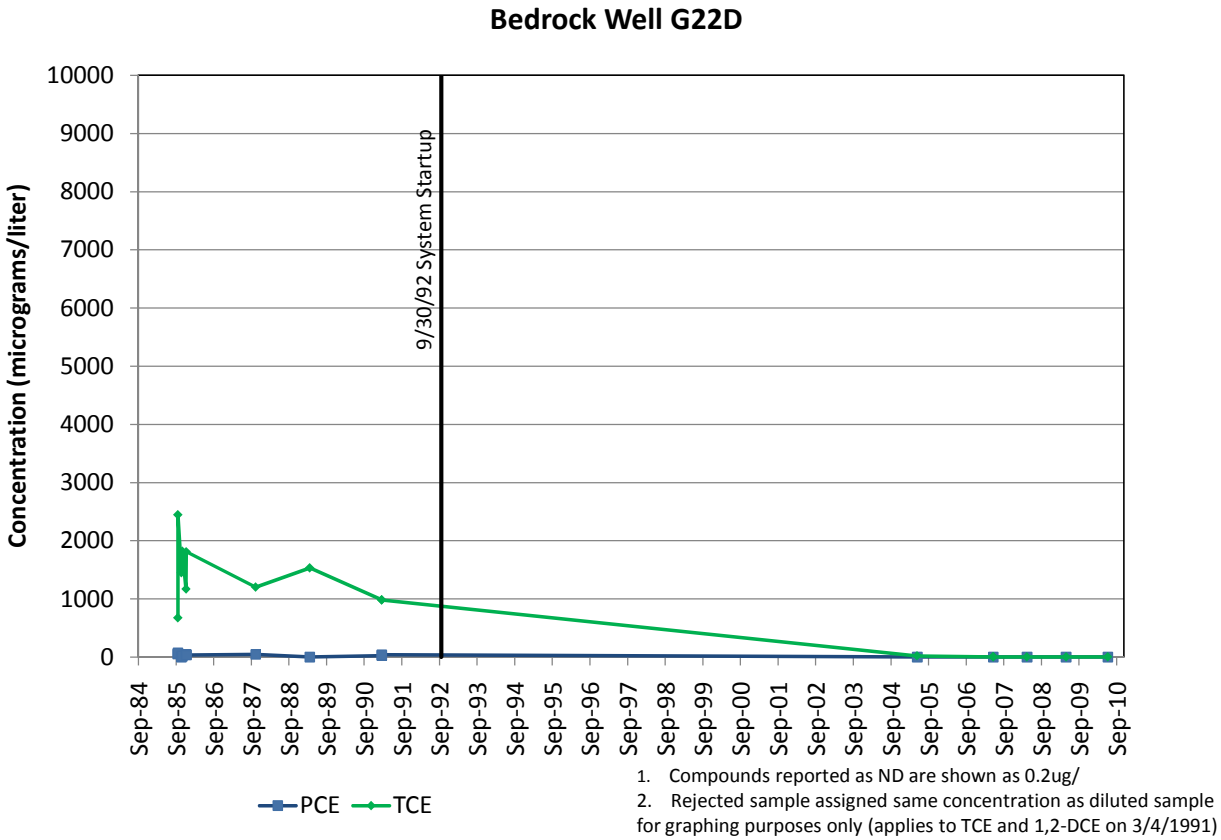

Bedrock Well G21D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE


Unconsolidated Well G21S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

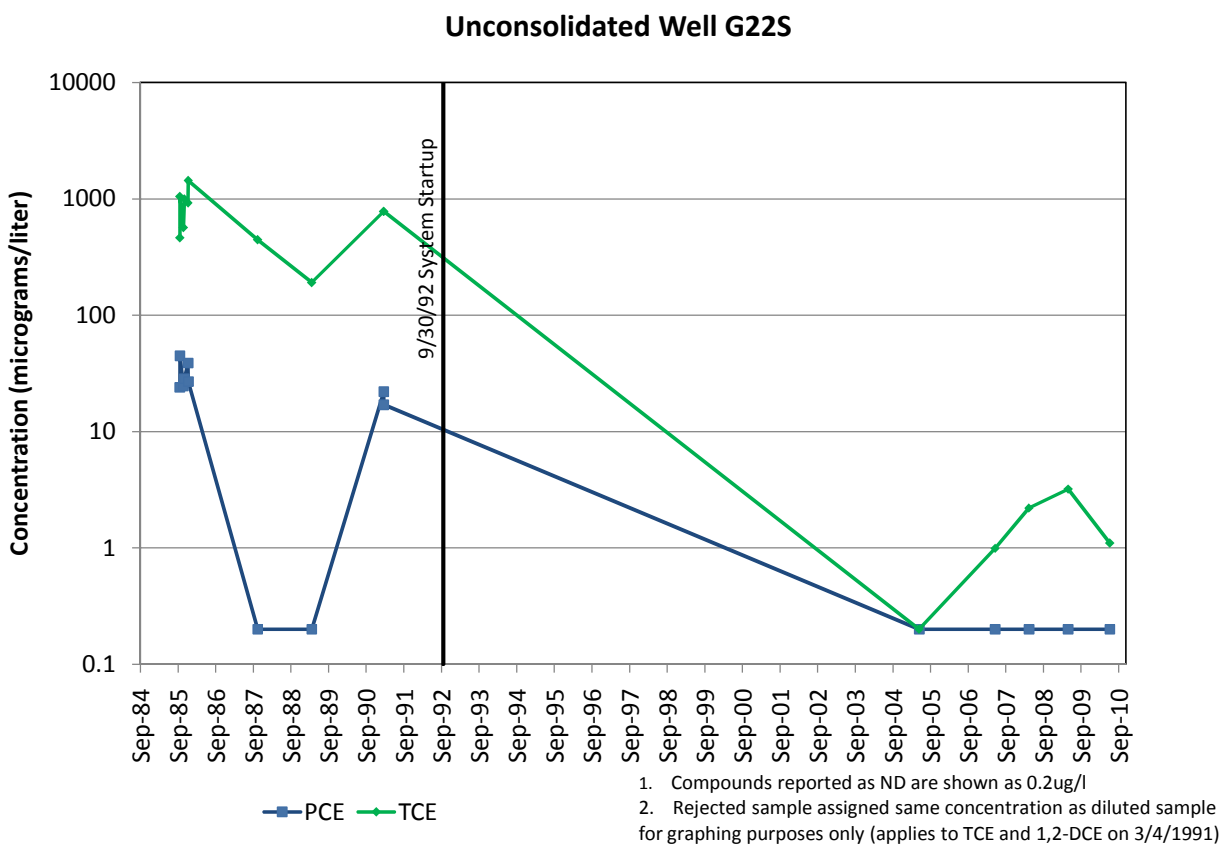

Unconsolidated Well G21S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE



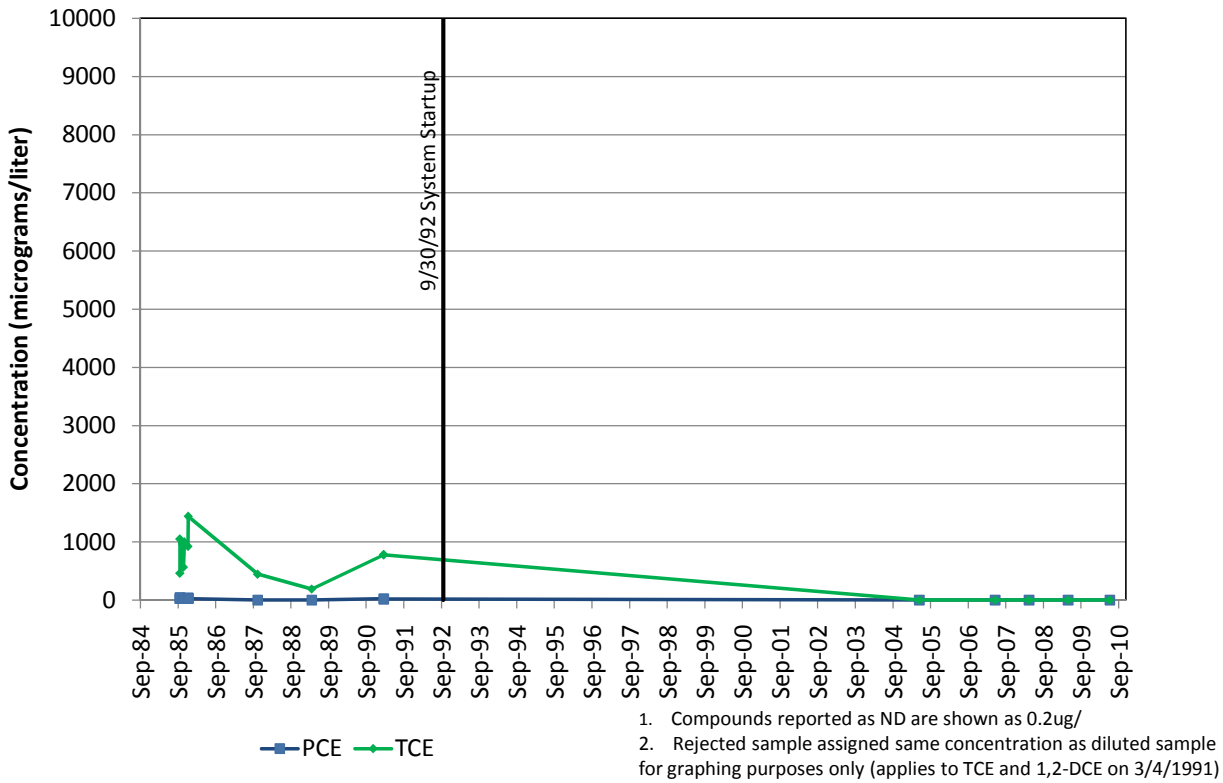
1. Compounds reported as ND are shown as 0.2ug/l
2. Rejected sample assigned same concentration as diluted sample for graphing purposes only (applies to TCE and 1,2-DCE on 3/4/1991)



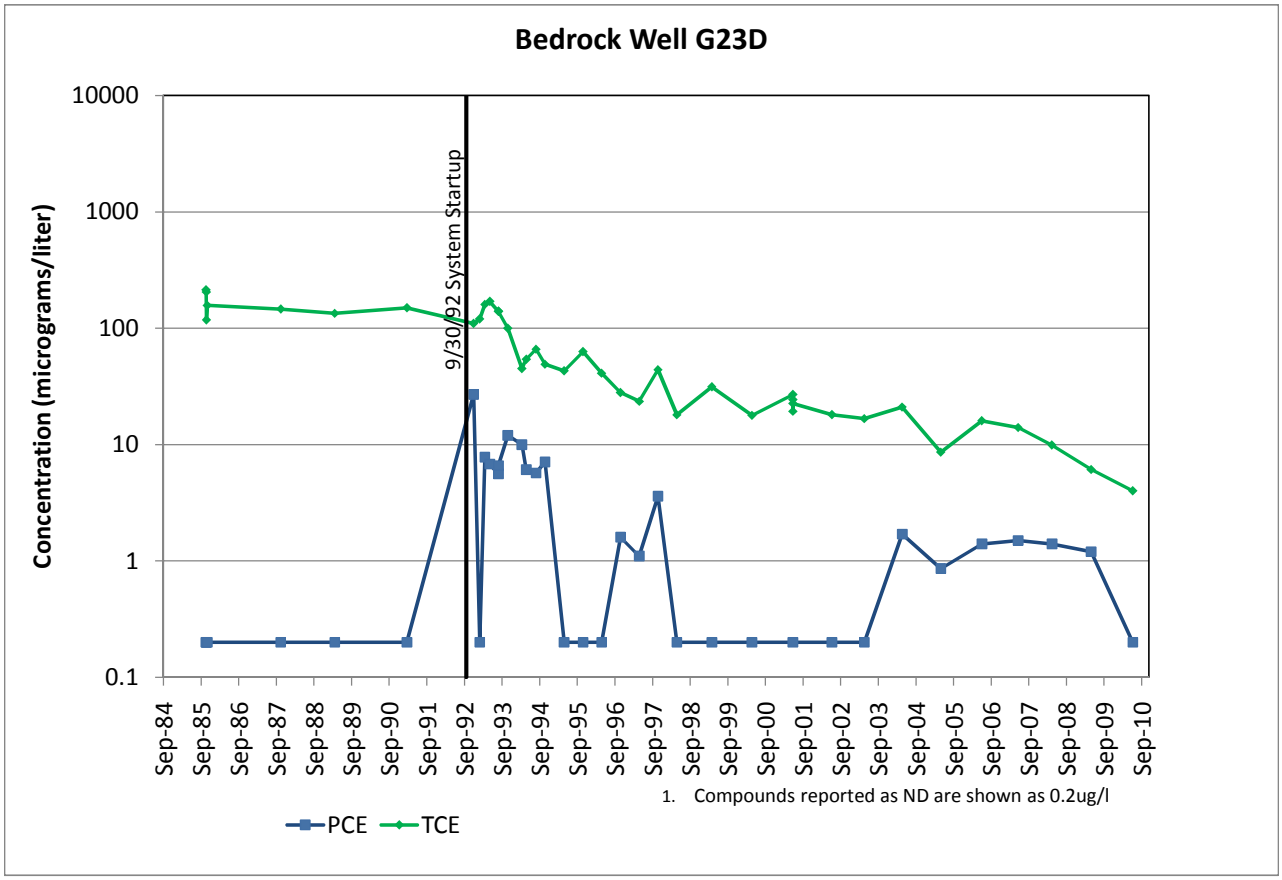
1. Compounds reported as ND are shown as 0.2ug/
2. Rejected sample assigned same concentration as diluted sample for graphing purposes only (applies to TCE and 1,2-DCE on 3/4/1991)

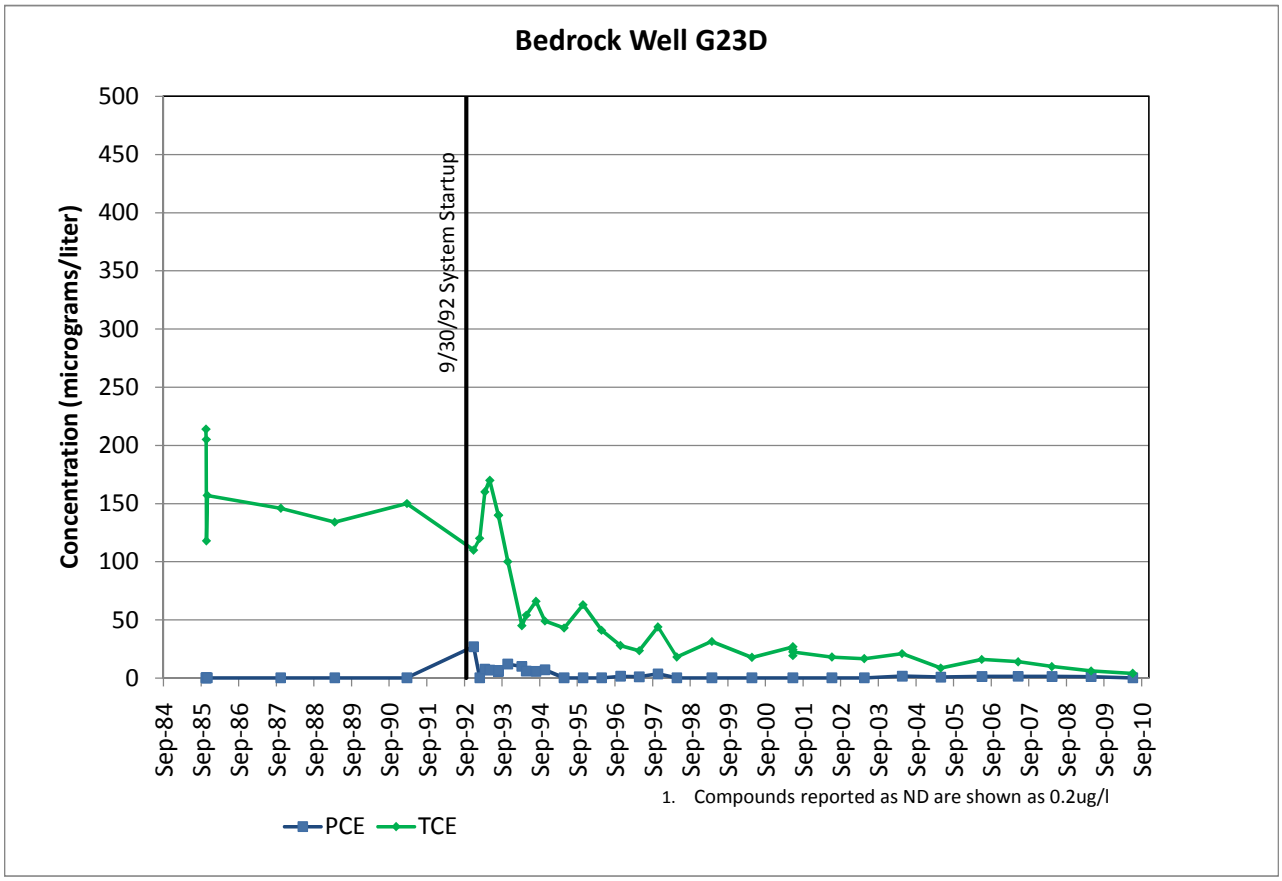


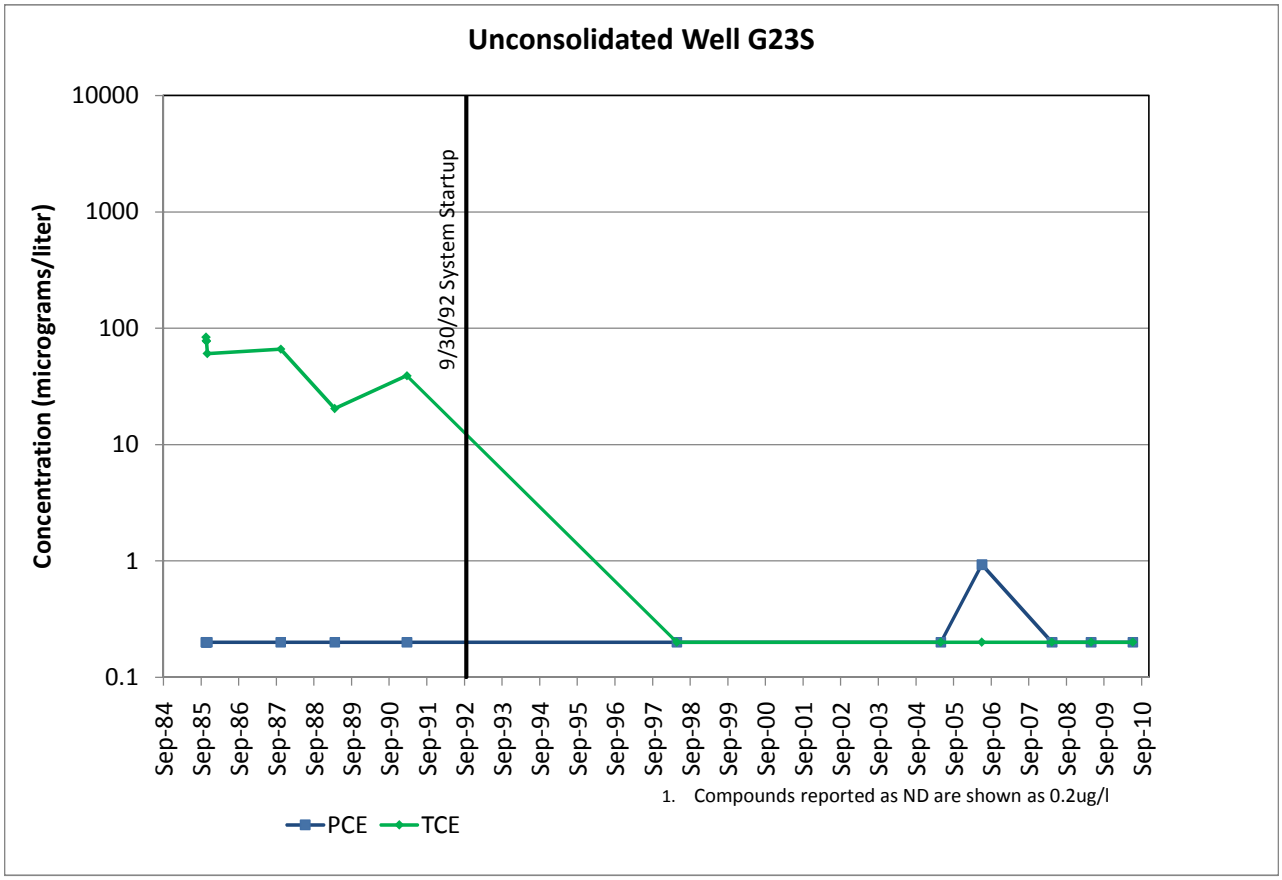
1. Compounds reported as ND are shown as 0.2ug/l
2. Rejected sample assigned same concentration as diluted sample for graphing purposes only (applies to TCE and 1,2-DCE on 3/4/1991)

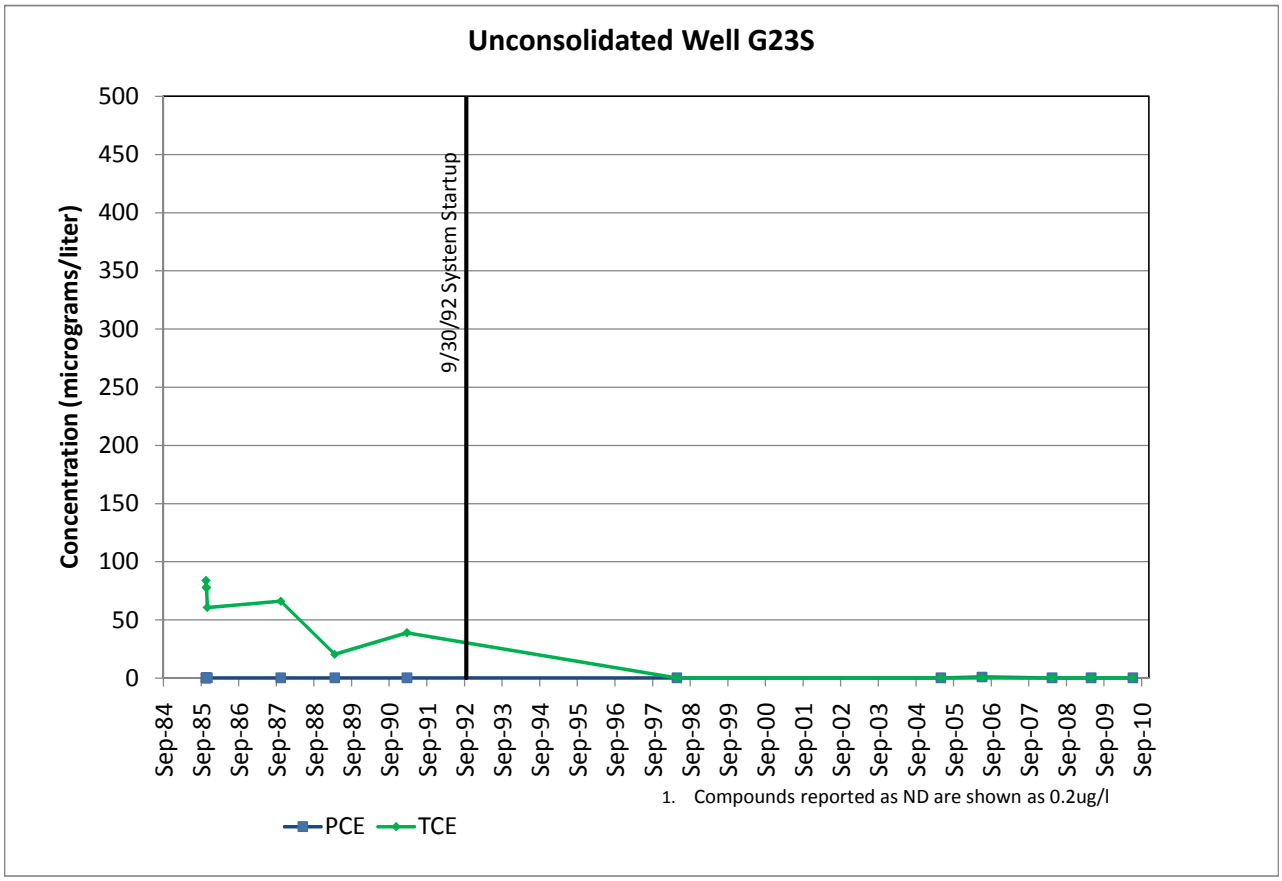


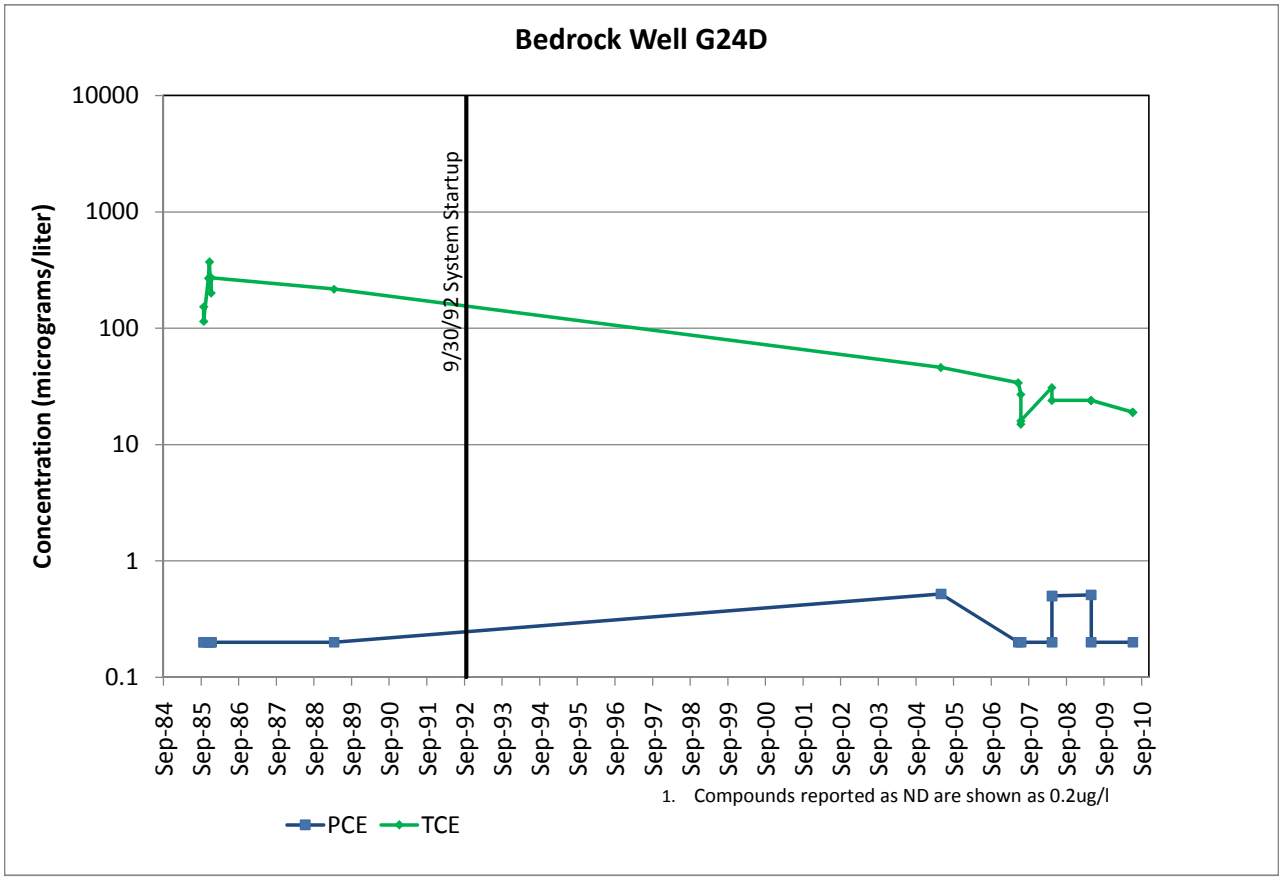
1. Compounds reported as ND are shown as 0.2ug/
2. Rejected sample assigned same concentration as diluted sample for graphing purposes only (applies to TCE and 1,2-DCE on 3/4/1991)

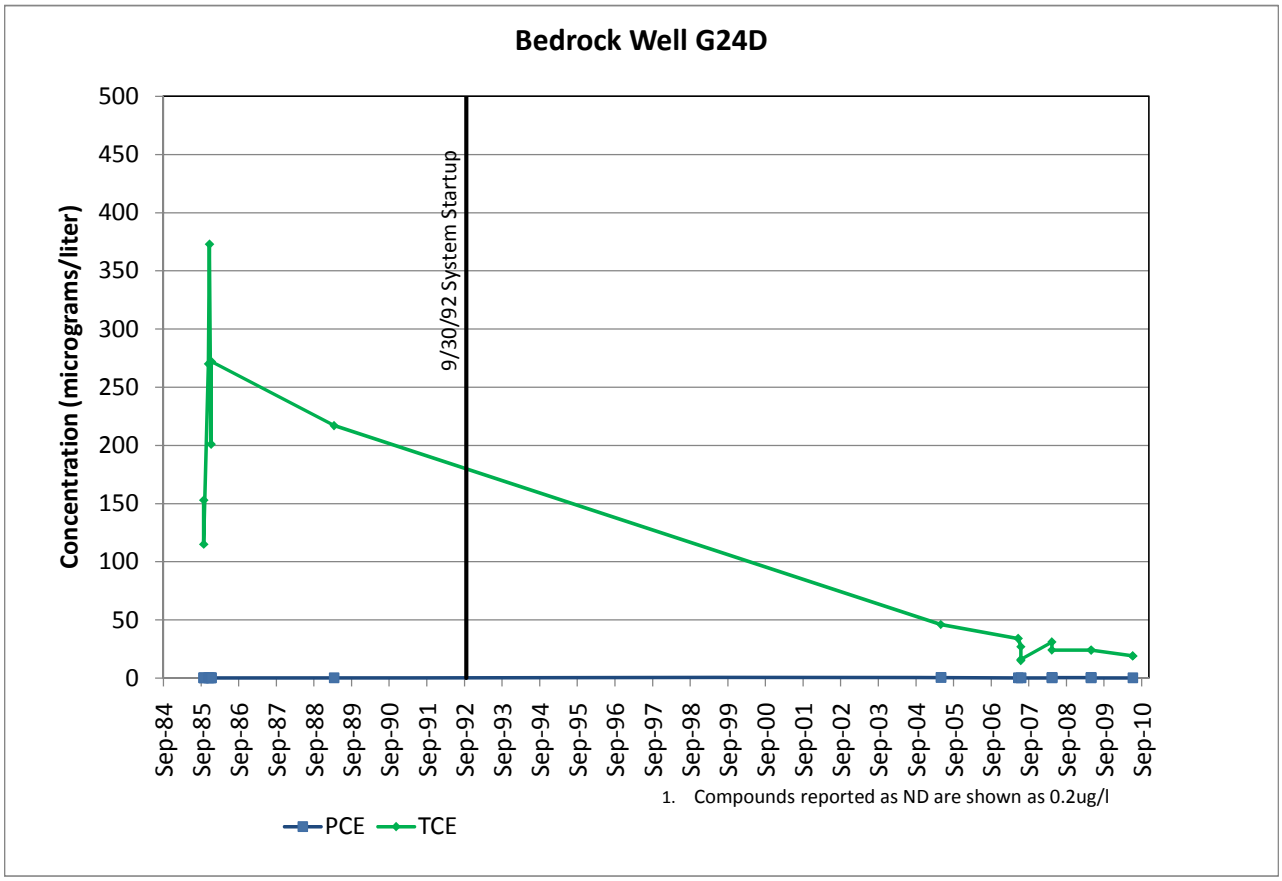

Bedrock Well G23D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

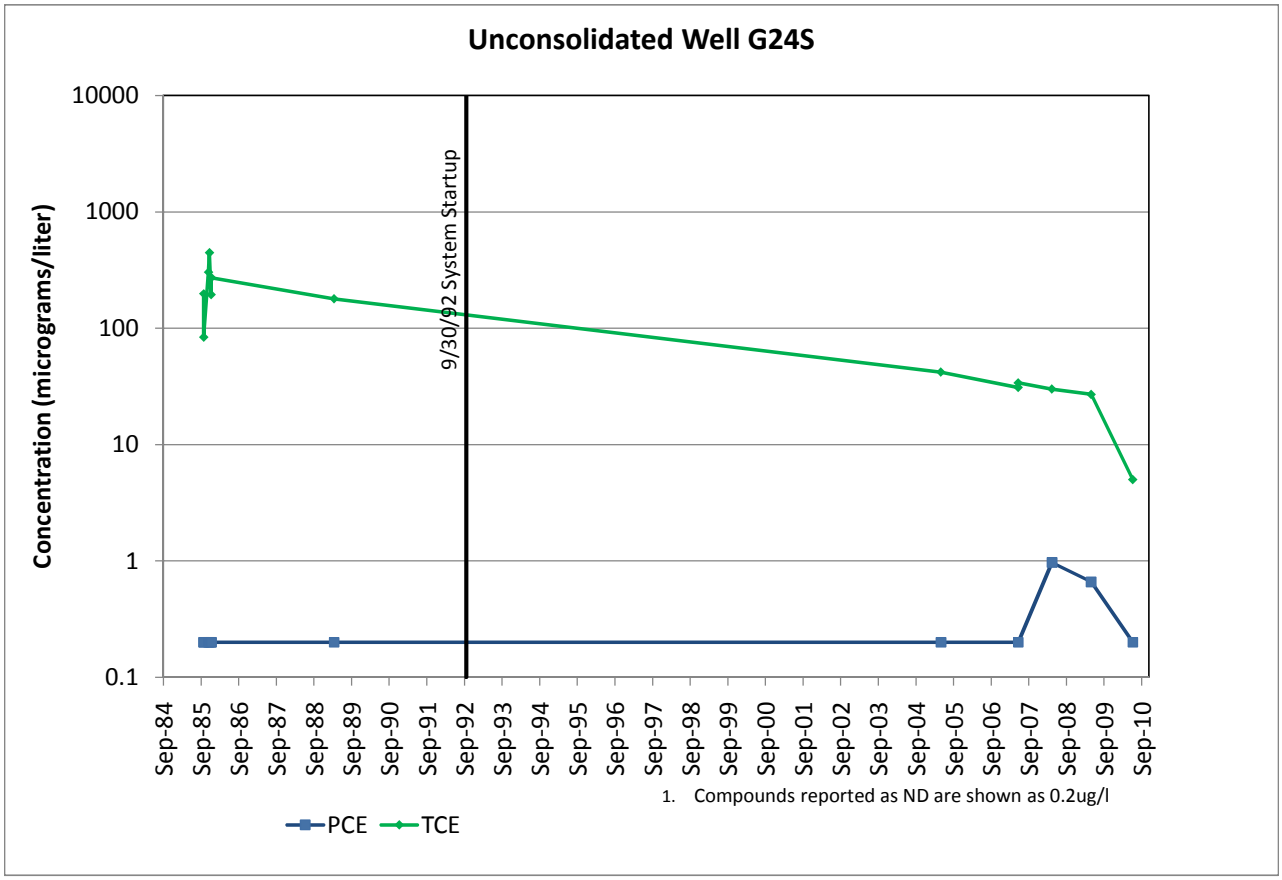

Bedrock Well G23D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

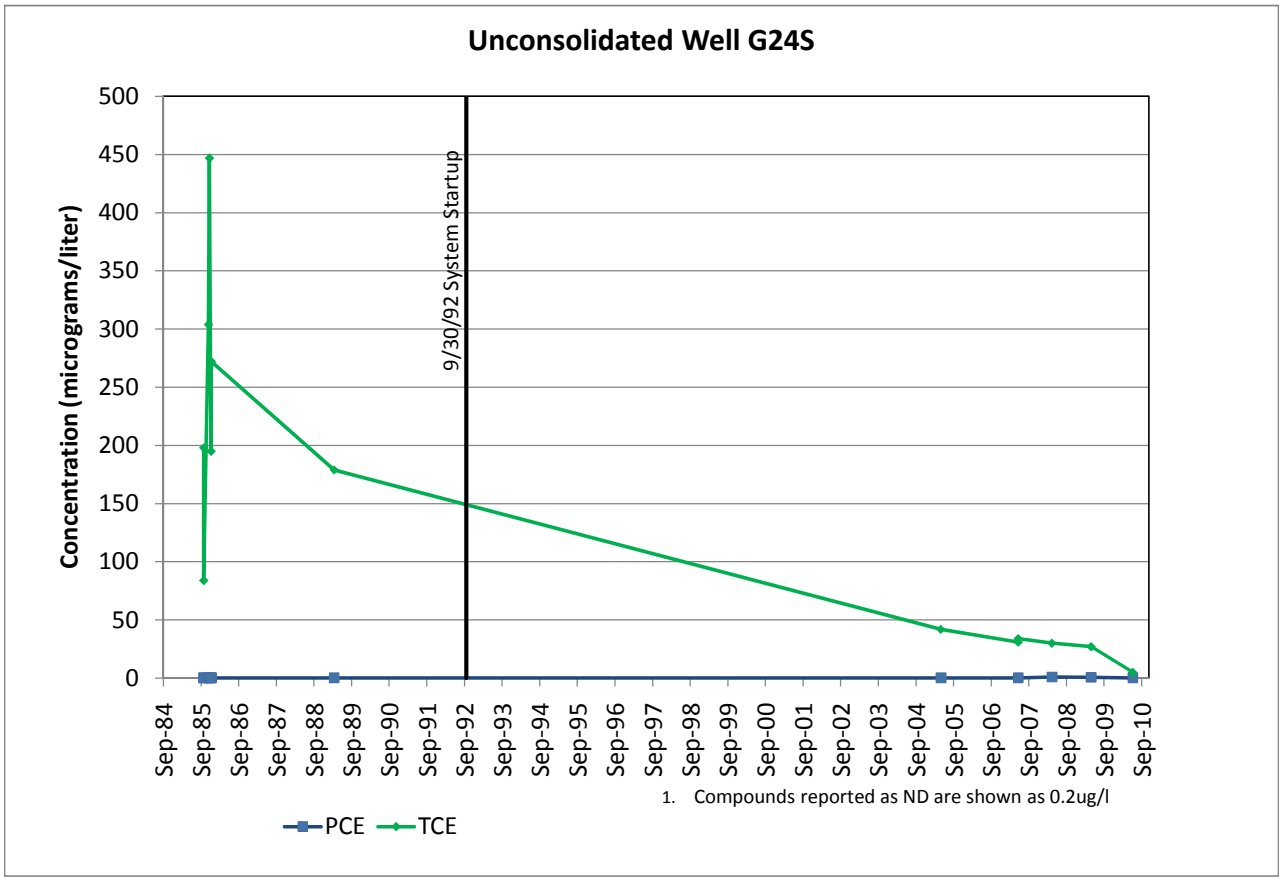

Unconsolidated Well G23S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

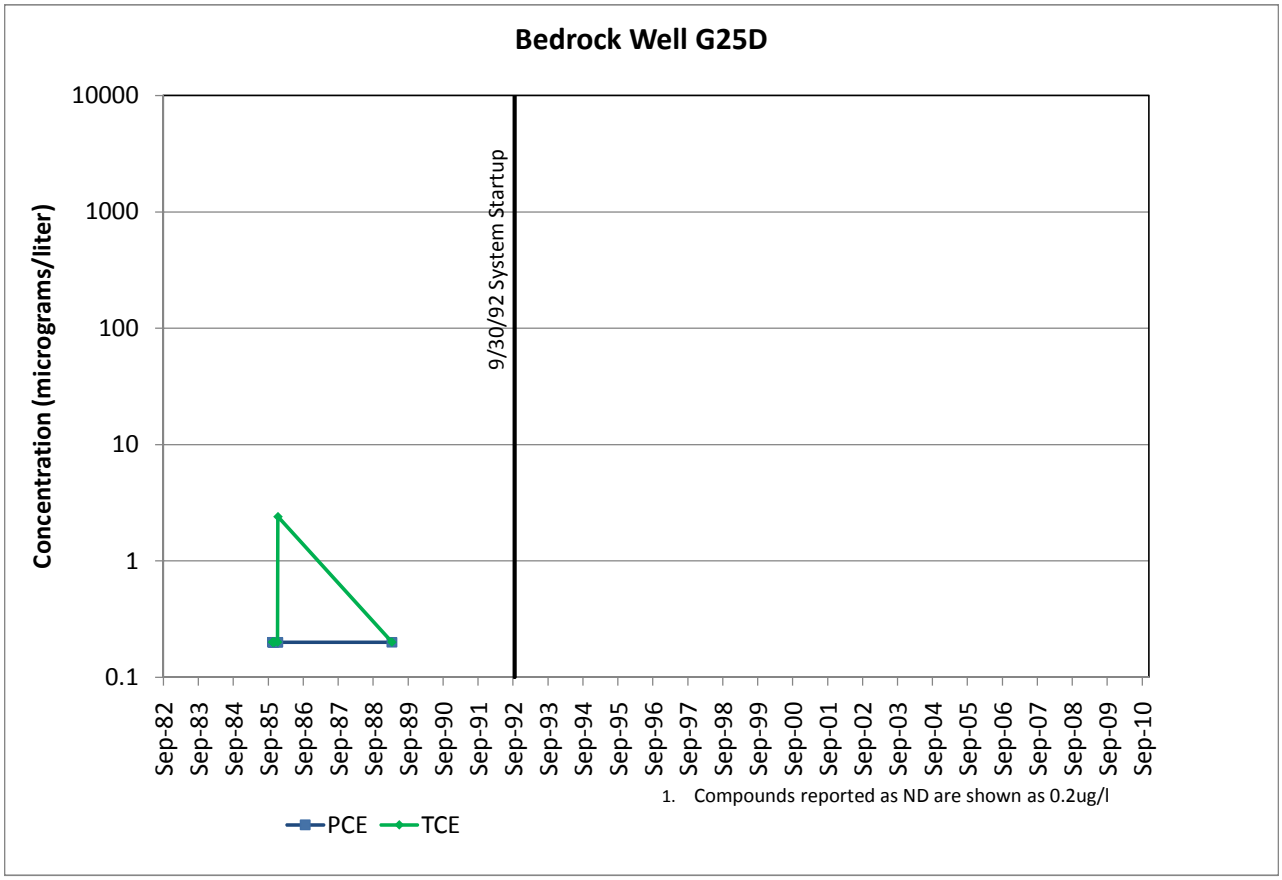

Unconsolidated Well G23S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

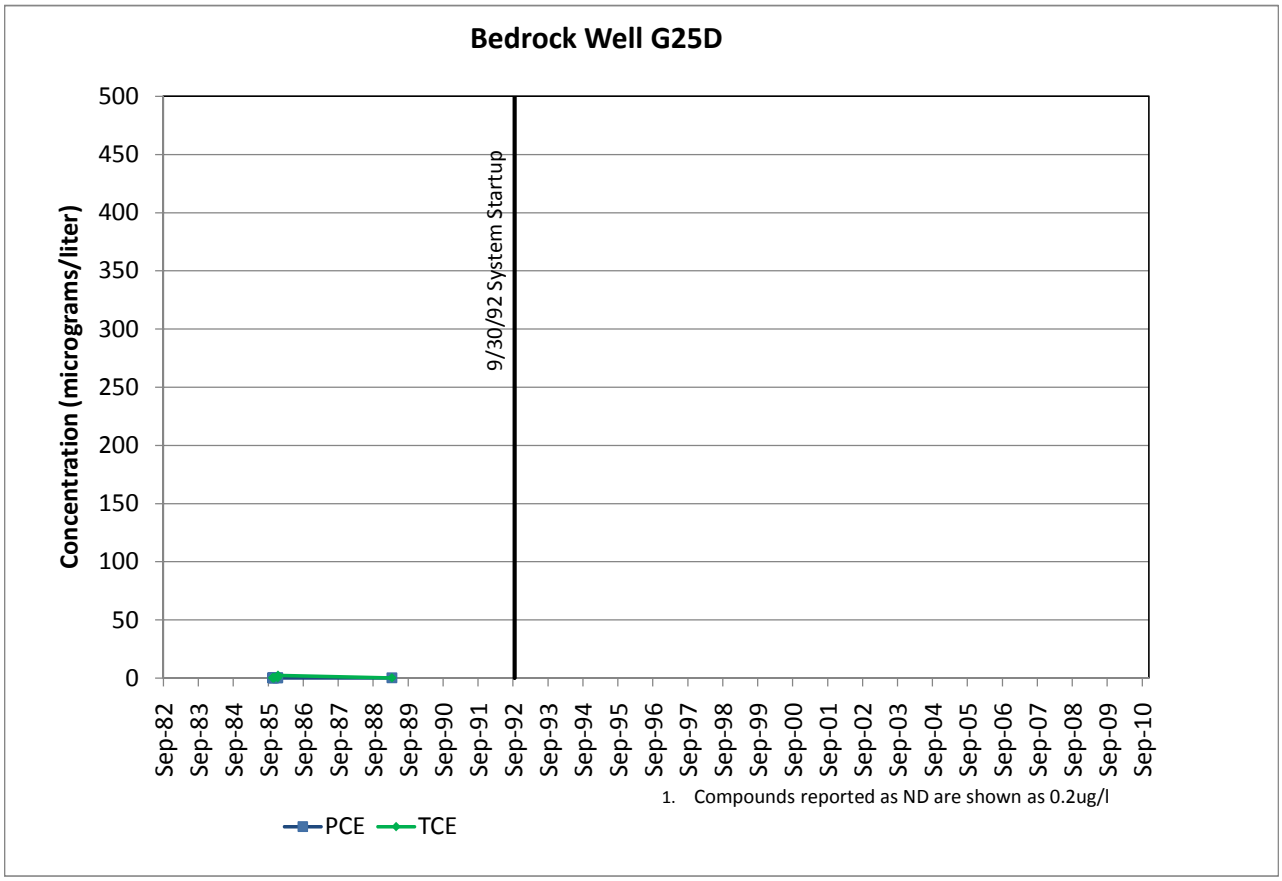

Bedrock Well G24D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

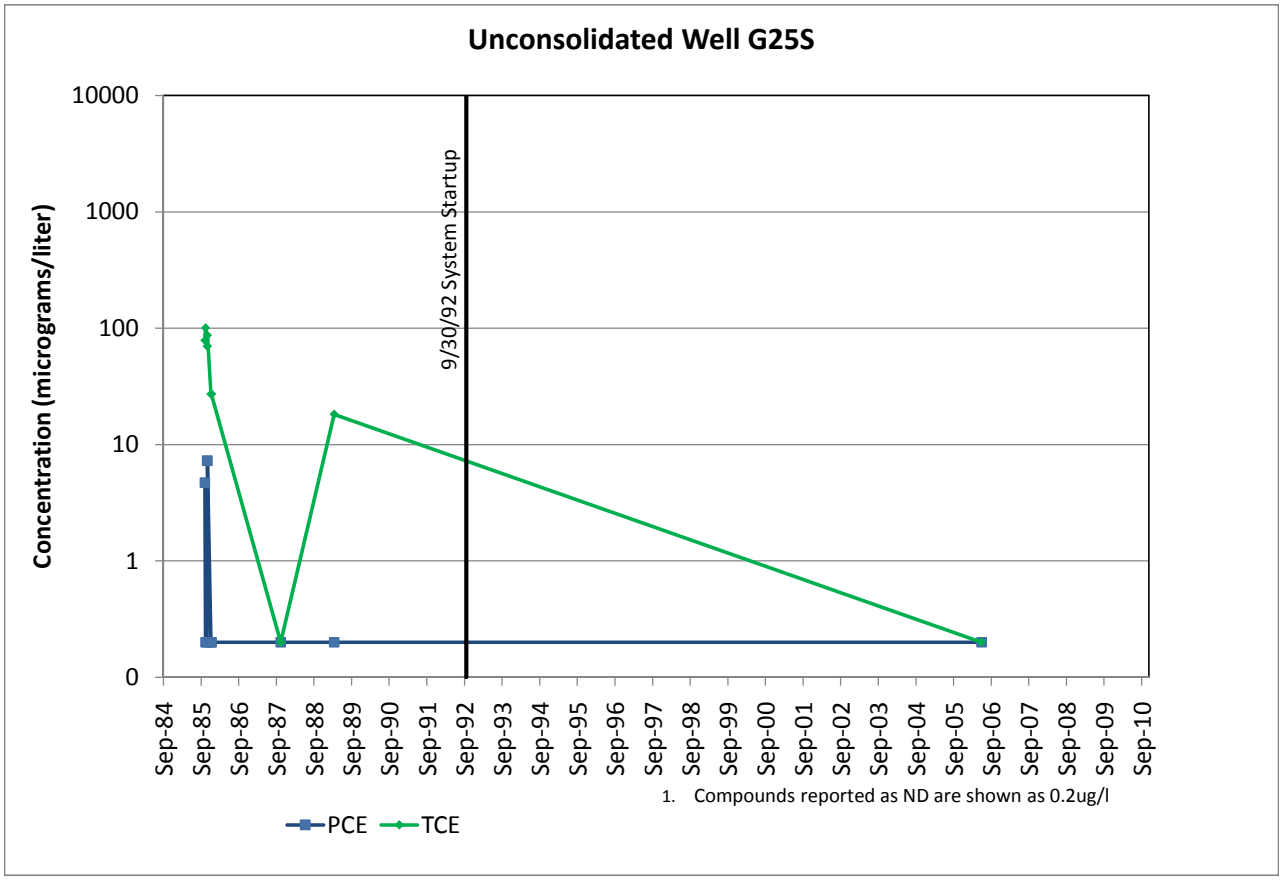

Bedrock Well G24D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

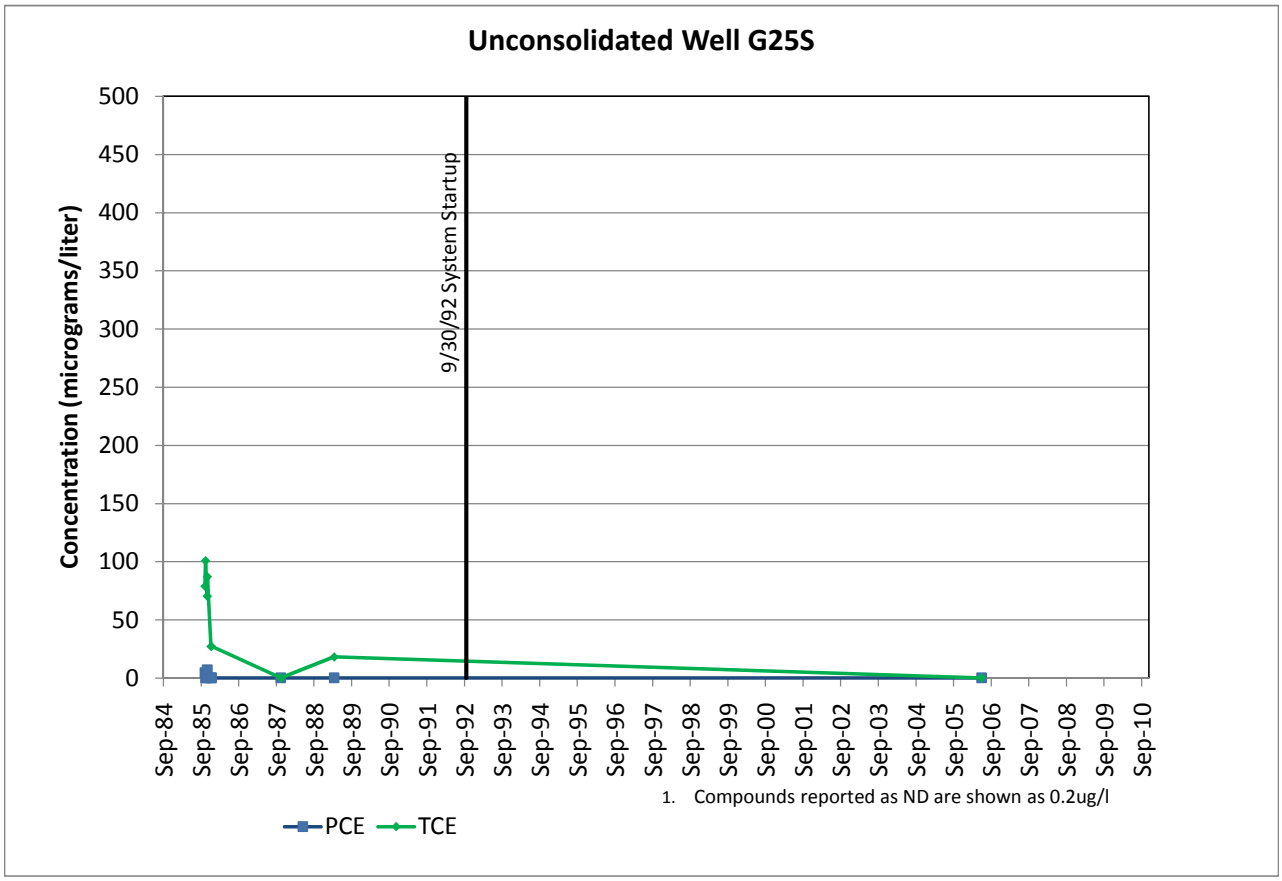

Unconsolidated Well G24S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

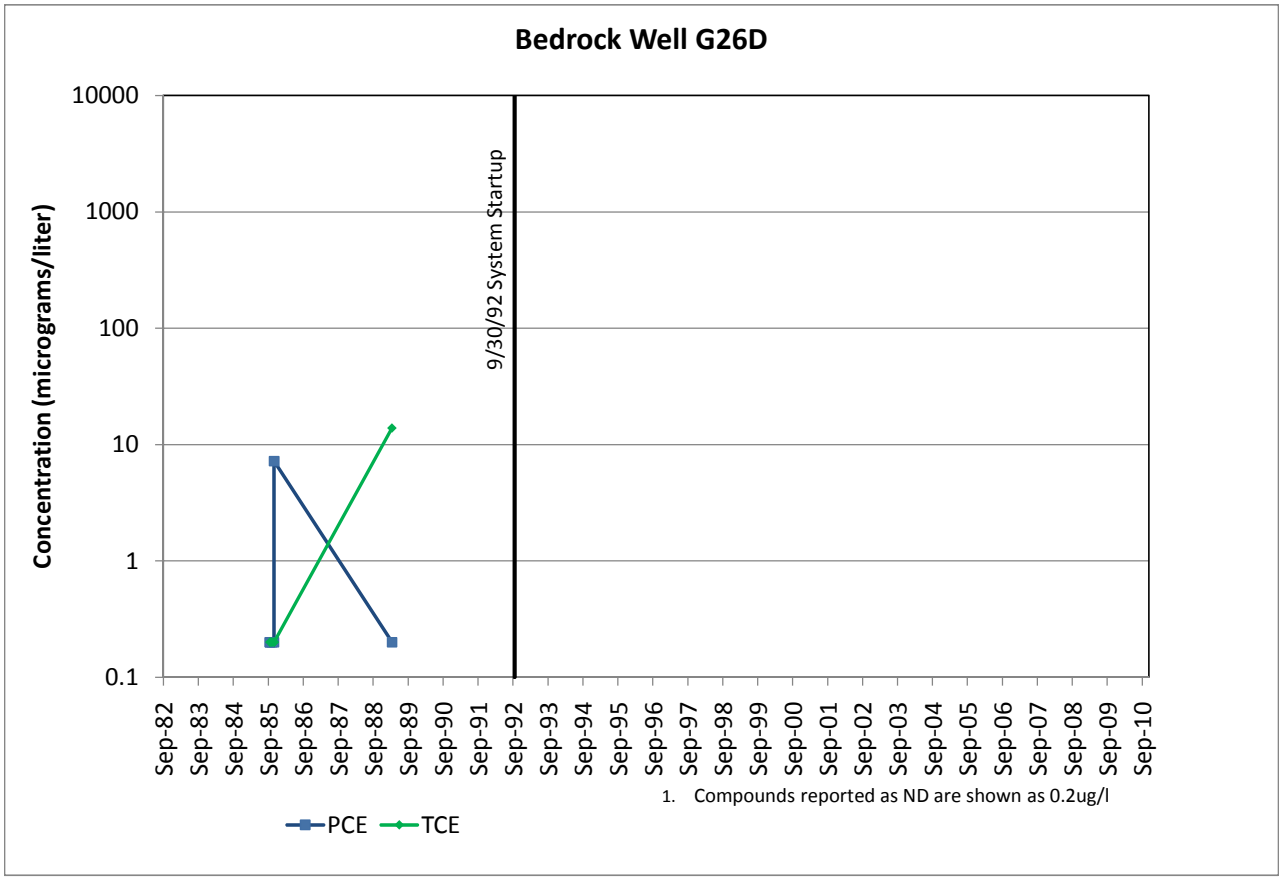

Unconsolidated Well G24S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

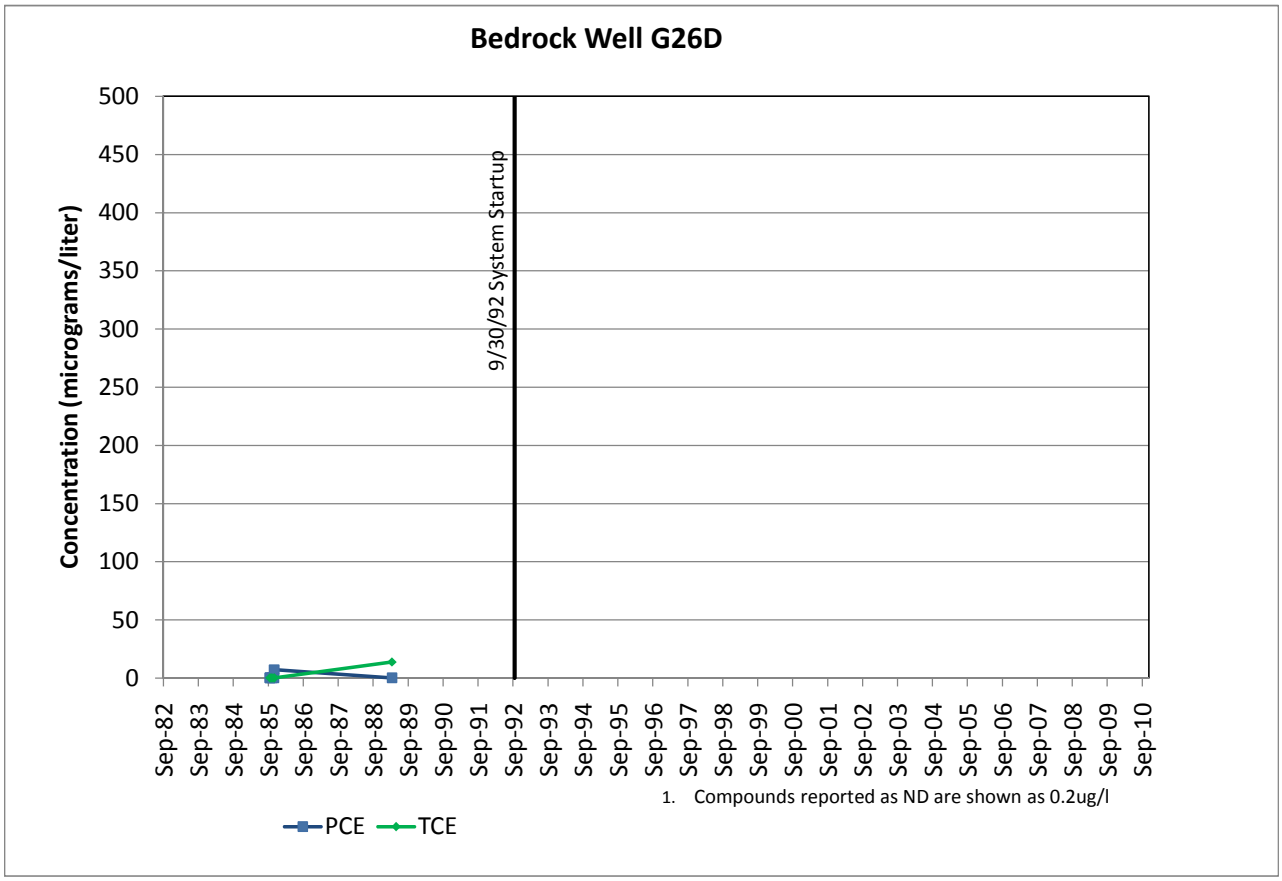

Bedrock Well G25D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

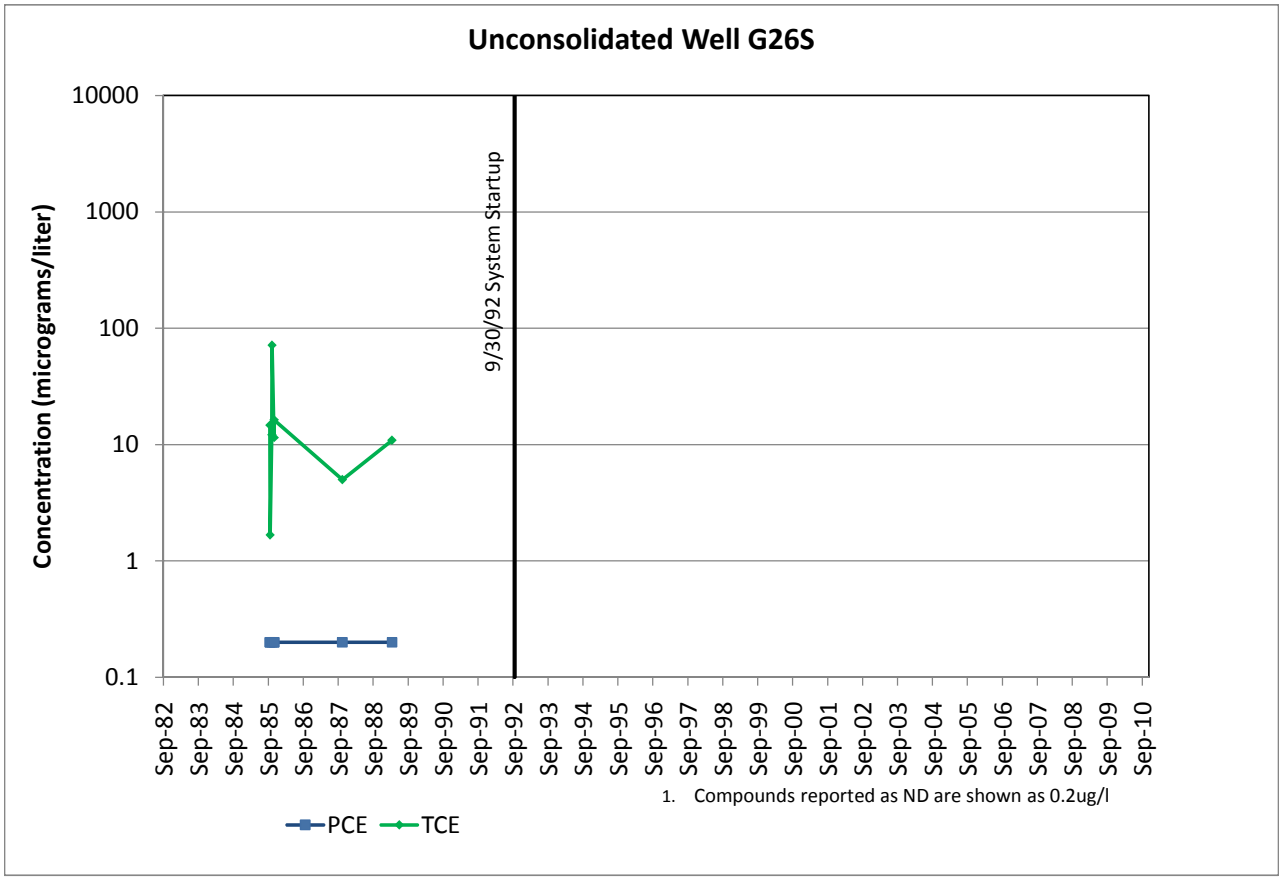

Bedrock Well G25D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

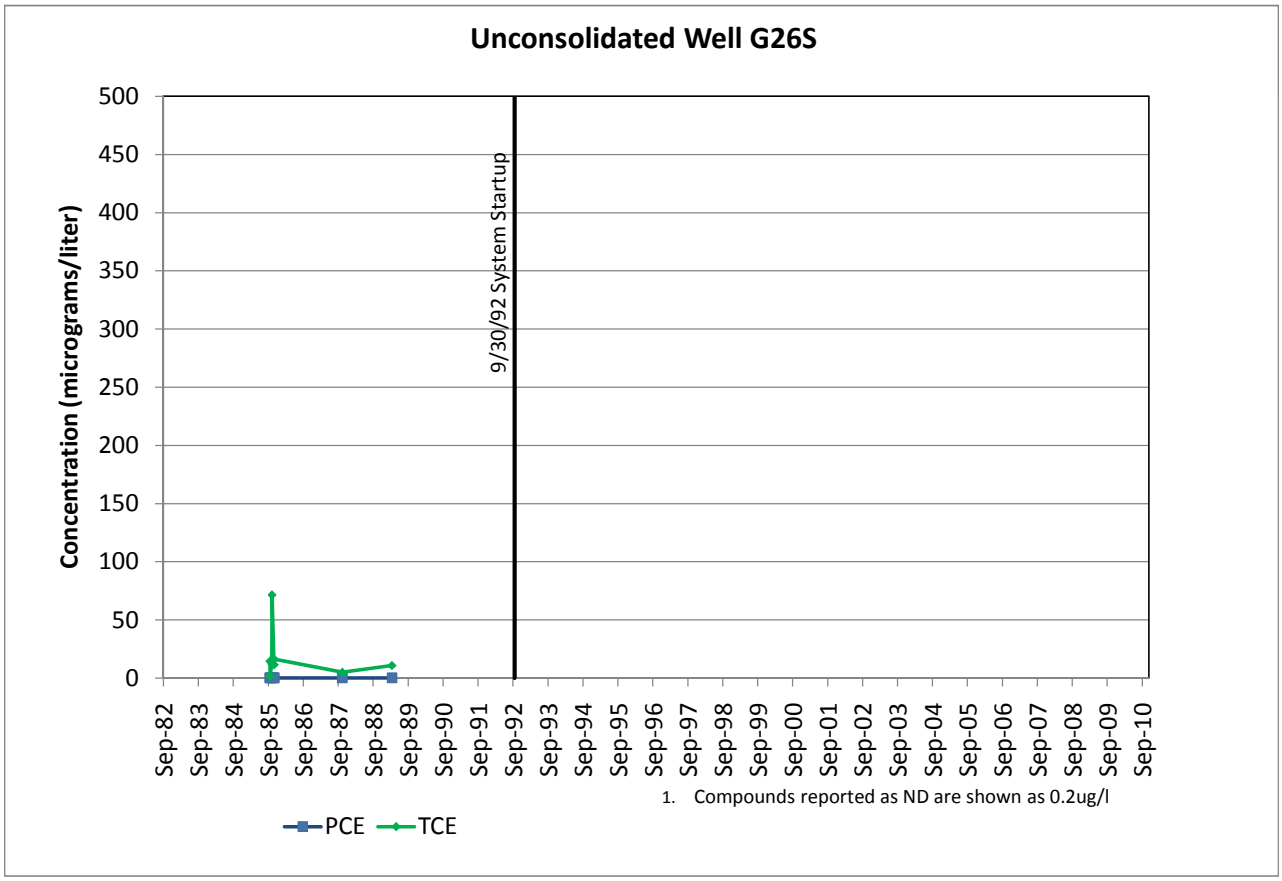

Unconsolidated Well G25S
Concentration (micrograms/liter)
10000
1000
100
10
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

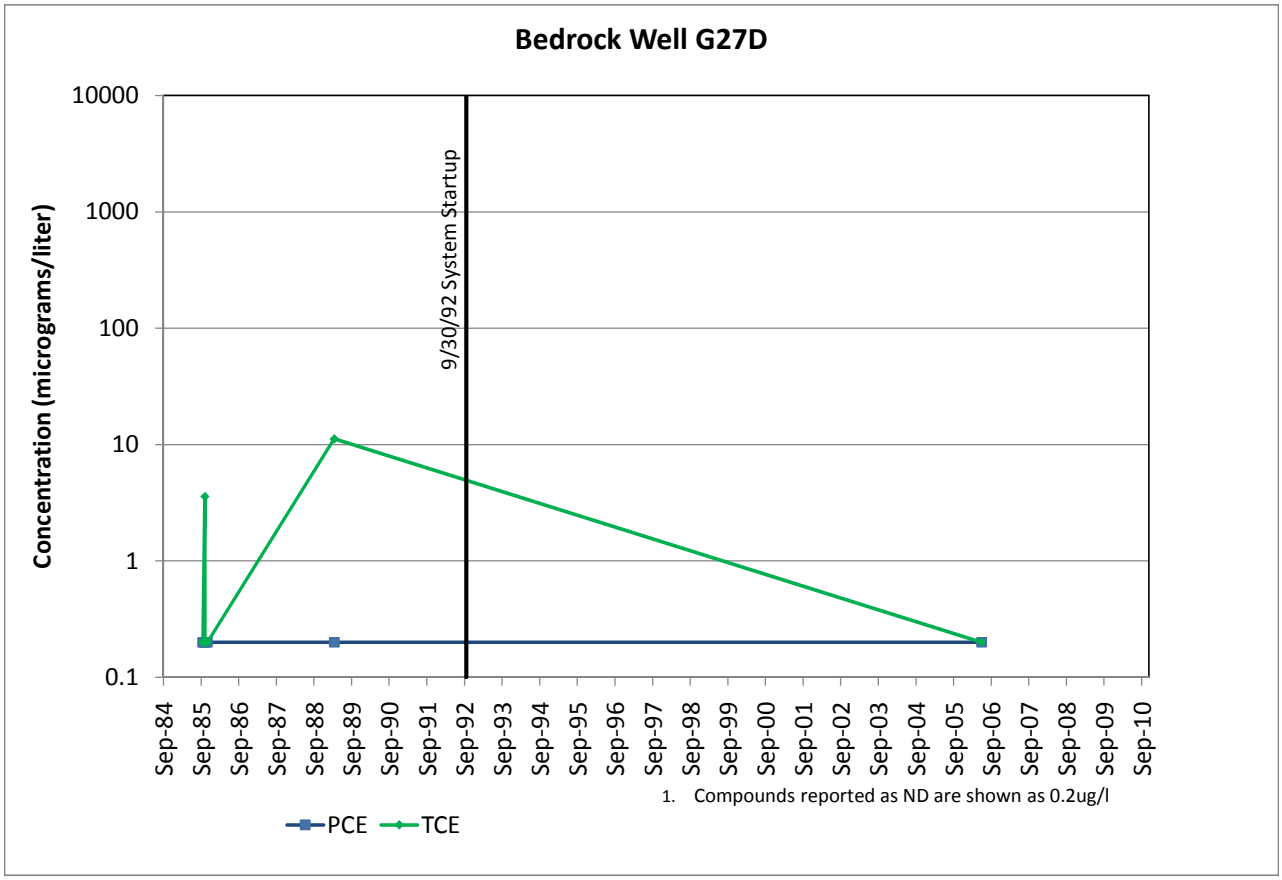

Unconsolidated Well G25S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

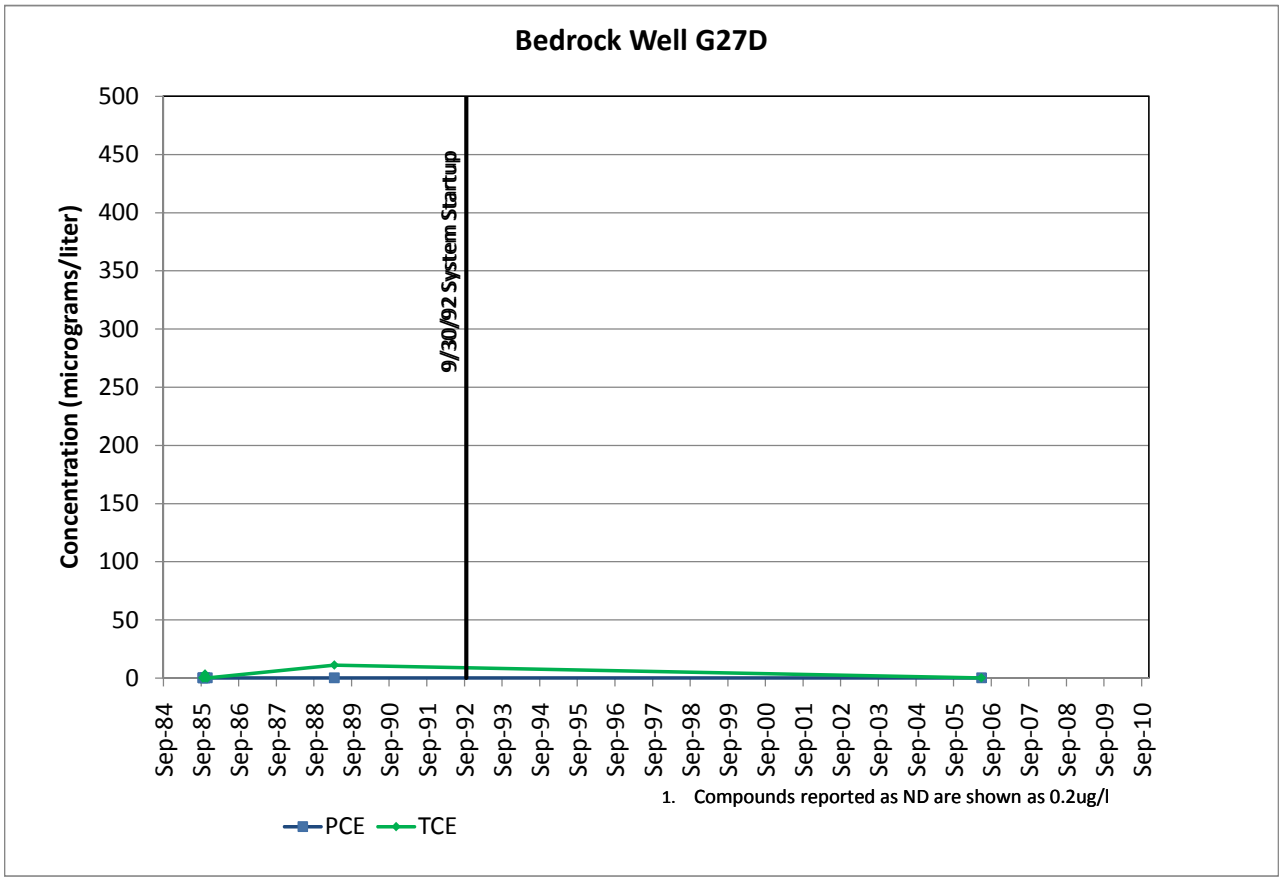

Bedrock Well G26D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

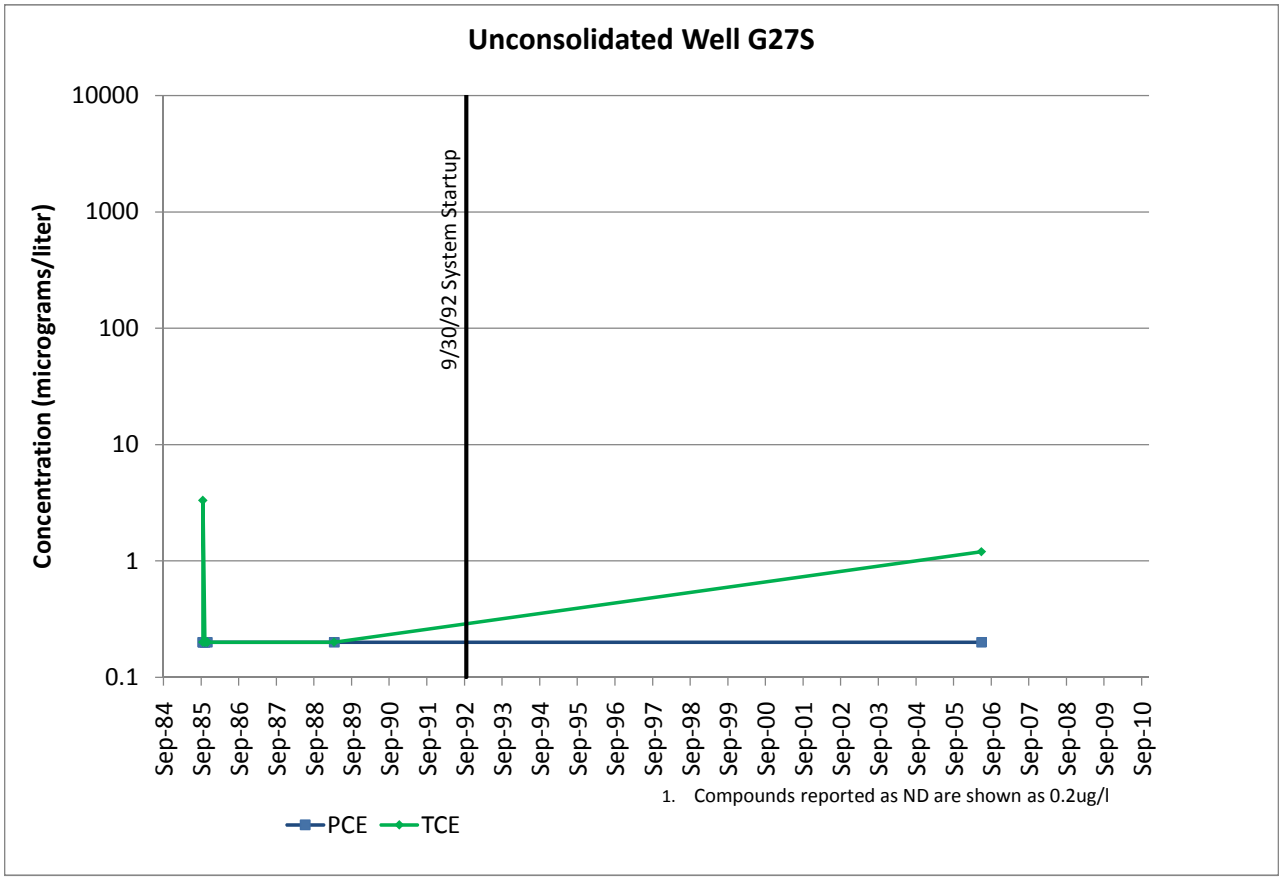

Bedrock Well G26D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

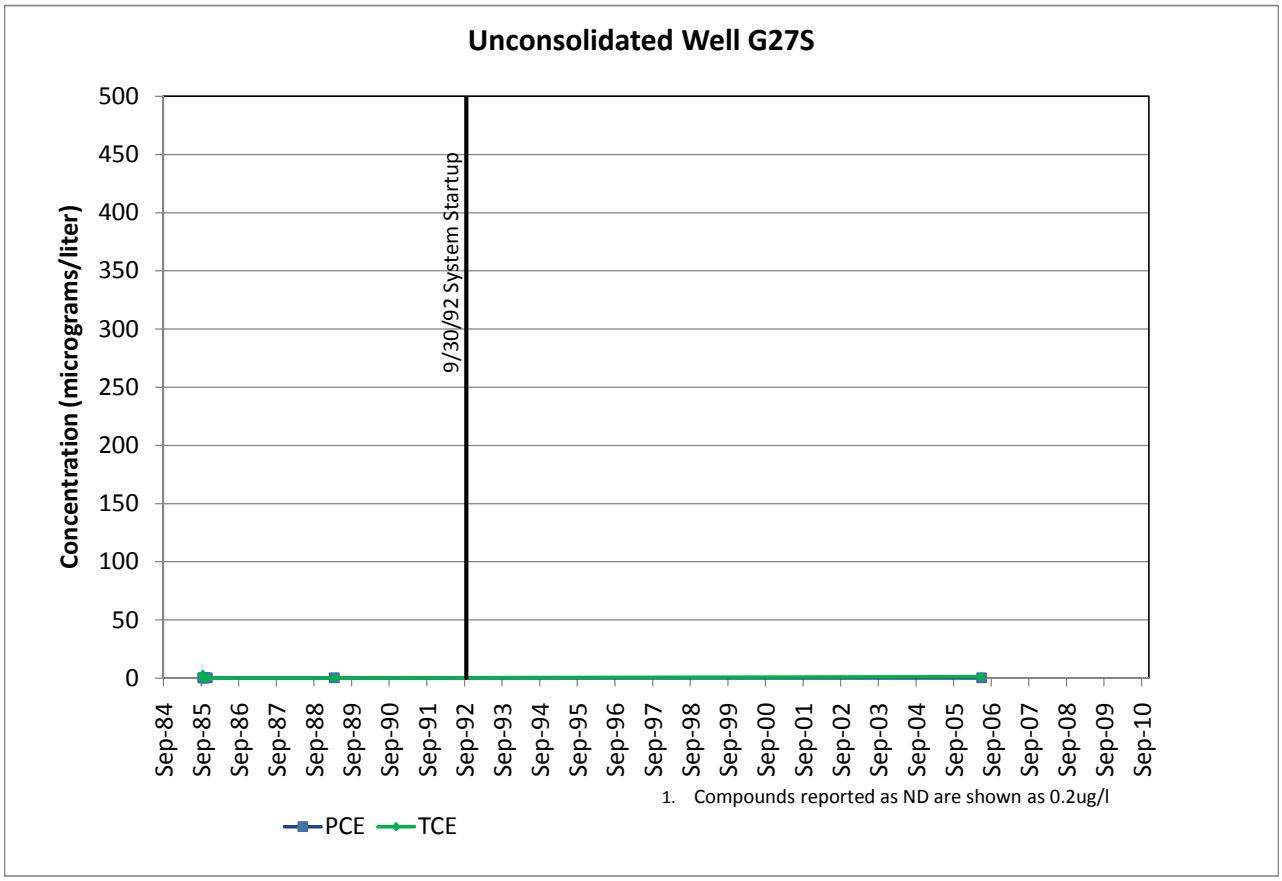

Unconsolidated Well G26S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

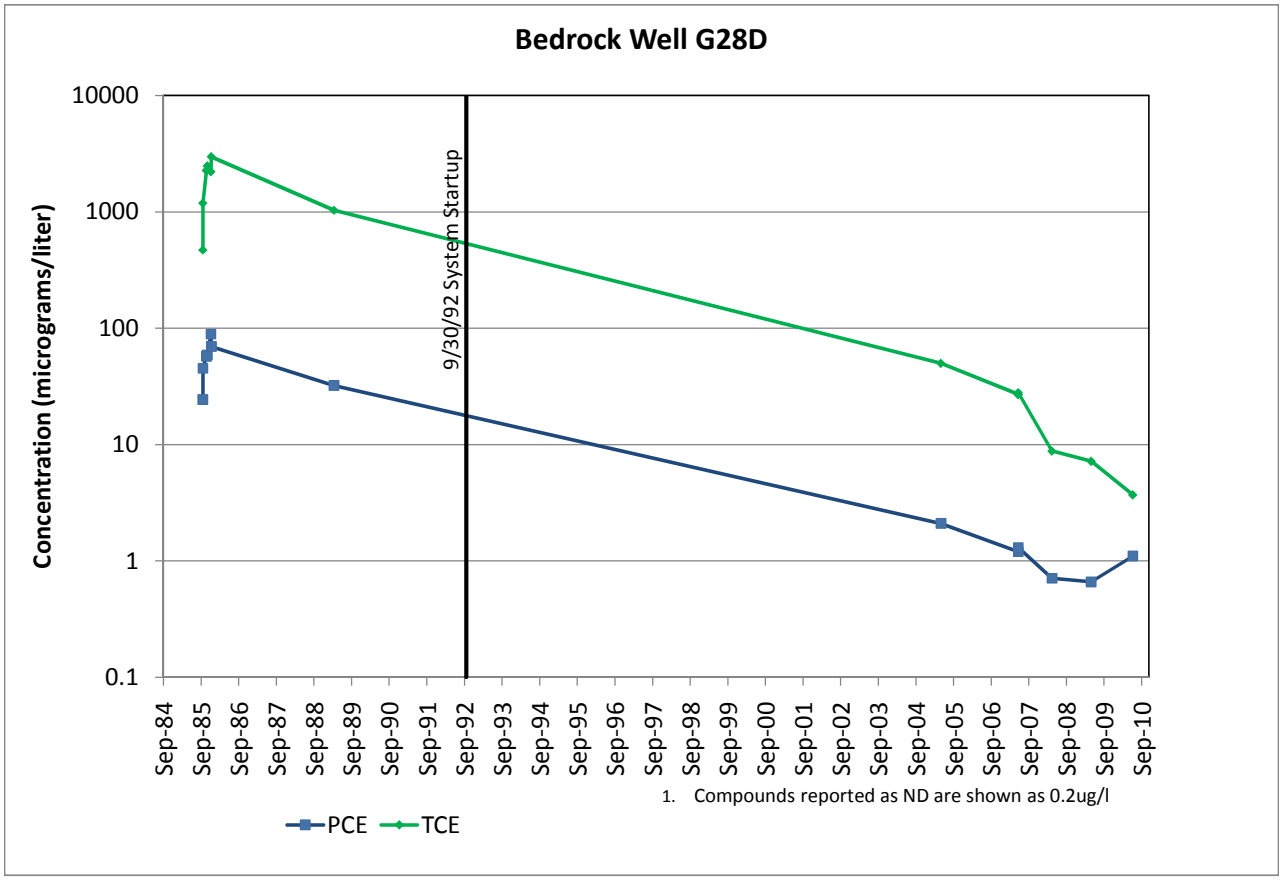

Unconsolidated Well G26S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

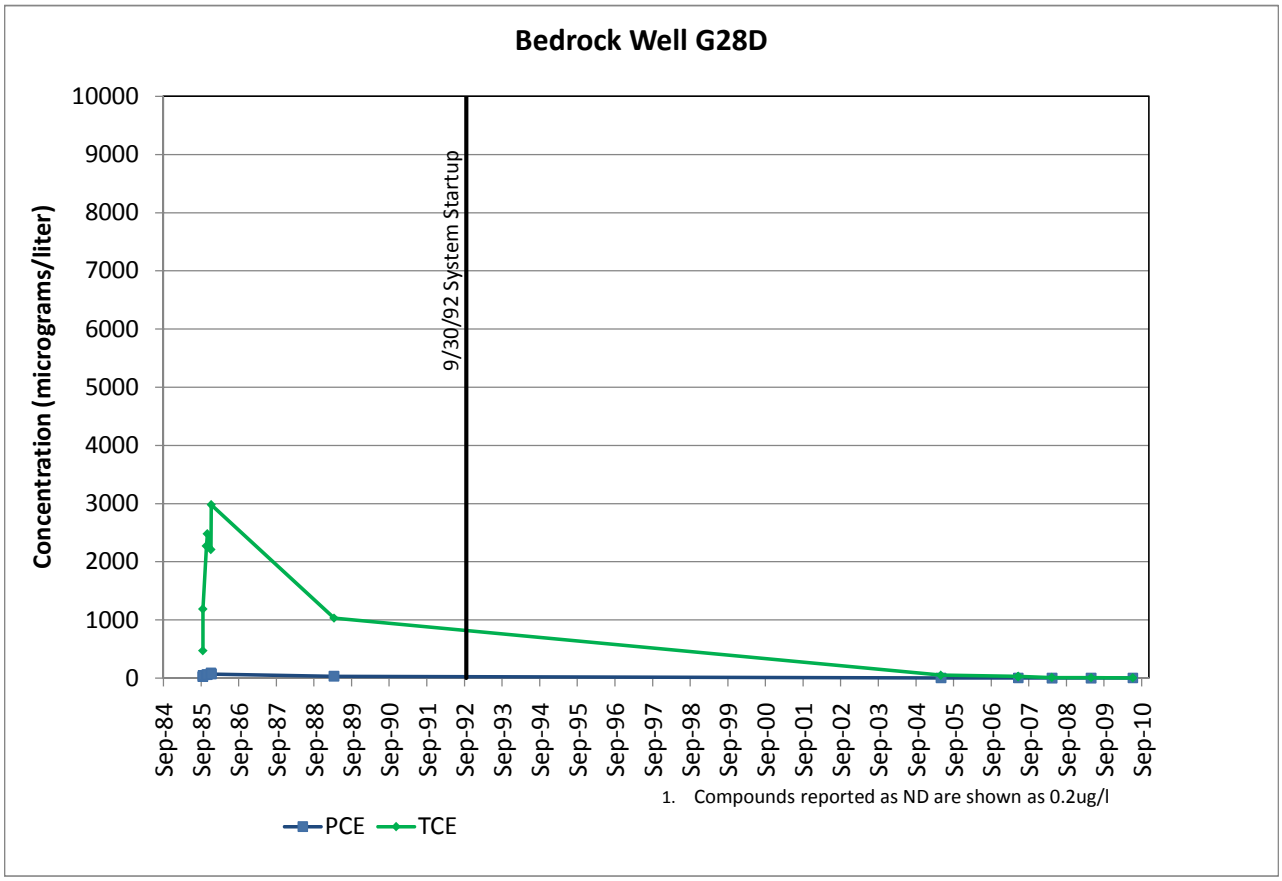

Bedrock Well G27D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

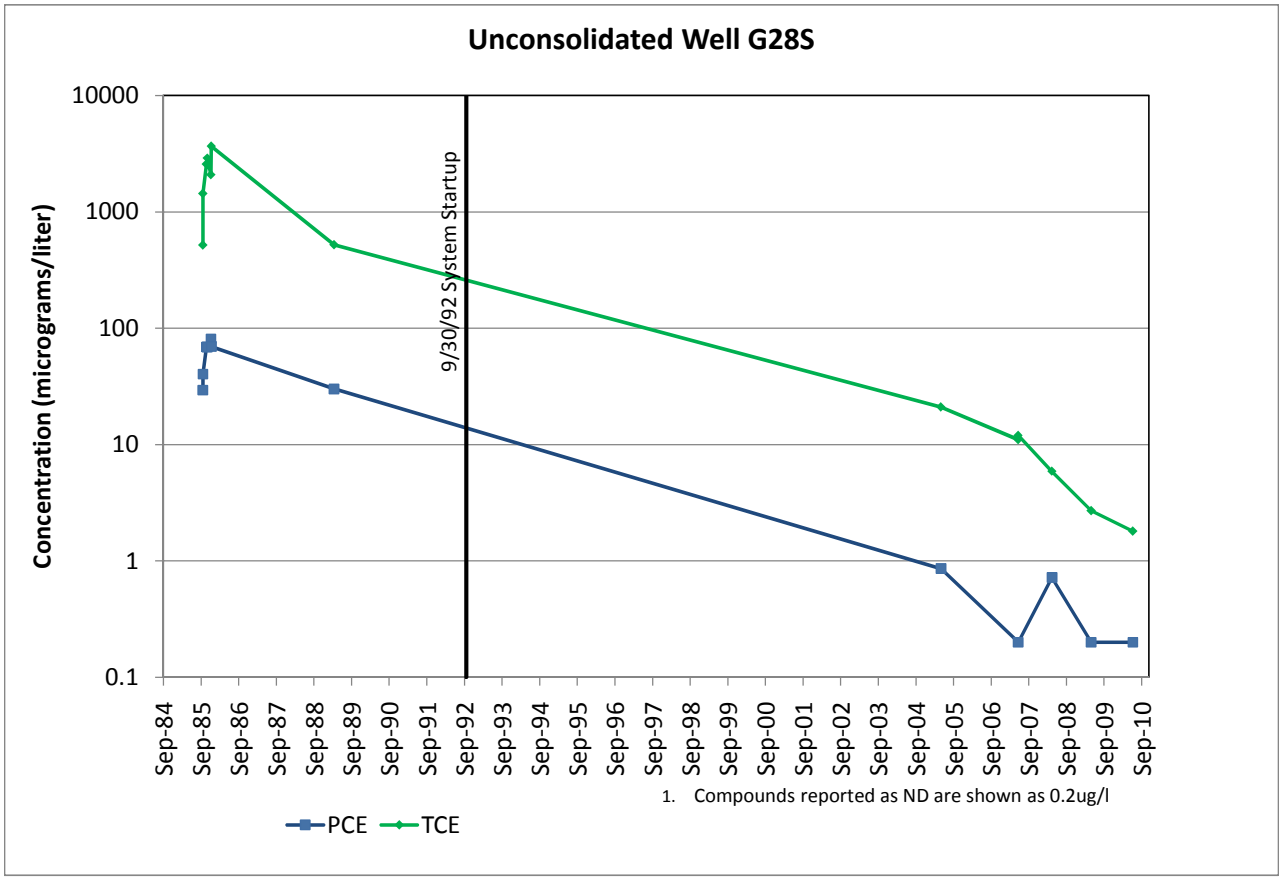

Bedrock Well G27D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

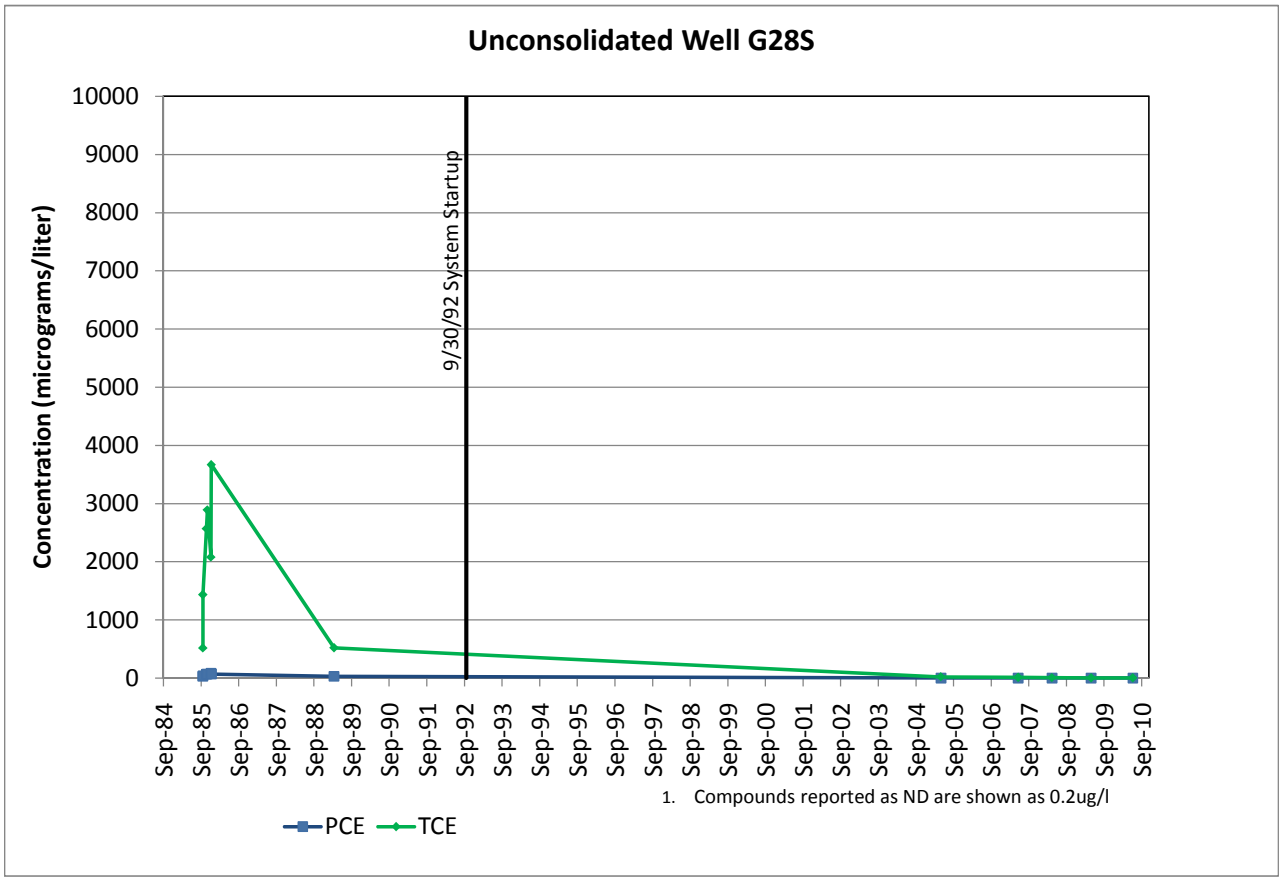

Unconsolidated Well G27S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

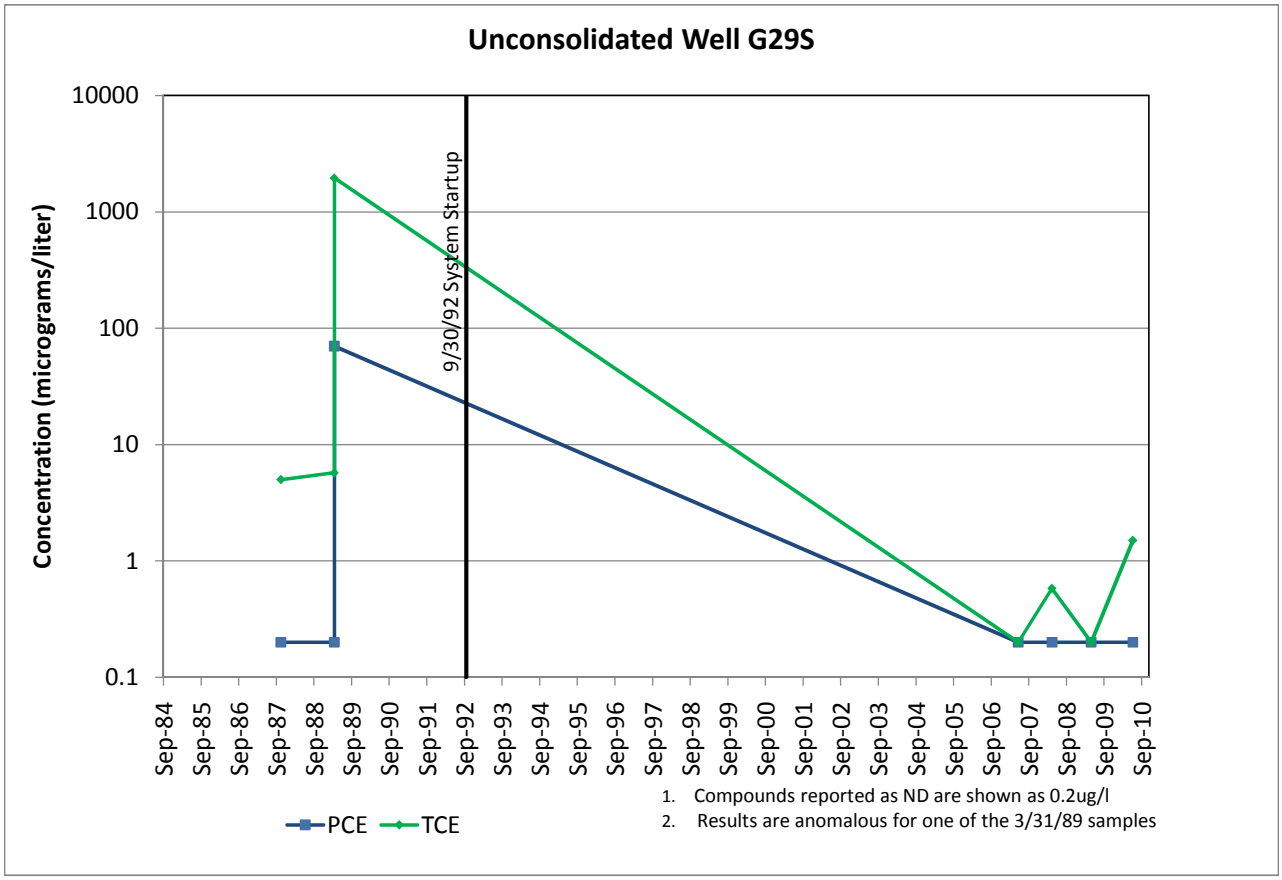

Unconsolidated Well G27S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

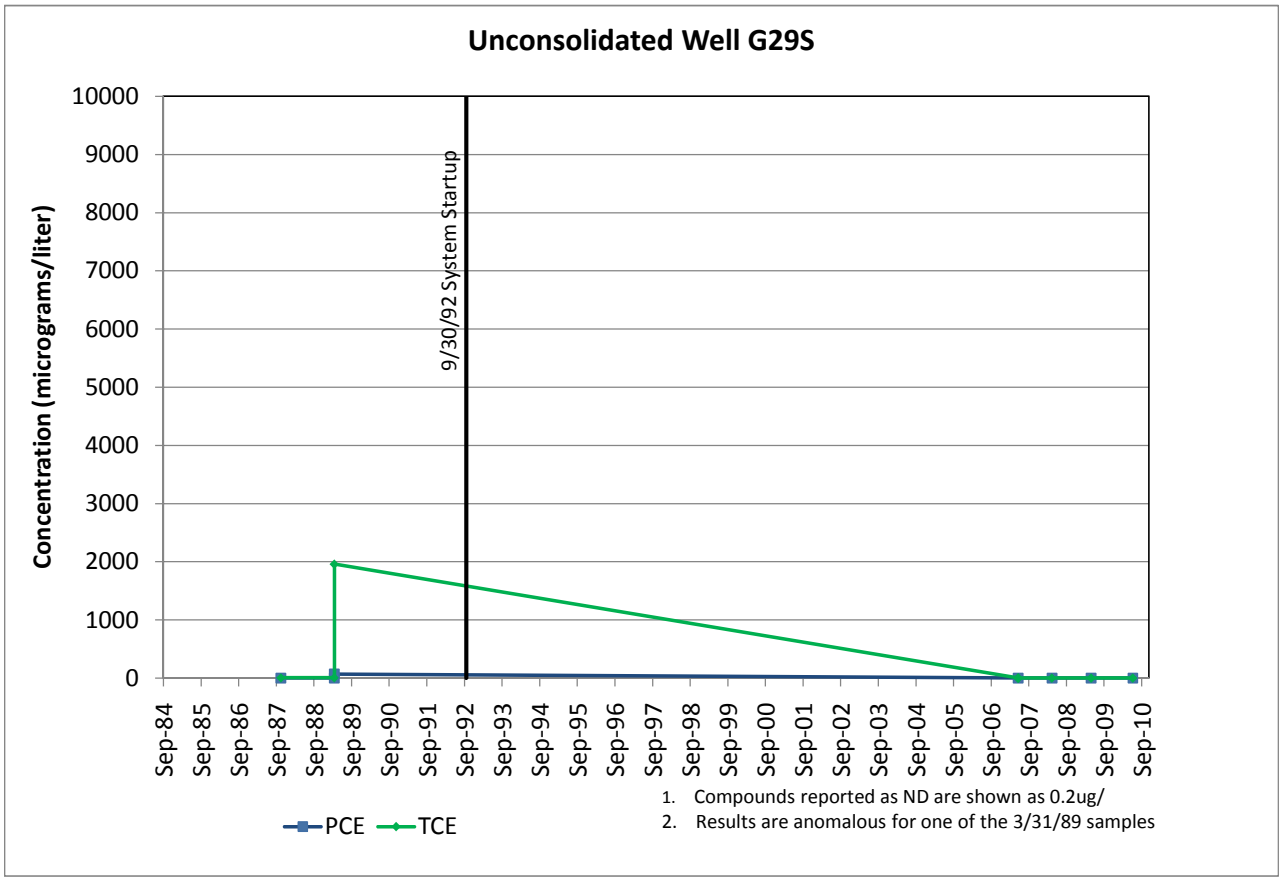

Bedrock Well G28D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

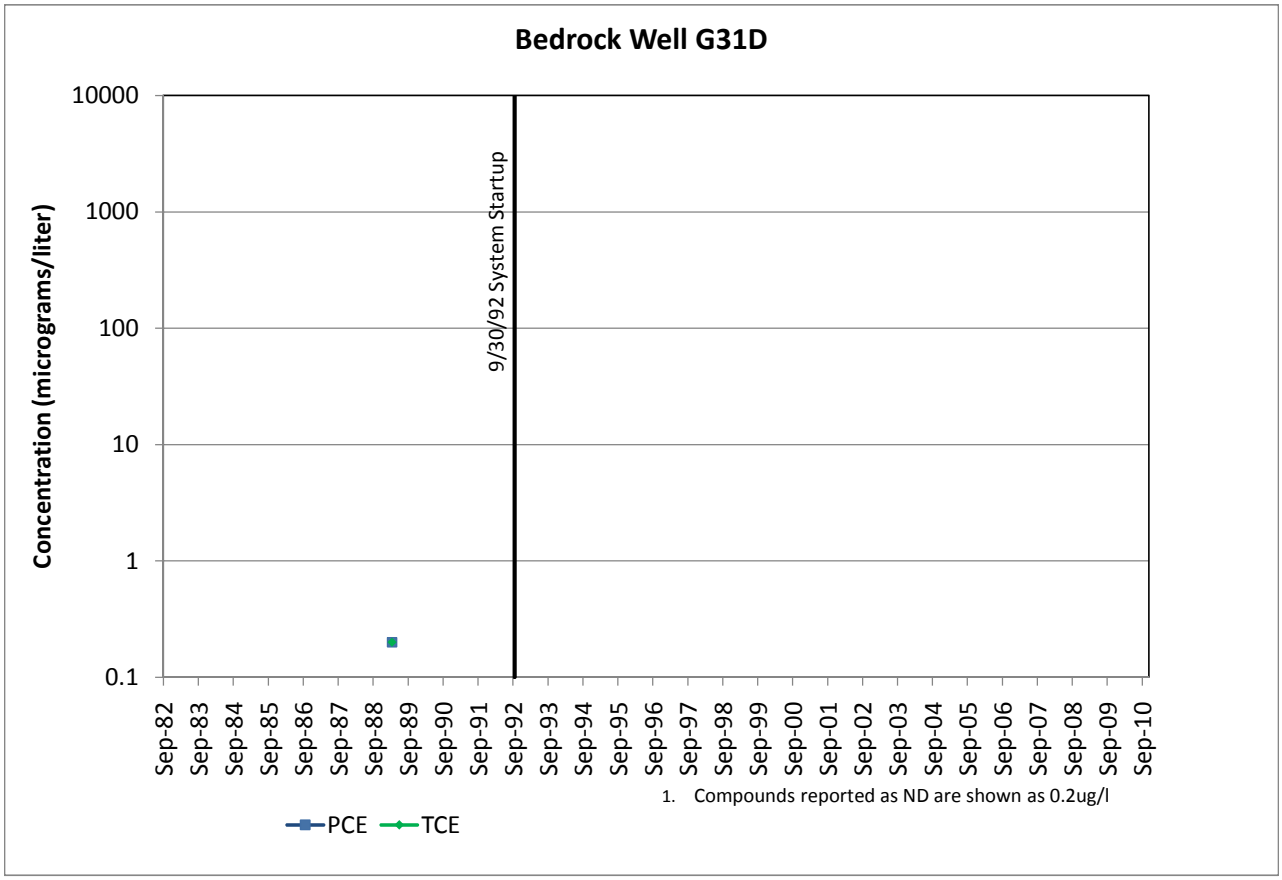

Bedrock Well G28D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

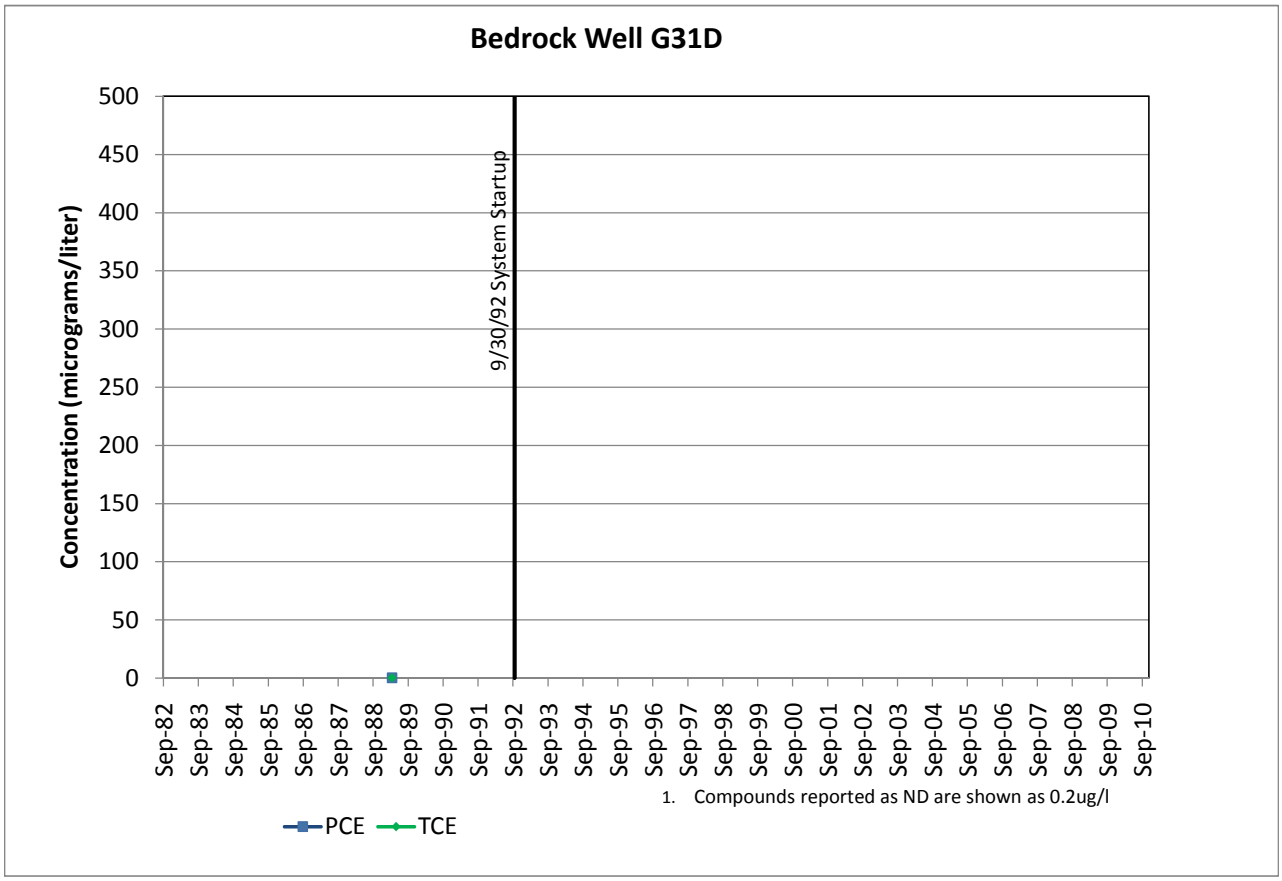

Unconsolidated Well G28S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

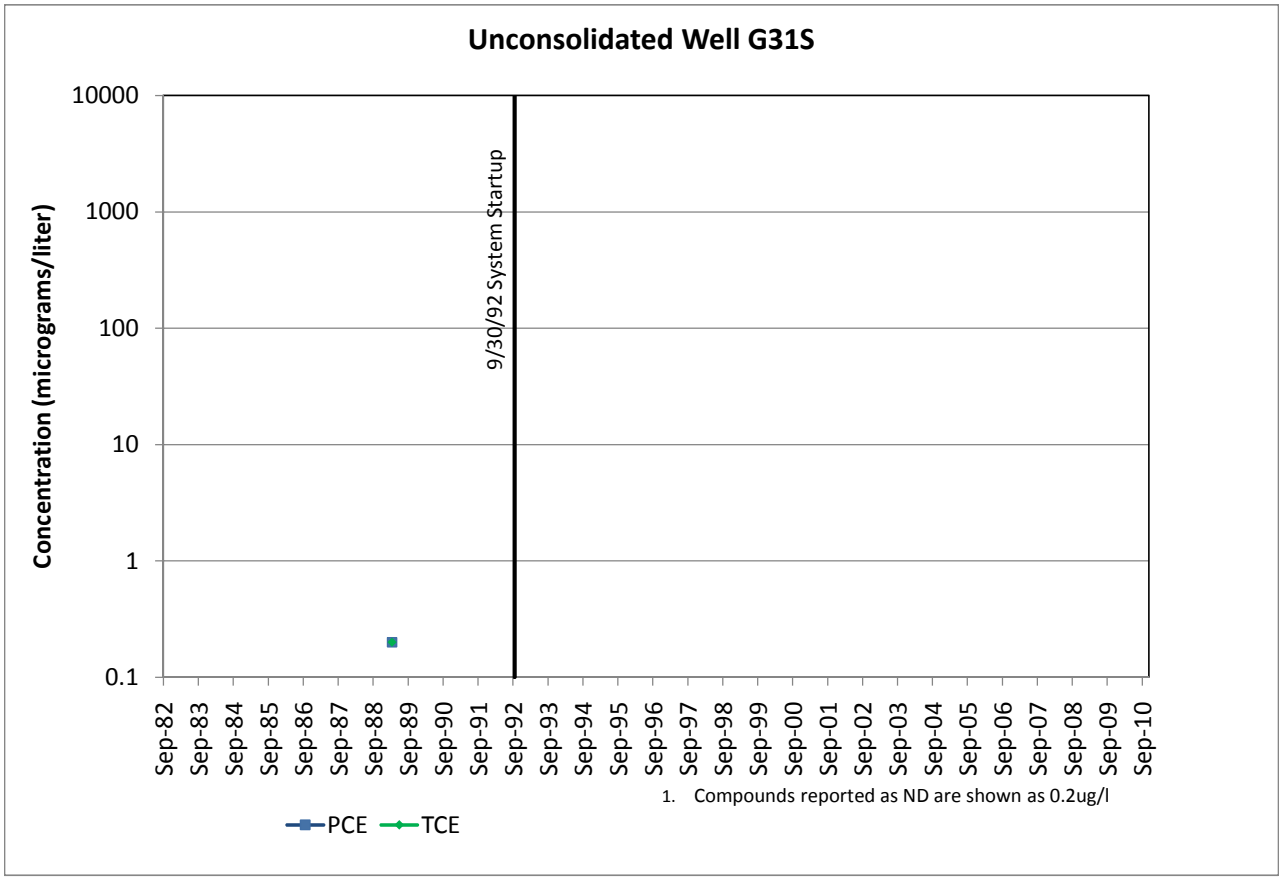

Unconsolidated Well G28S
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

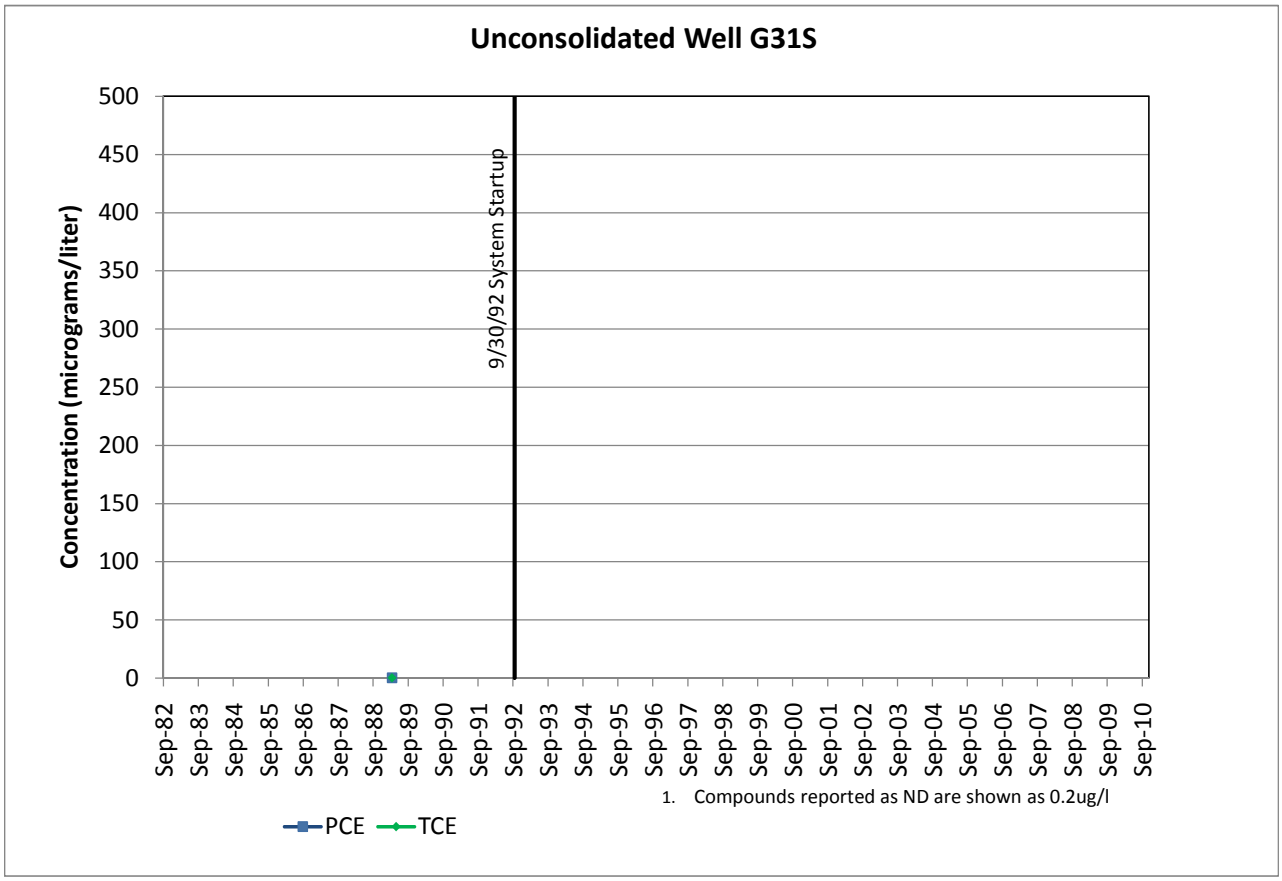

Unconsolidated Well G29S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. Compounds reported as ND are shown as 0.2ug/l
2. Results are anomalous for one of the 3/31/89 samples

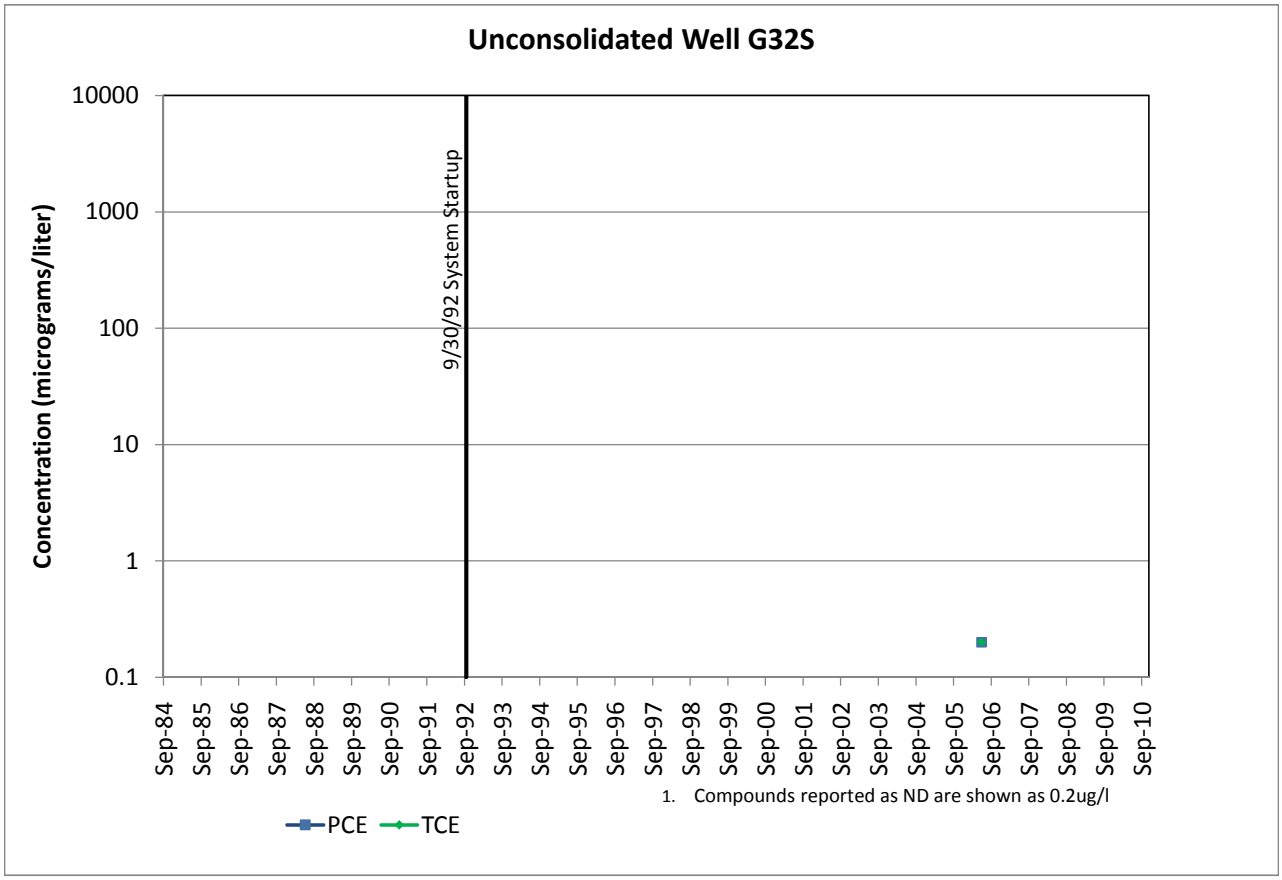

Unconsolidated Well G29S
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. Compounds reported as ND are shown as 0.2ug/
2. Results are anomalous for one of the 3/31/89 samples

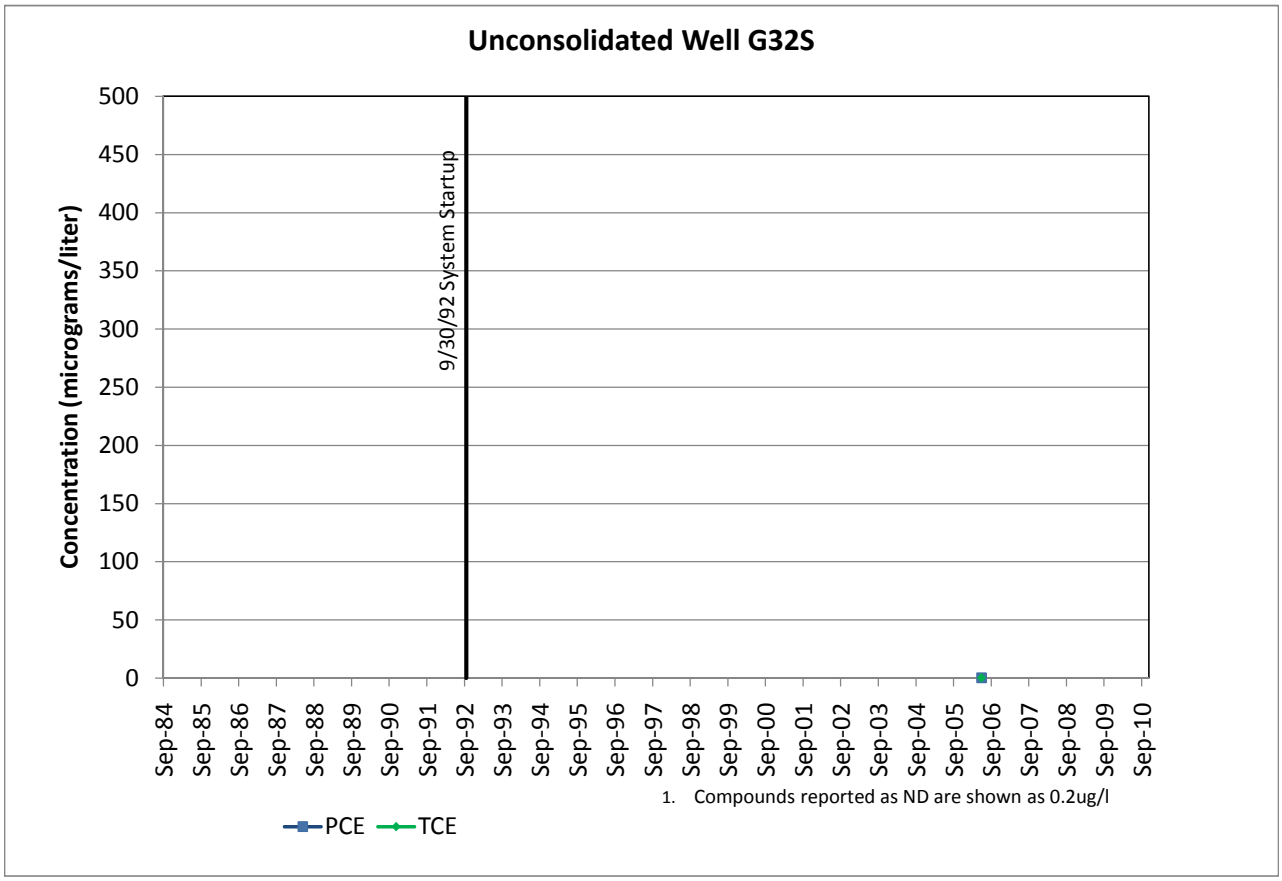

Bedrock Well G31D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

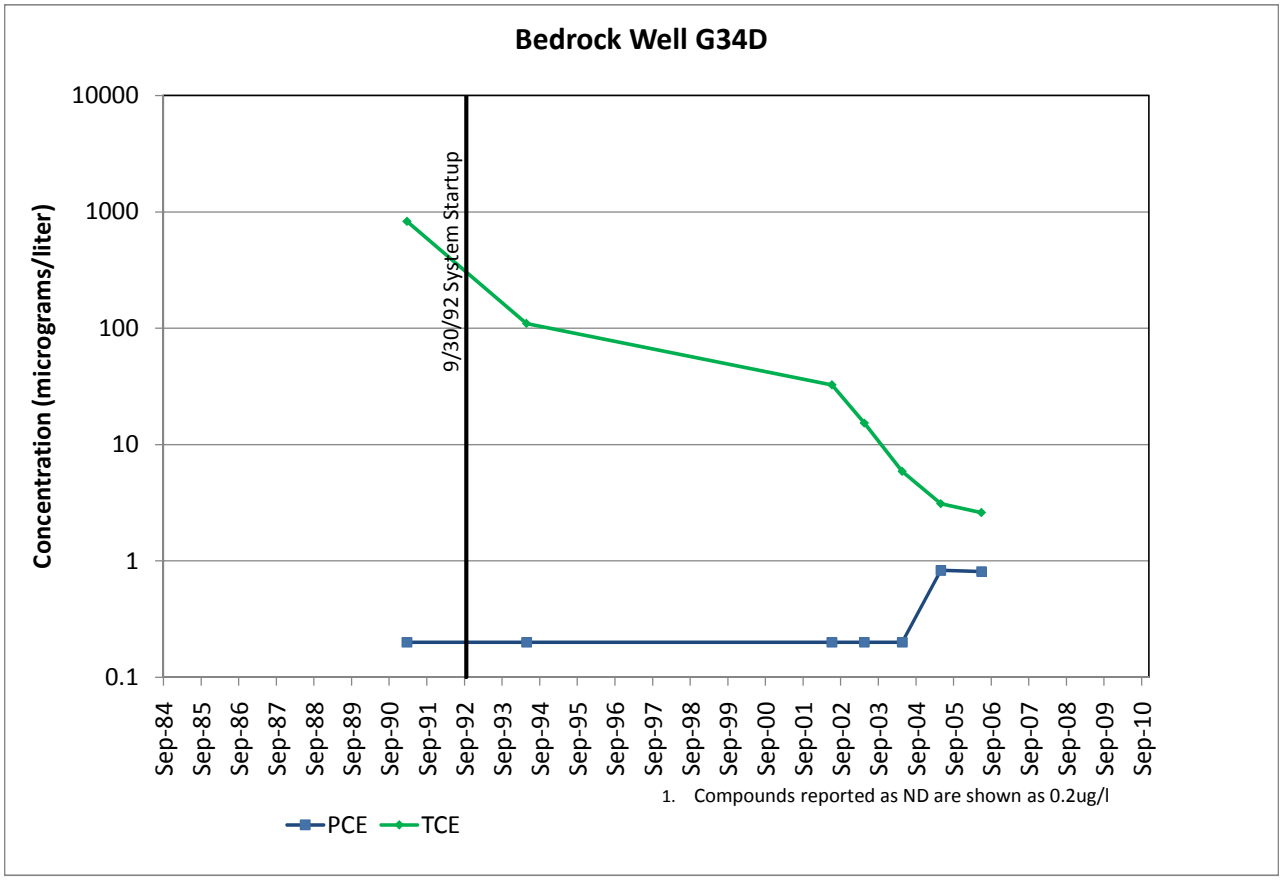

Bedrock Well G31D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

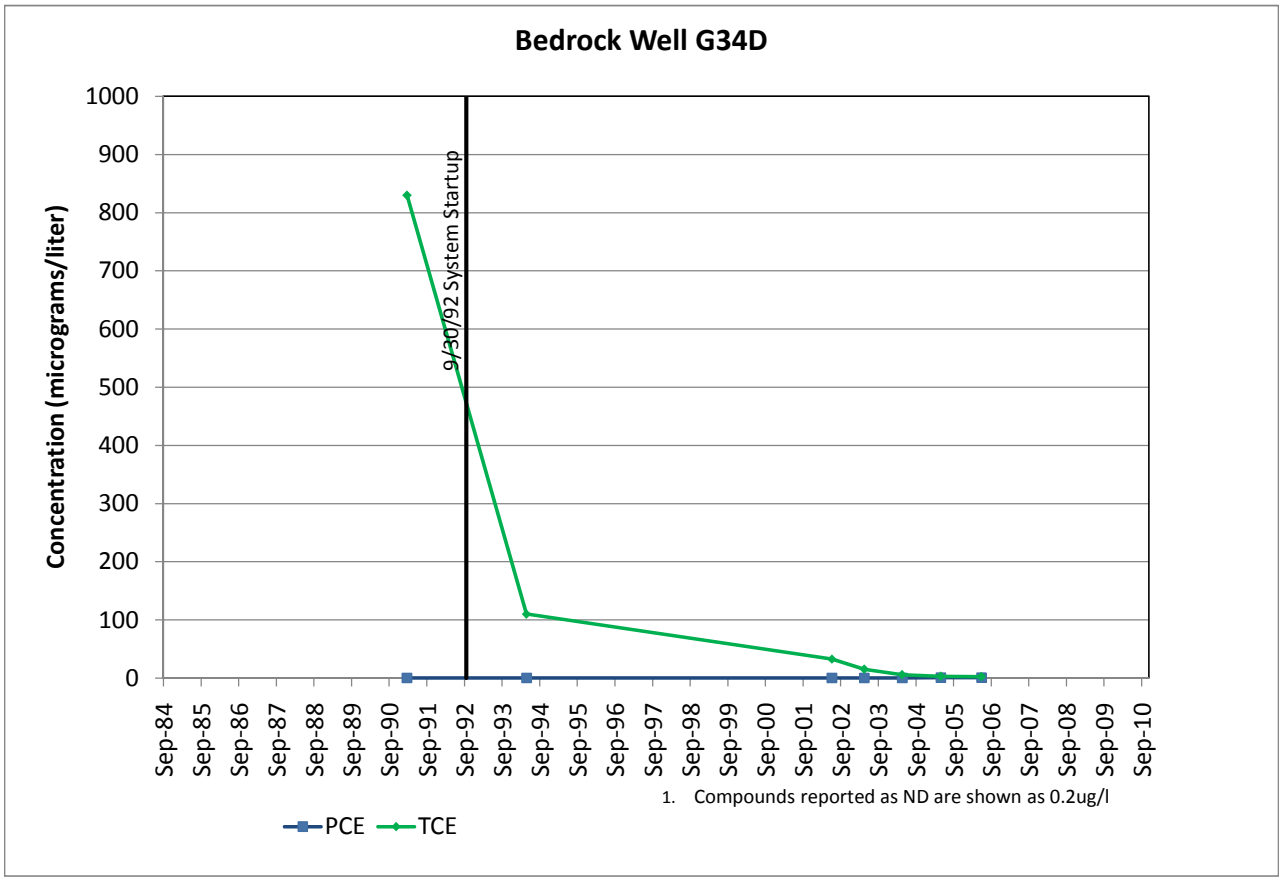

Unconsolidated Well G31S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

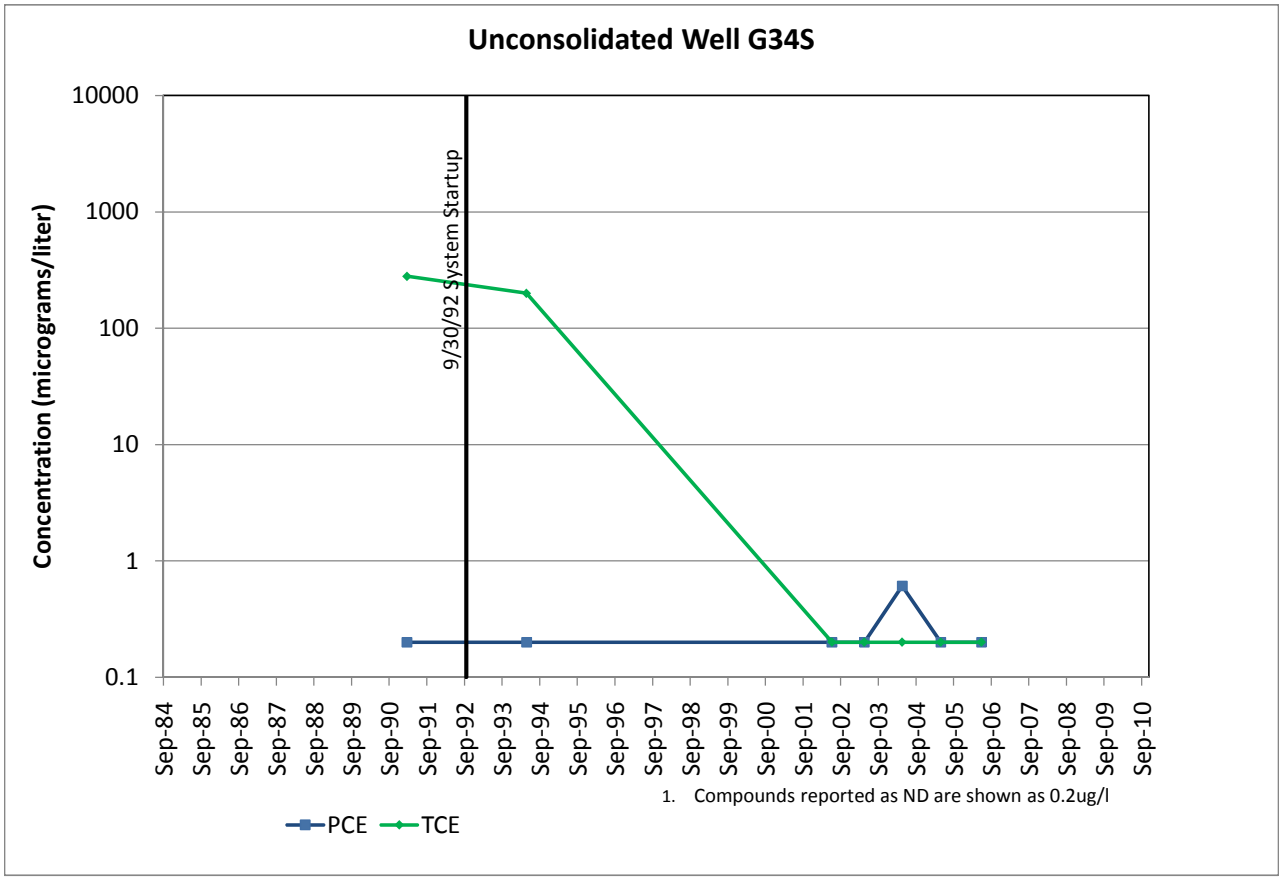

Unconsolidated Well G31S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

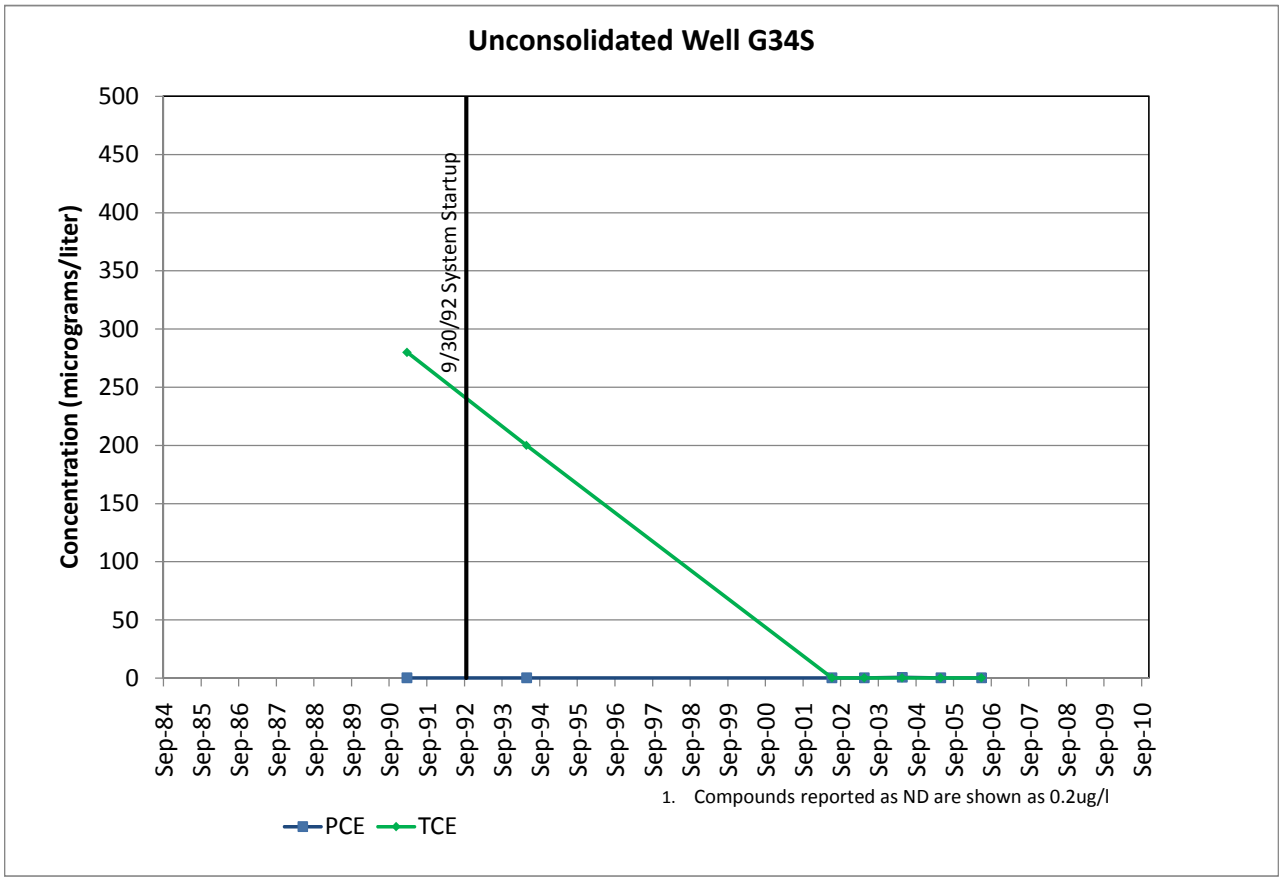

Unconsolidated Well G32S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

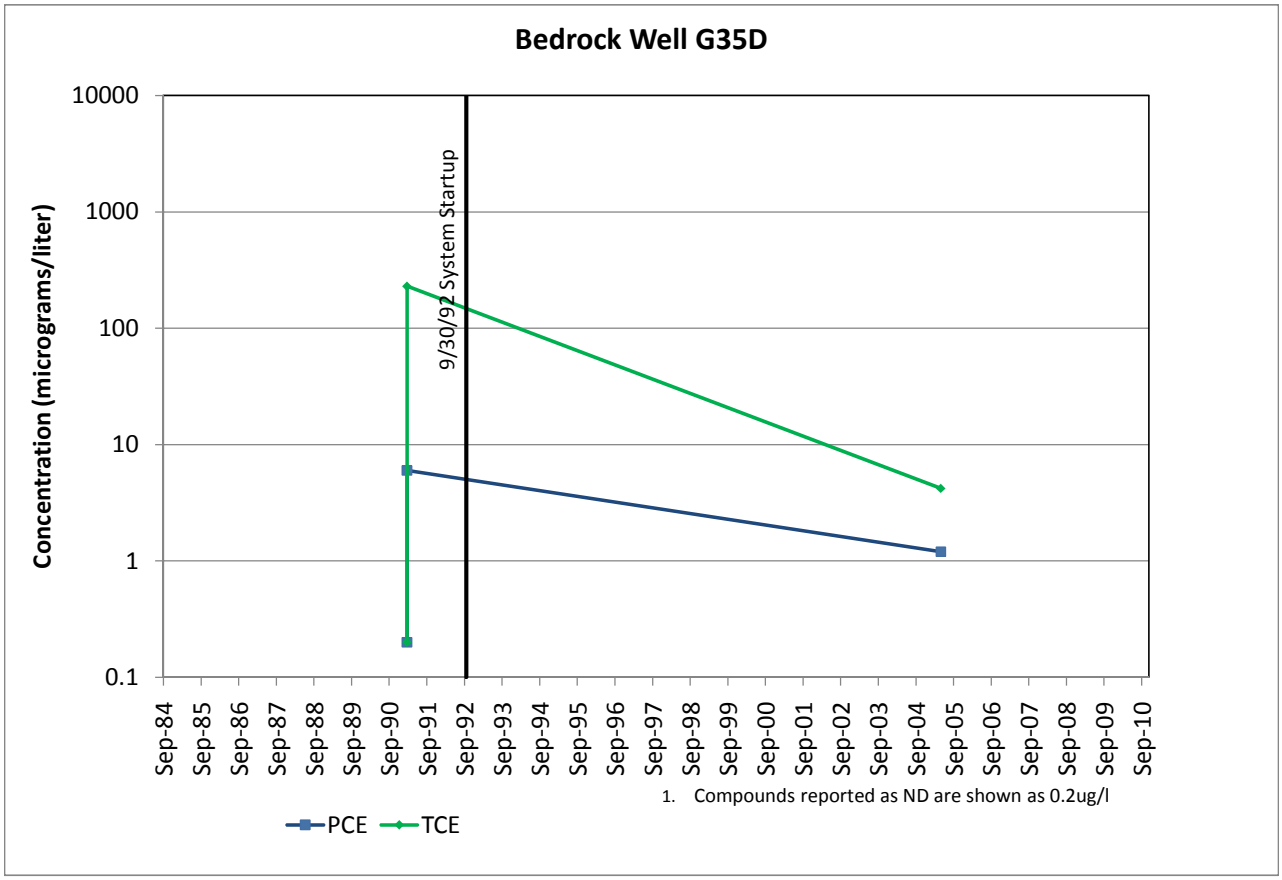

Unconsolidated Well G32S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

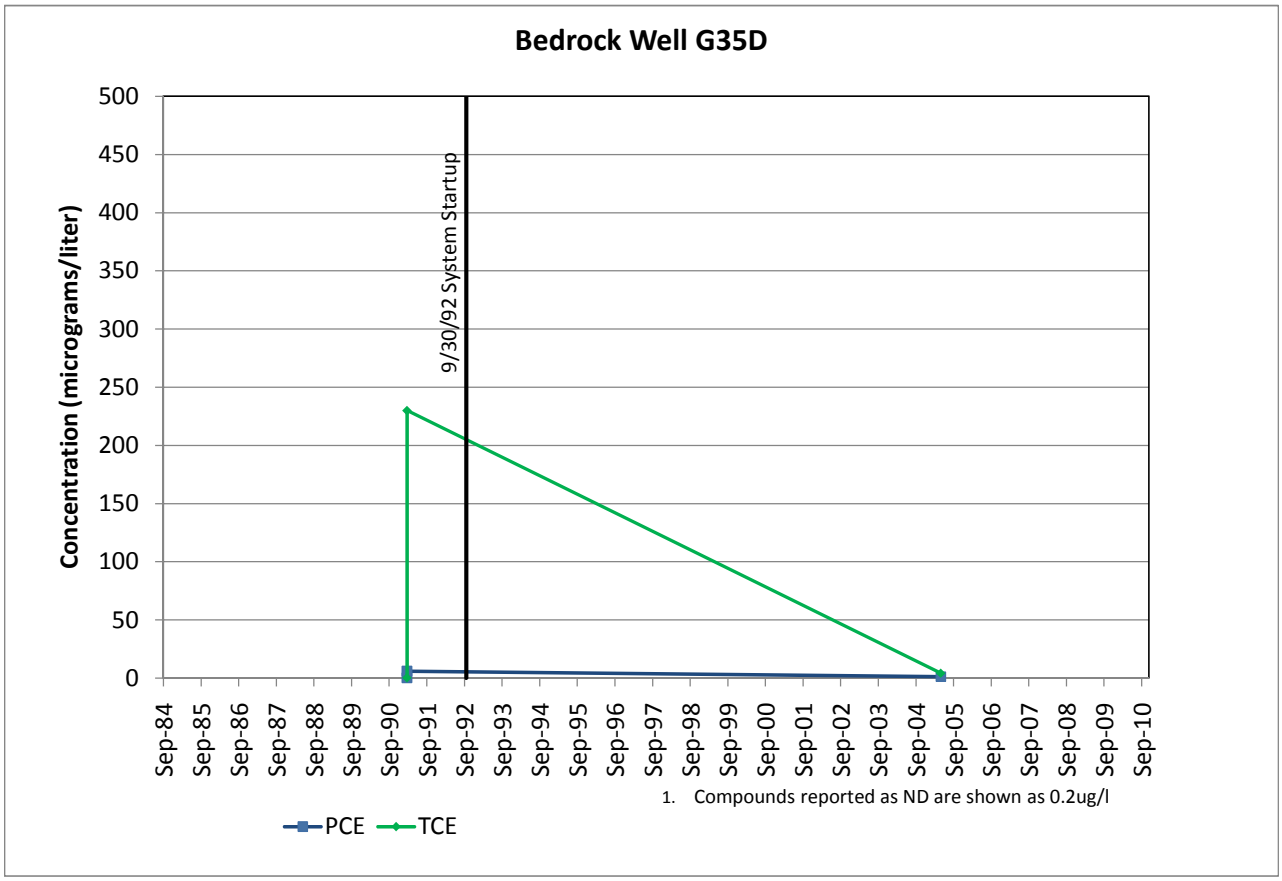

Bedrock Well G34D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

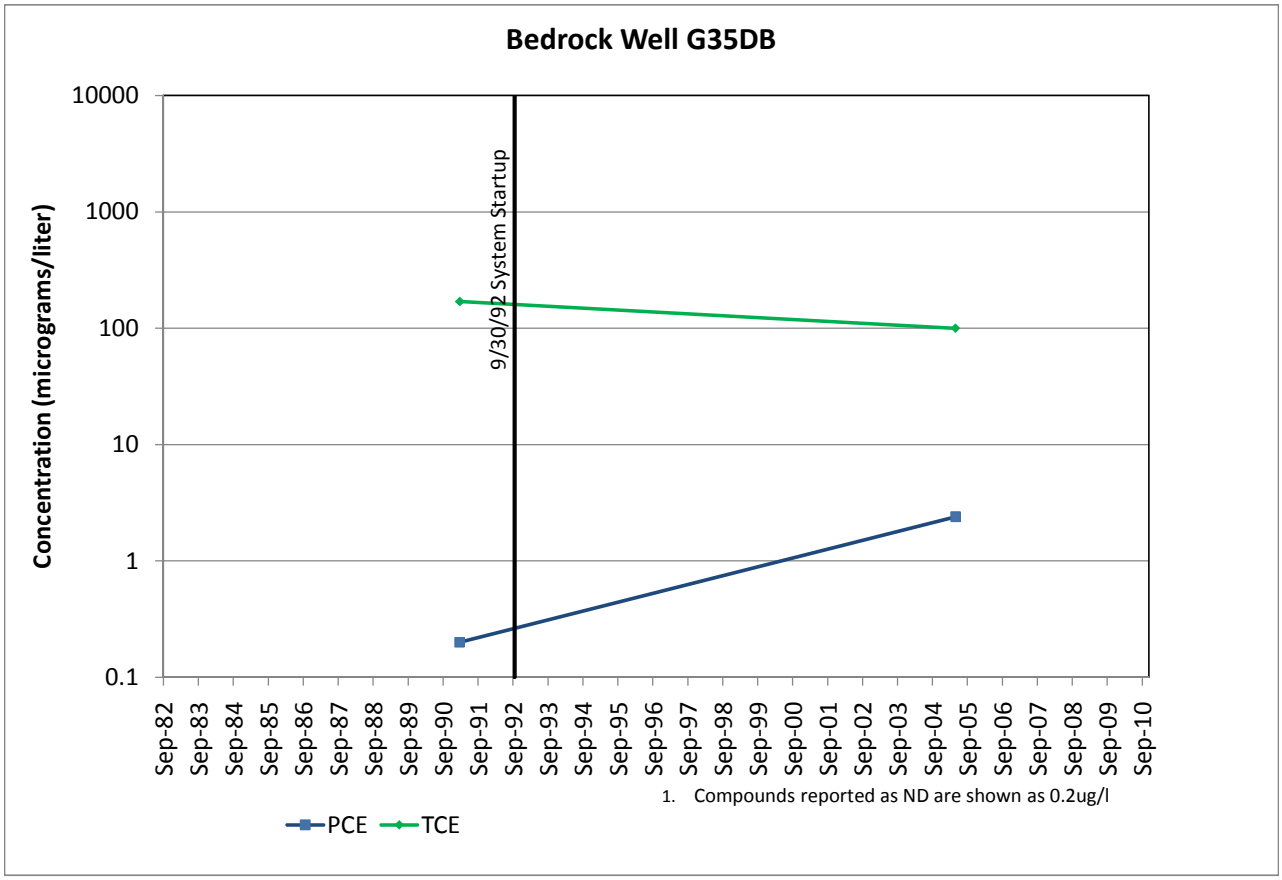

Bedrock Well G34D
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

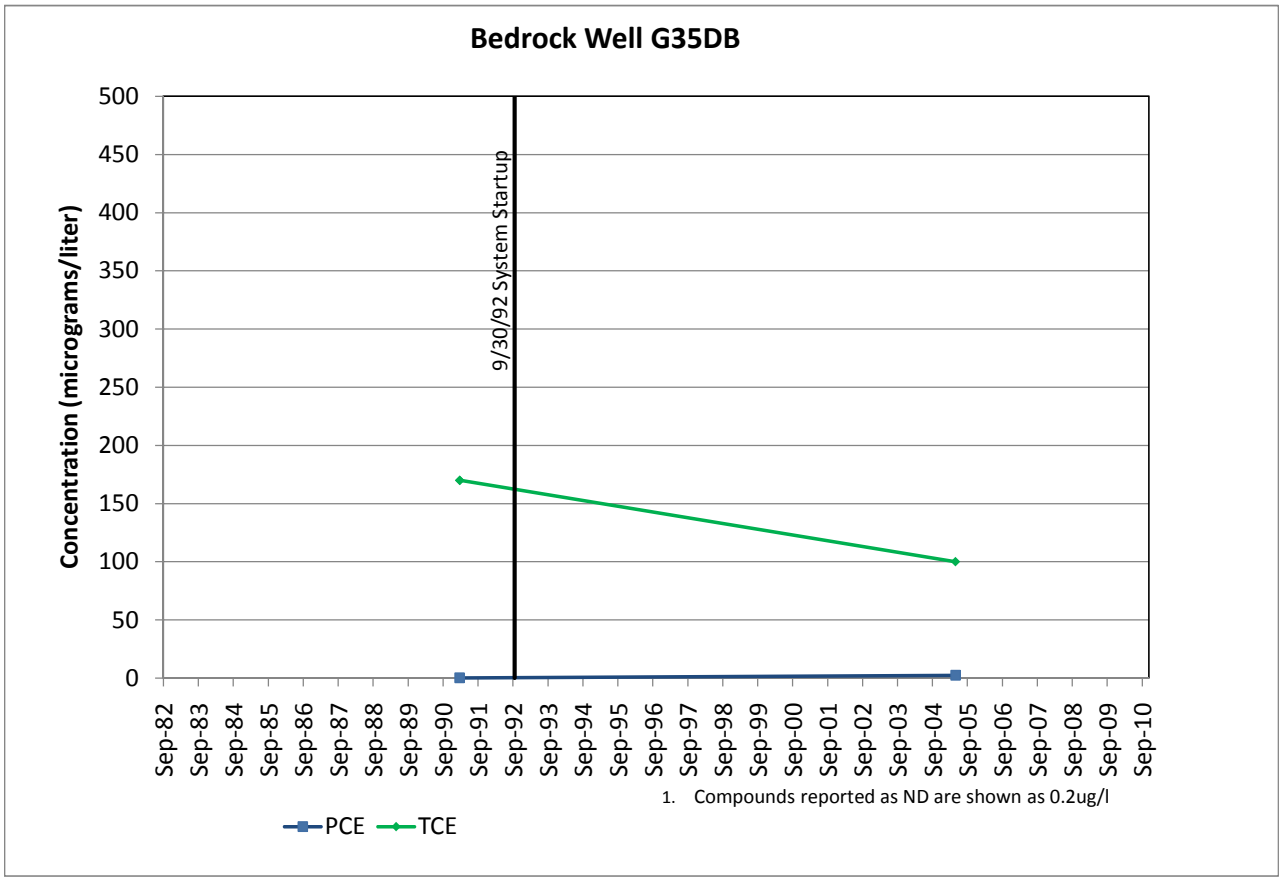

Unconsolidated Well G34S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

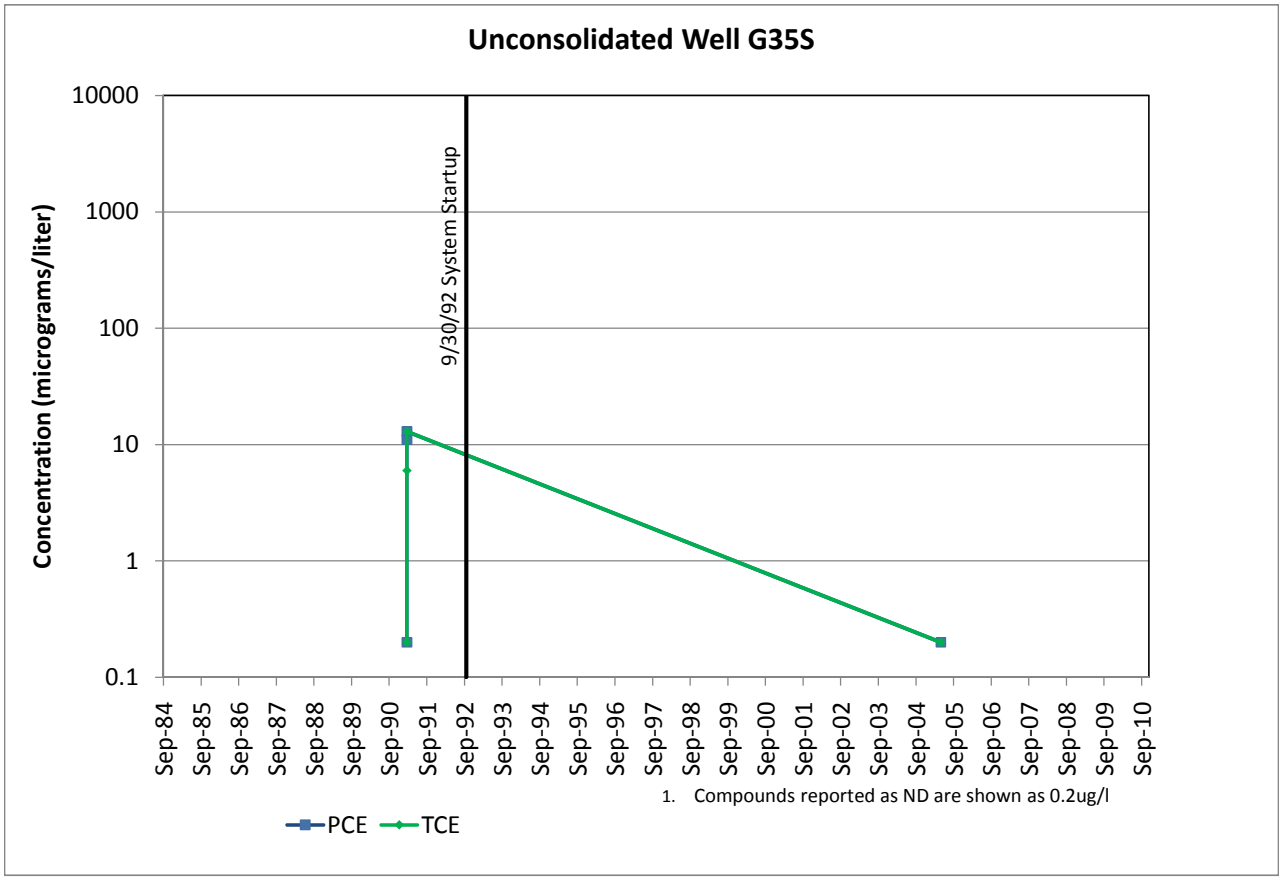

Unconsolidated Well G34S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

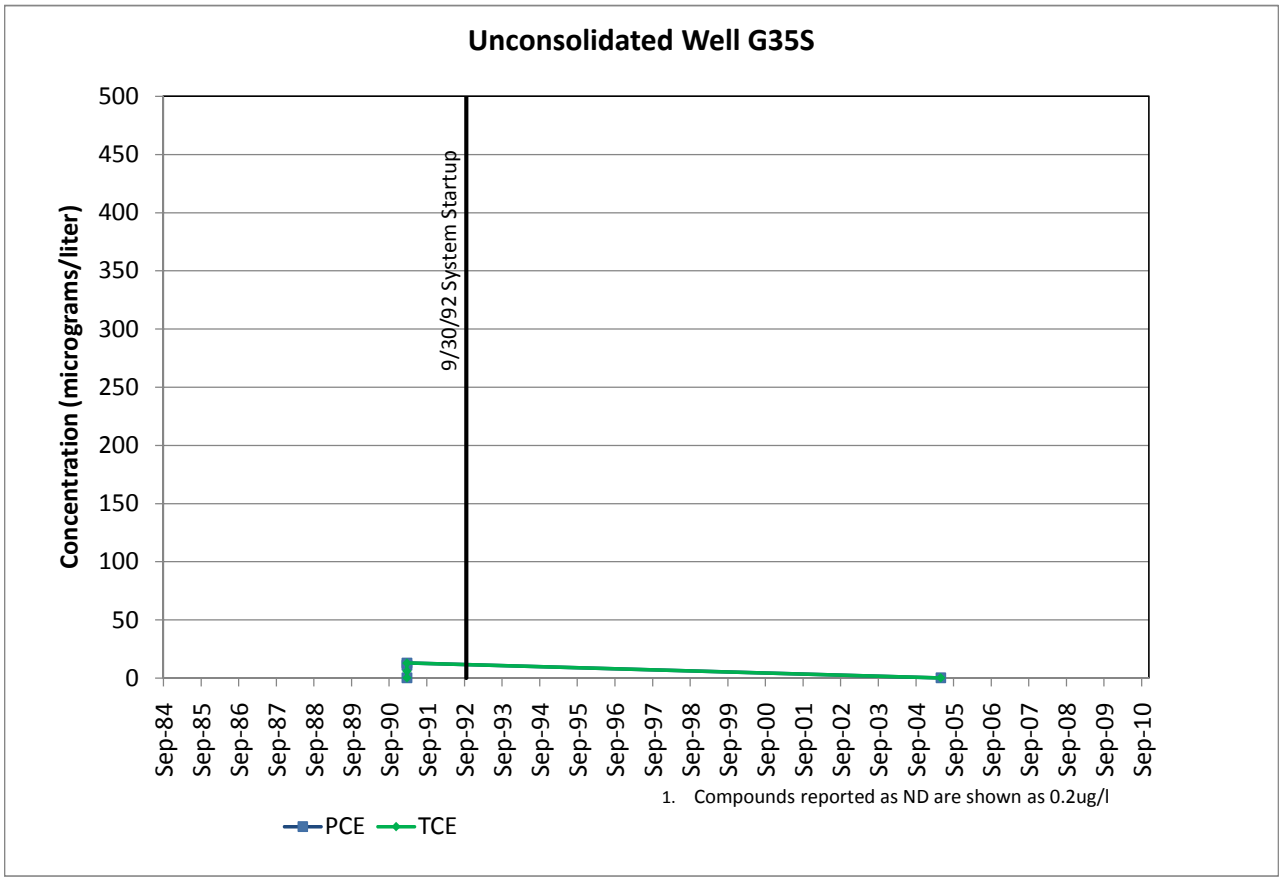

Bedrock Well G35D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

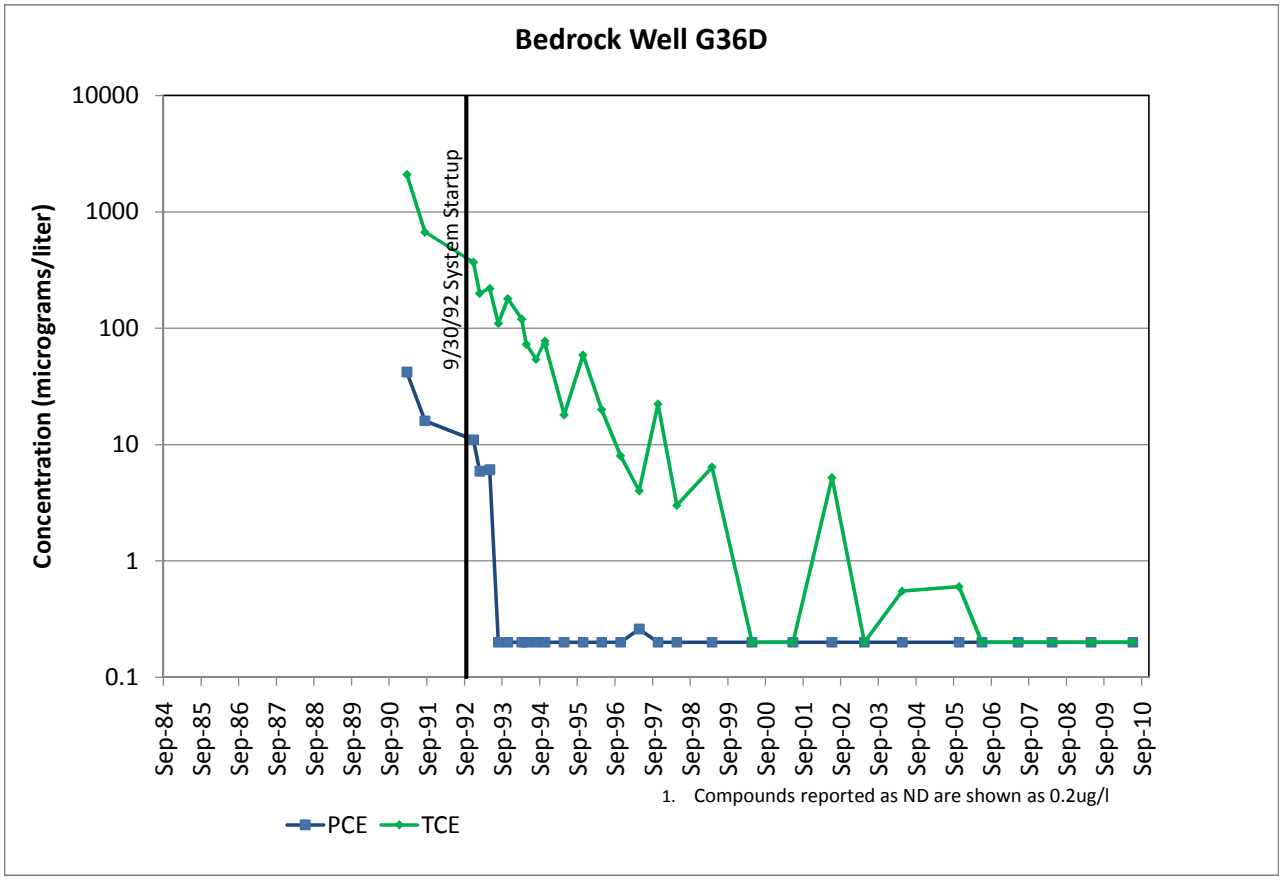

Bedrock Well G35D
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

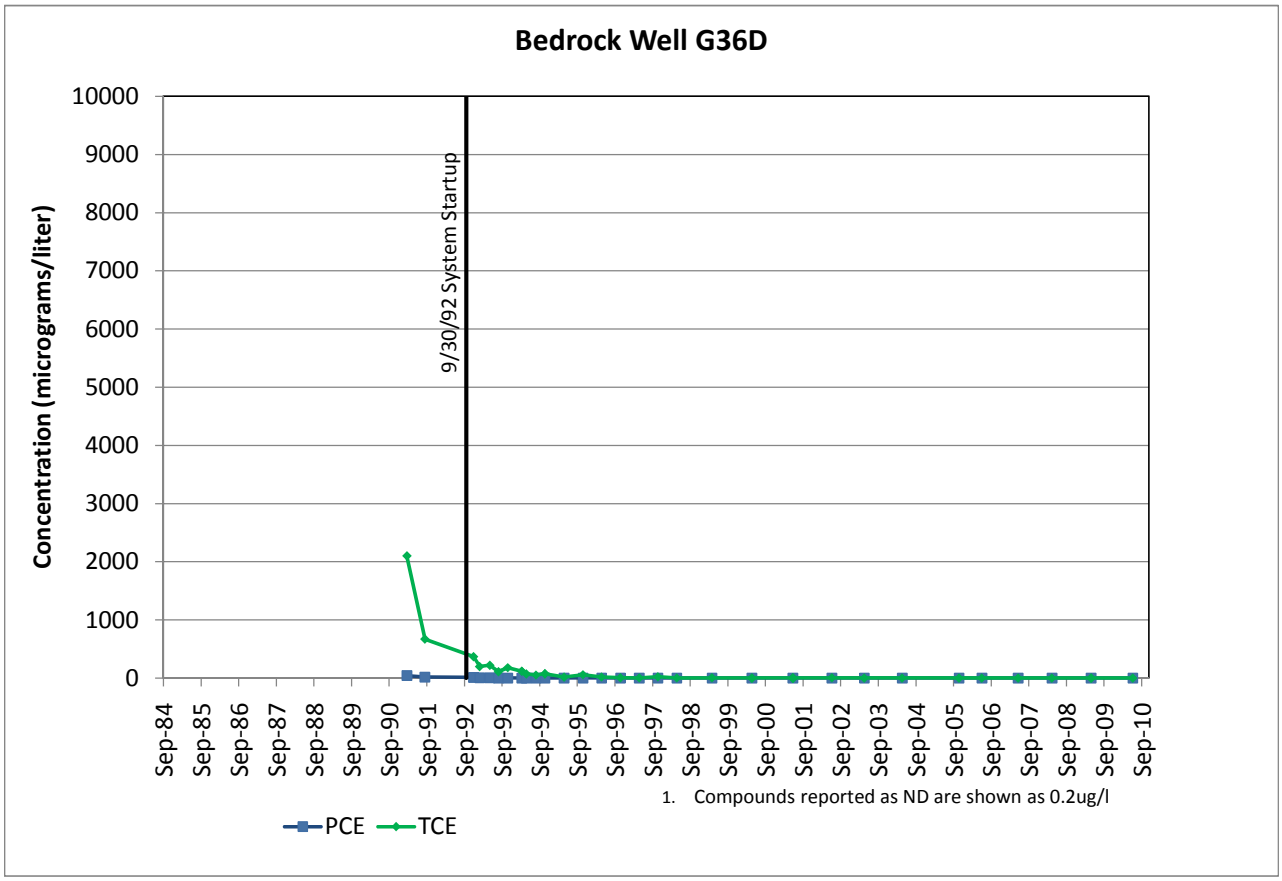

Bedrock Well G35DB
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

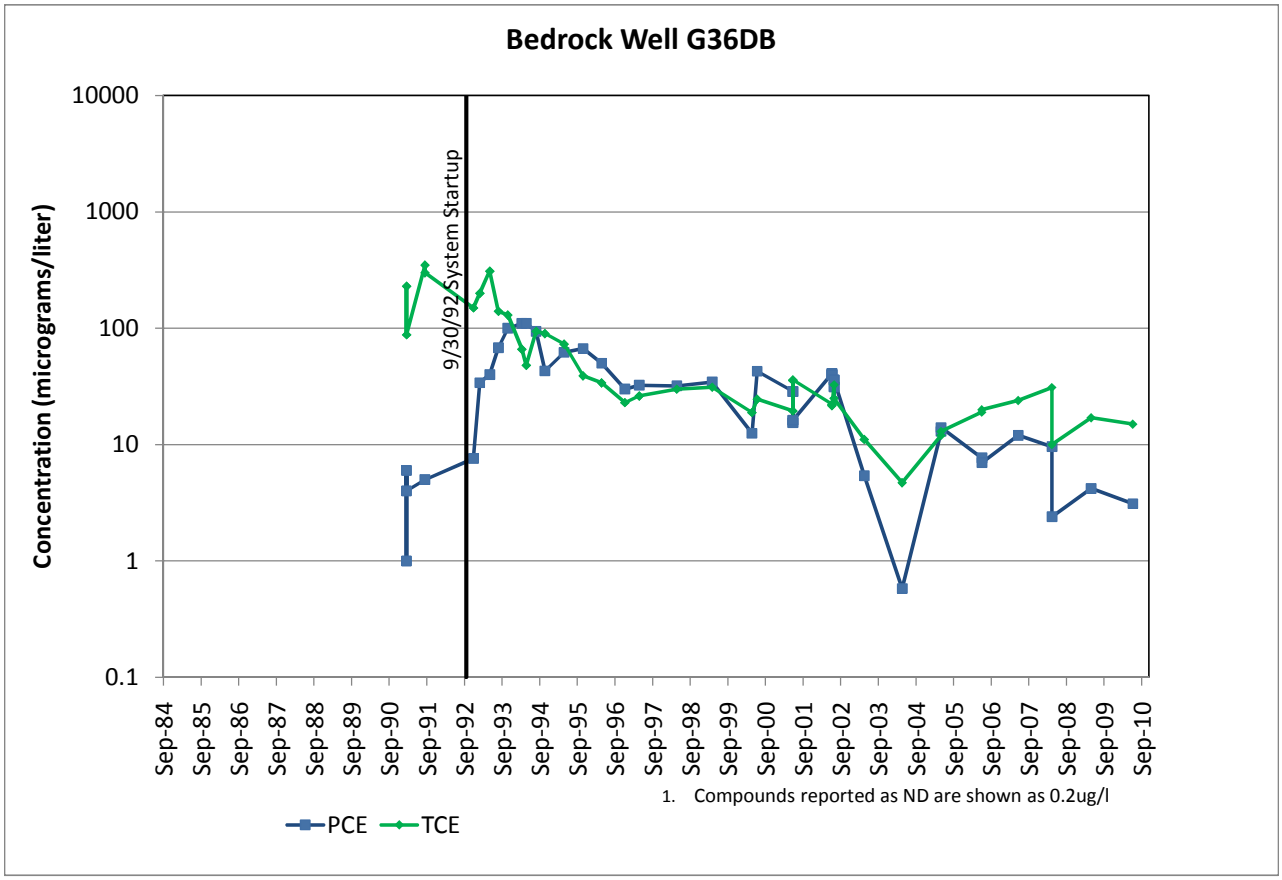

Bedrock Well G35DB
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

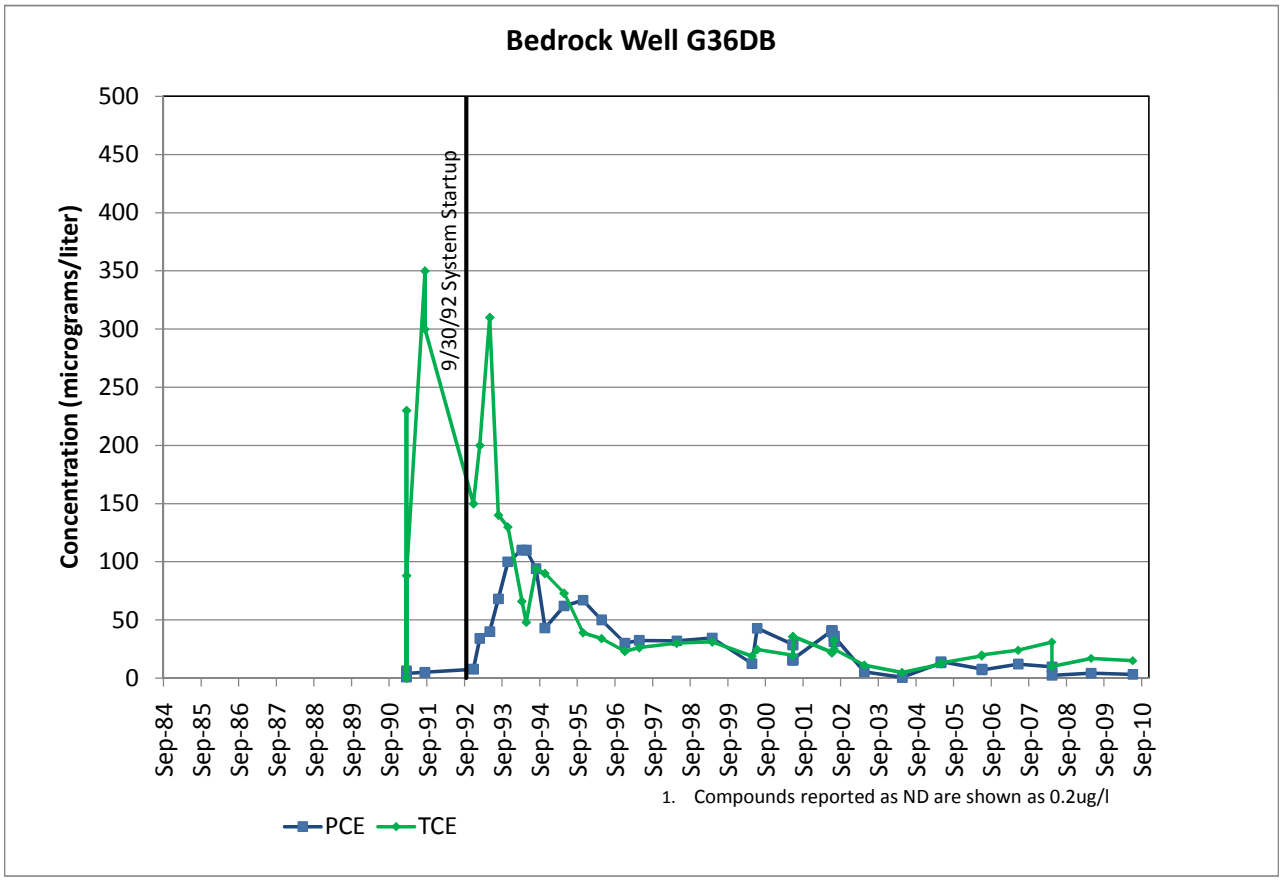

Unconsolidated Well G35S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

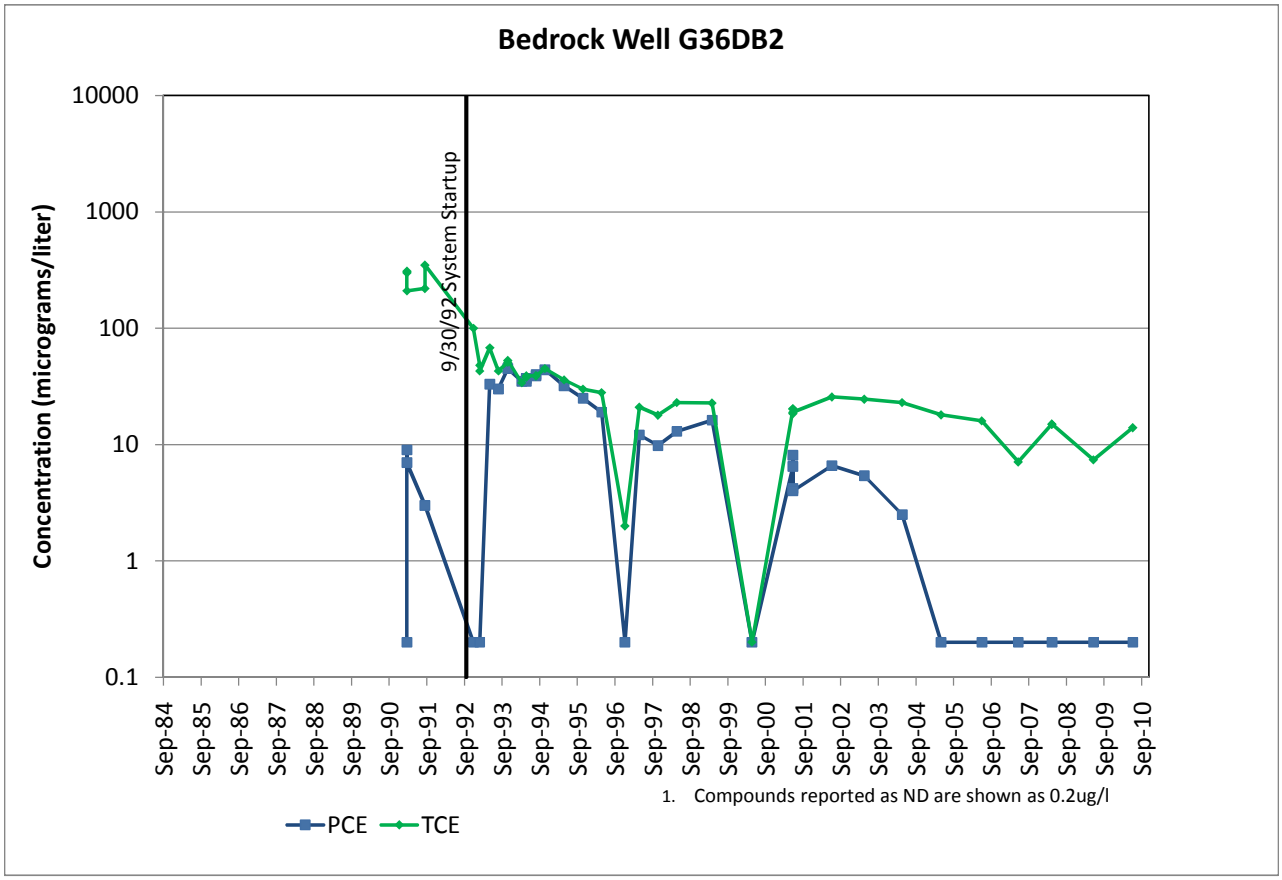

Unconsolidated Well G35S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

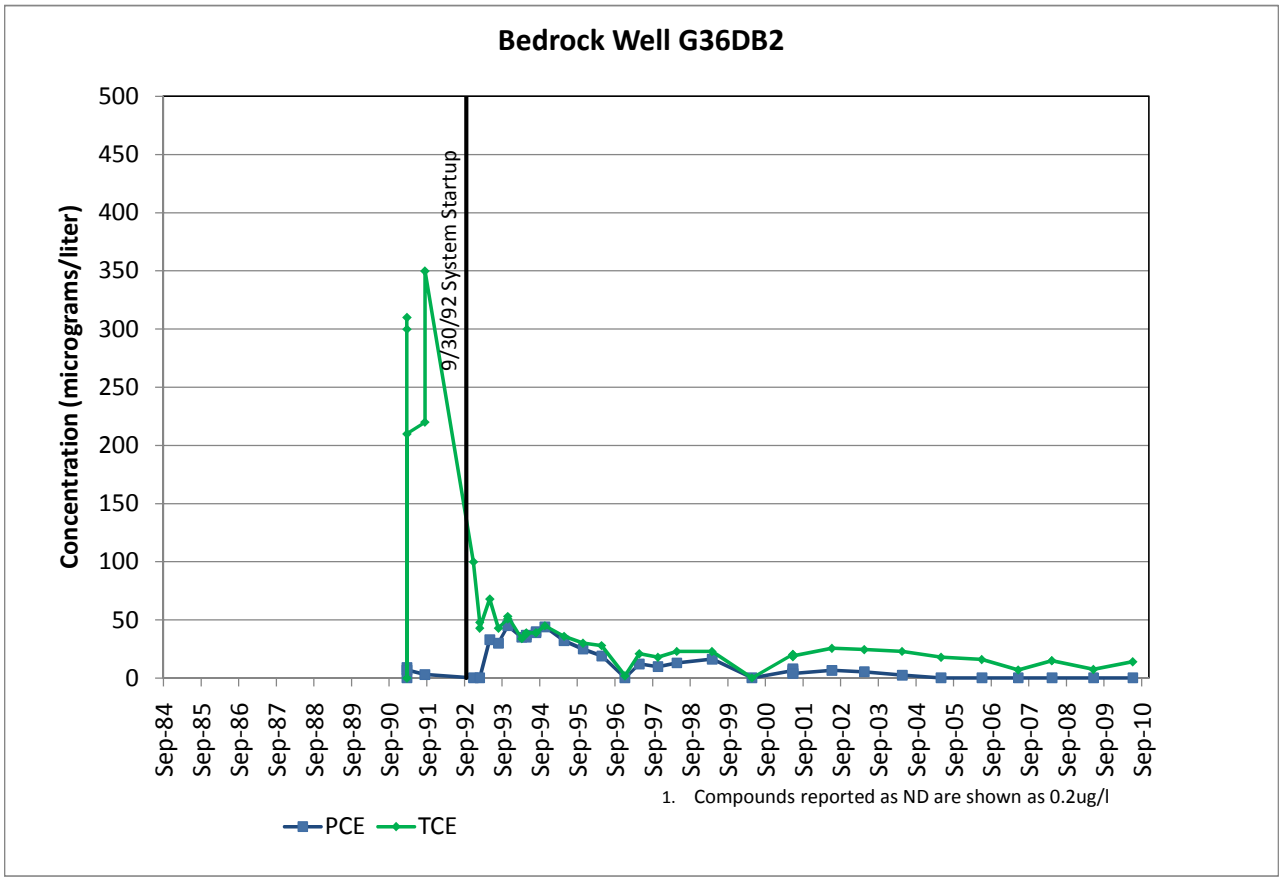

Bedrock Well G36D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

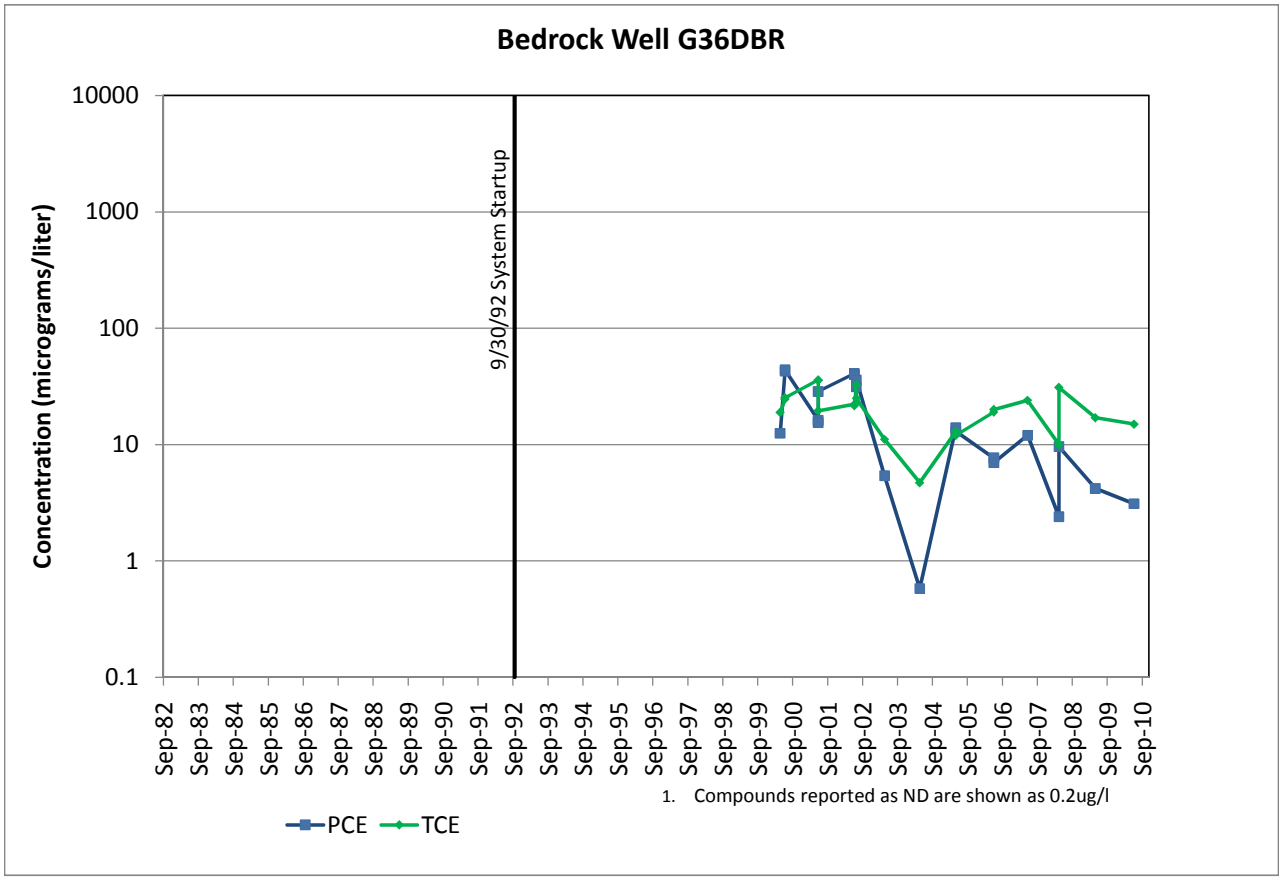

Bedrock Well G36D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

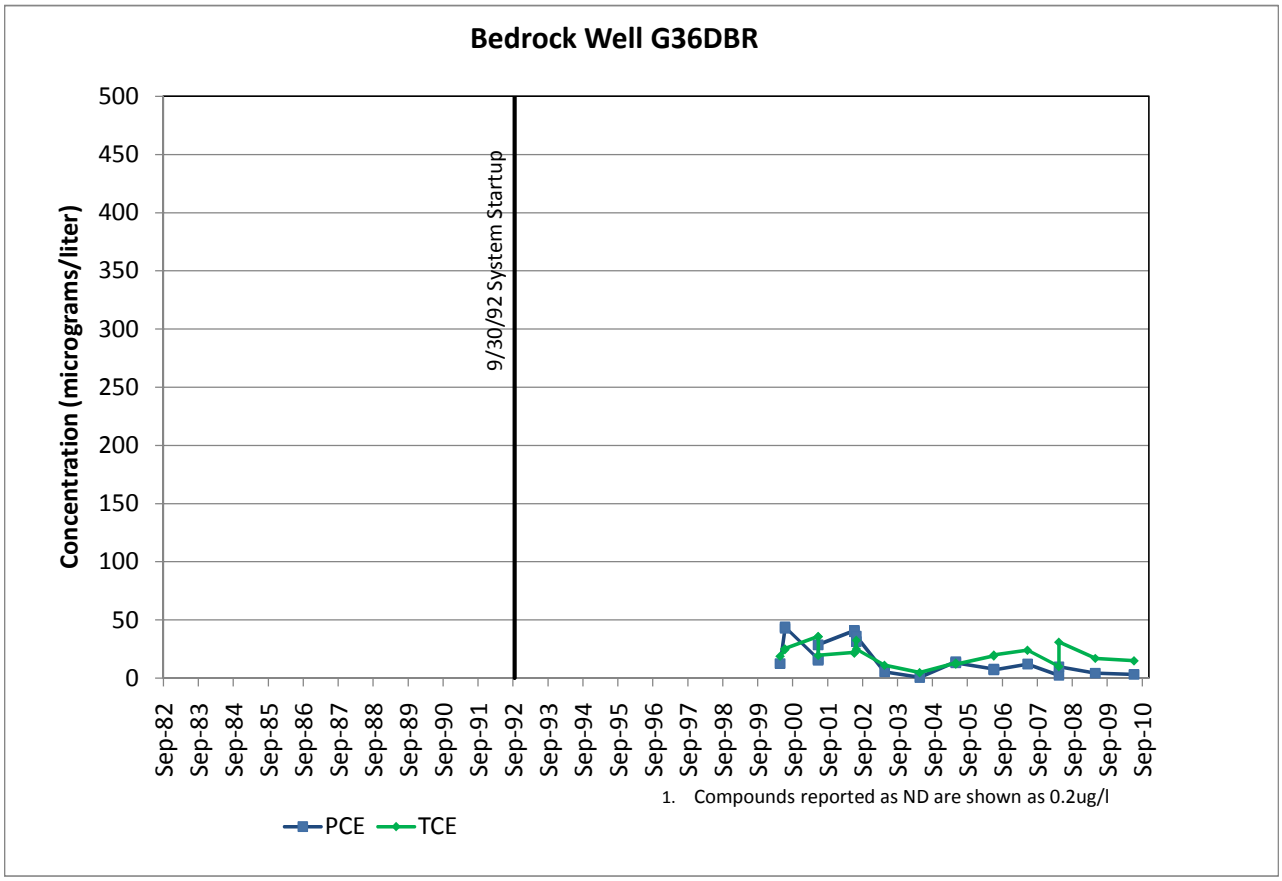

Bedrock Well G36DB
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

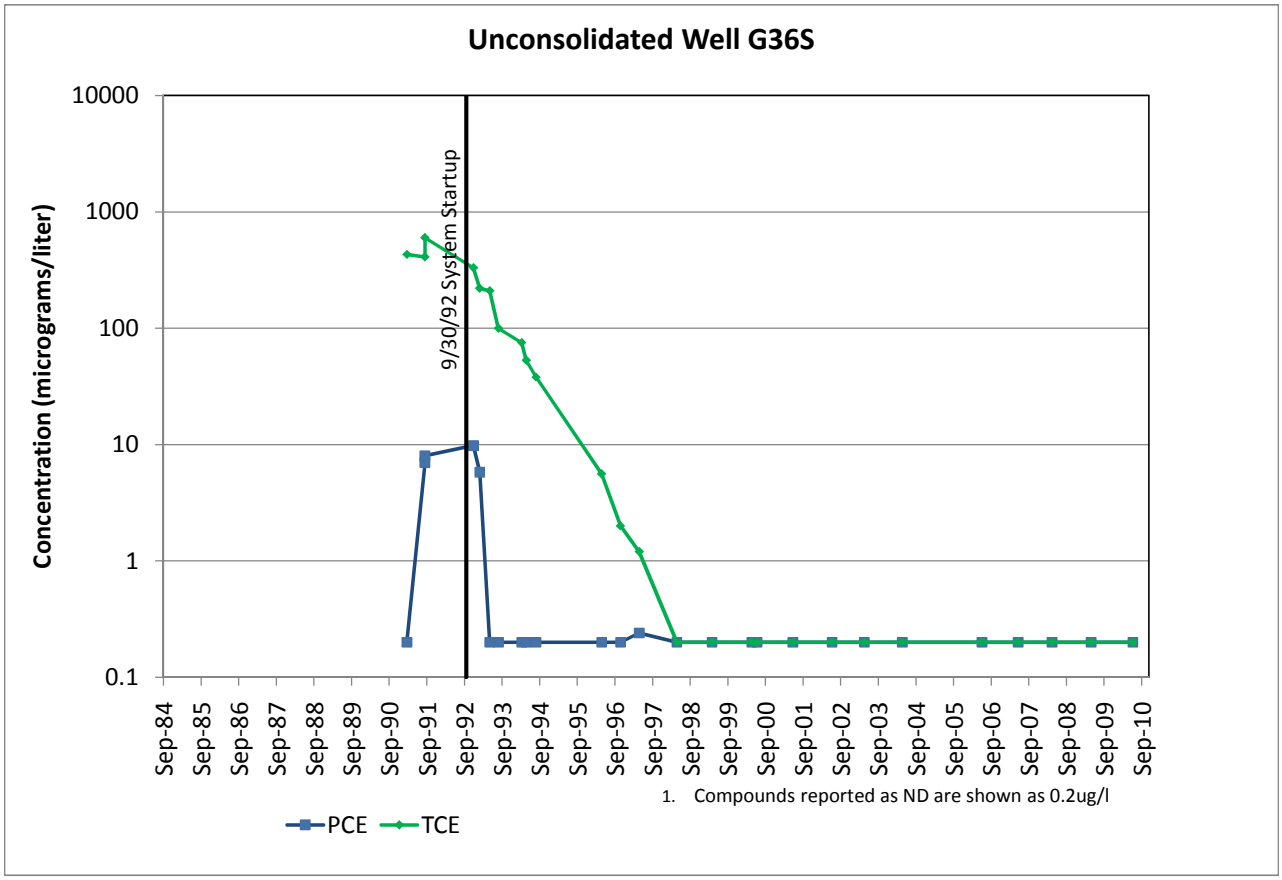

Bedrock Well G36DB
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

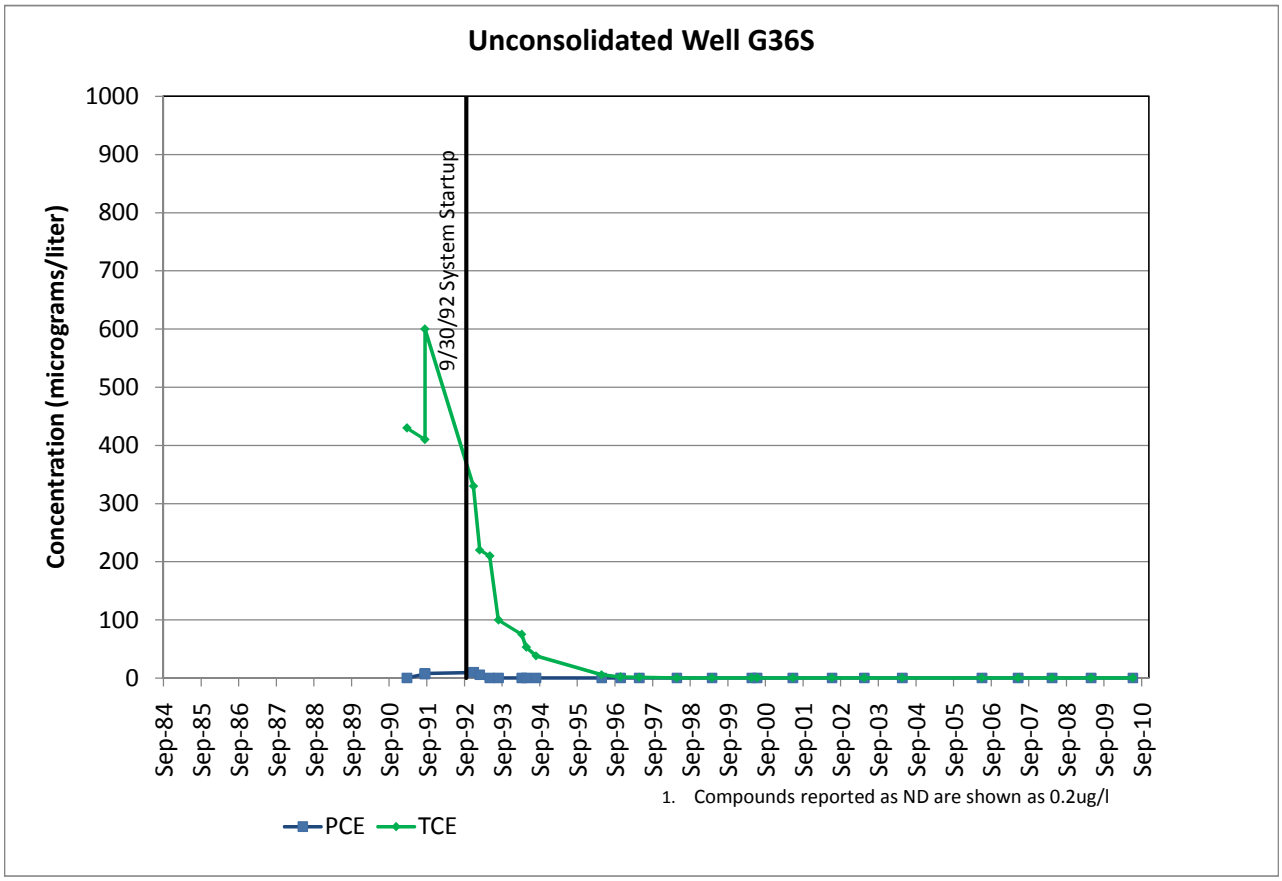

Bedrock Well G36DB2
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

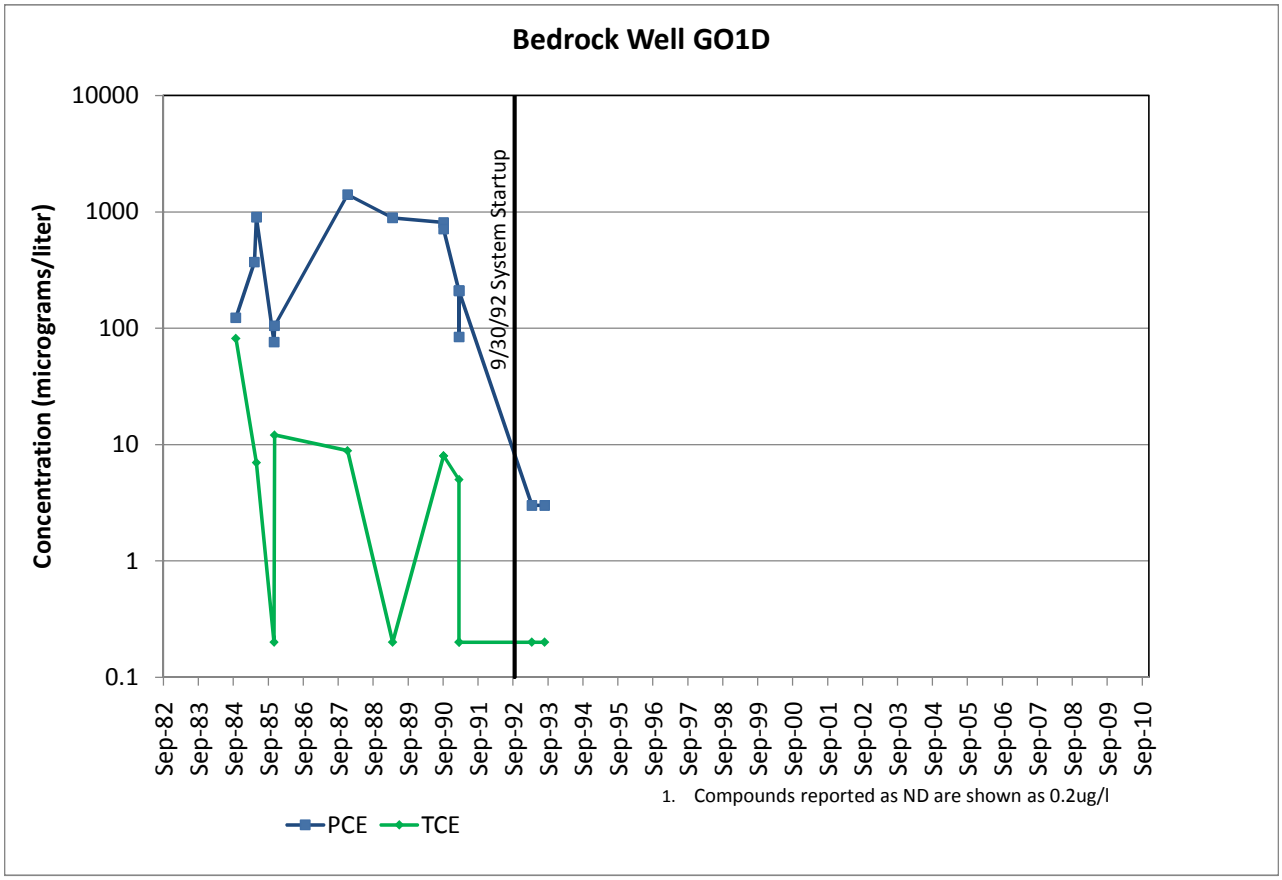

Bedrock Well G36DB2
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

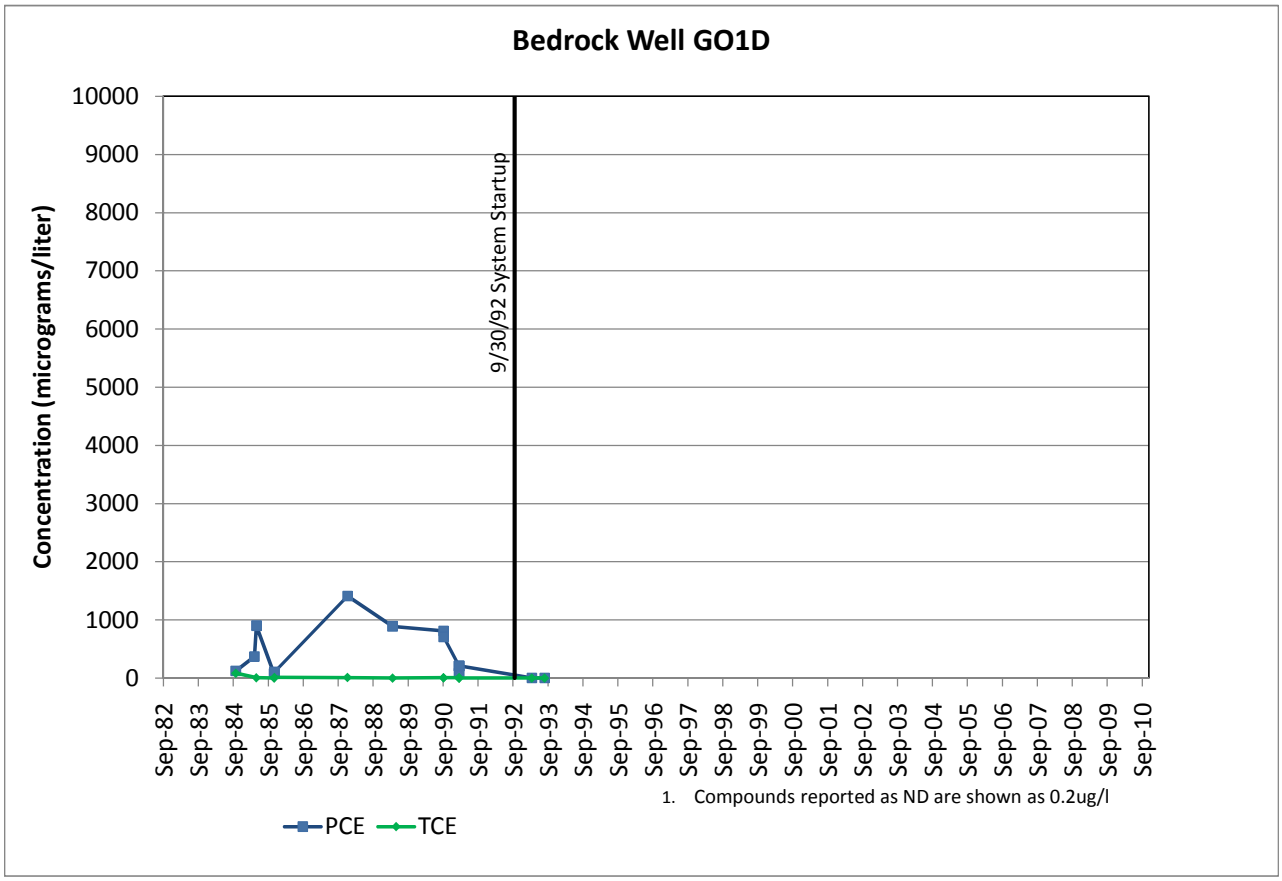

Bedrock Well G36DBR
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

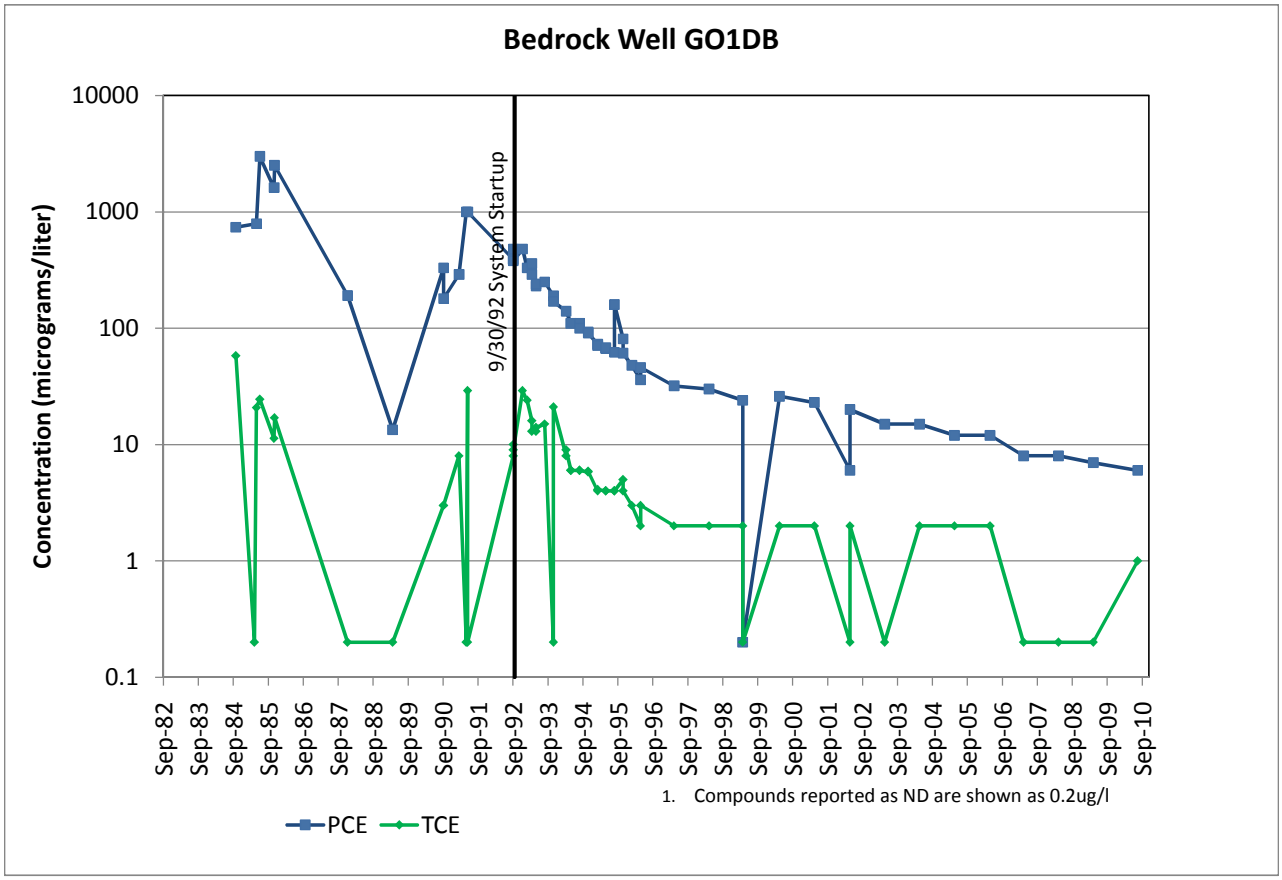

Bedrock Well G36DBR
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

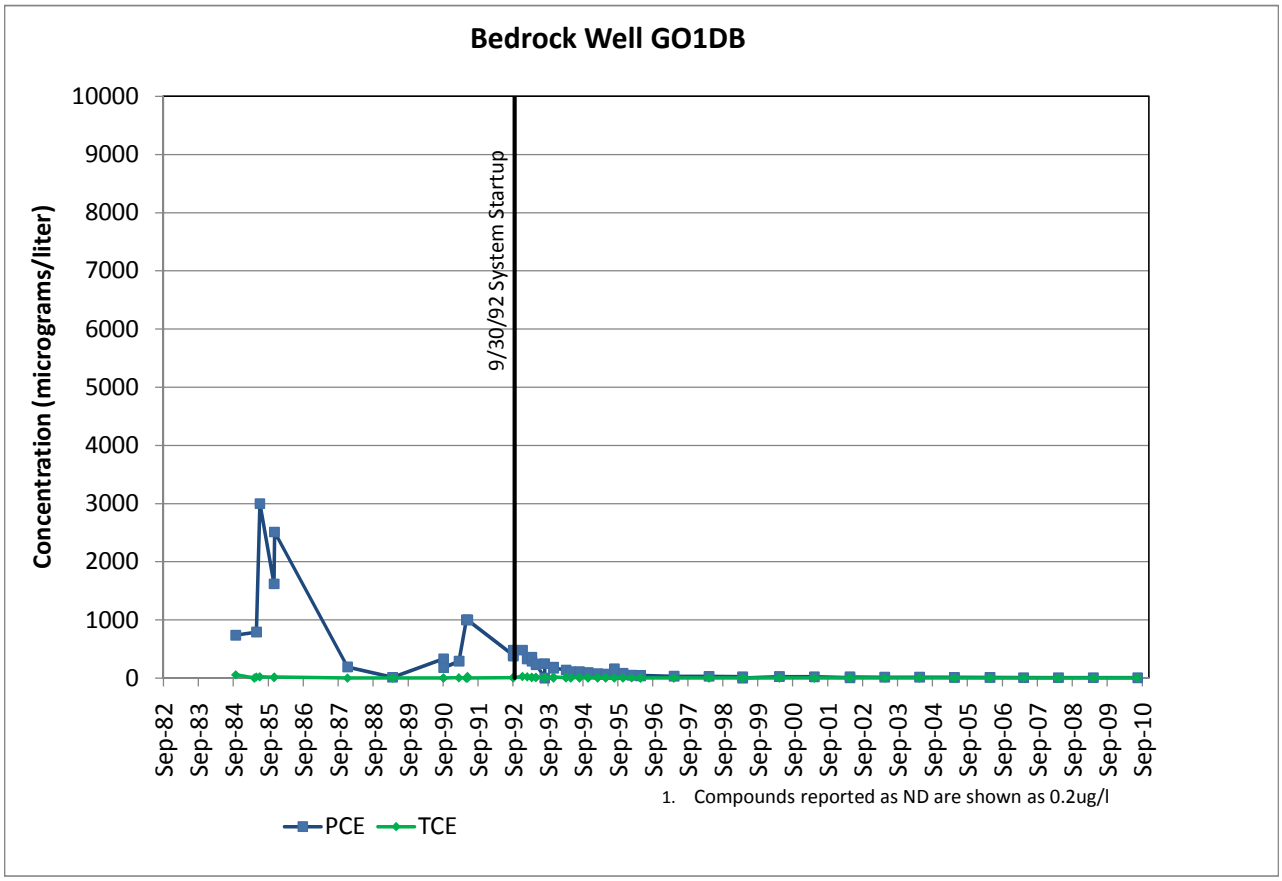

Unconsolidated Well G36S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

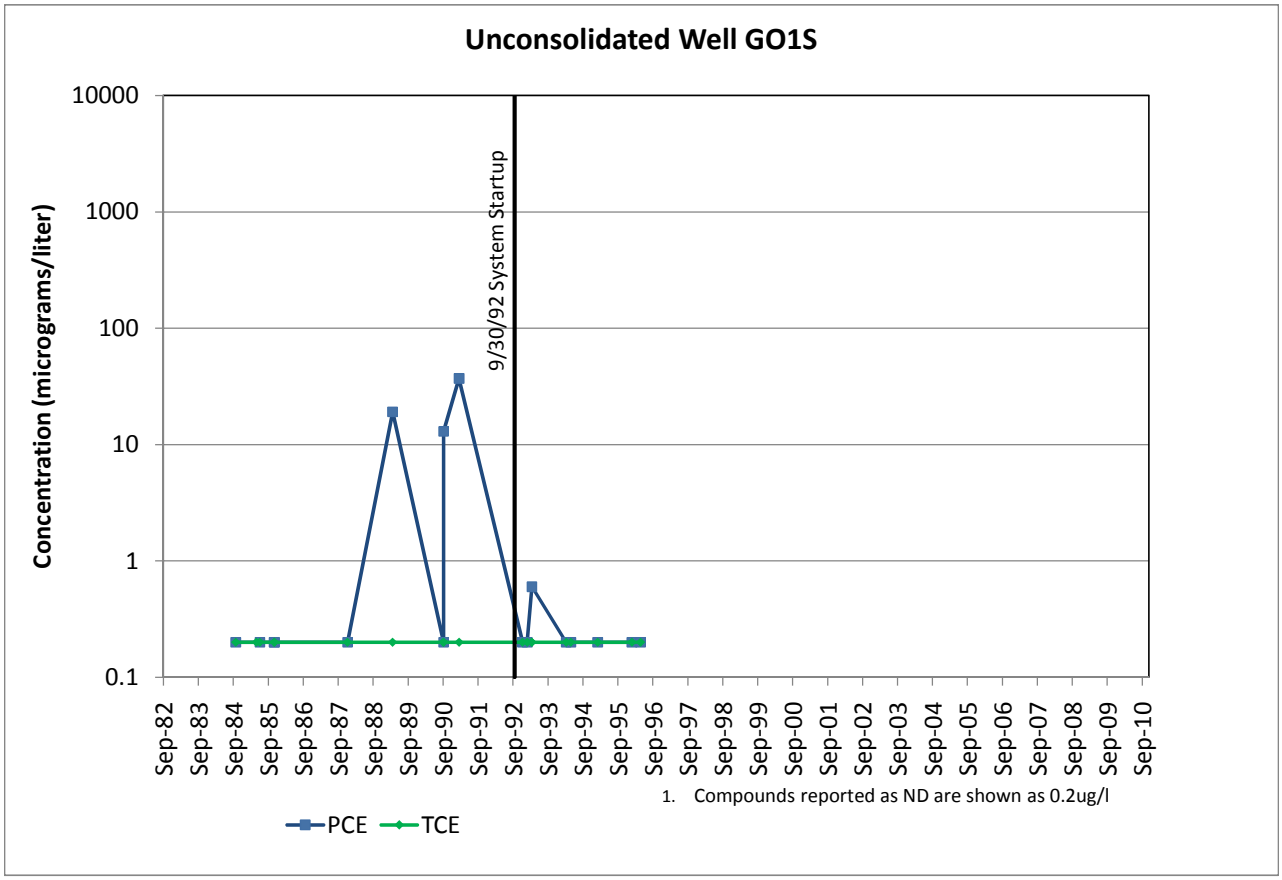

Unconsolidated Well G36S
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

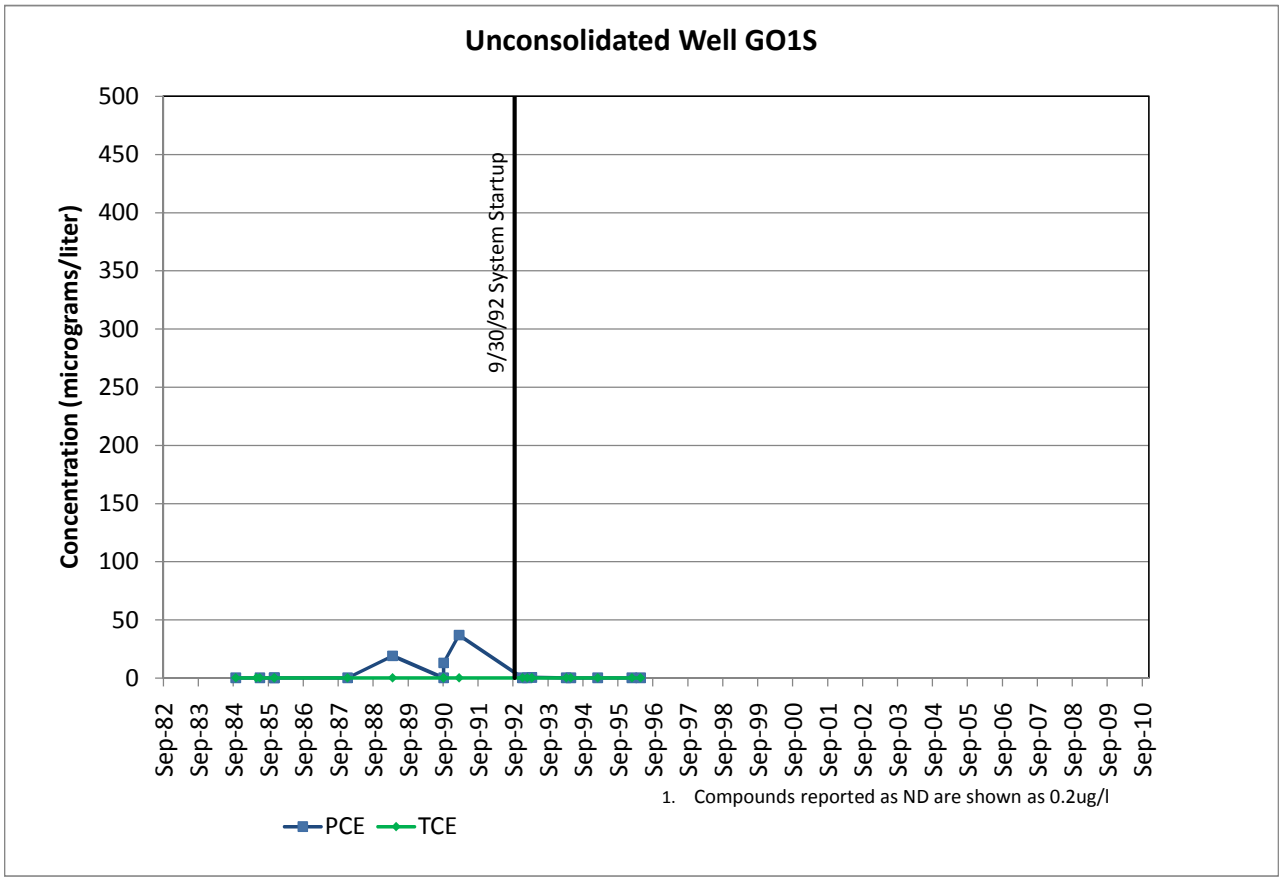

Bedrock Well GO1D
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

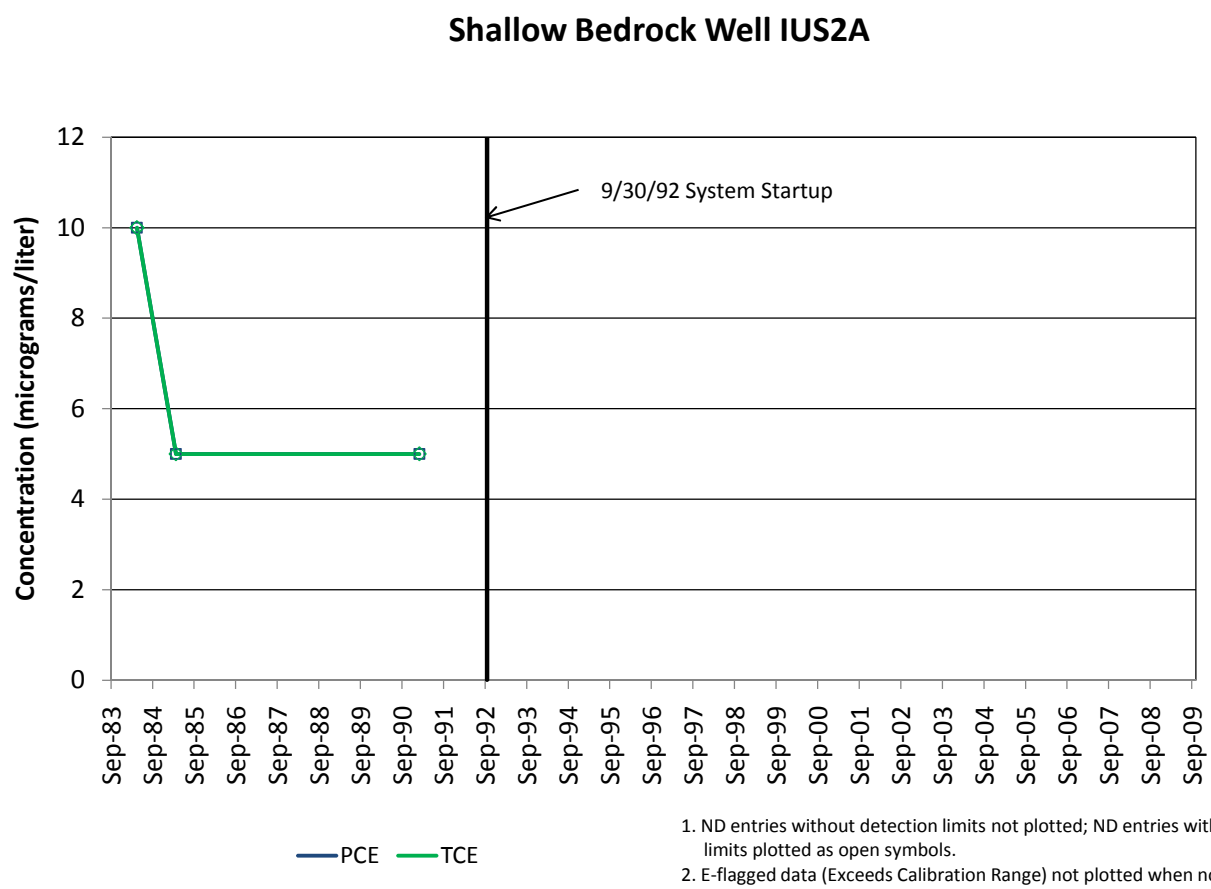

Bedrock Well GO1D
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE


Bedrock Well GO1DB
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

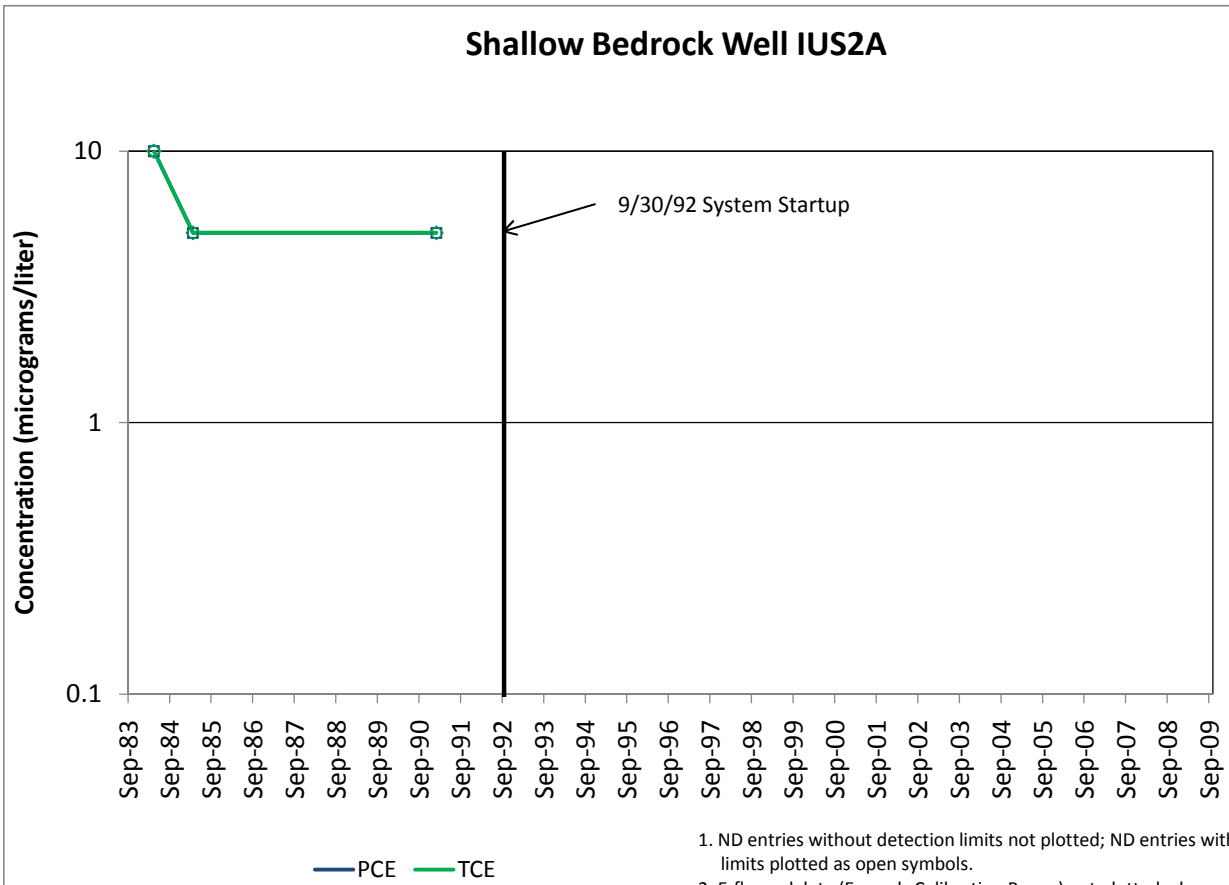

Bedrock Well GO1DB
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE


Unconsolidated Well GO1S
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

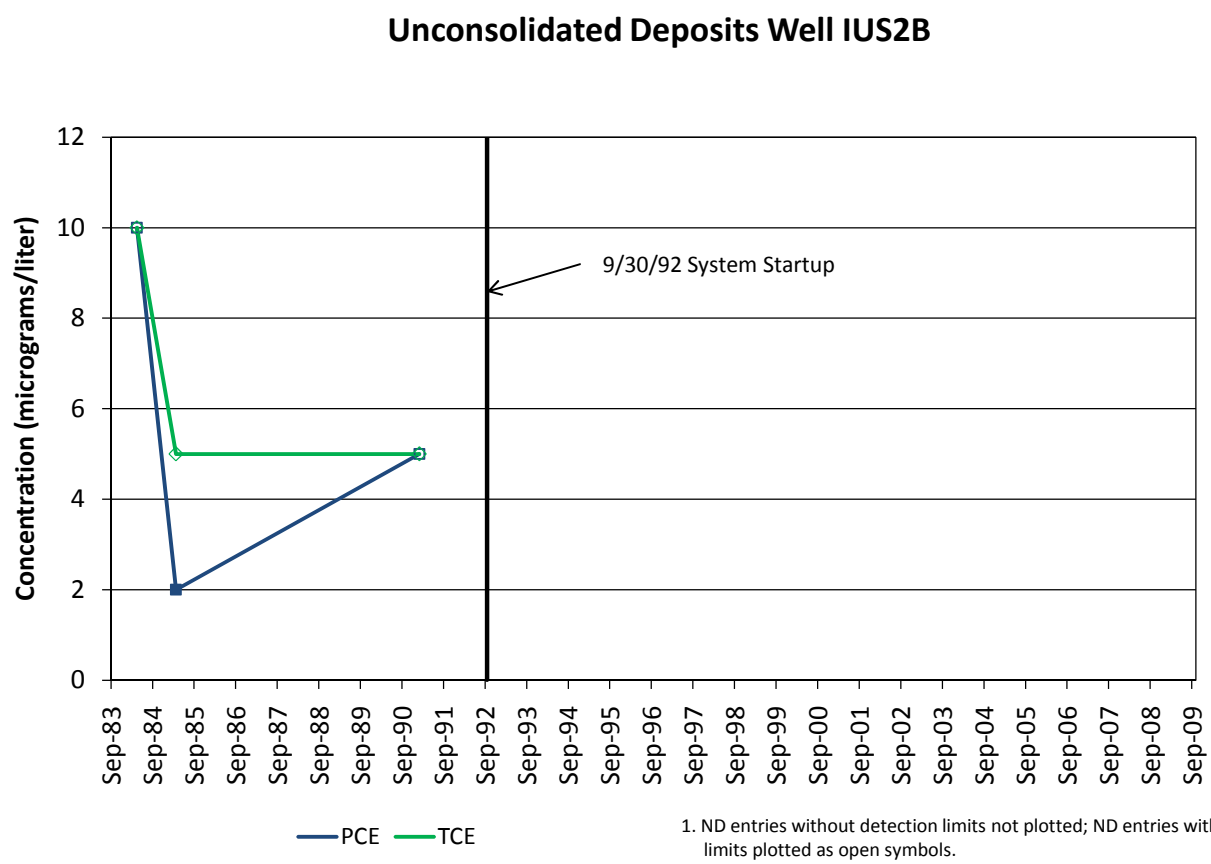

Unconsolidated Well GO1S
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE



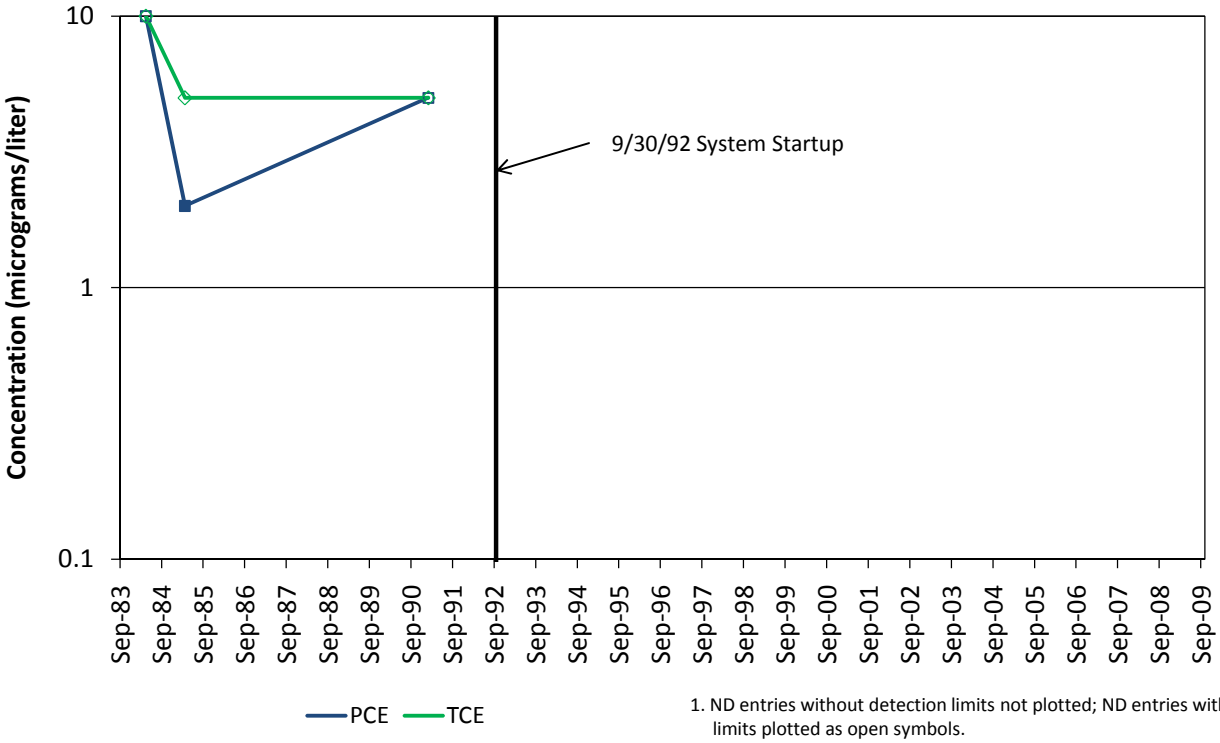
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



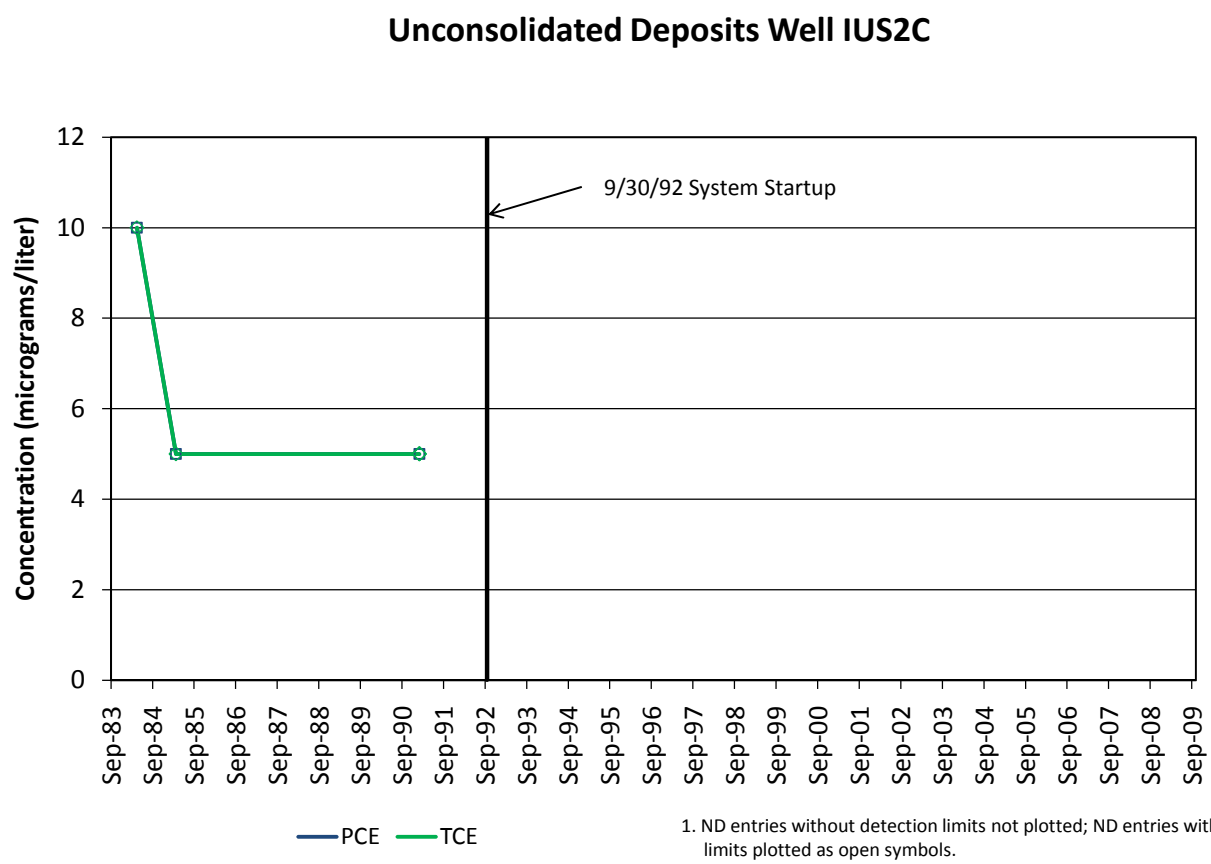
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



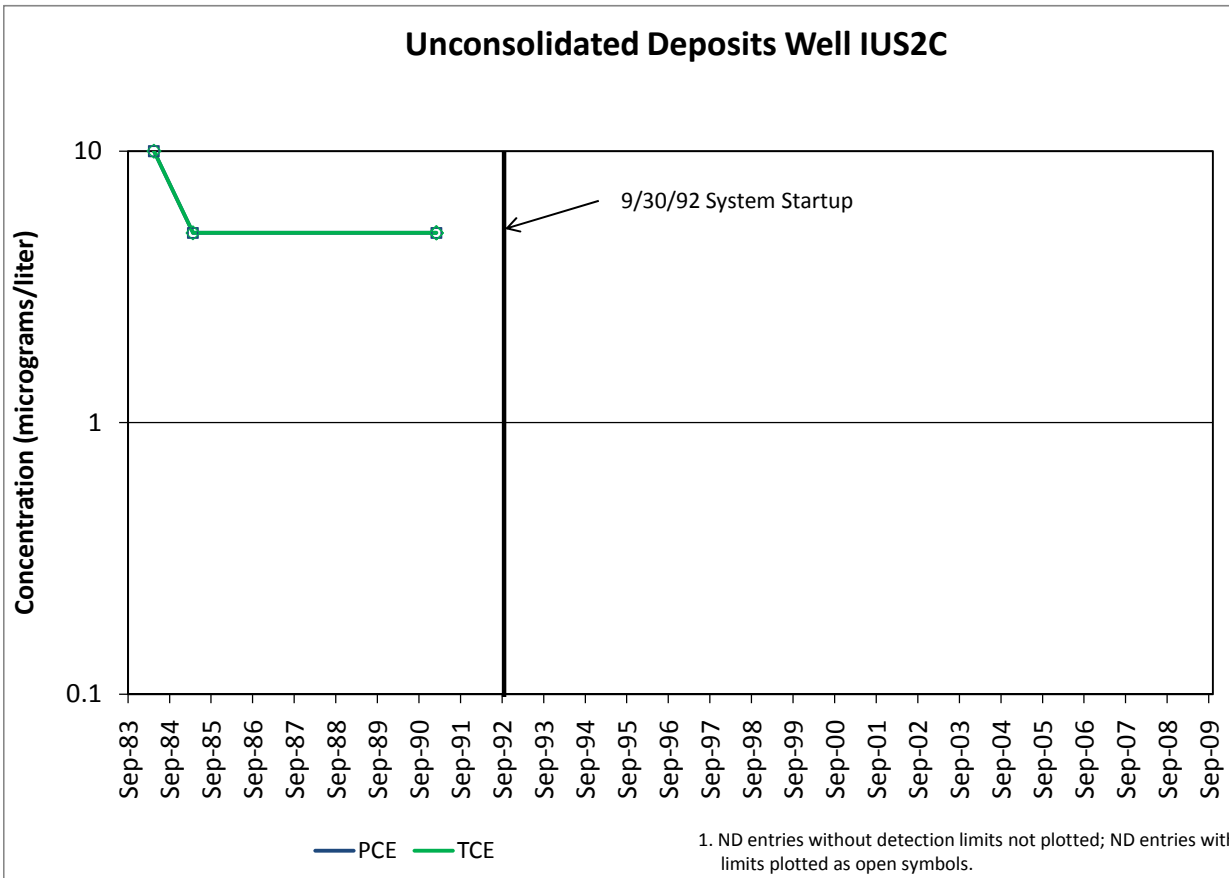
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



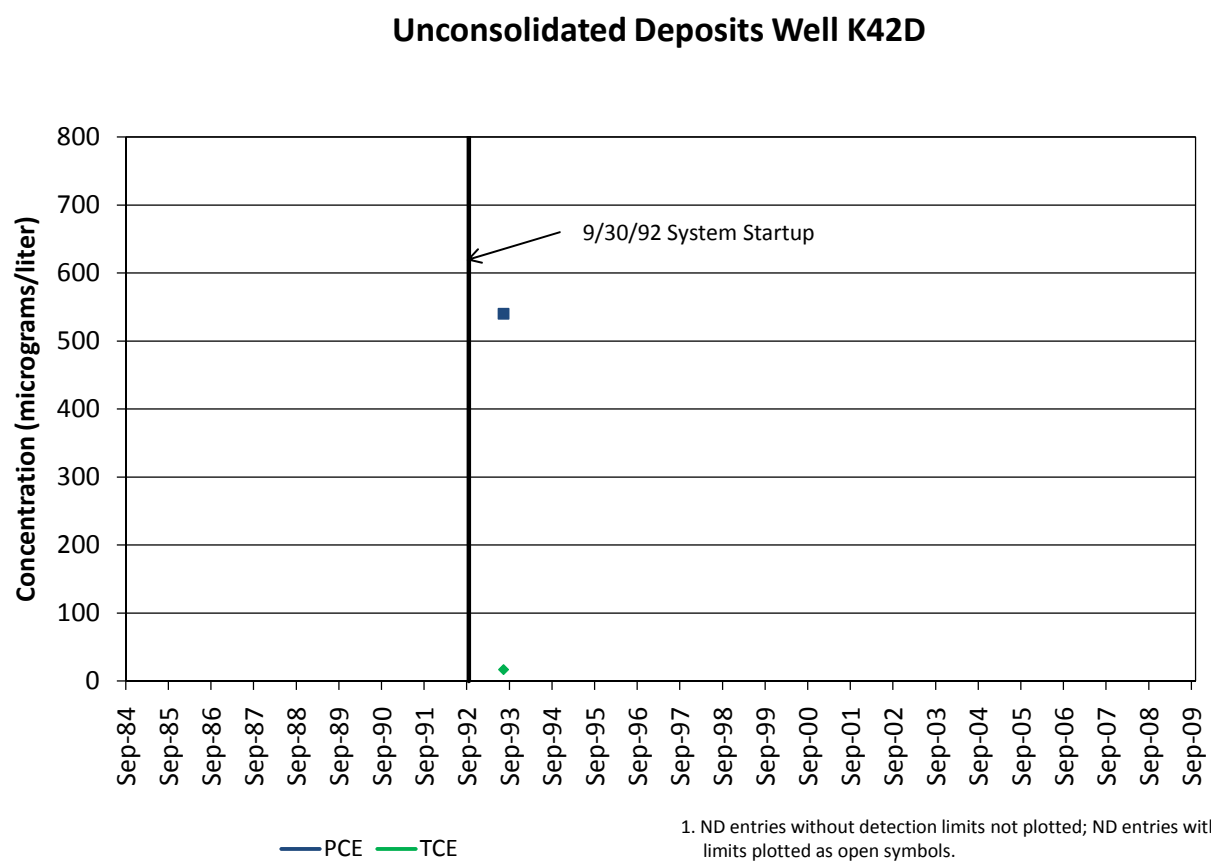
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



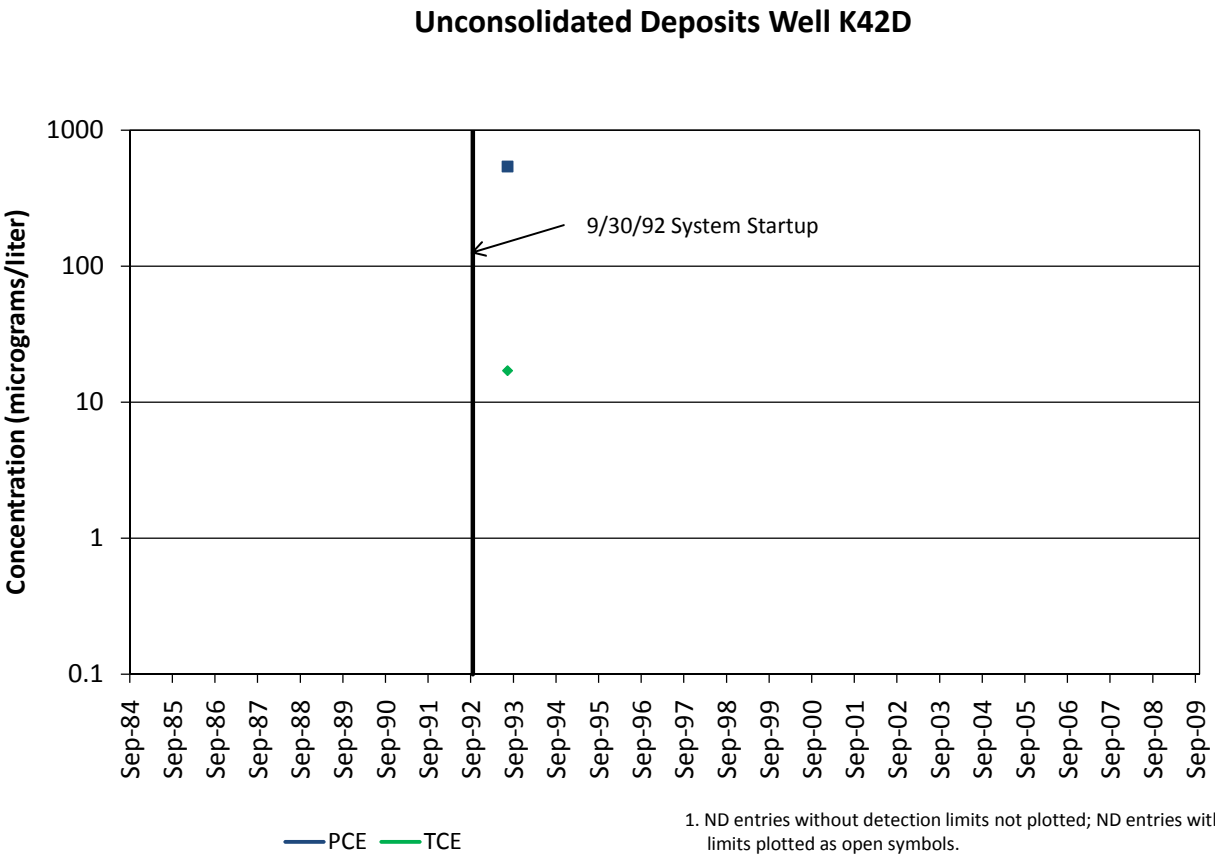
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



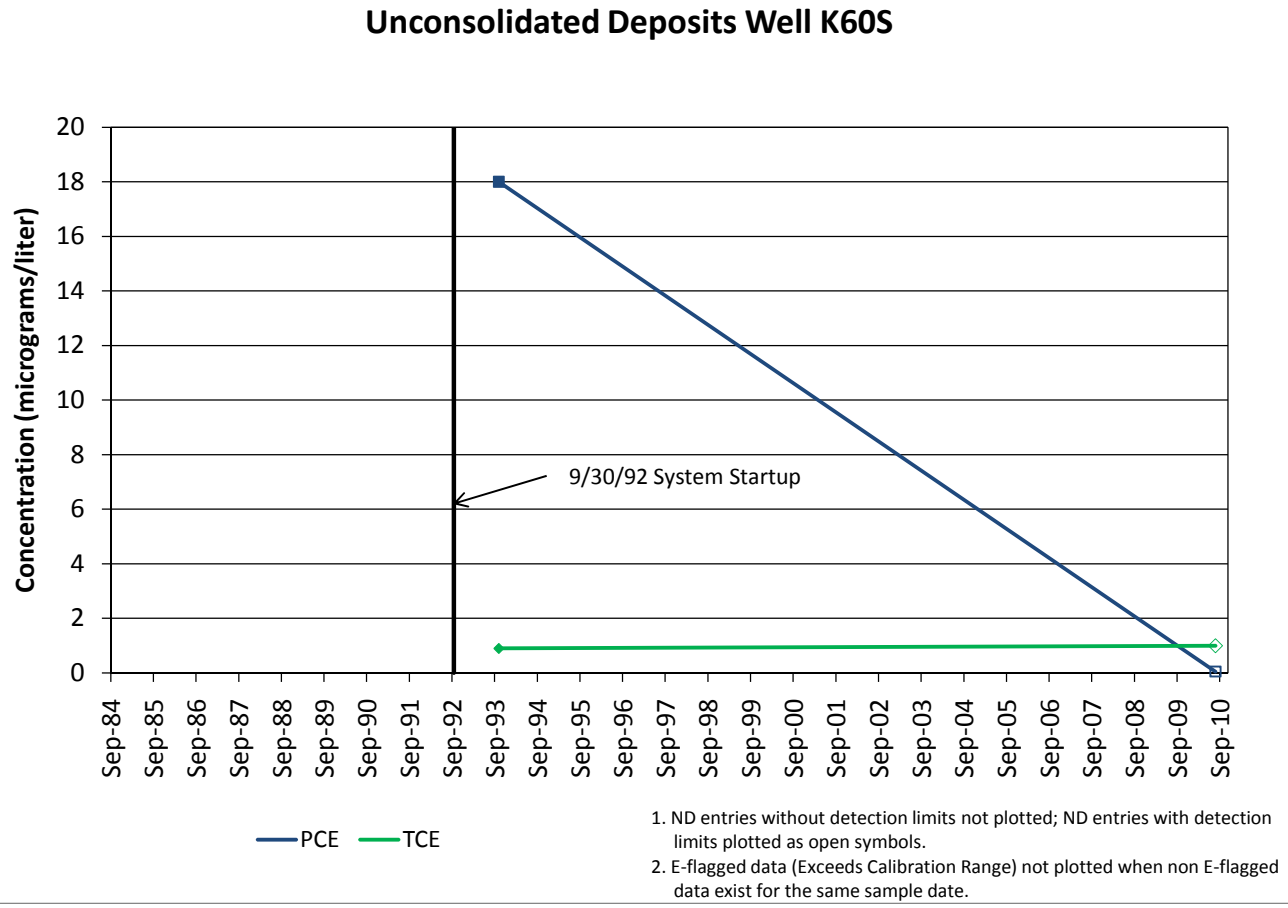
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



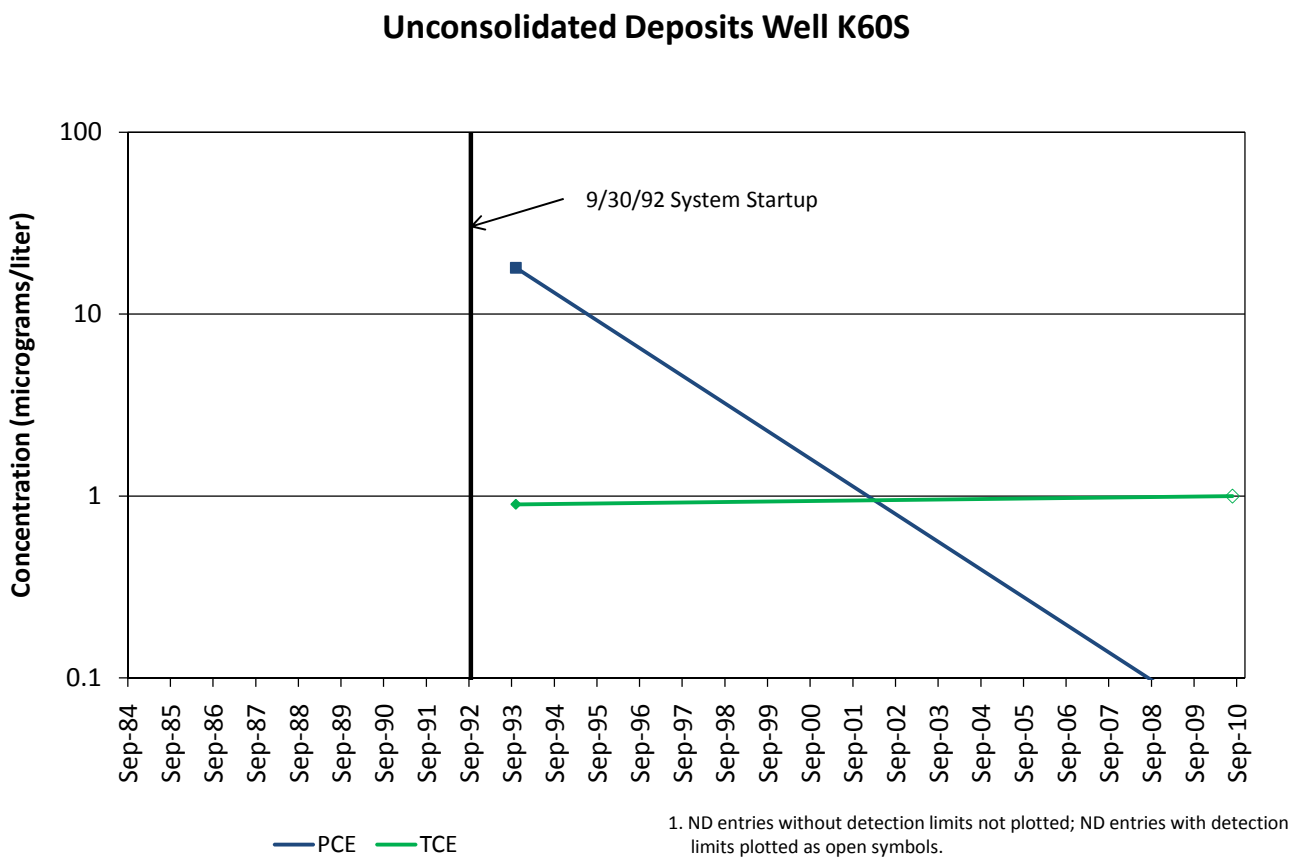
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



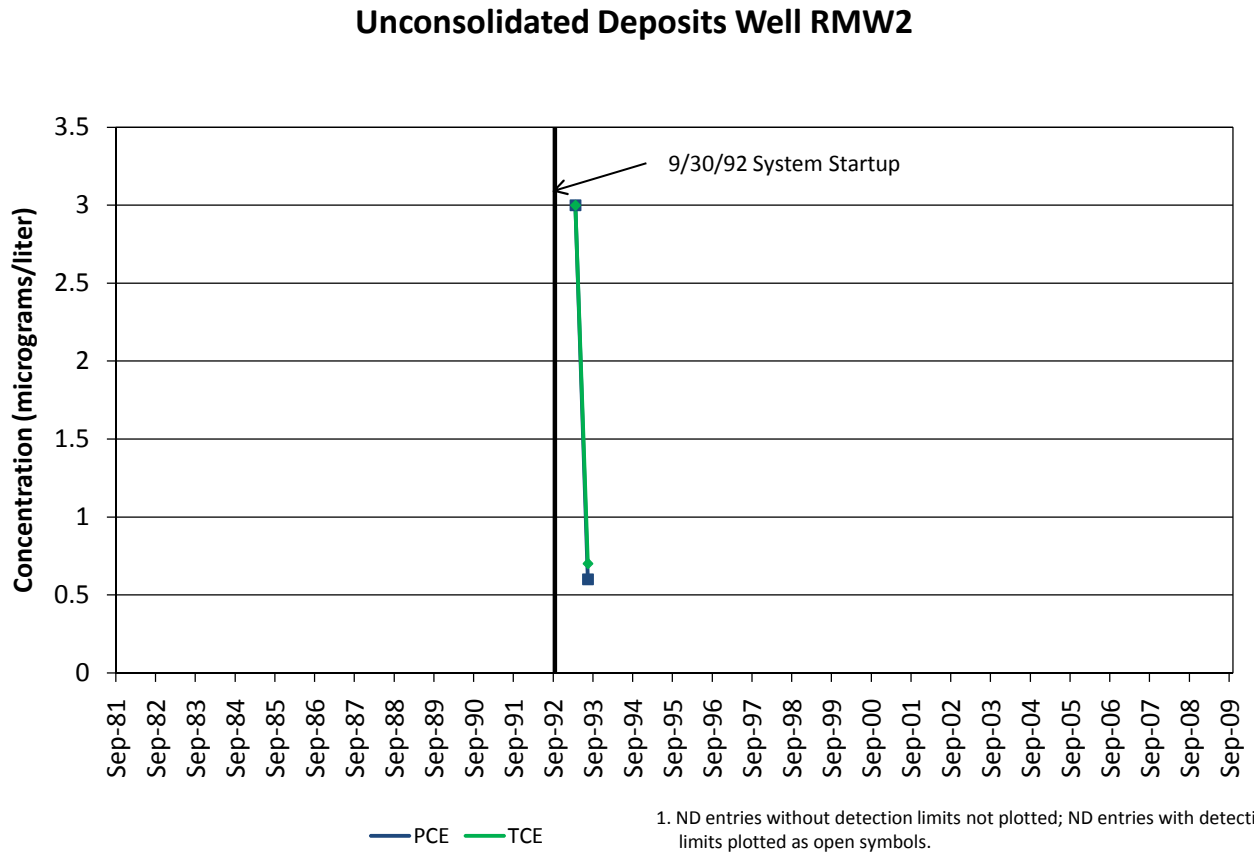
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



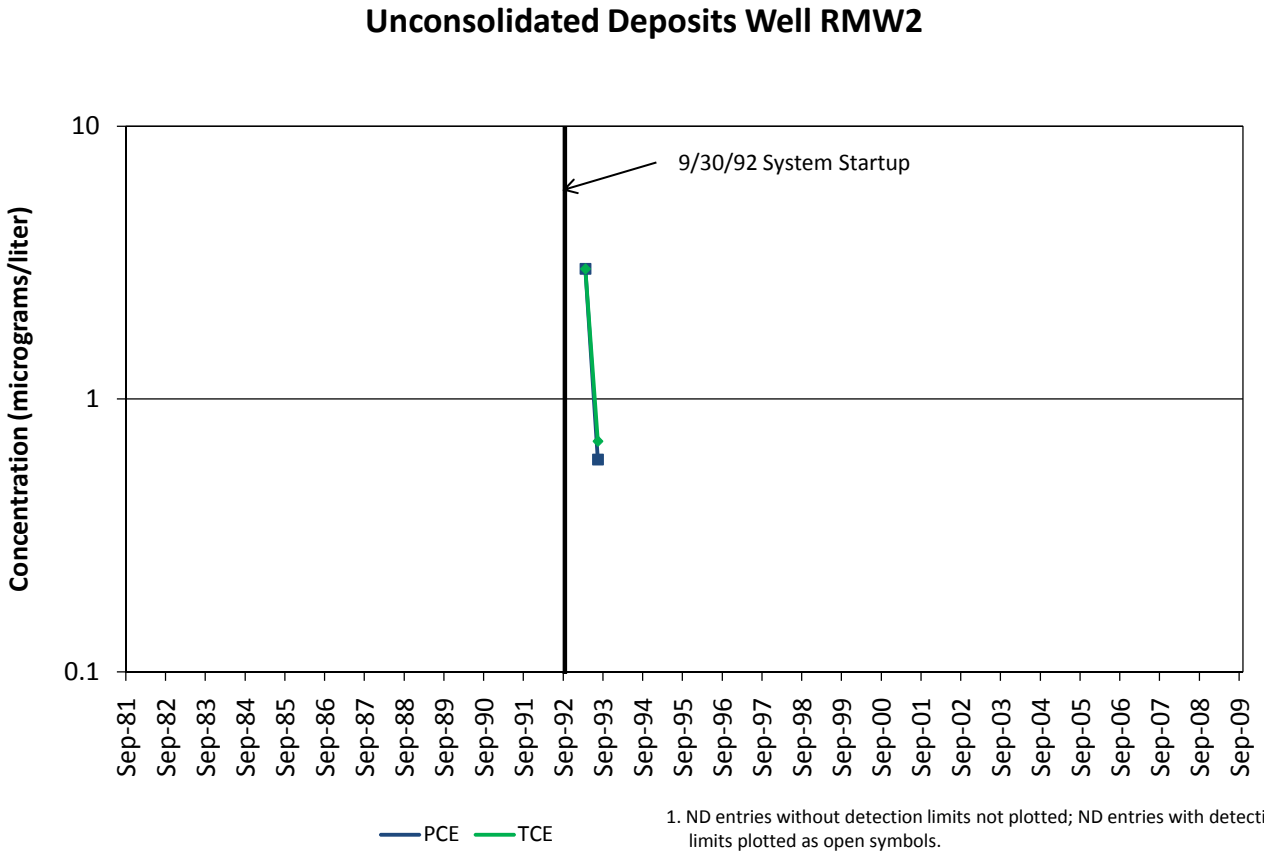
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



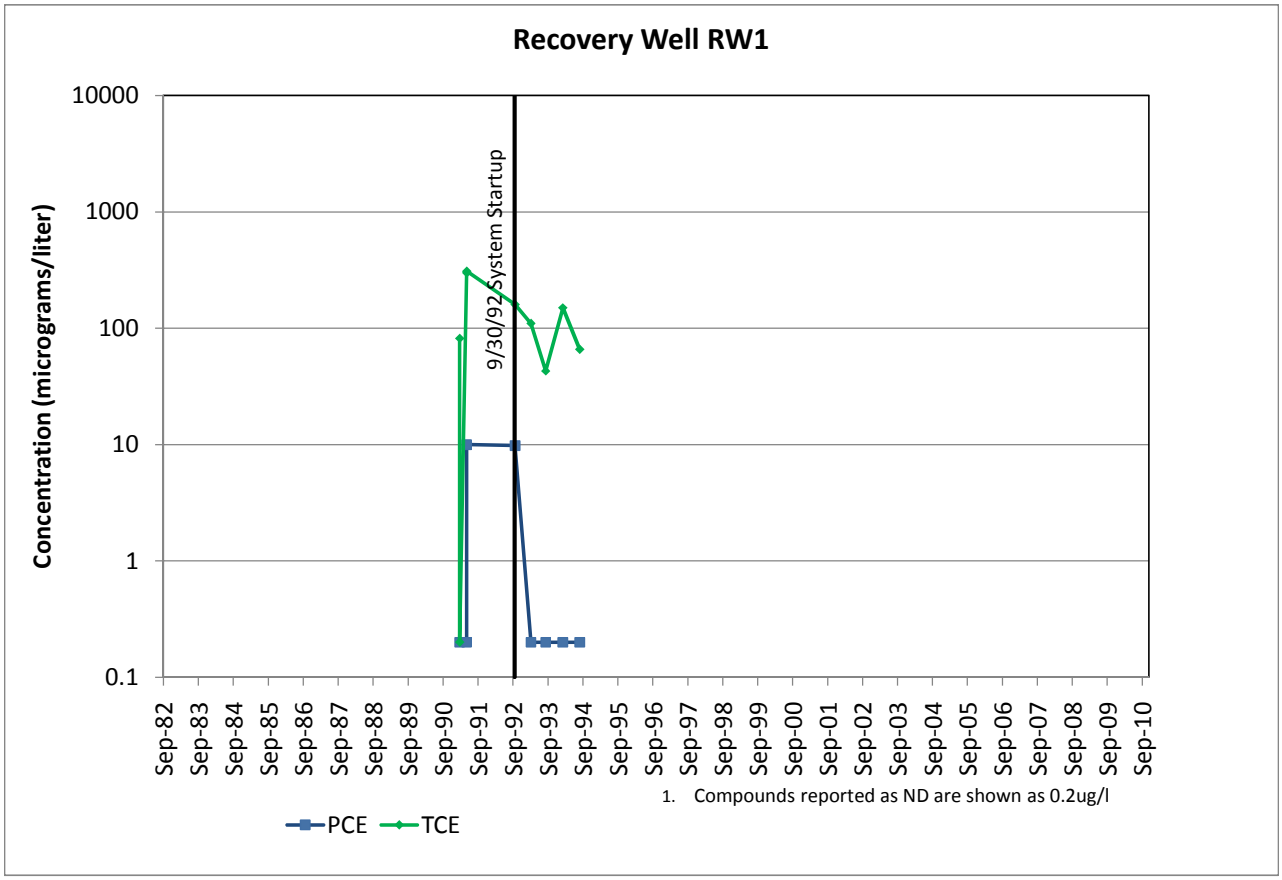
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

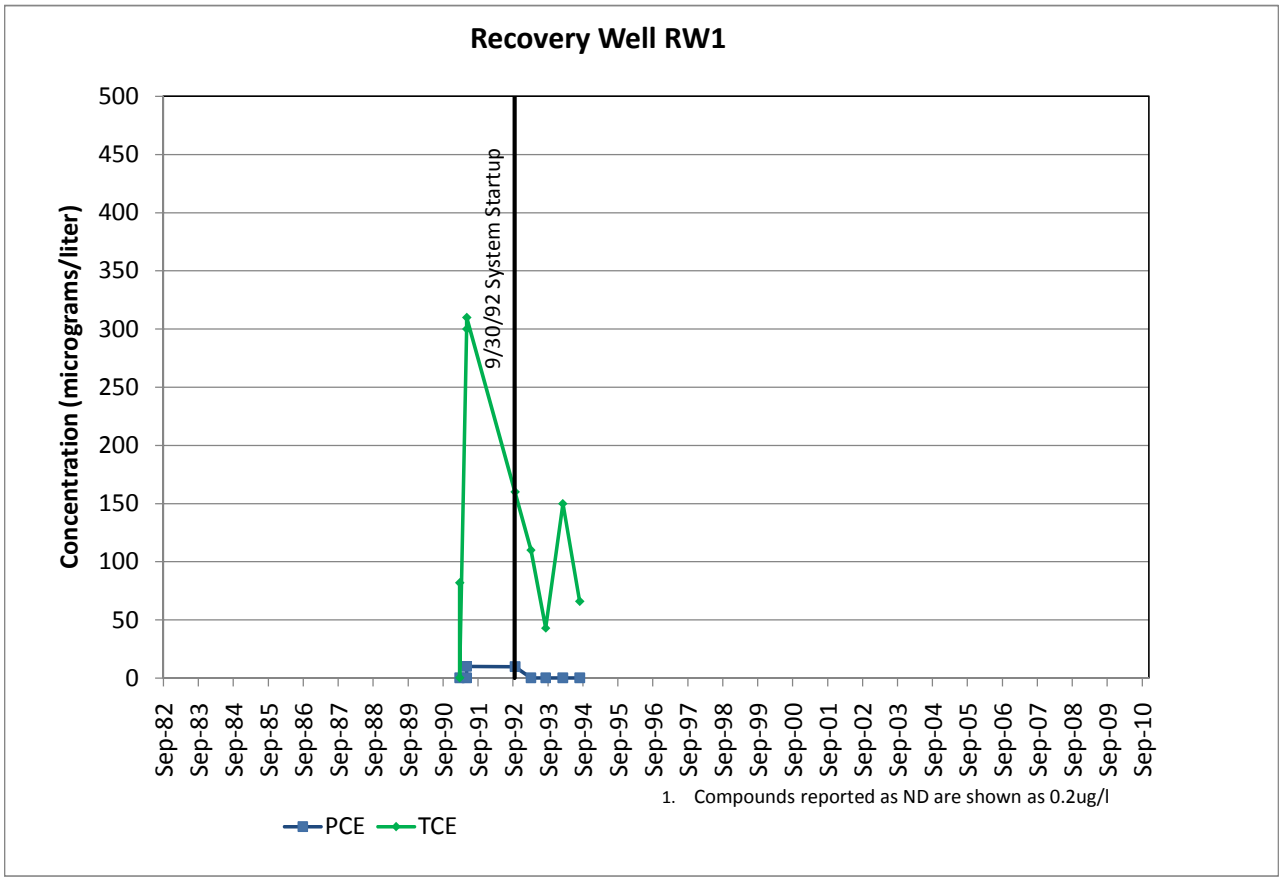


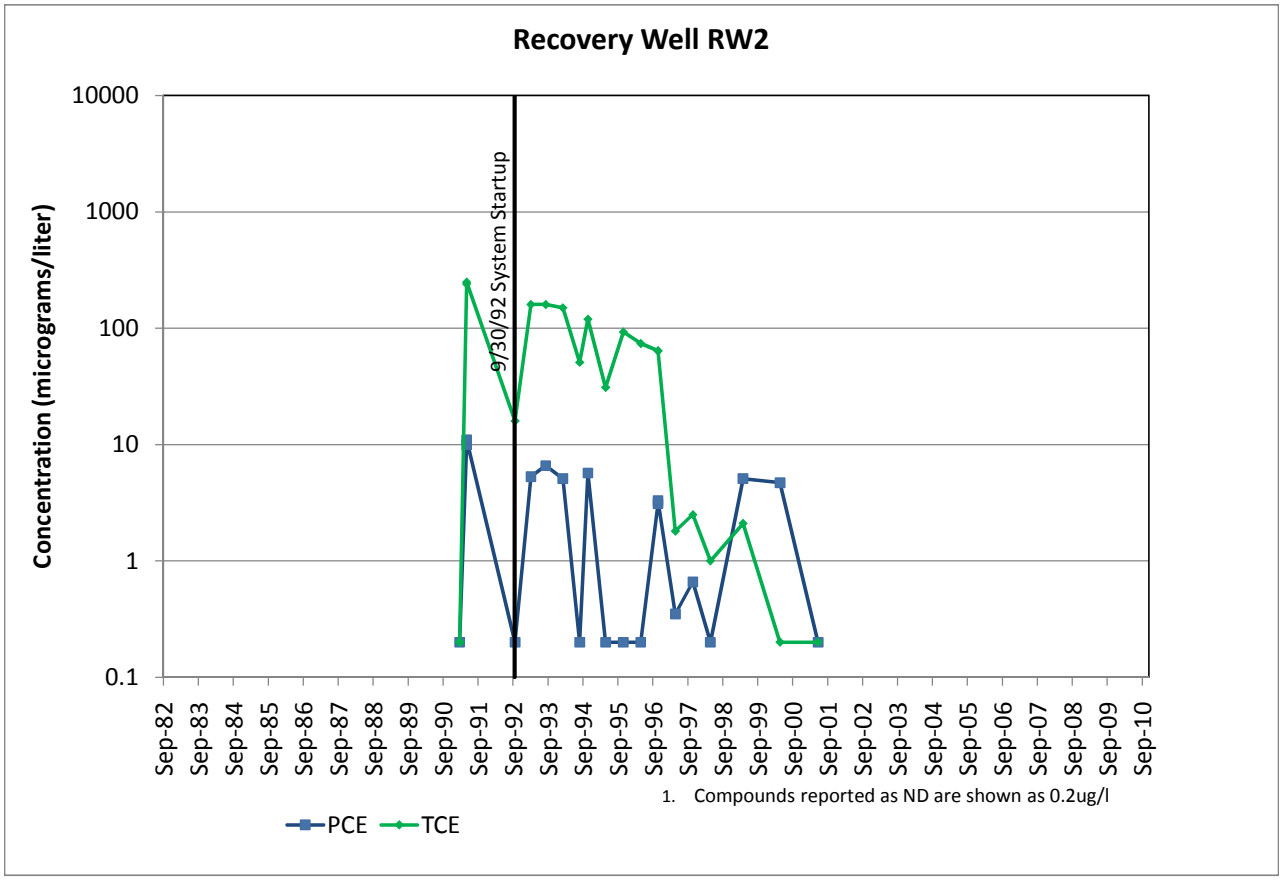
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

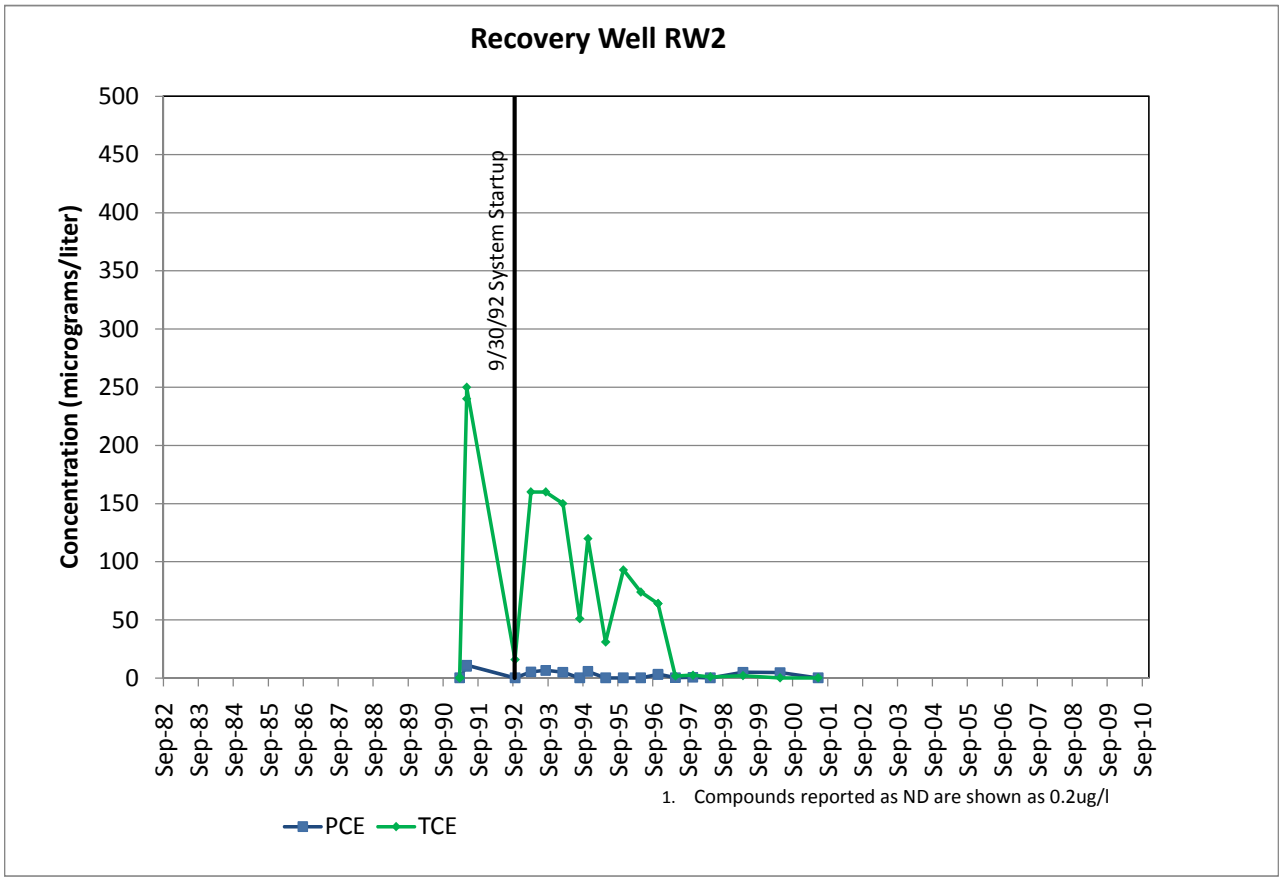


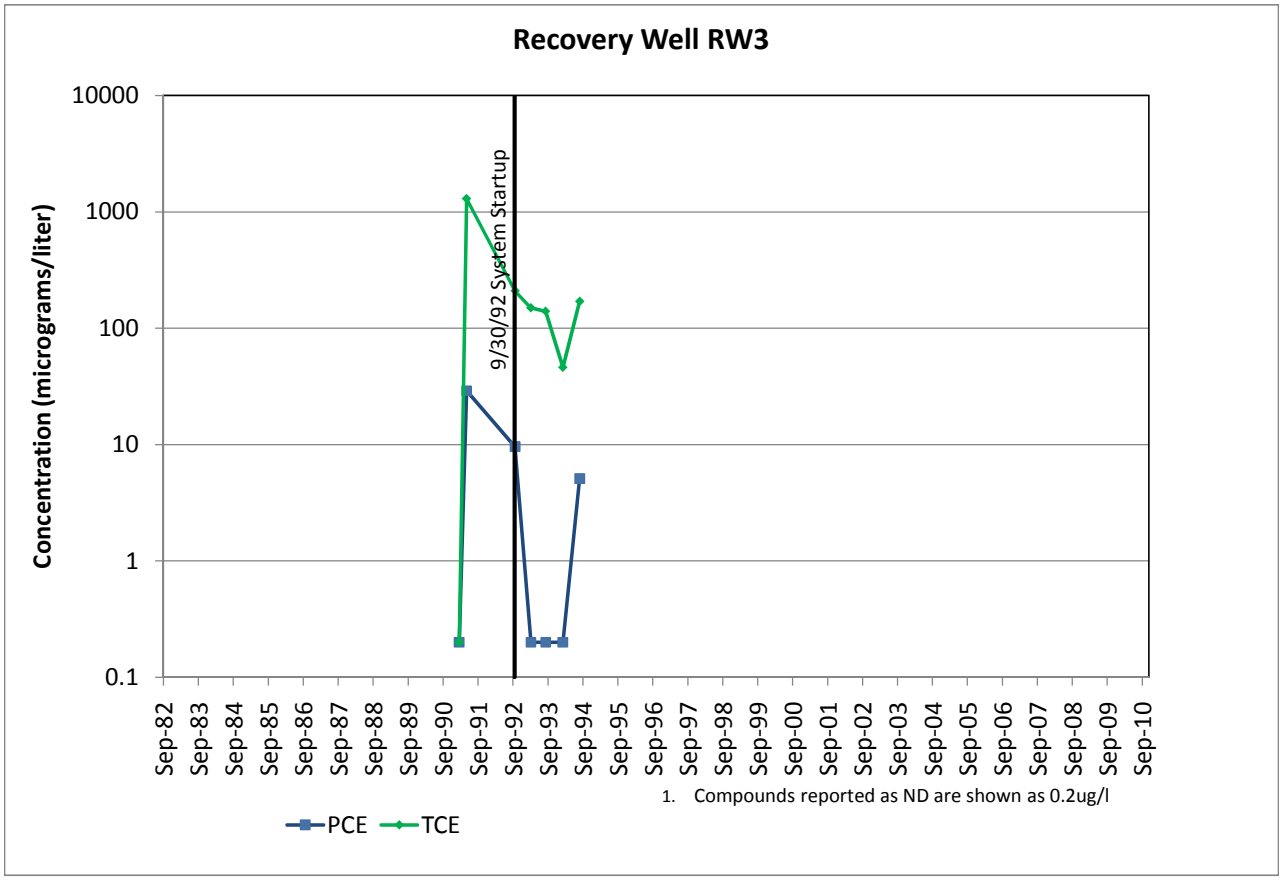
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

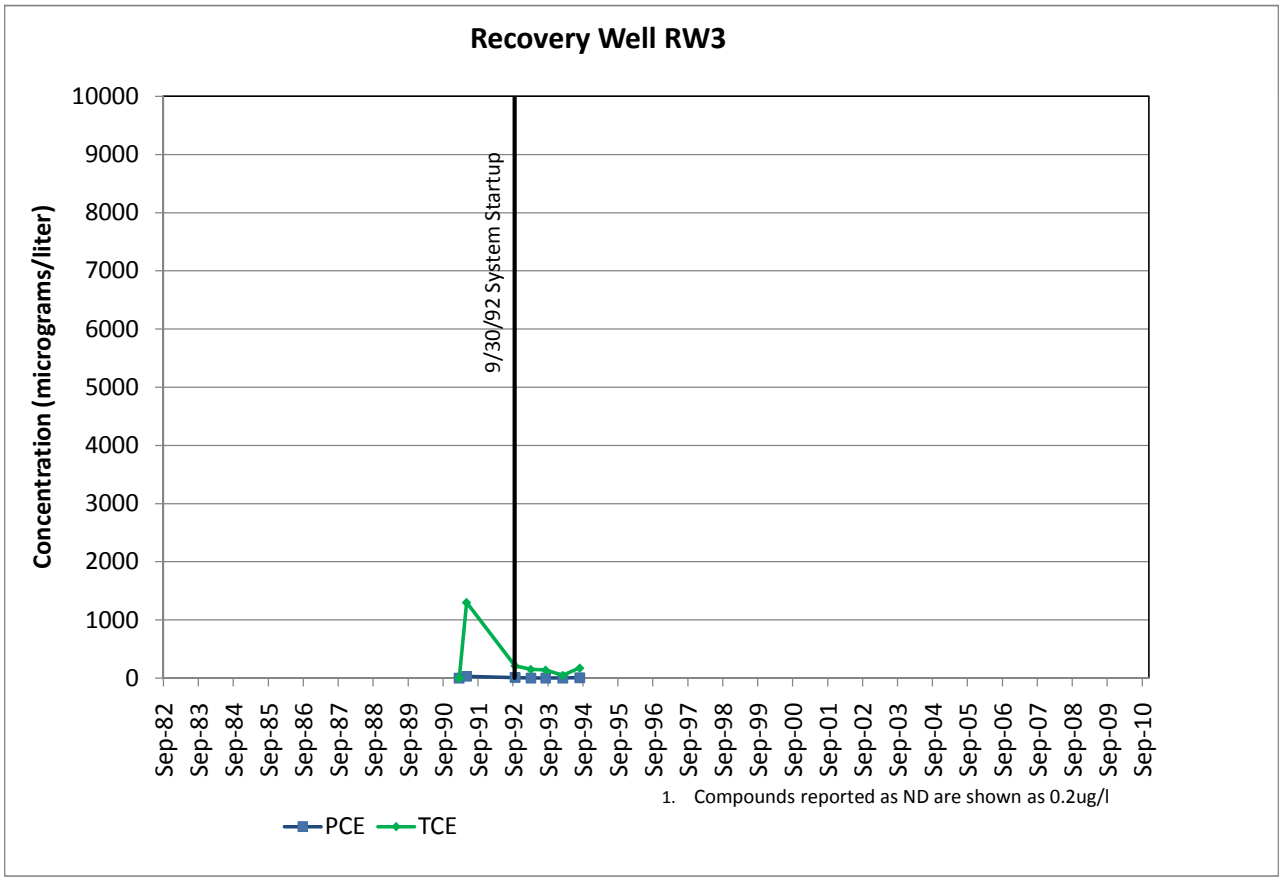

Recovery Well RW1
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

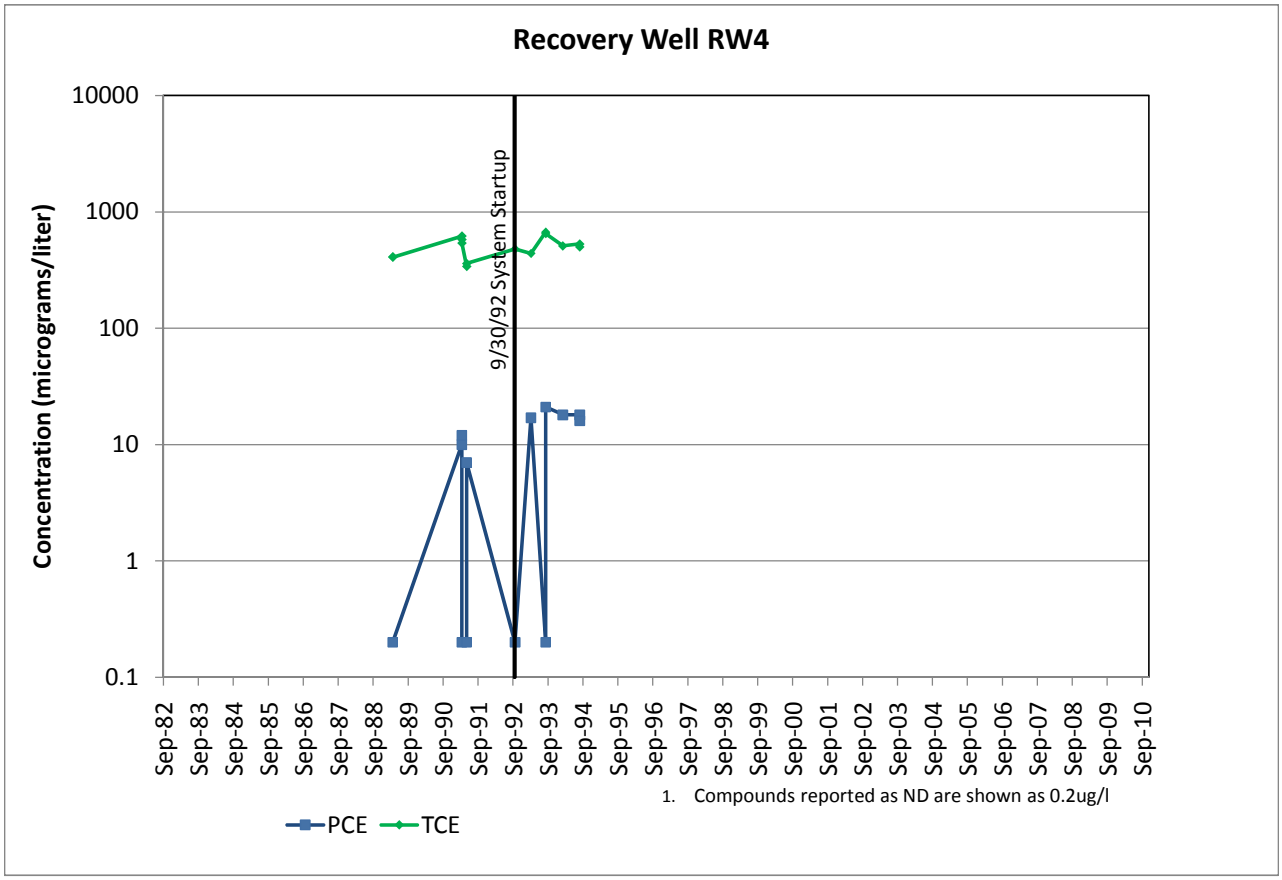

Recovery Well RW1
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

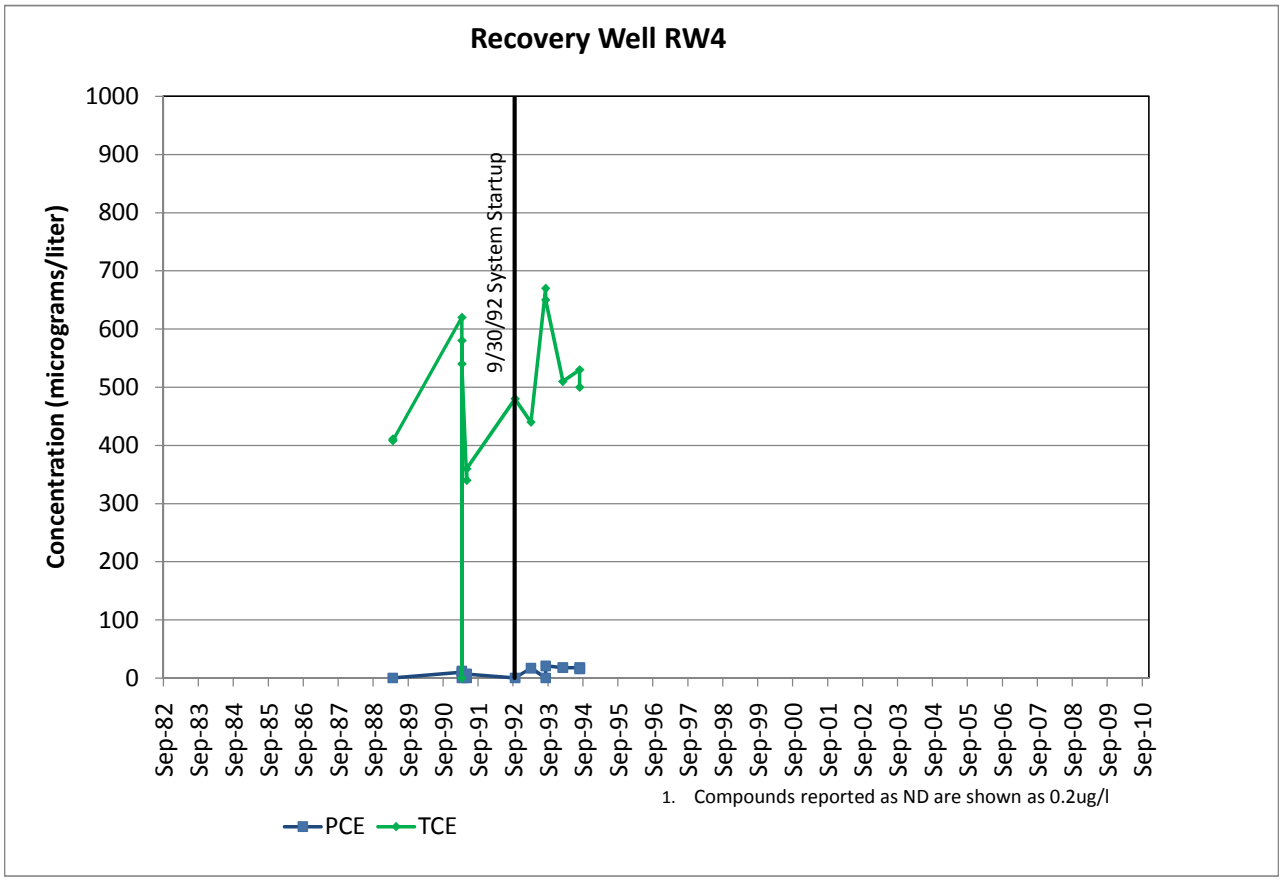

Recovery Well RW2
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

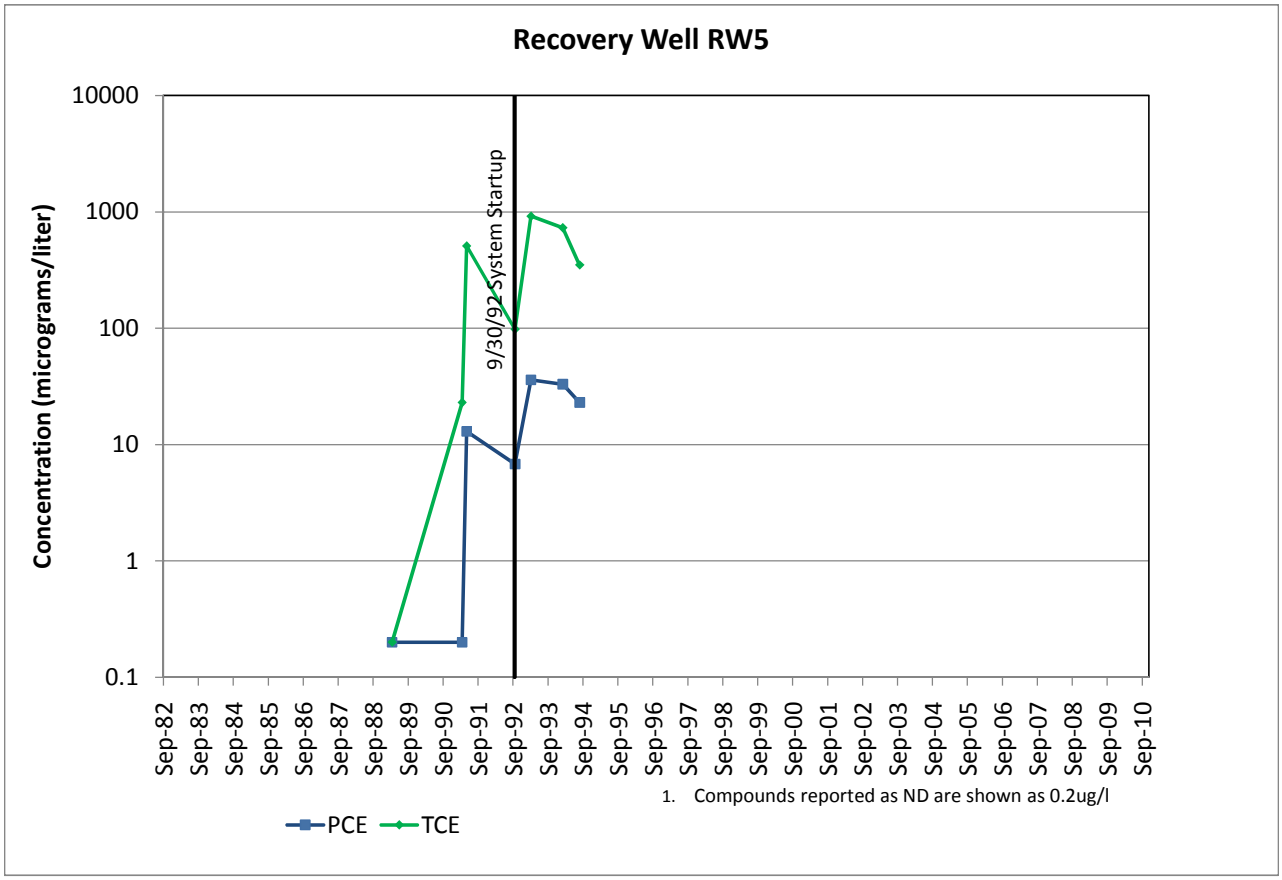

Recovery Well RW2
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

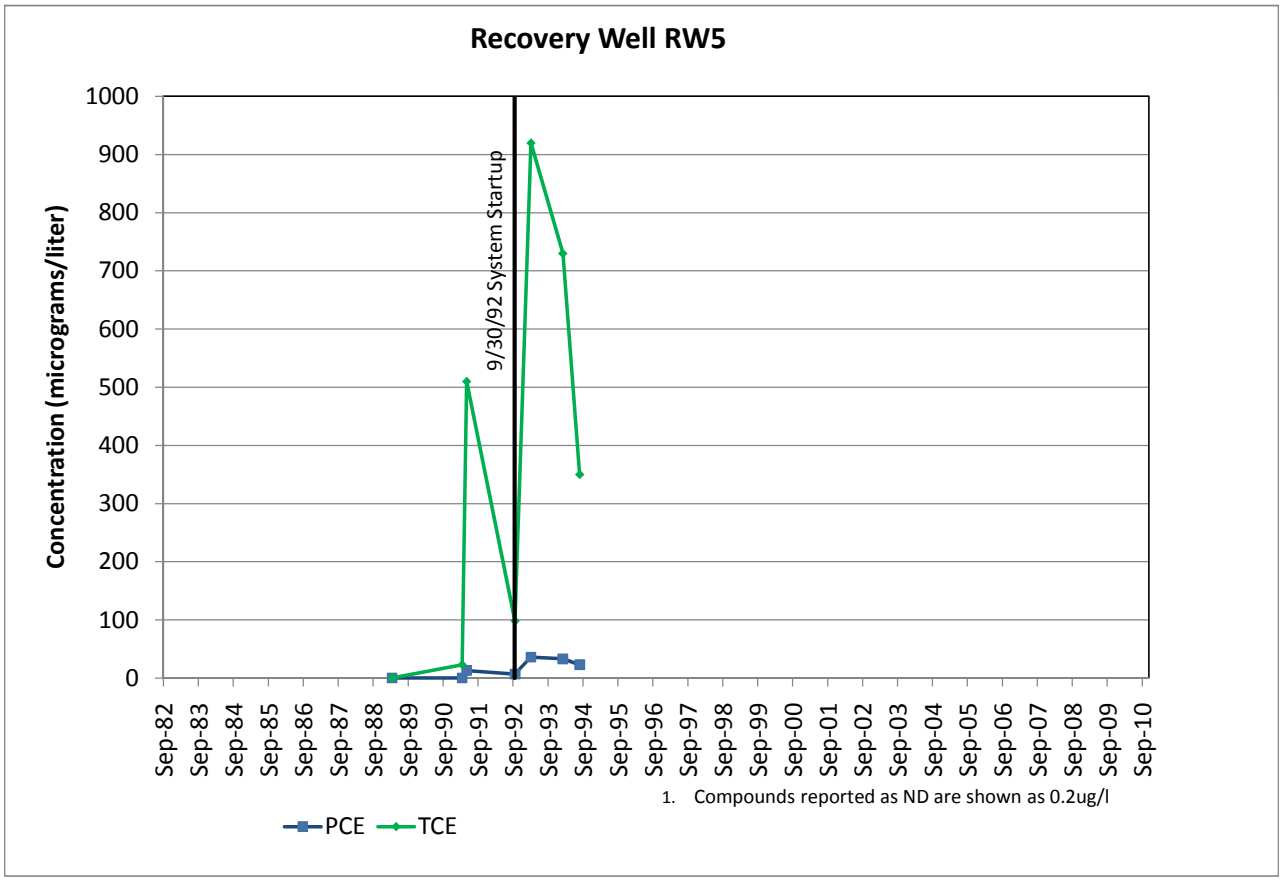

Recovery Well RW3
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

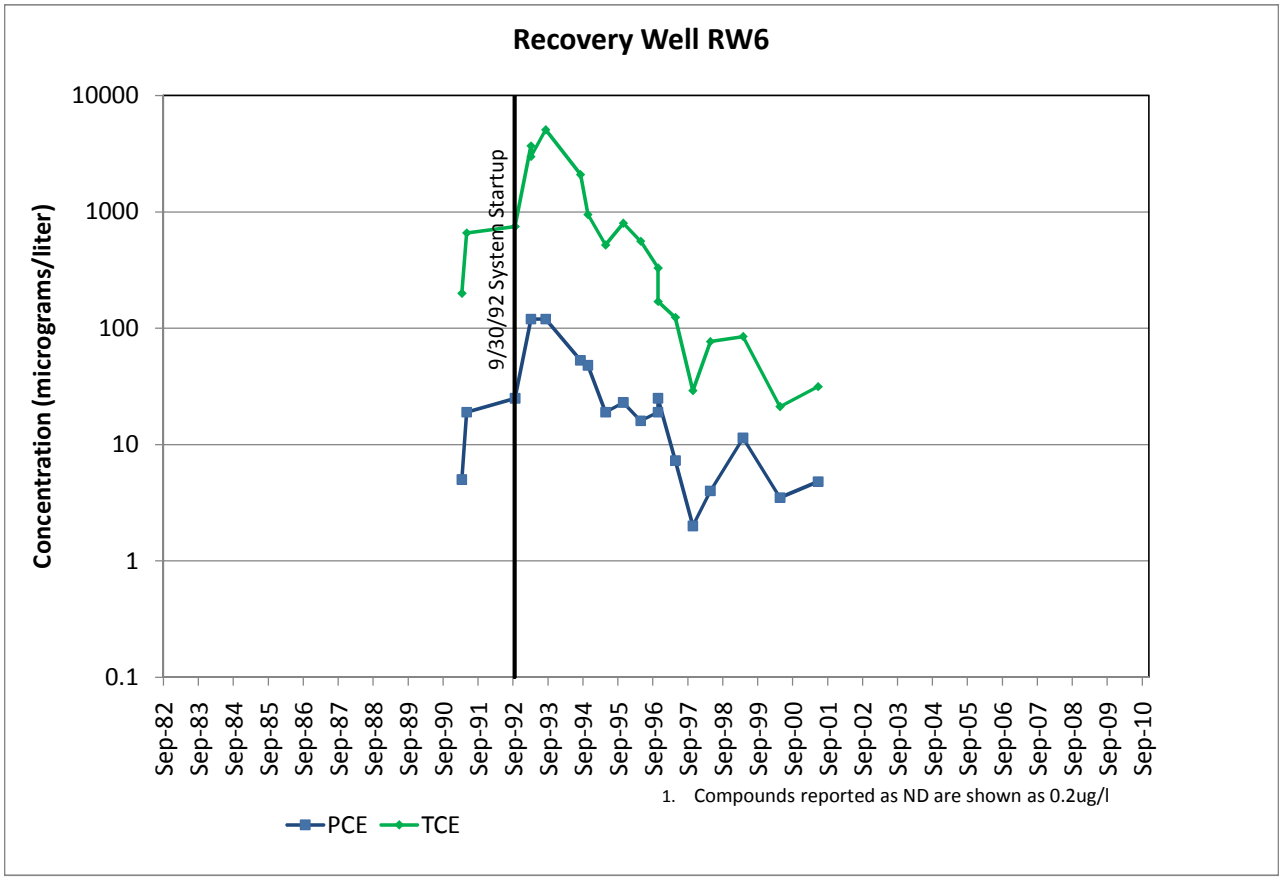

Recovery Well RW3
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

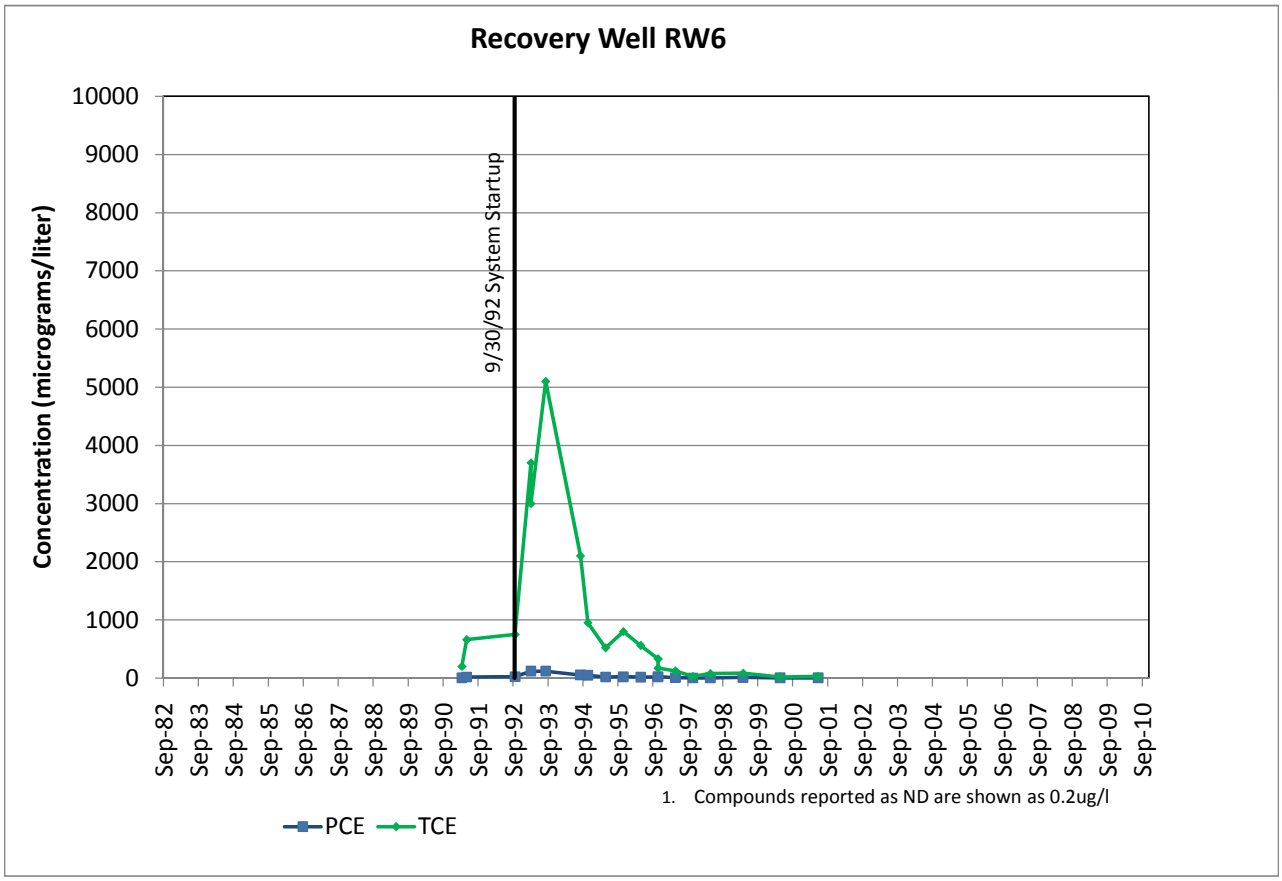

Recovery Well RW4
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

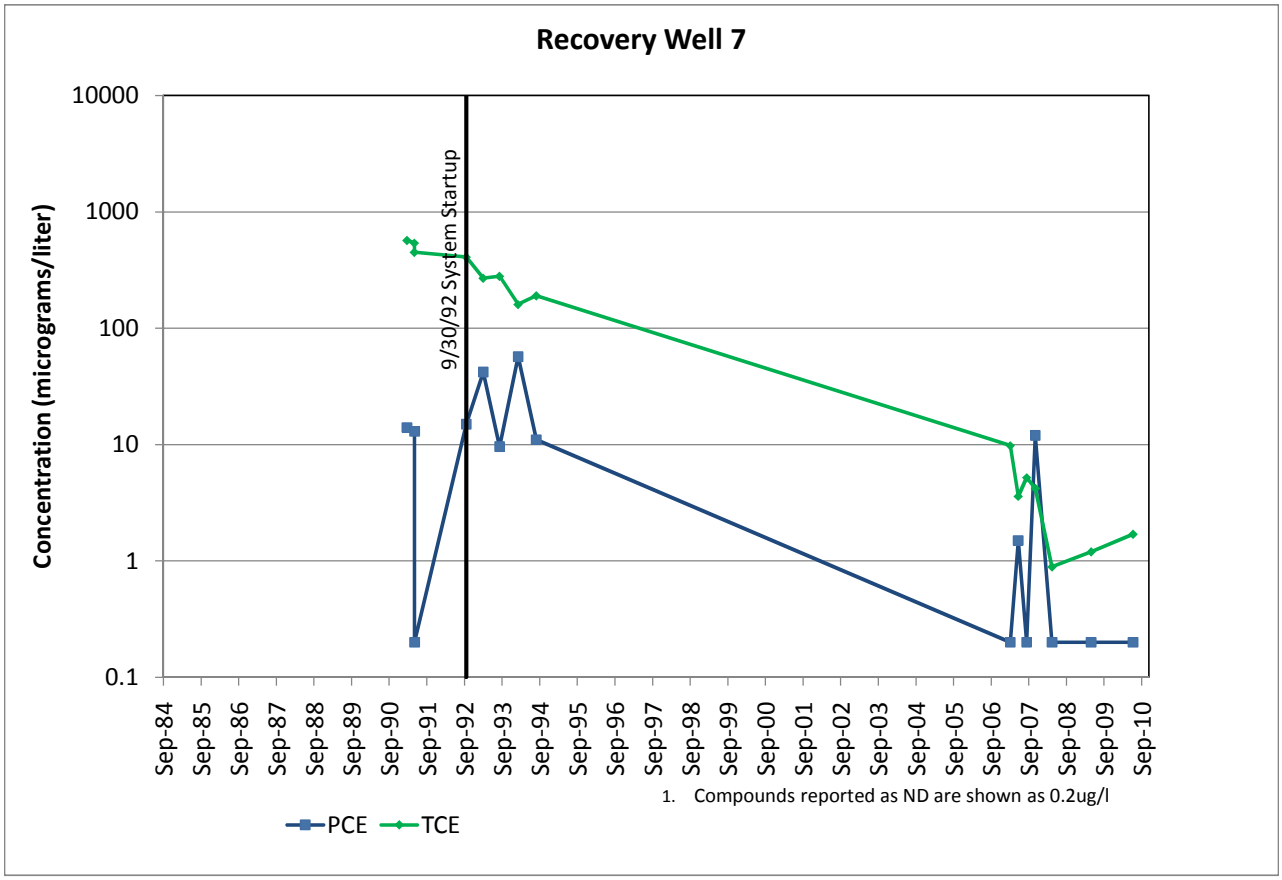

Recovery Well RW4
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

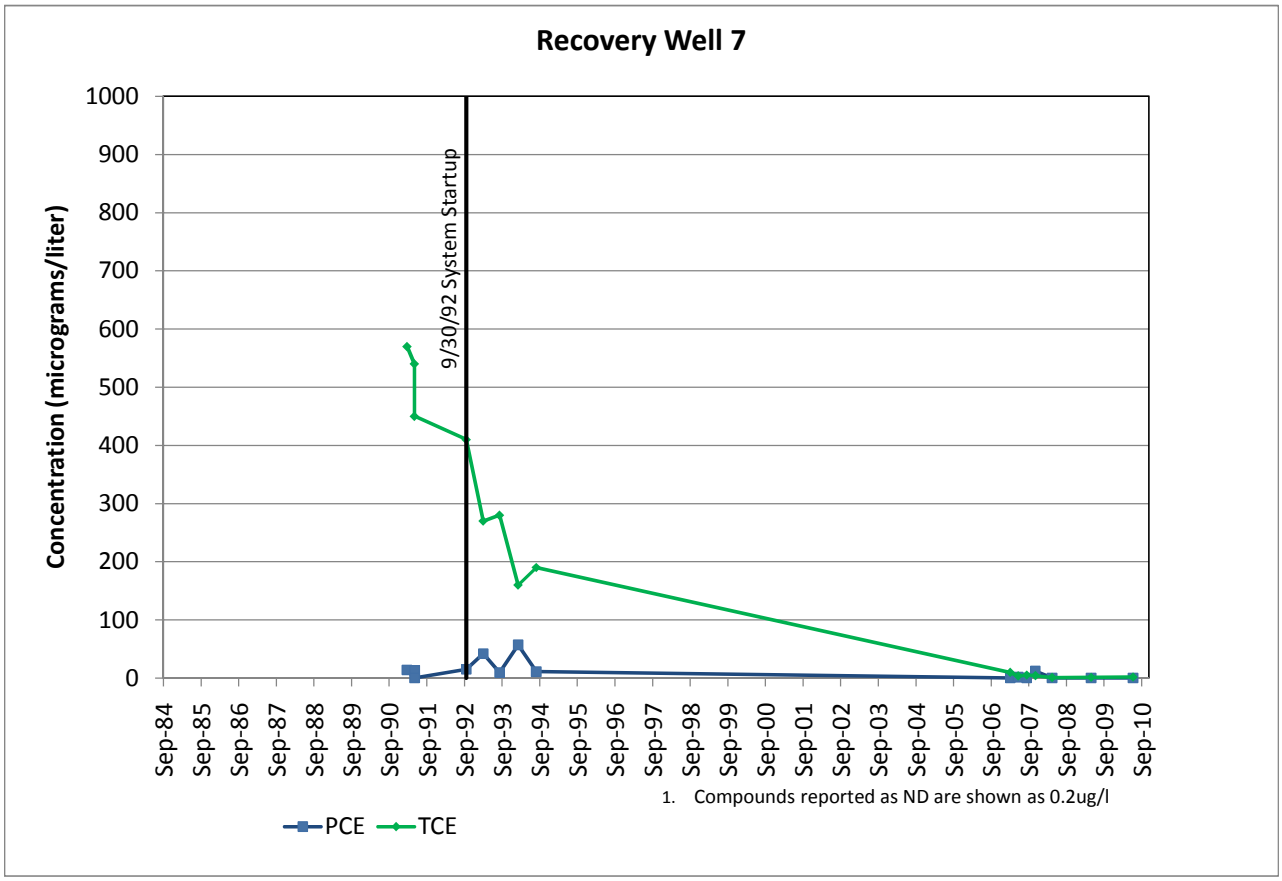

Recovery Well RW5
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

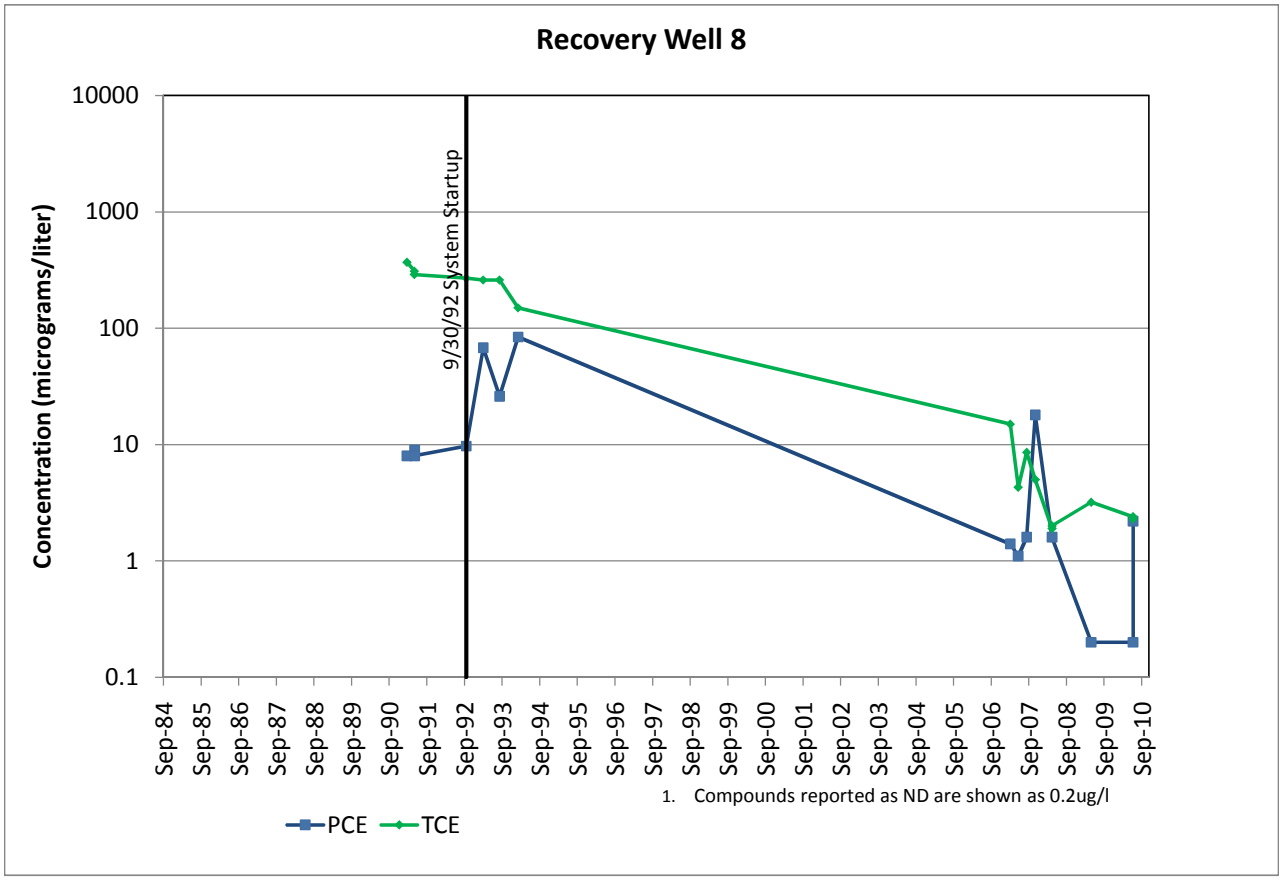

Recovery Well RW5
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

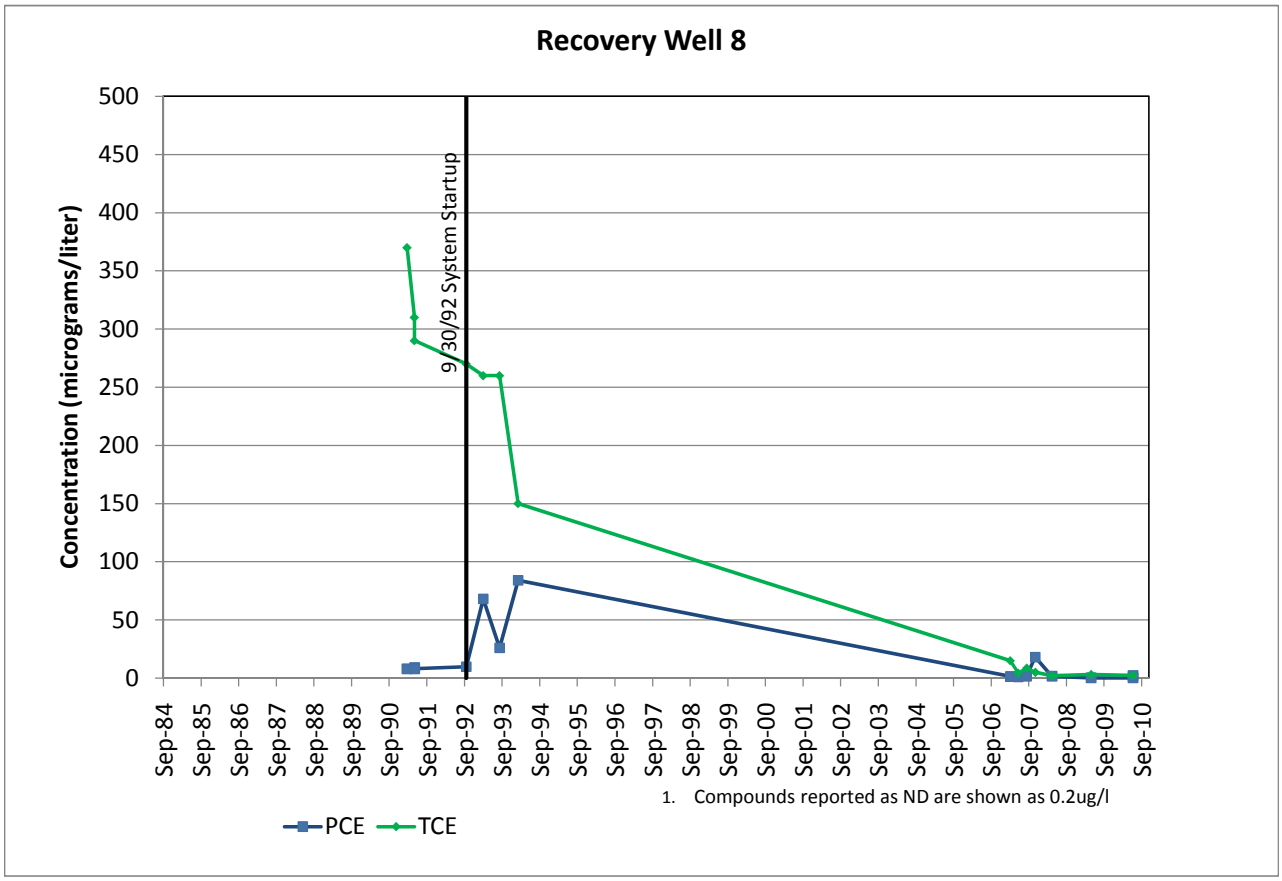

Recovery Well RW6
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

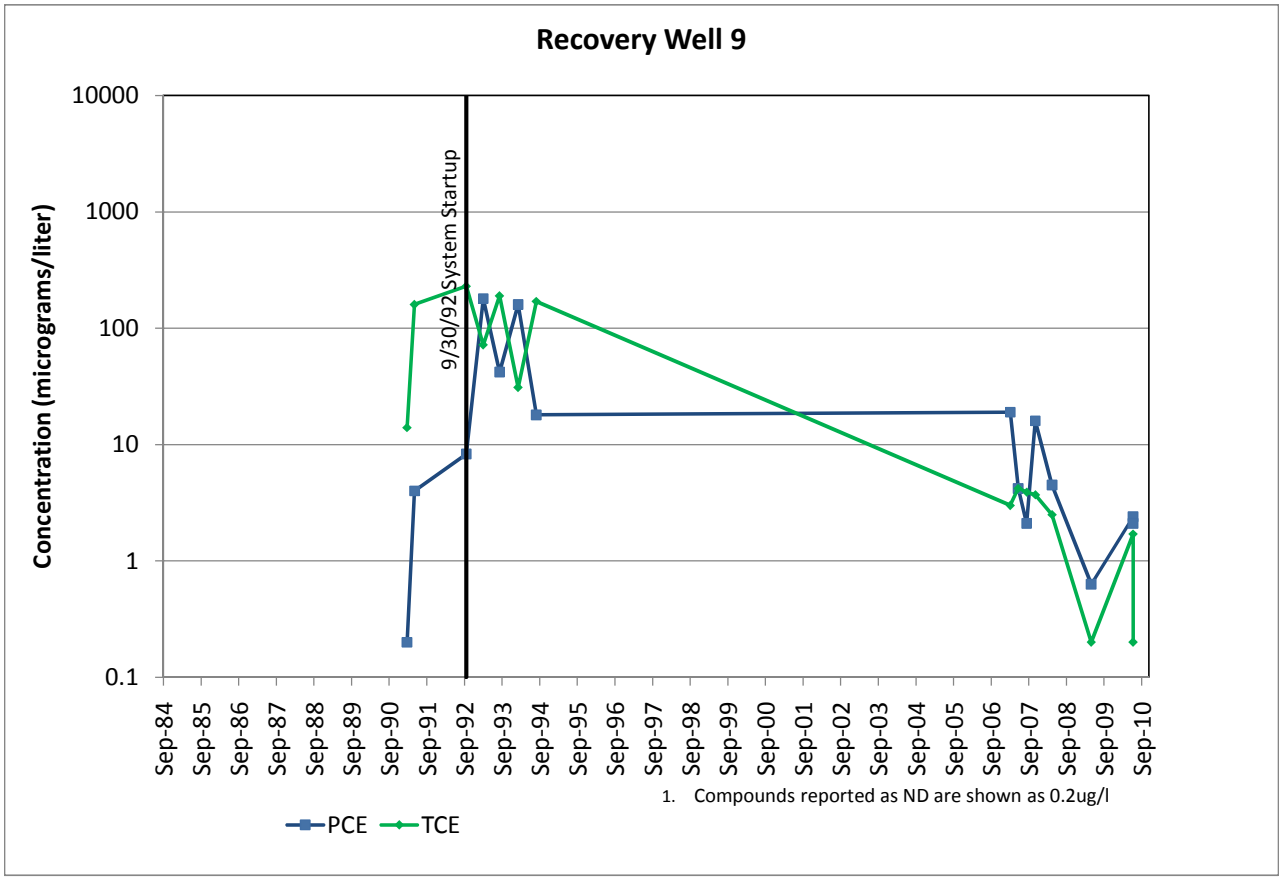

Recovery Well RW6
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

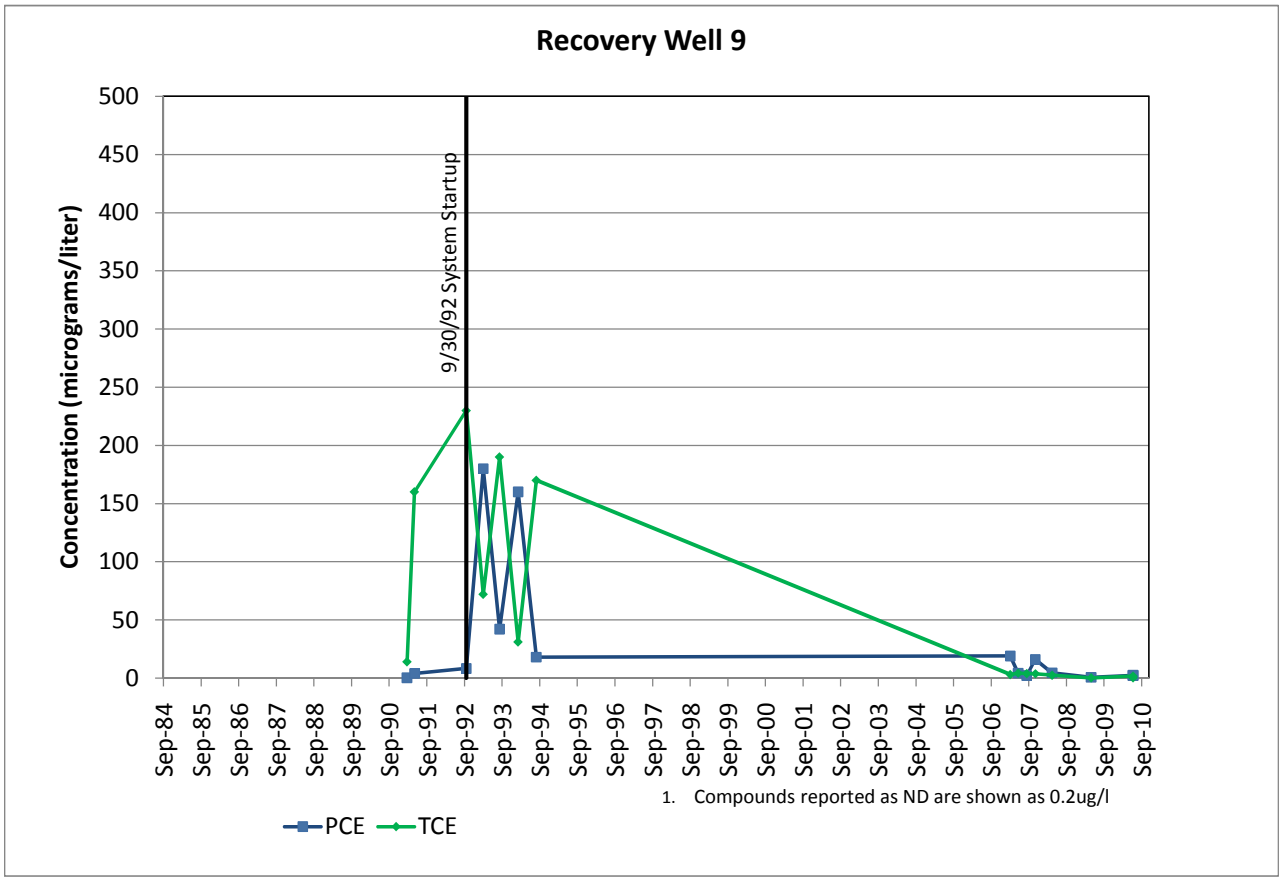

Recovery Well 7
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

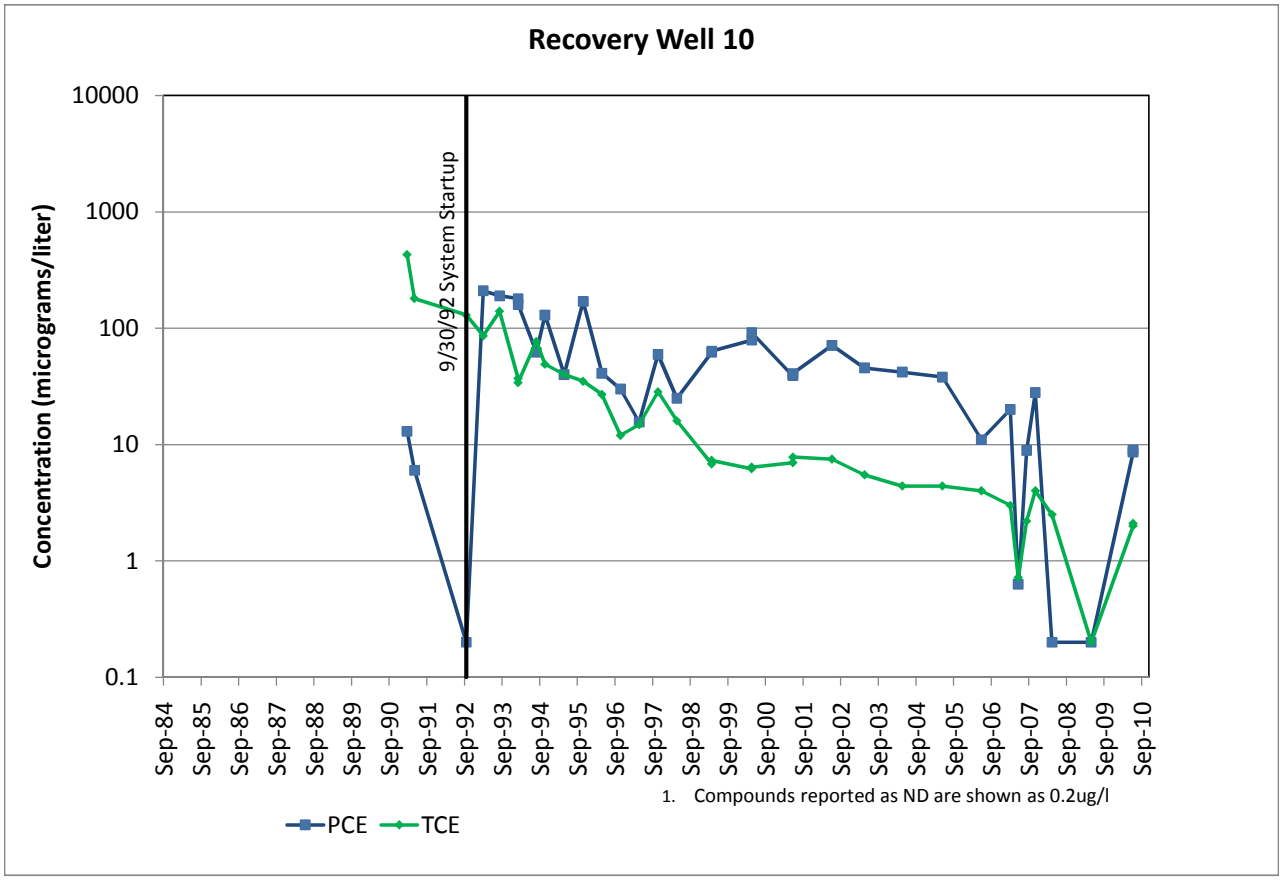

Recovery Well 7
Concentration (micrograms/liter)
1000
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

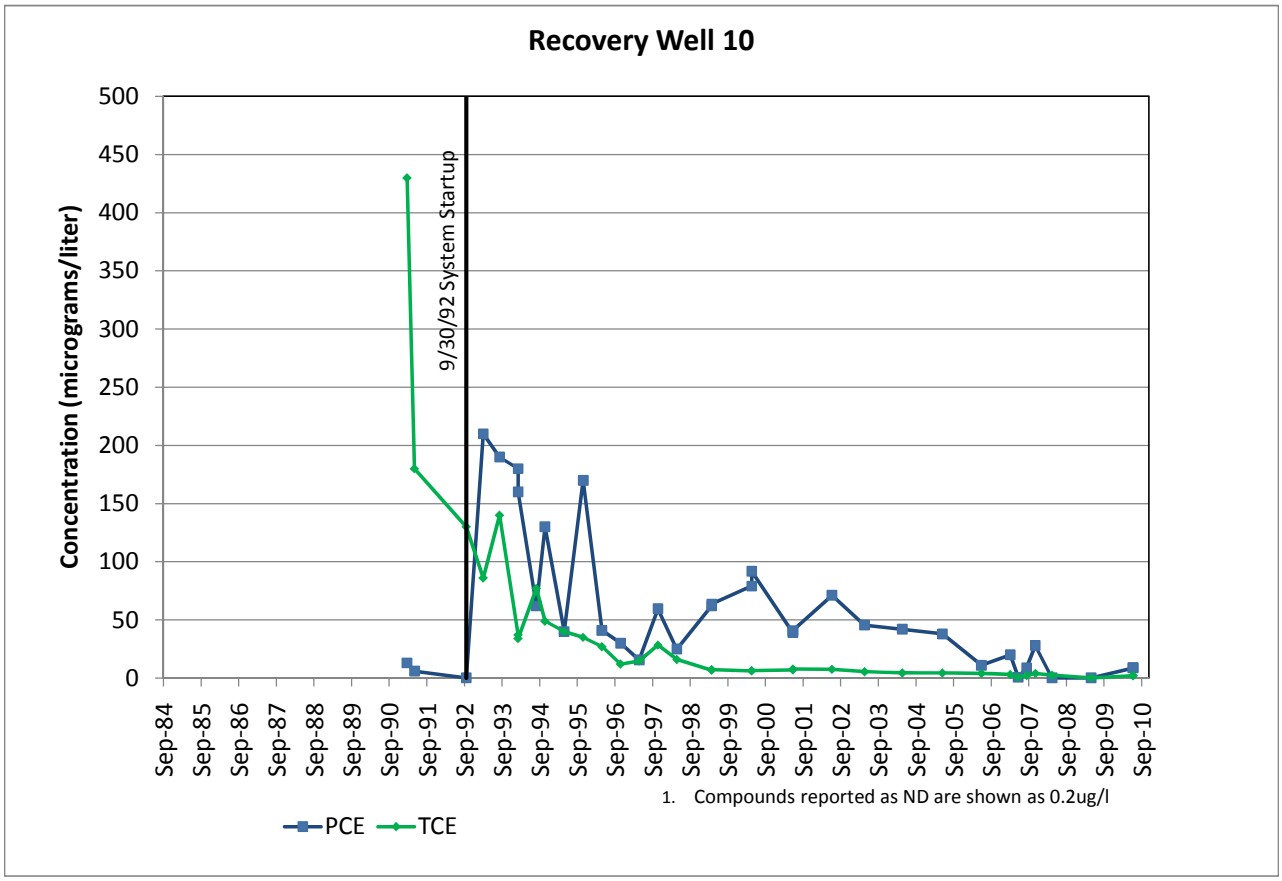

Recovery Well 8
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

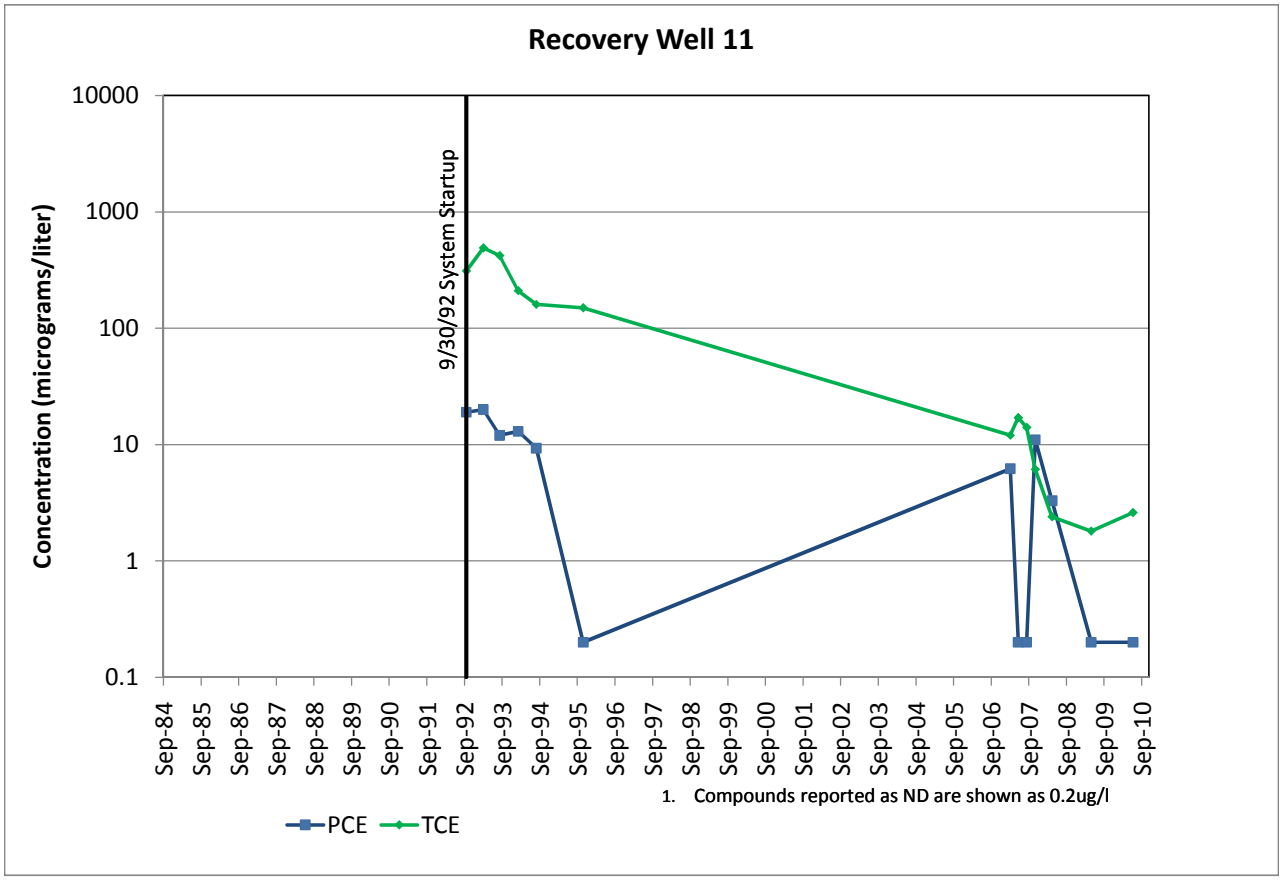

Recovery Well 8
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

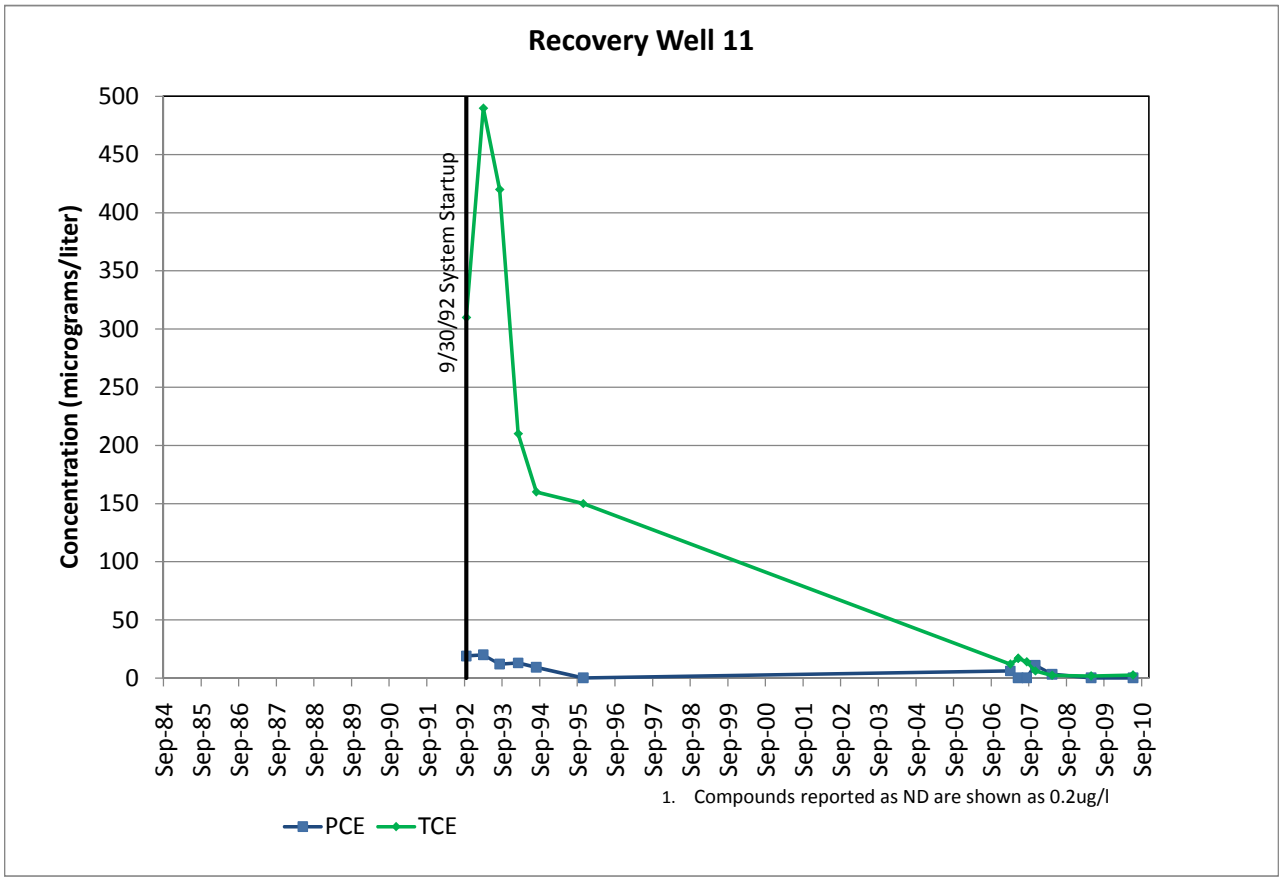

Recovery Well 9
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

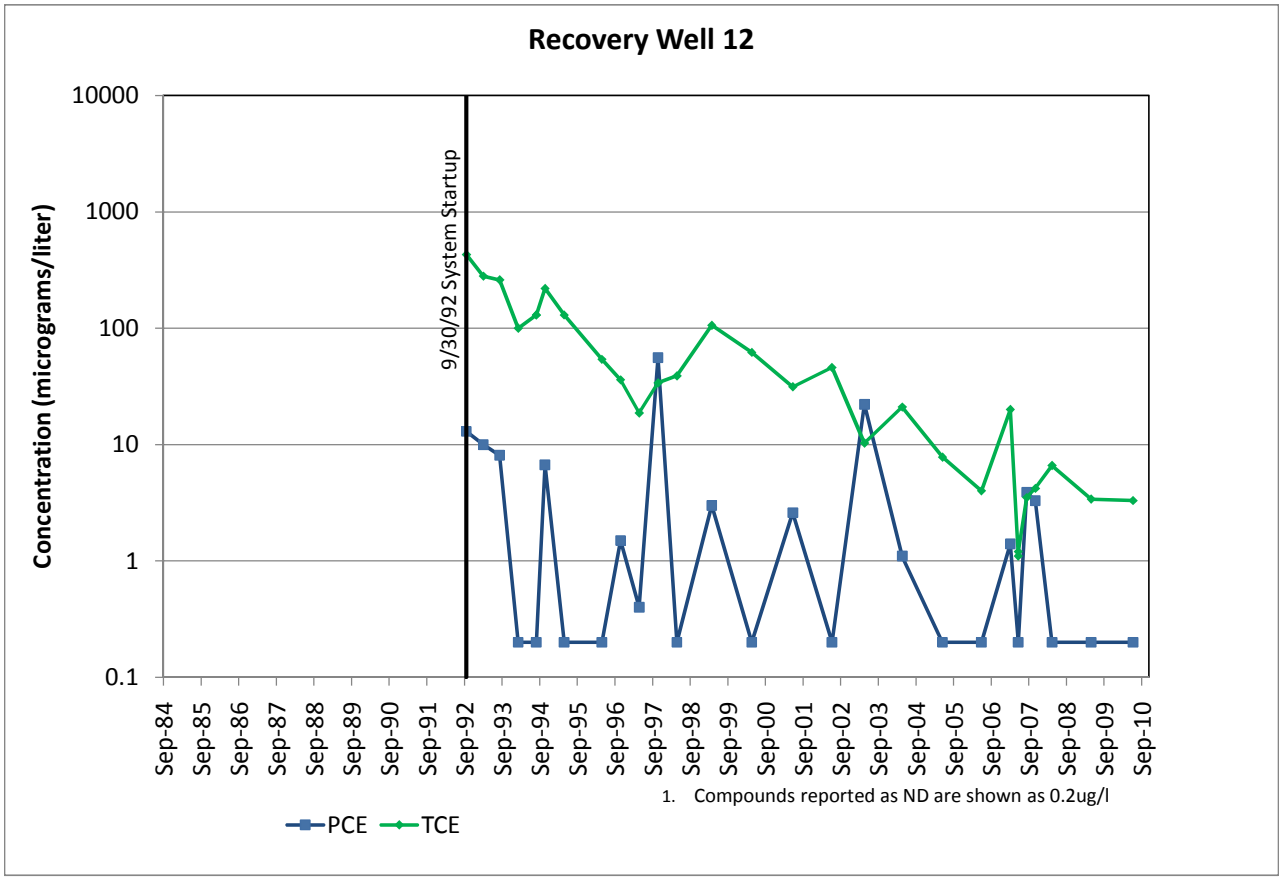

Recovery Well 9
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

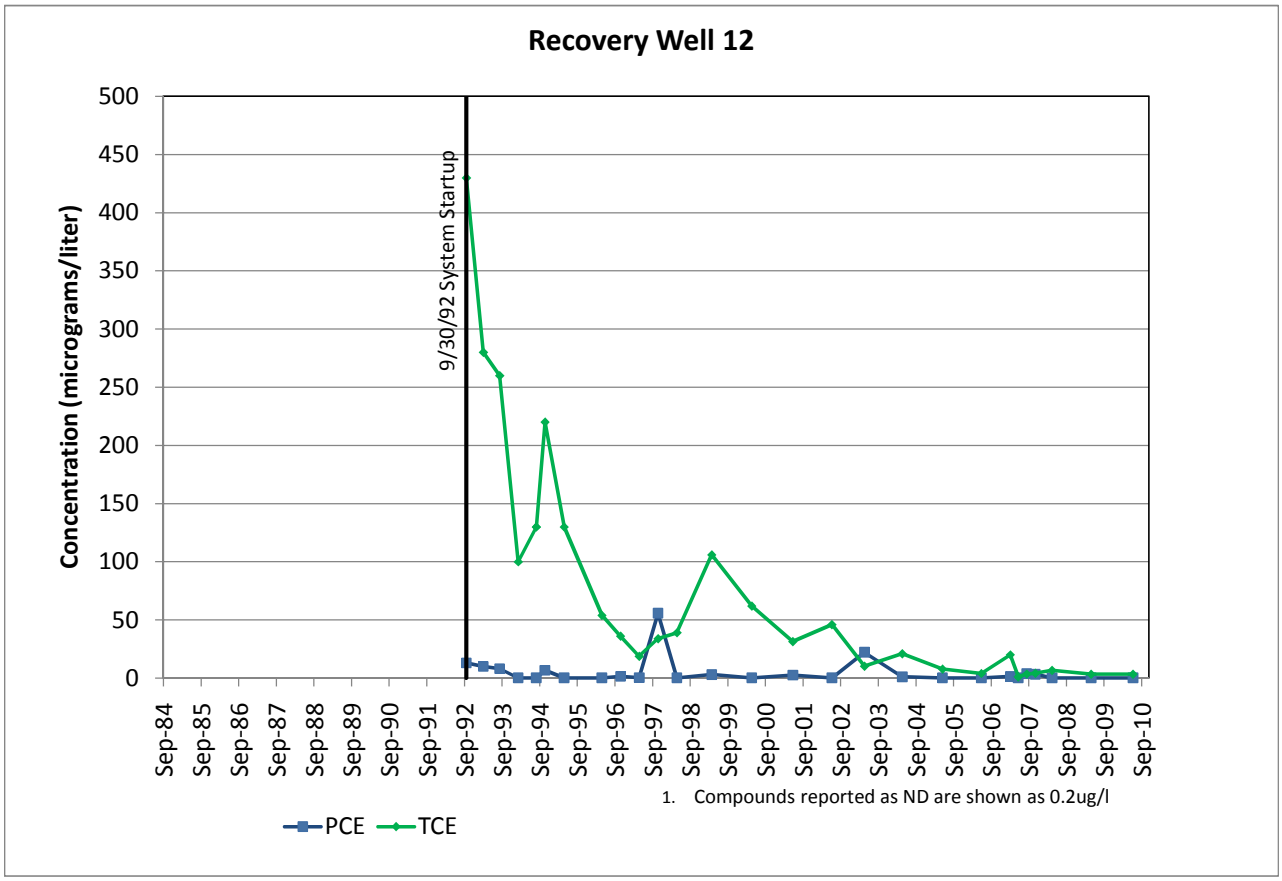

Recovery Well 10
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

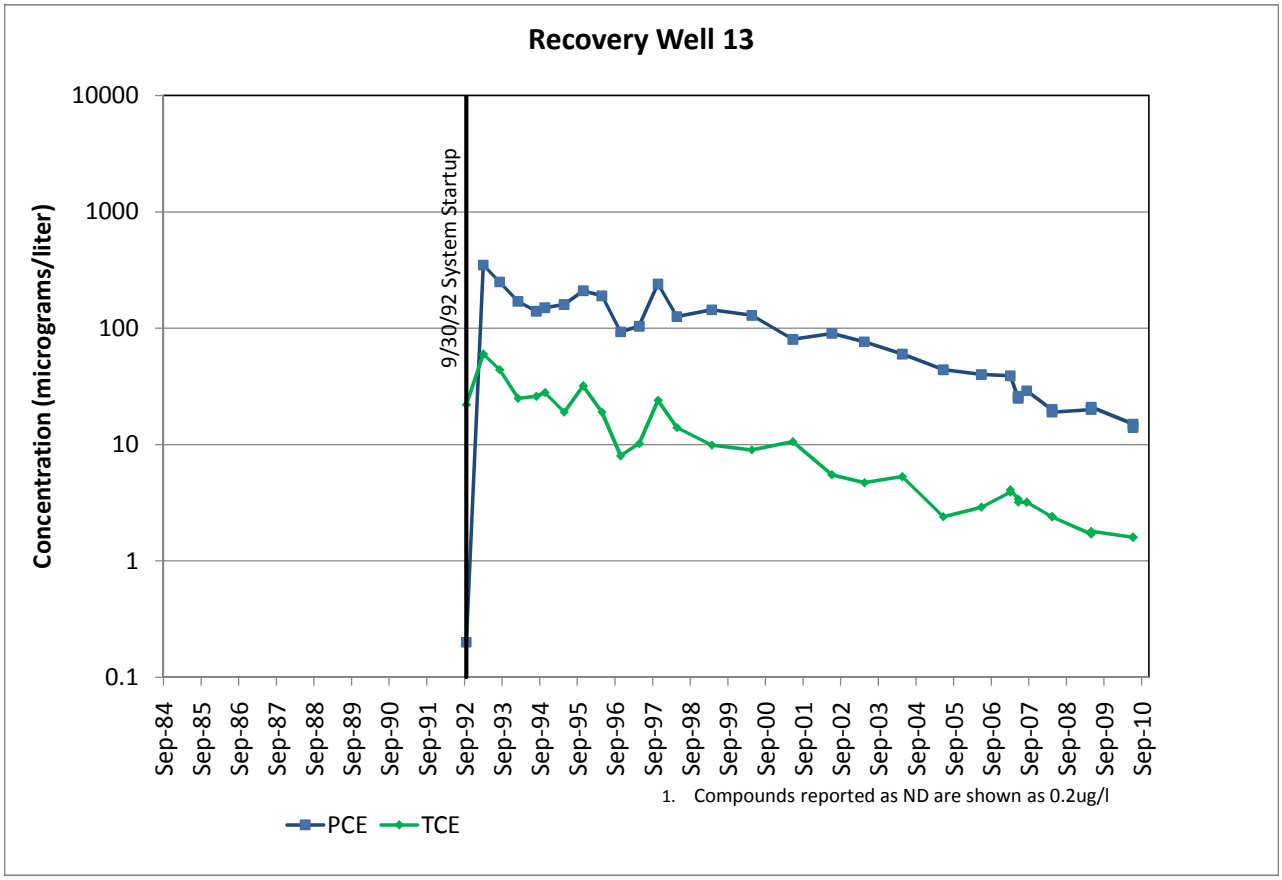

Recovery Well 10
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

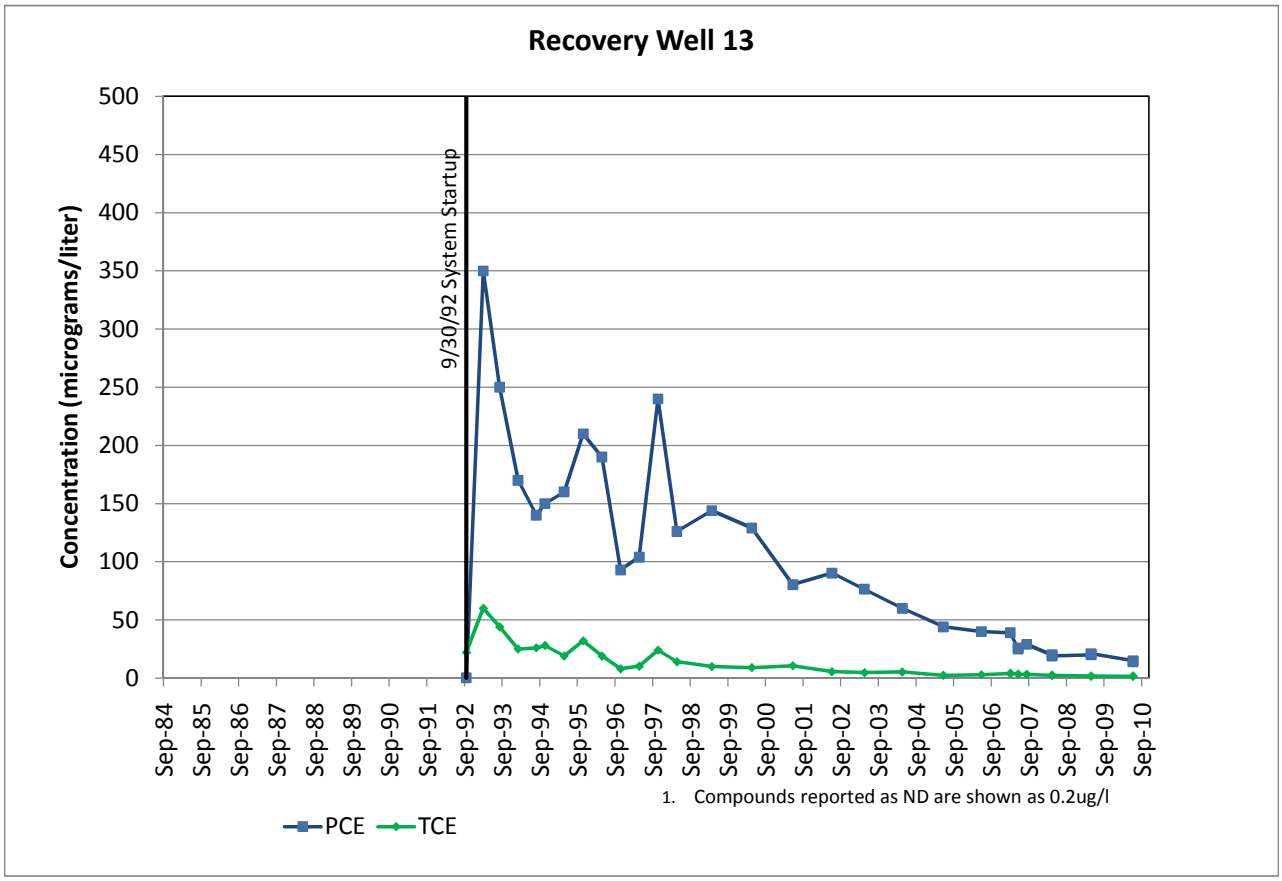

Recovery Well 11
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

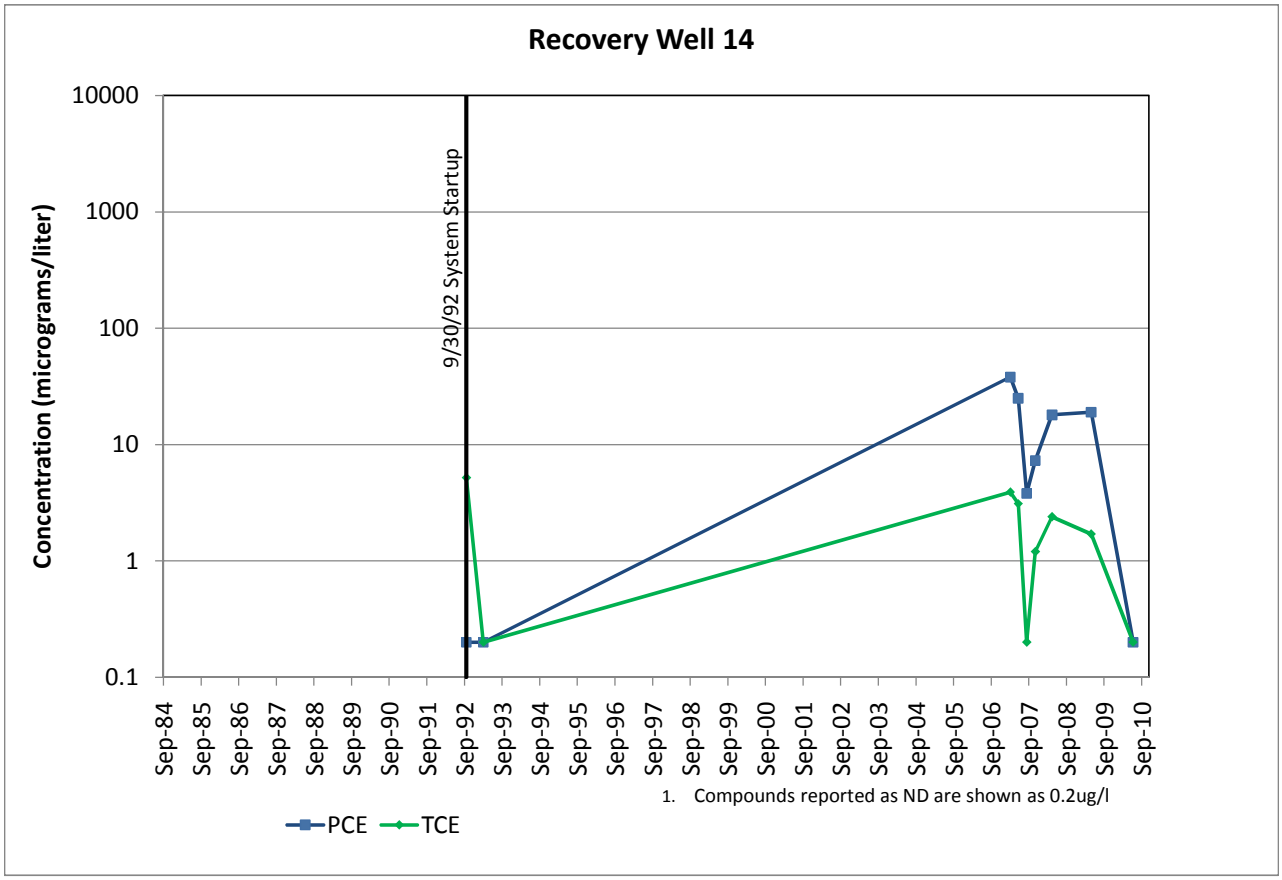

Recovery Well 11
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

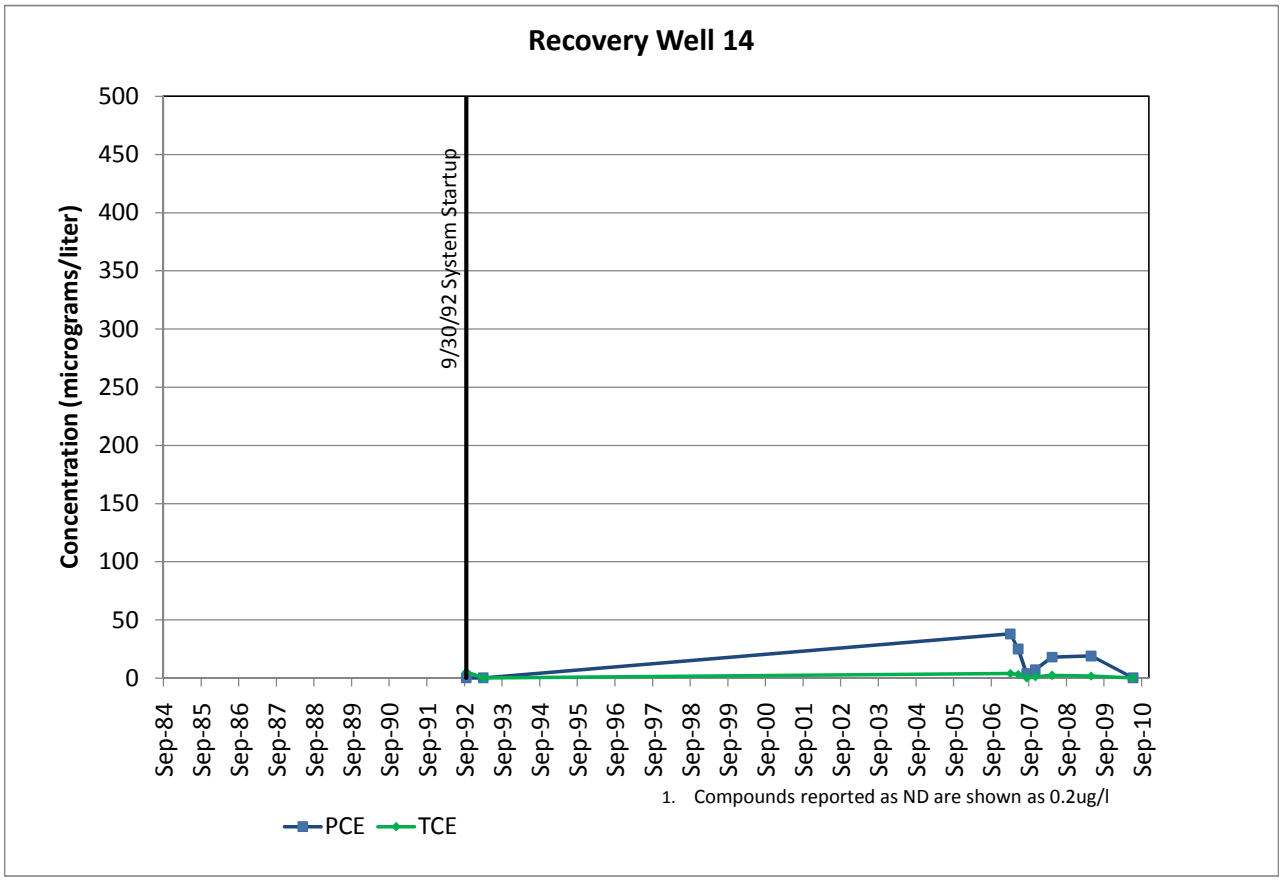

Recovery Well 12
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

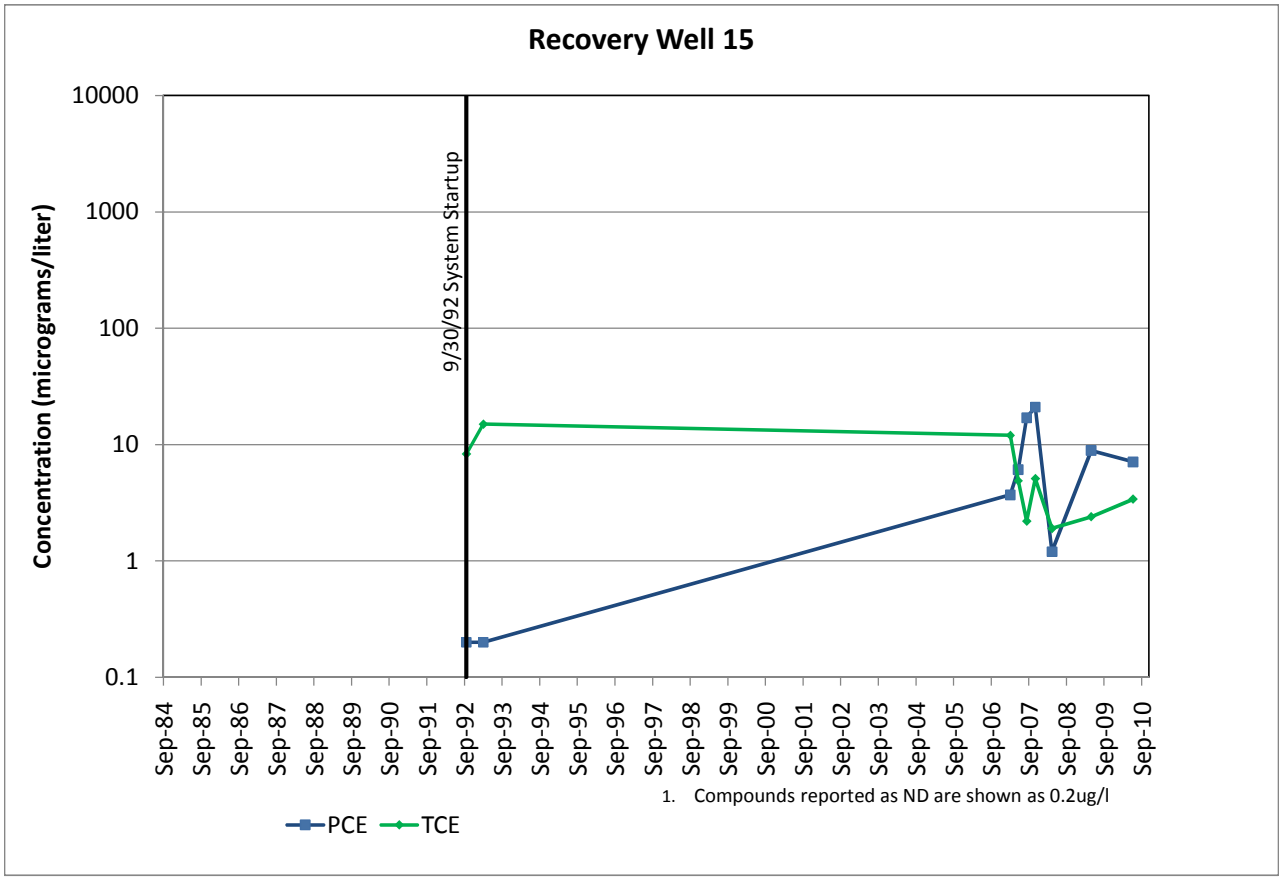

Recovery Well 12
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

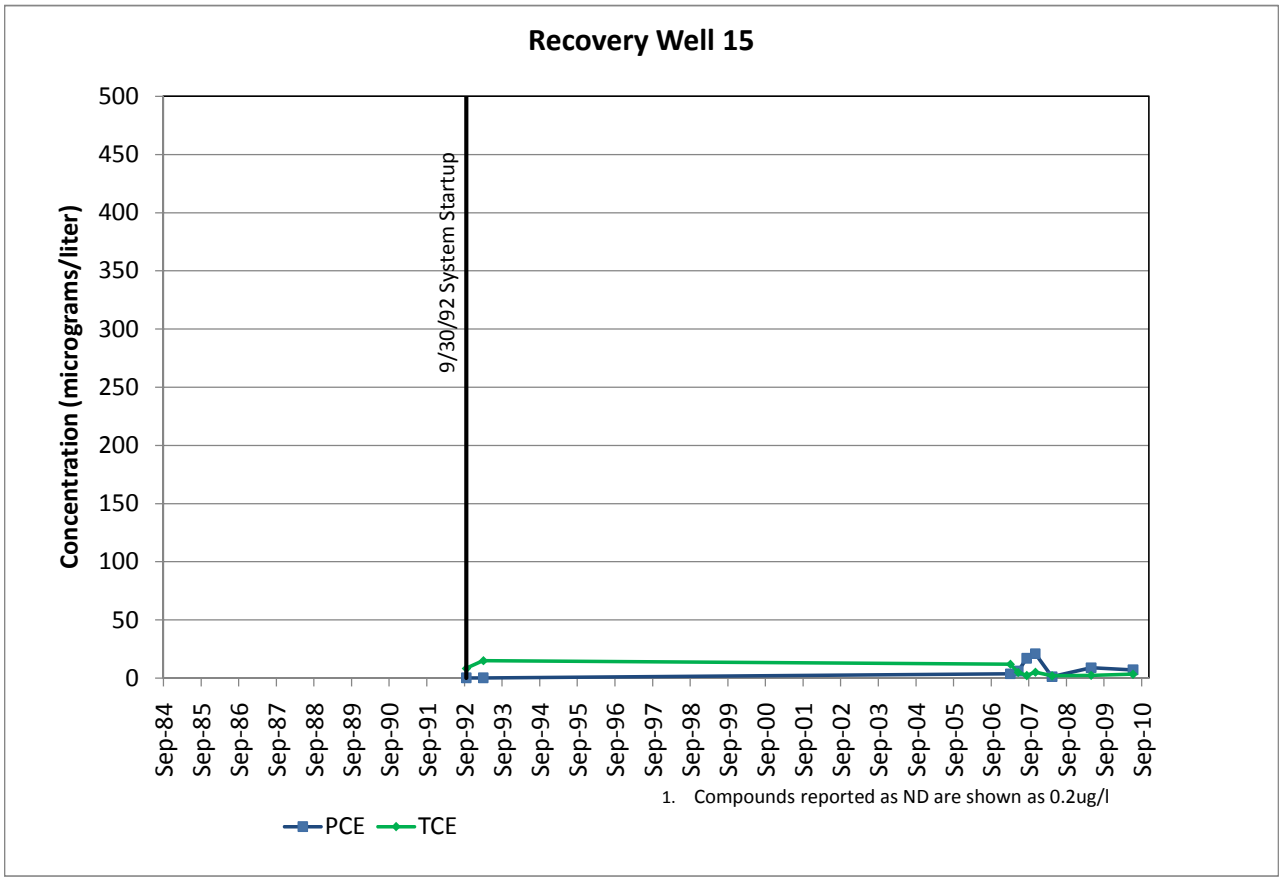

Recovery Well 13
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

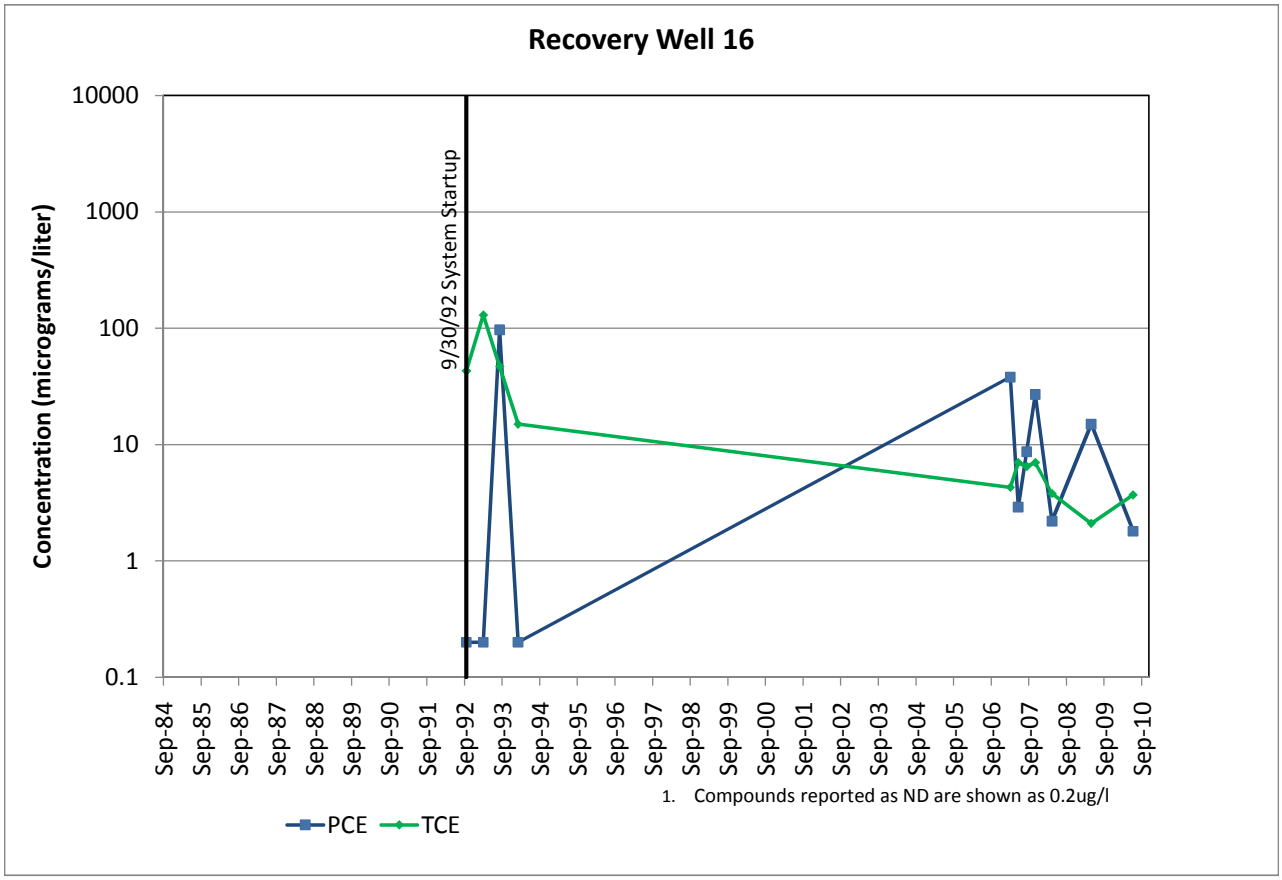

Recovery Well 13
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

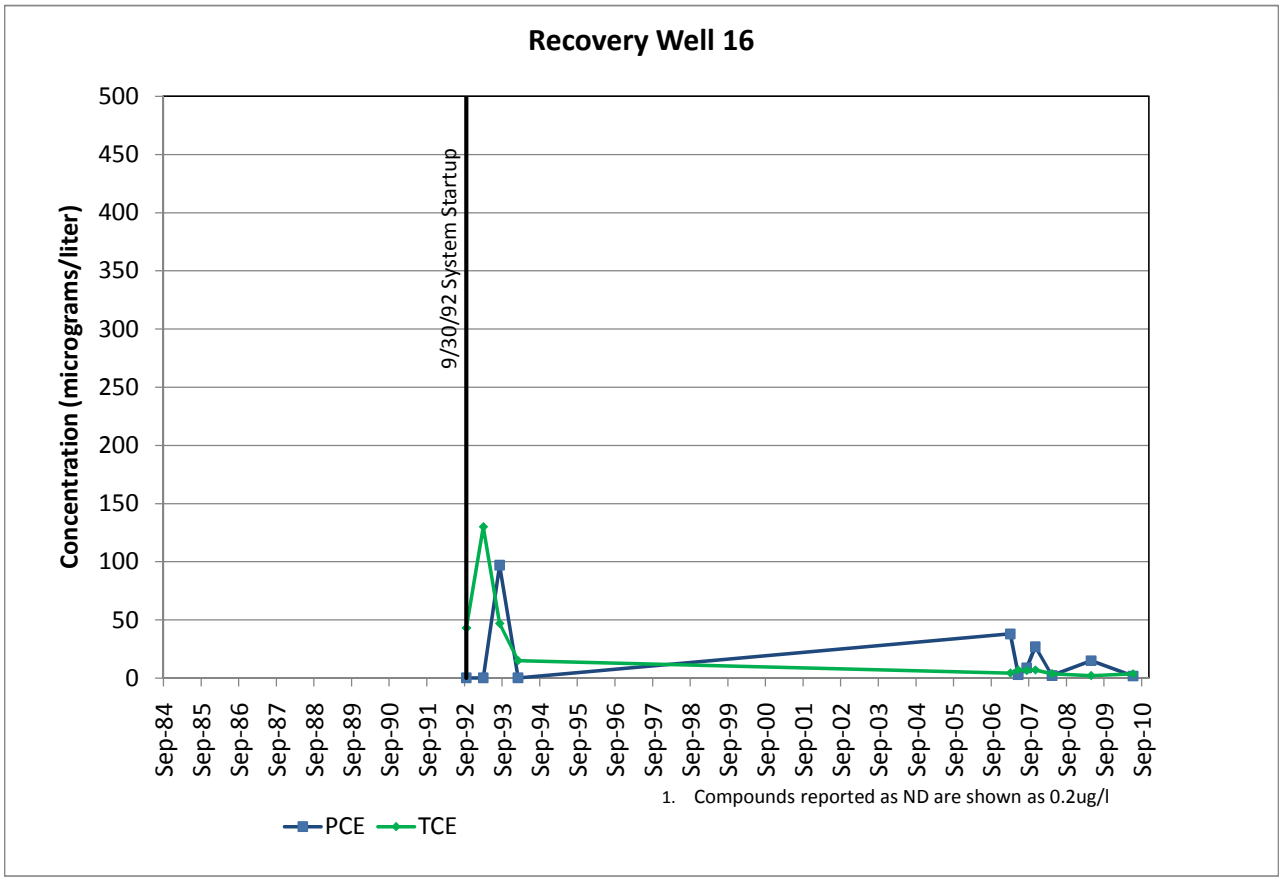

Recovery Well 14
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

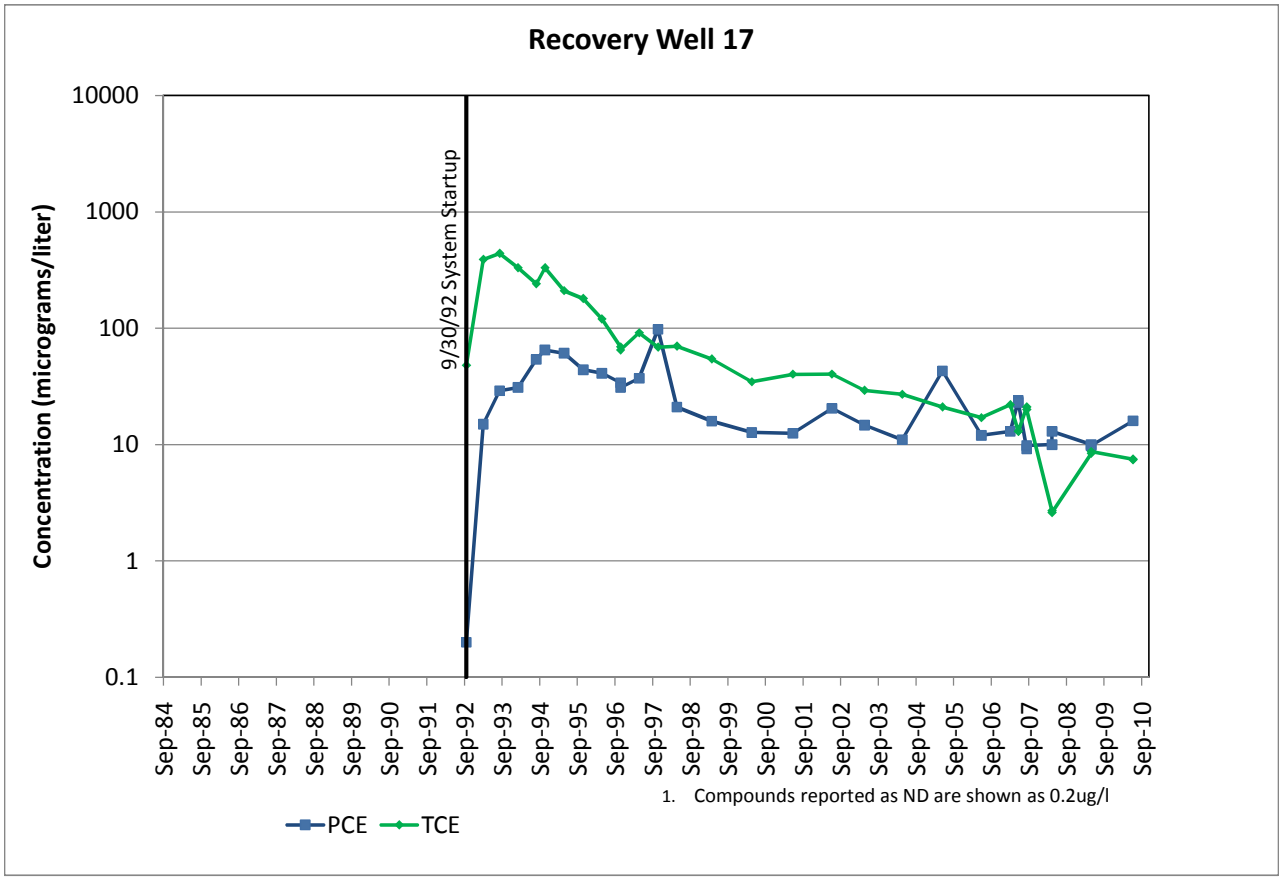

Recovery Well 14
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

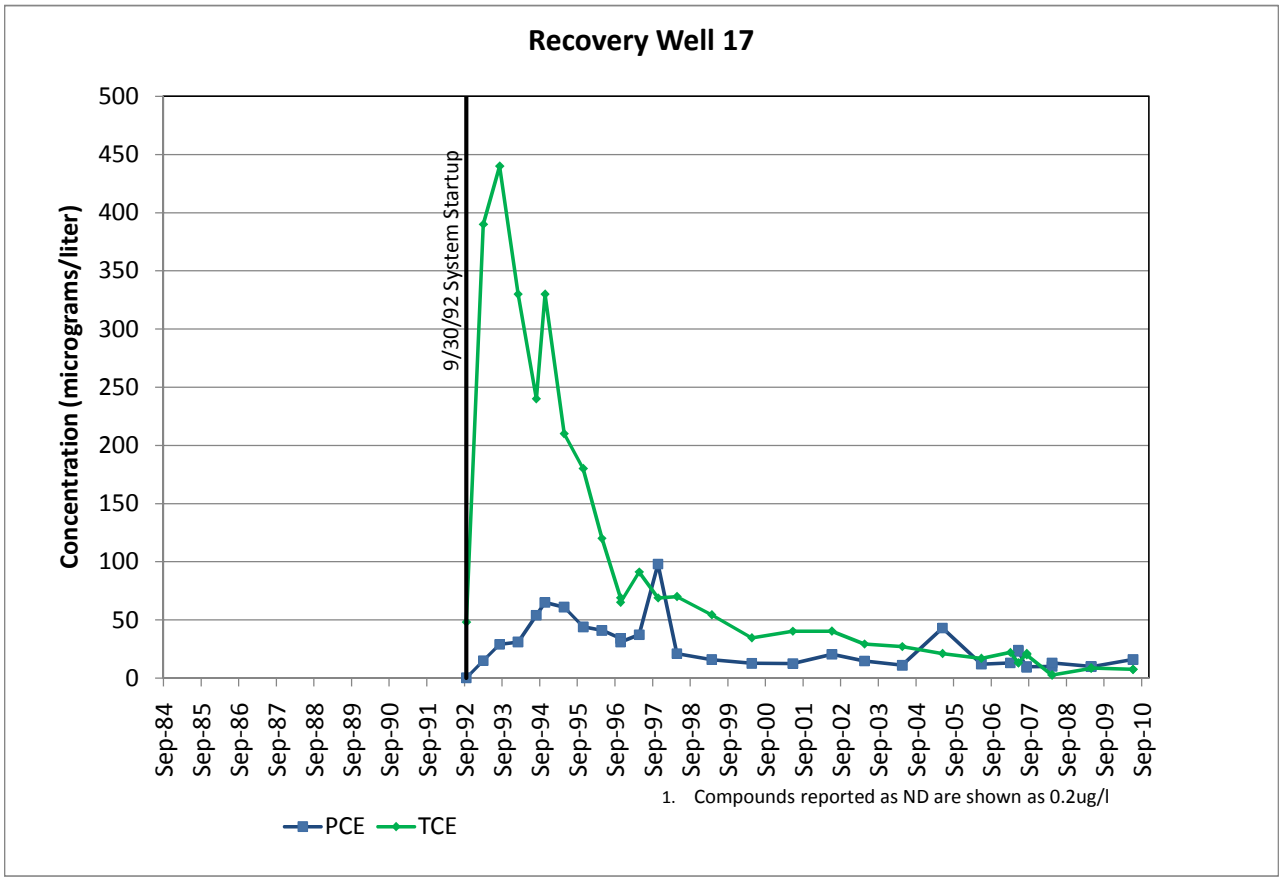

Recovery Well 15
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

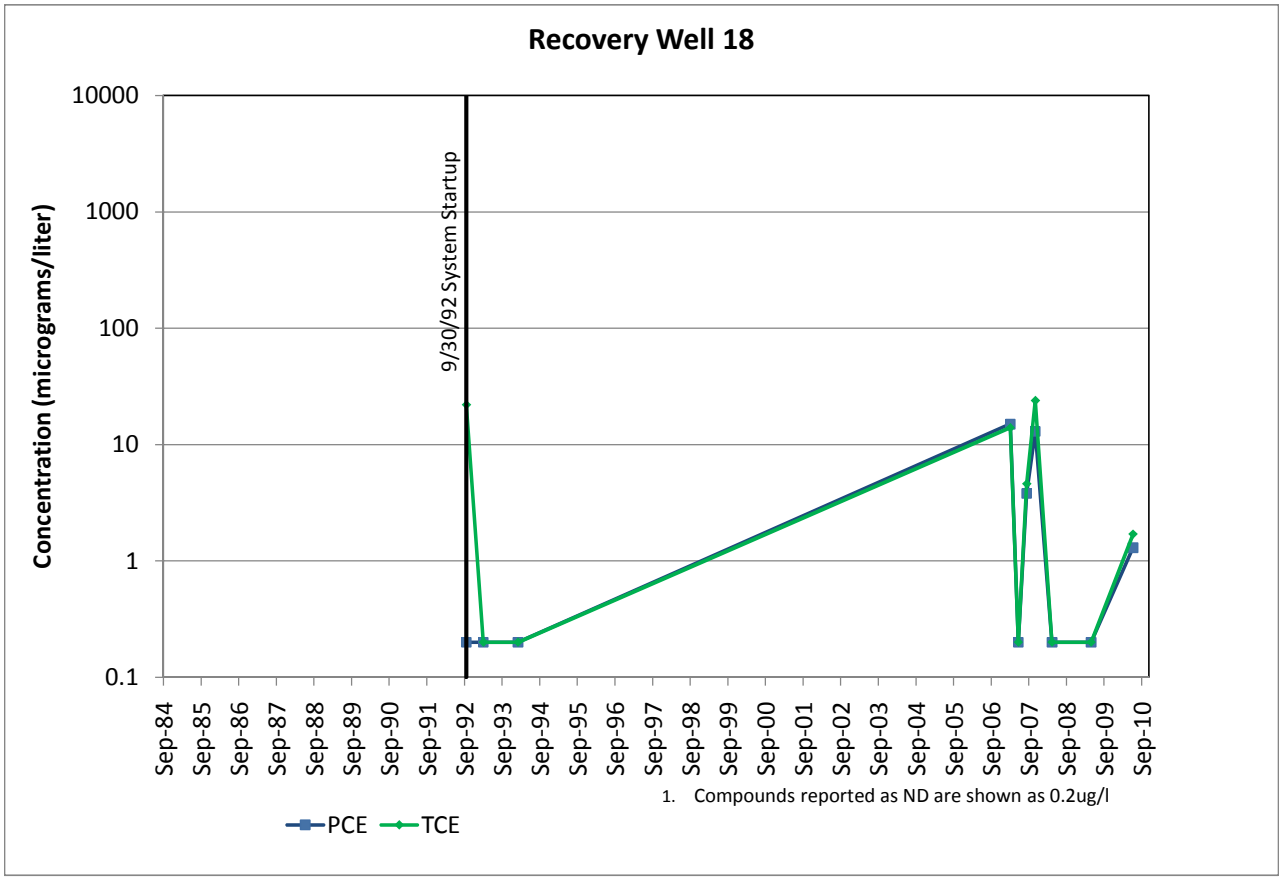

Recovery Well 15
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

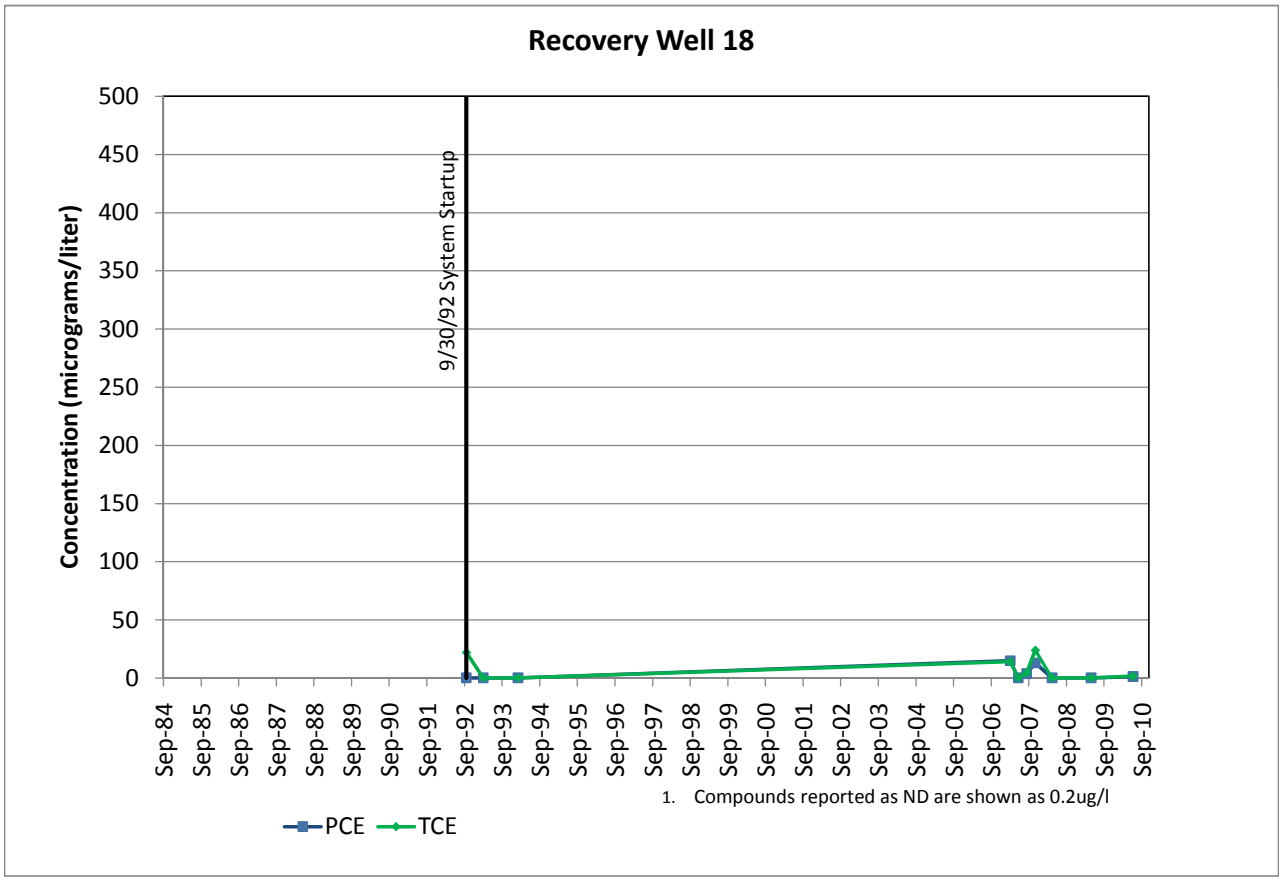

Recovery Well 16
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

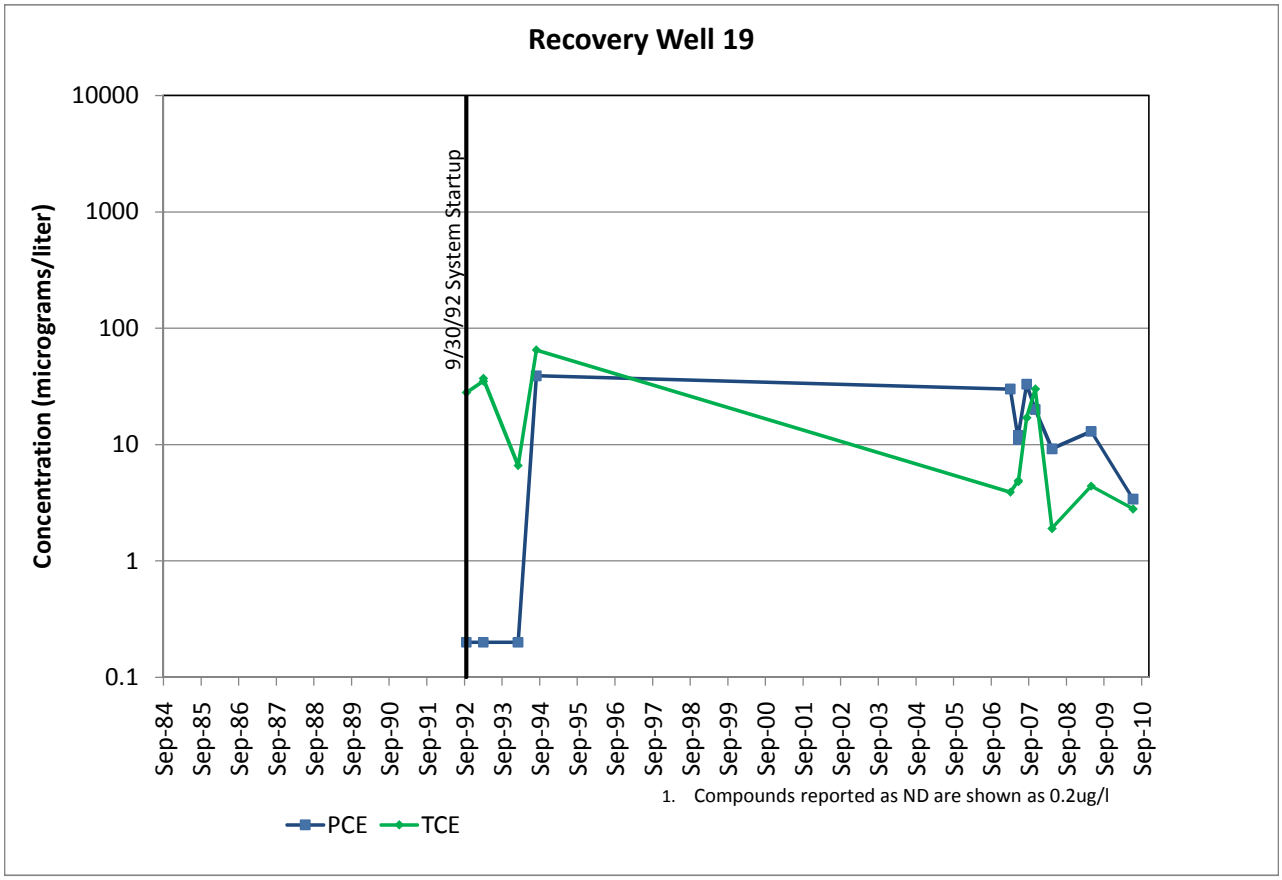

Recovery Well 16
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

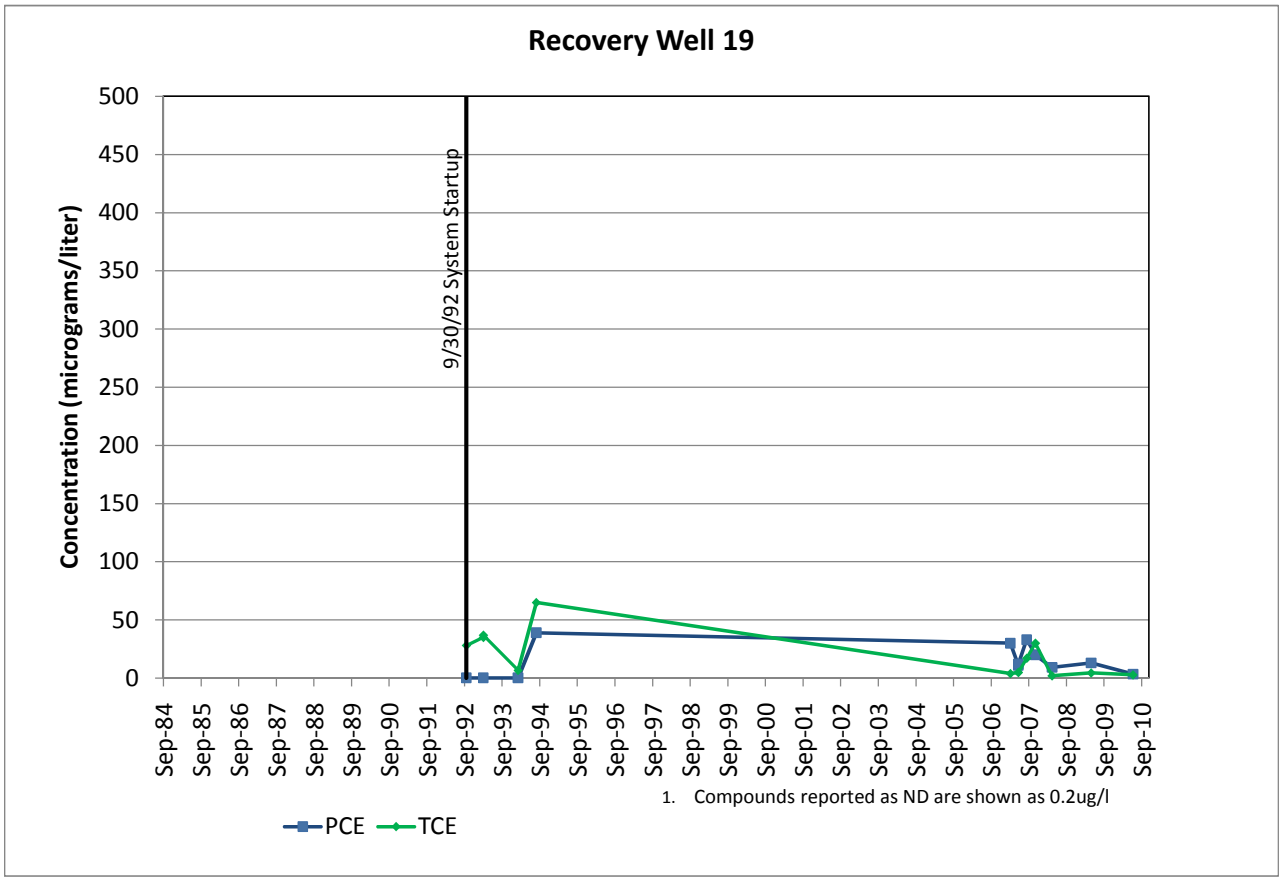

Recovery Well 17
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

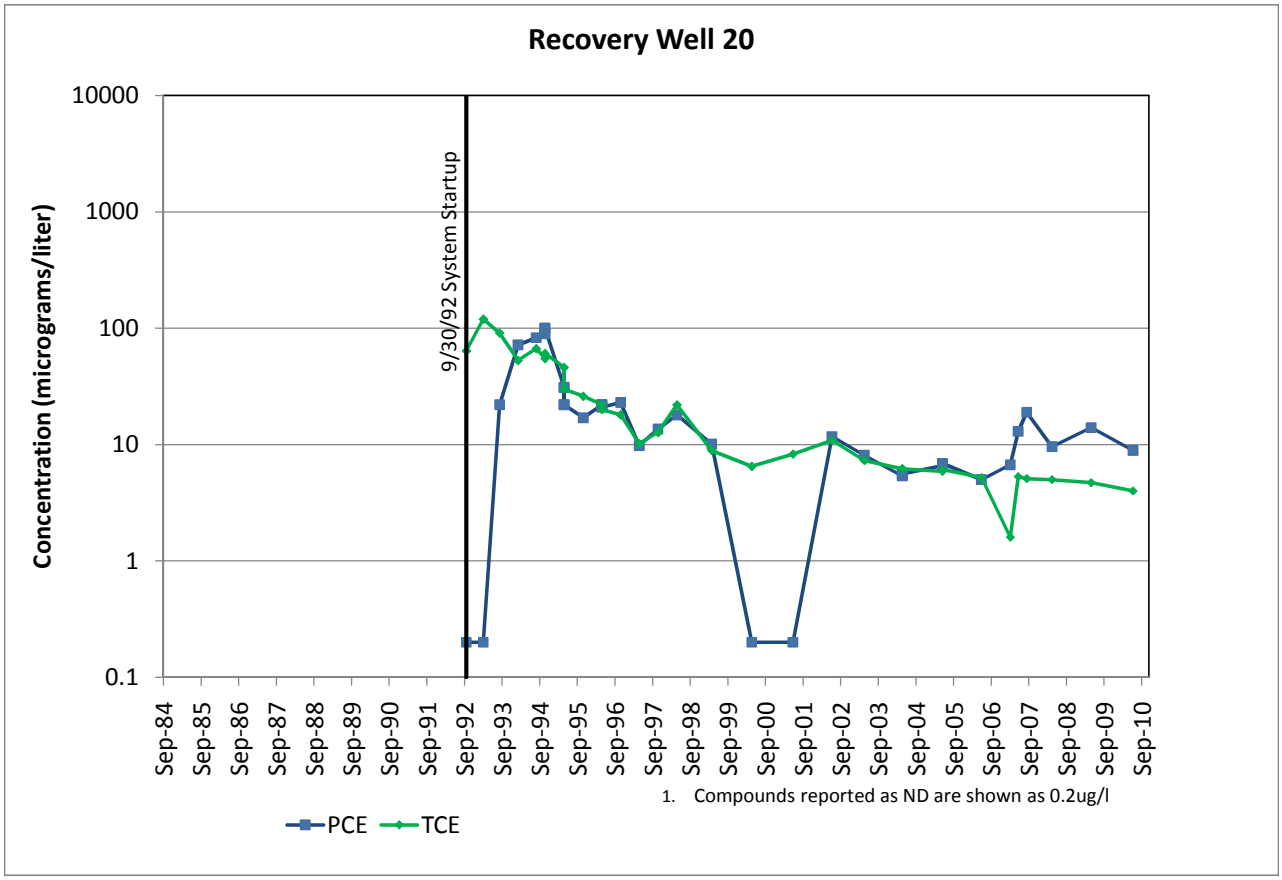

Recovery Well 17
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

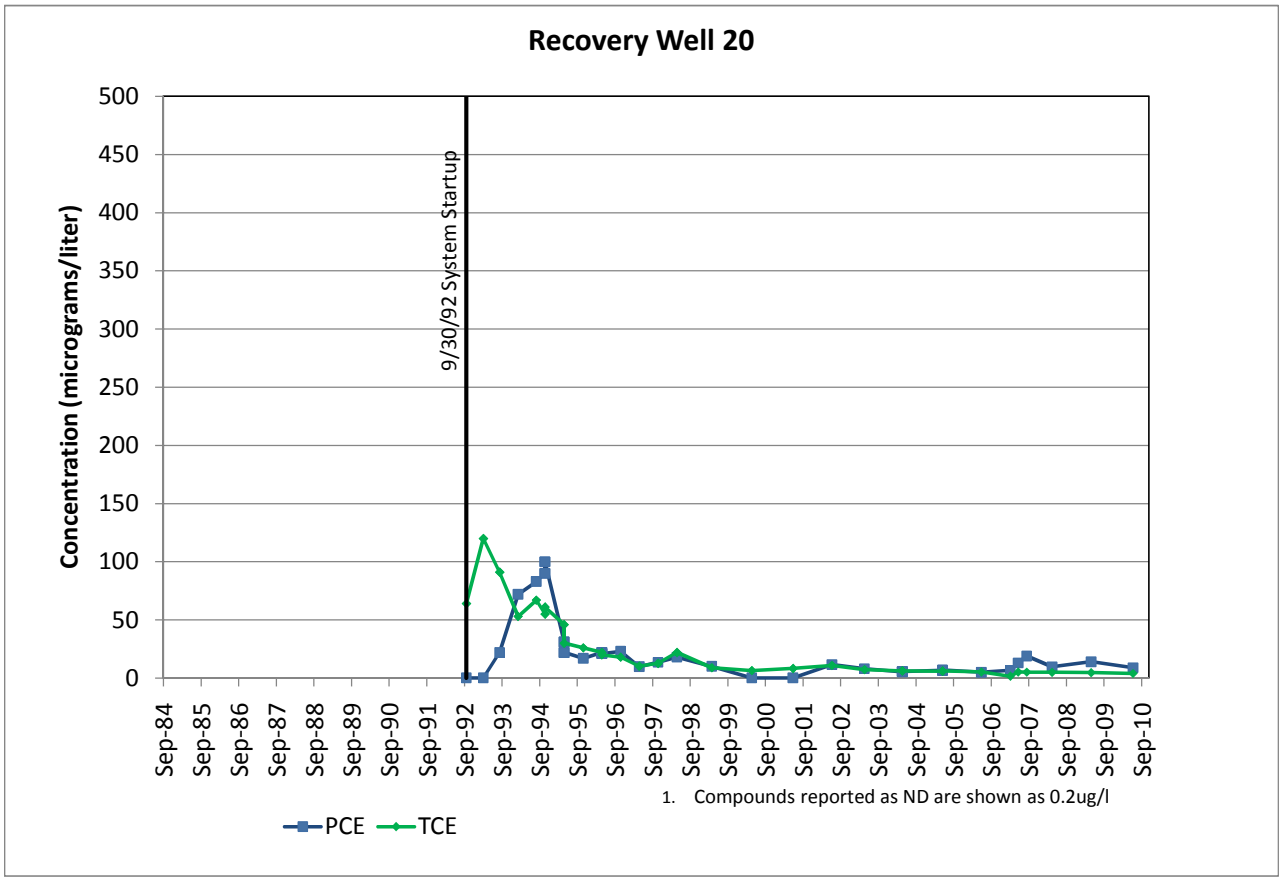

Recovery Well 18
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

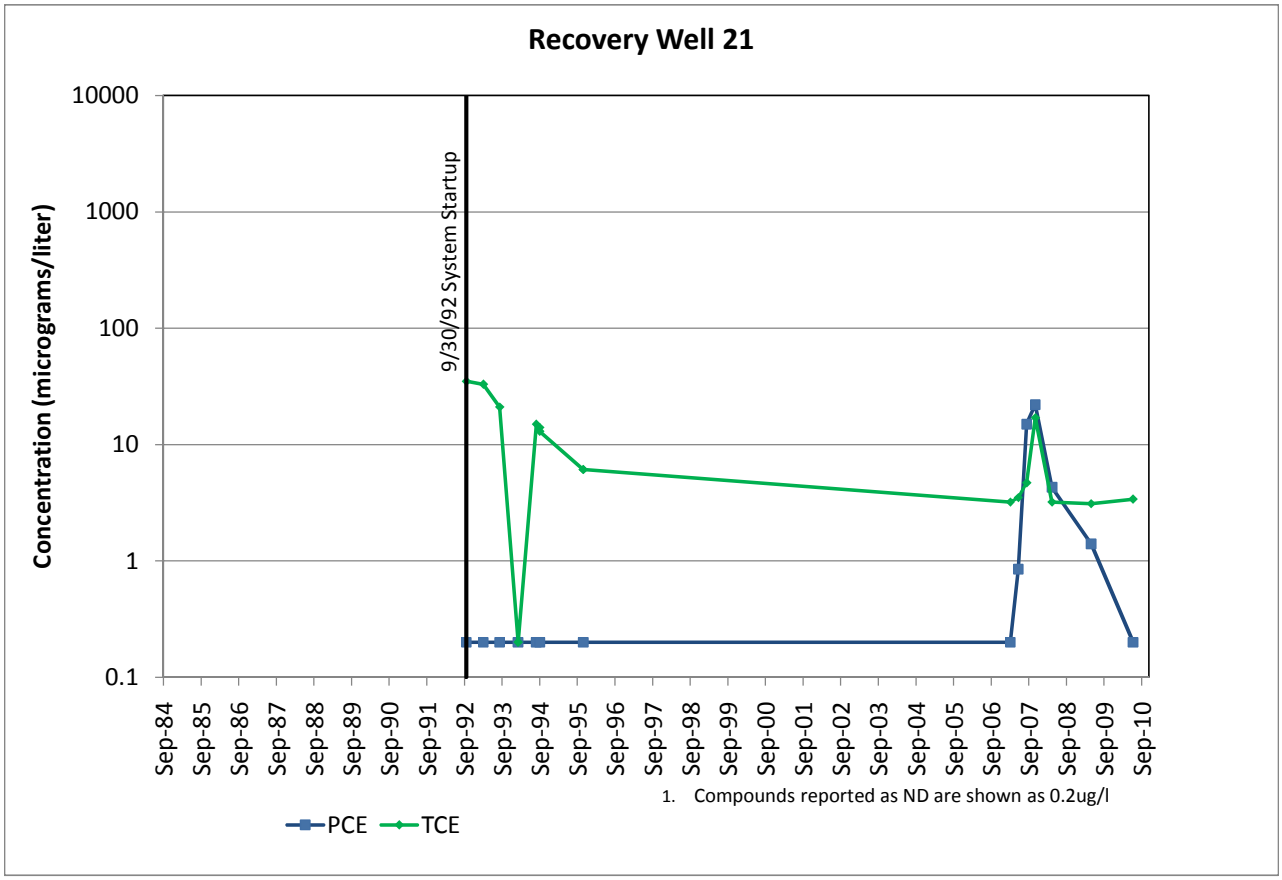

Recovery Well 18
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

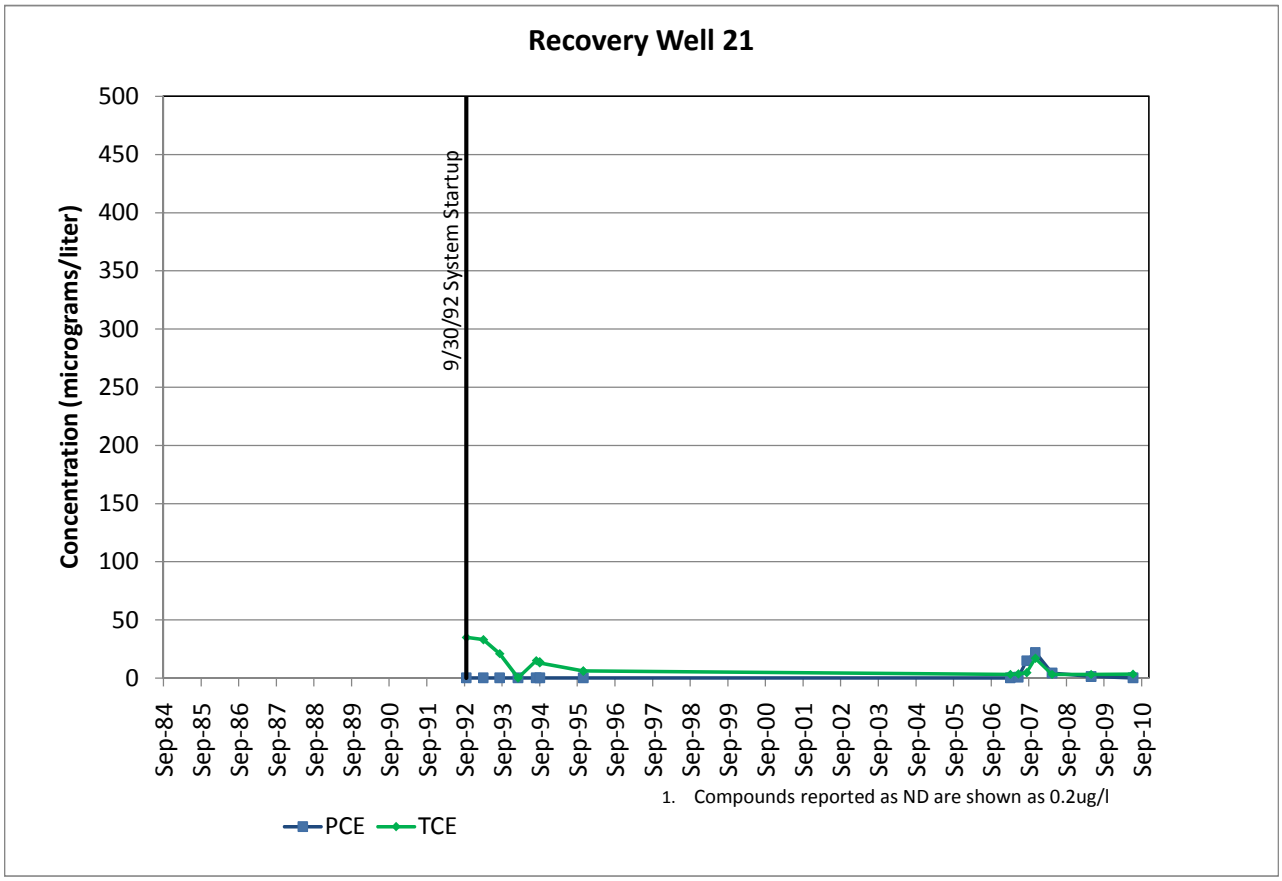

Recovery Well 19
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

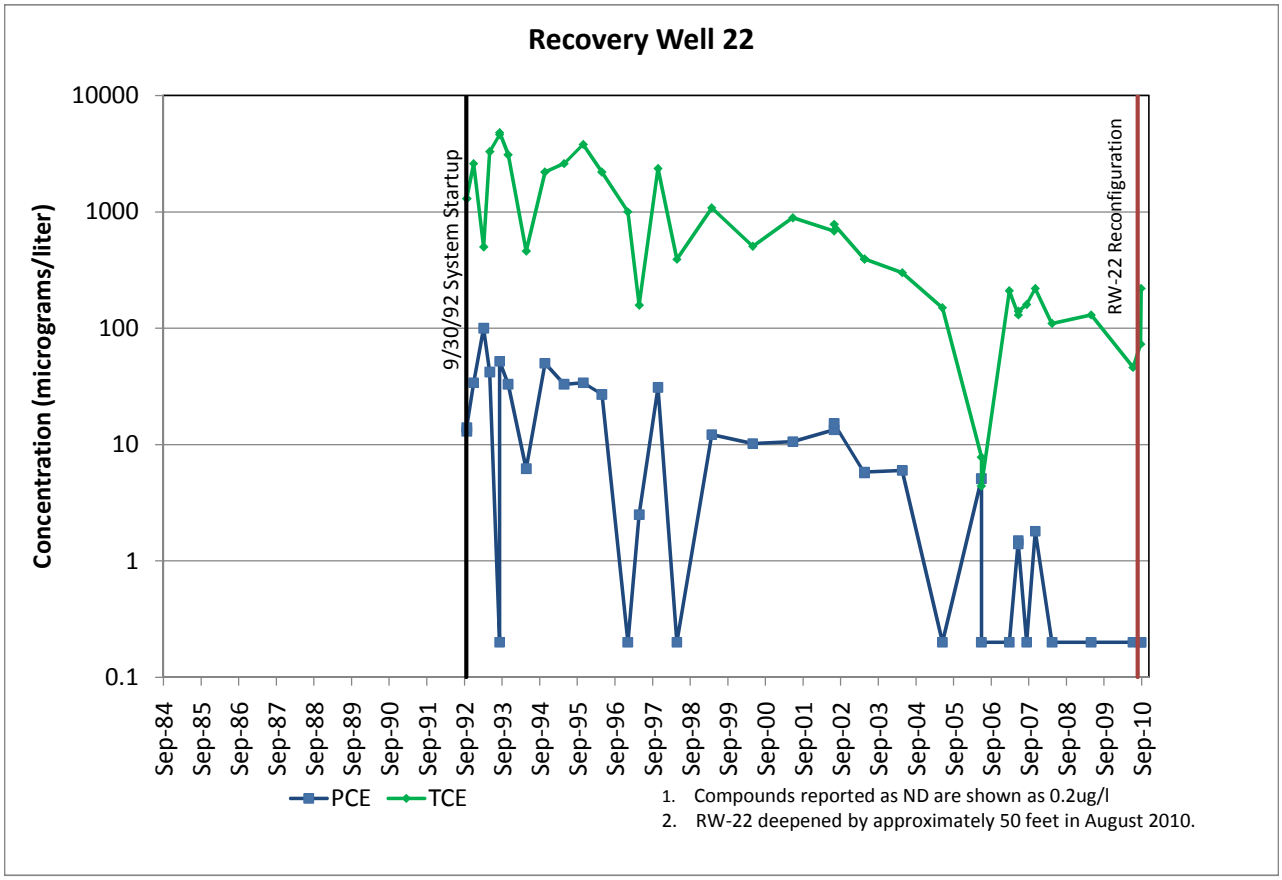

Recovery Well 19
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

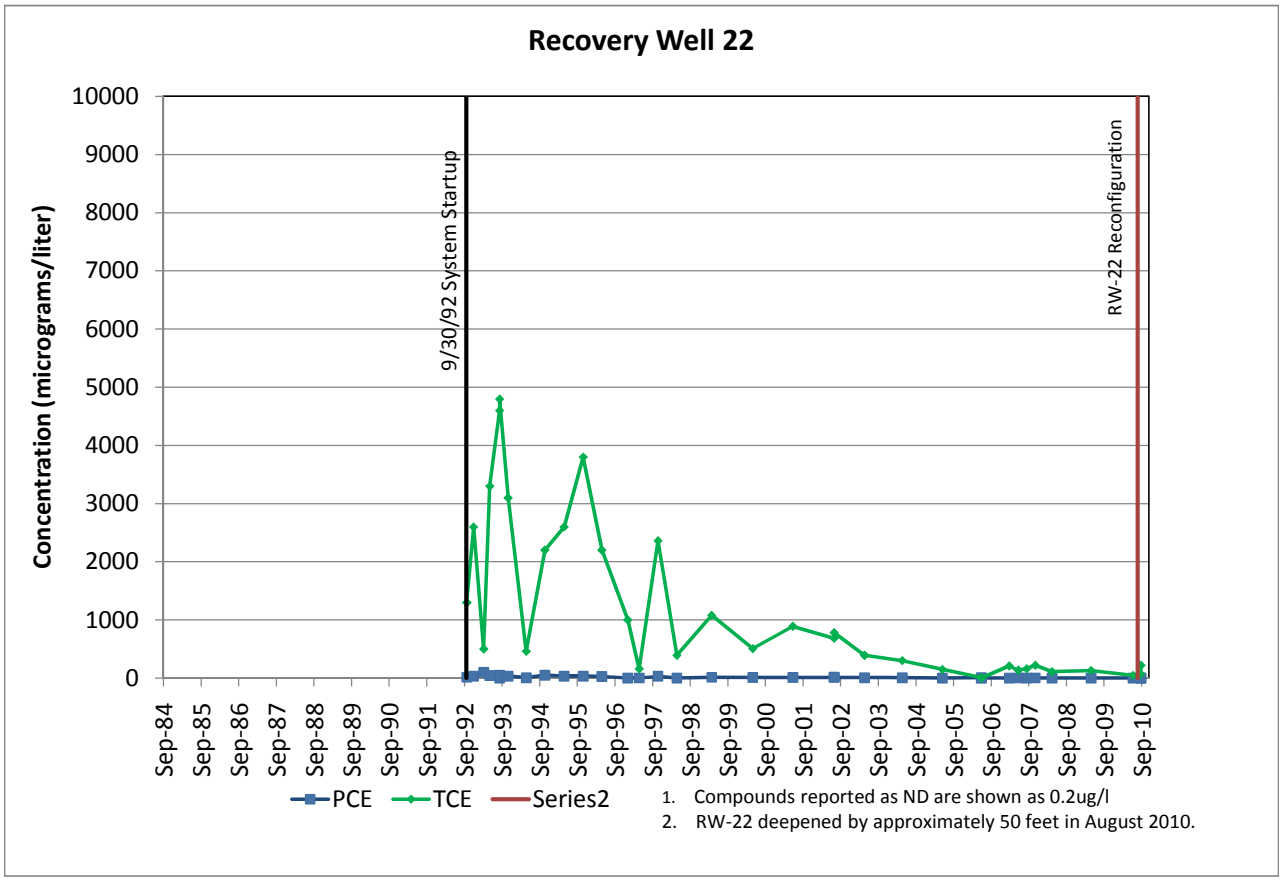

Recovery Well 20
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

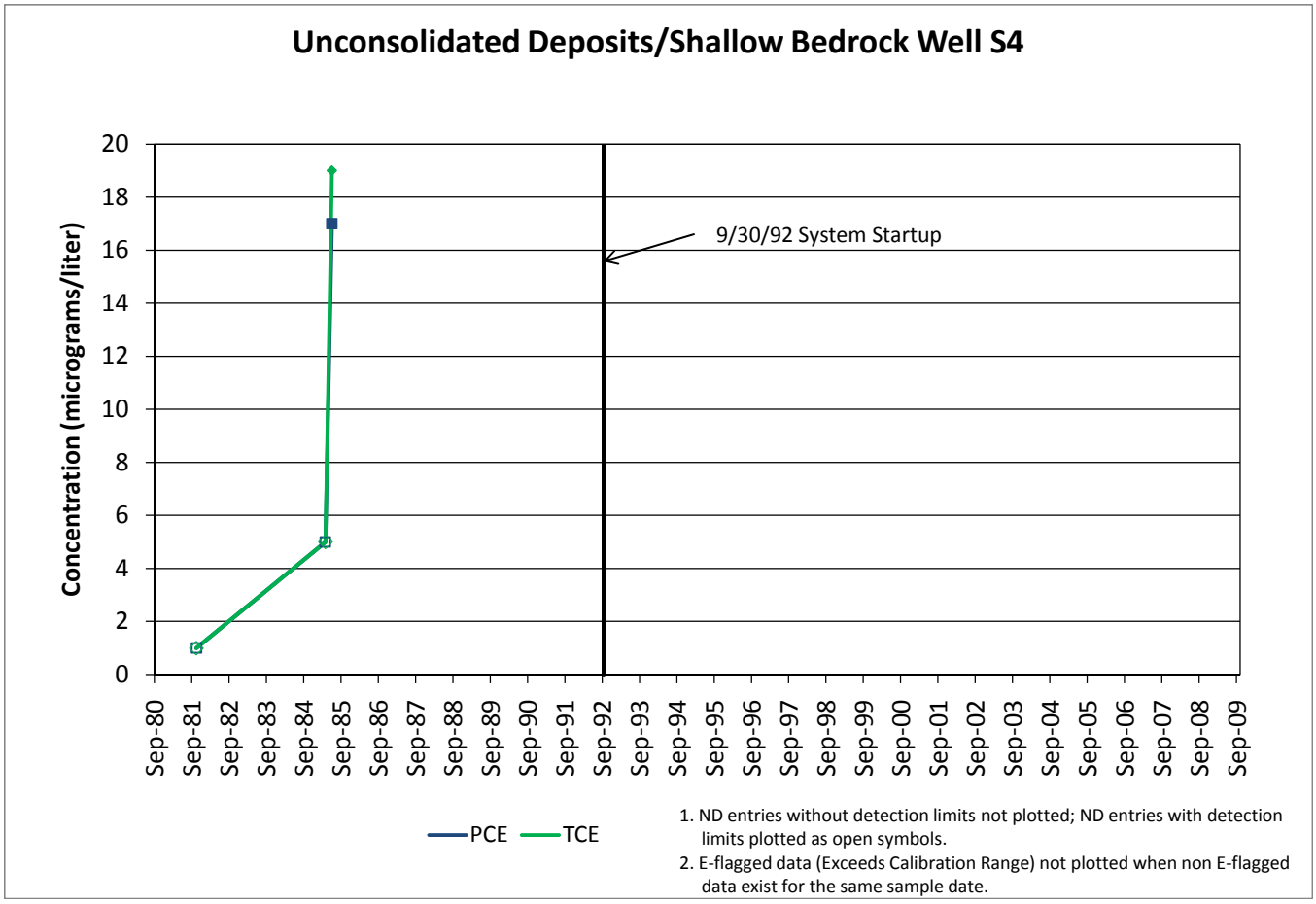

Recovery Well 20
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

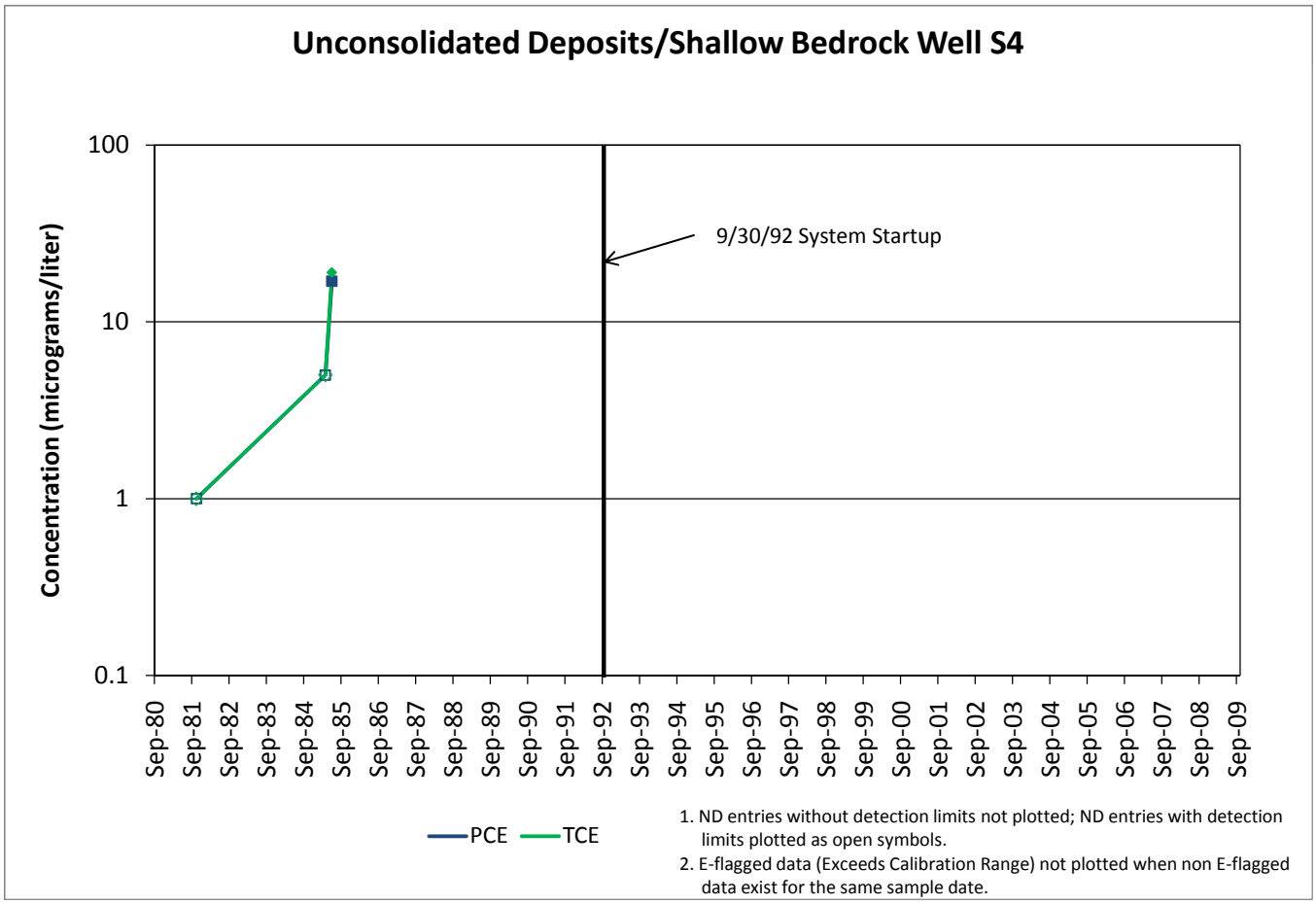

Recovery Well 21
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE


Recovery Well 21
Concentration (micrograms/liter)
500
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
1. Compounds reported as ND are shown as 0.2ug/l
PCE
TCE

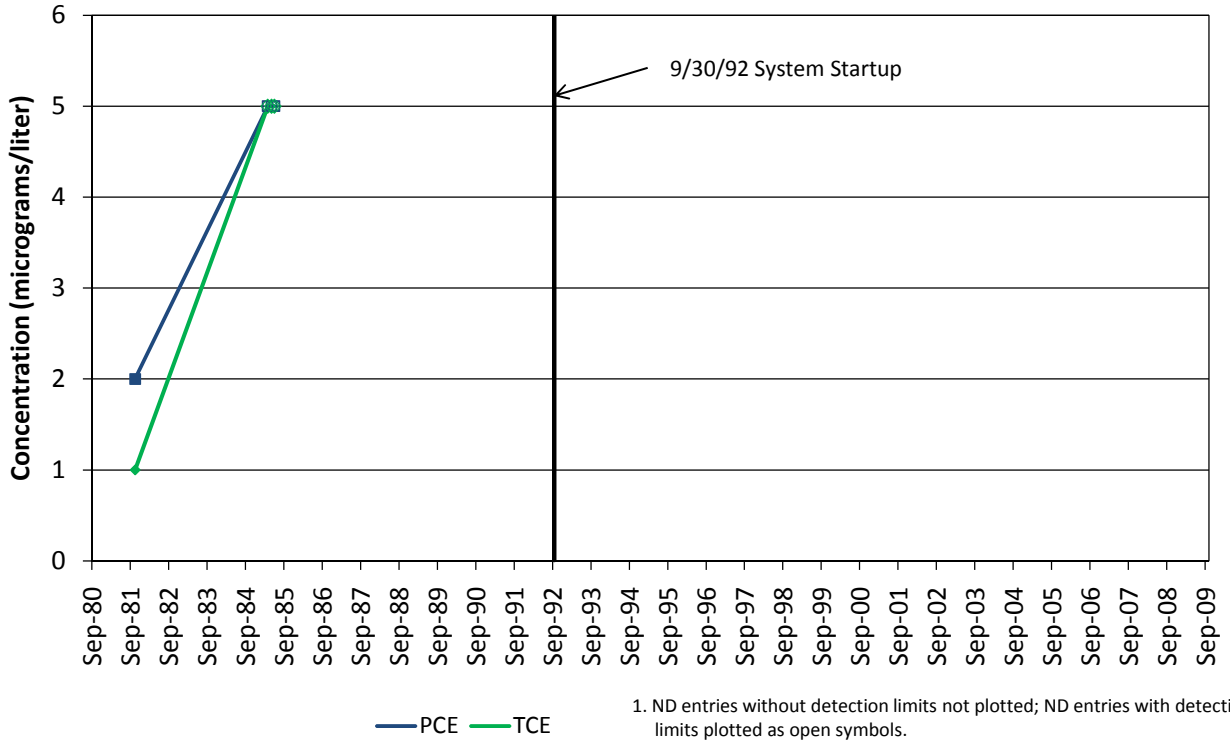

Recovery Well 22
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
RW-22 Reconfiguration
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. Compounds reported as ND are shown as 0.2ug/l
2. RW-22 deepened by approximately 50 feet in August 2010.


Recovery Well 22
Concentration (micrograms/liter)
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
9/30/92 System Startup
RW-22 Reconfiguration
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
Series2
1. Compounds reported as ND are shown as 0.2ug/l
2. RW-22 deepened by approximately 50 feet in August 2010.


Unconsolidated Deposits/Shallow Bedrock Well S4
Concentration (micrograms/liter)
20
18
16
14
12
10
8
6
4
2
0
9/30/92 System Startup
Sep-80
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

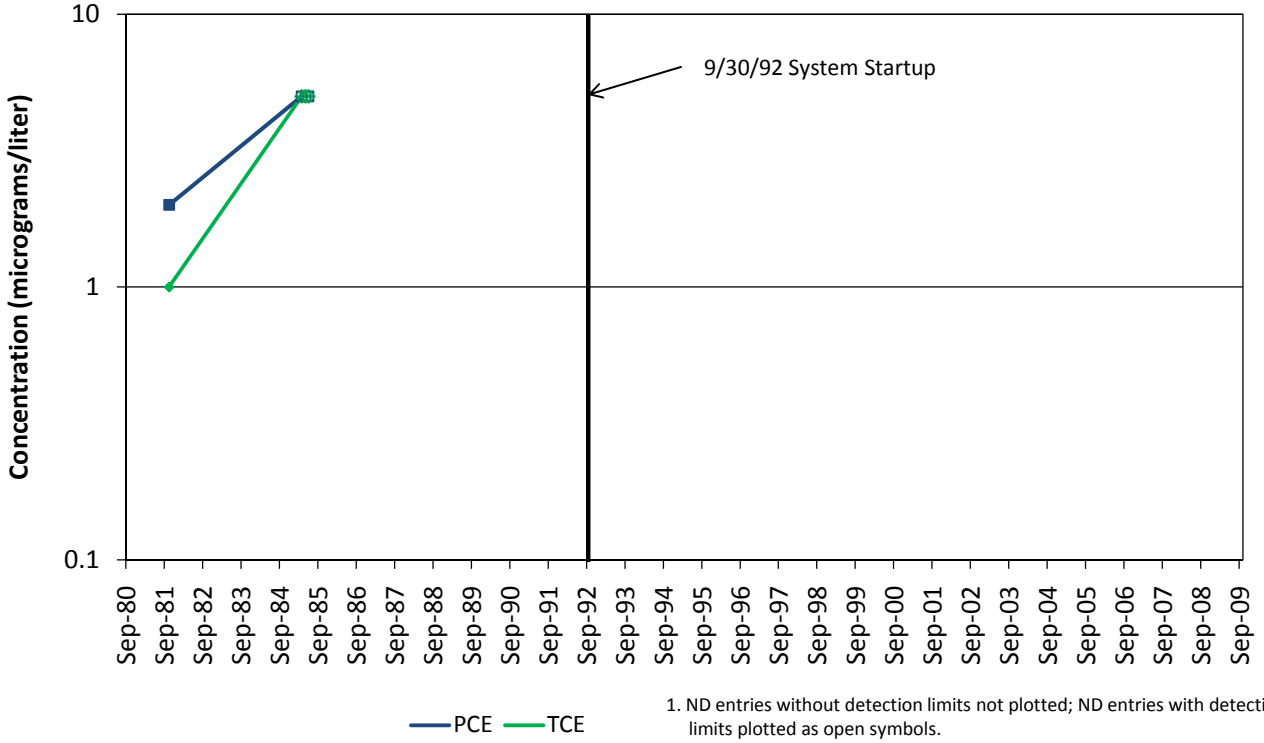

Unconsolidated Deposits/Shallow Bedrock Well S4
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-80
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Unconsolidated Deposits/Shallow Bedrock Well S5

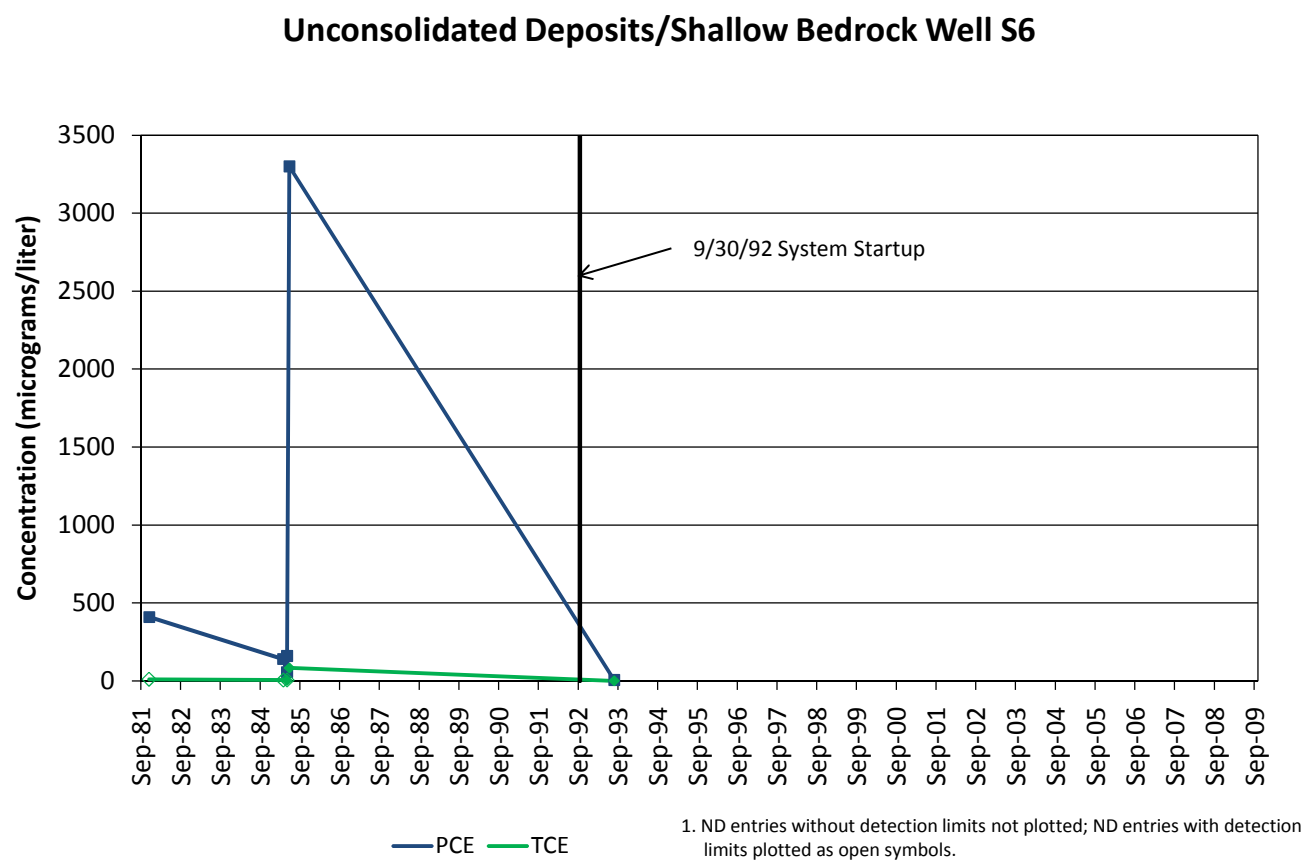


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

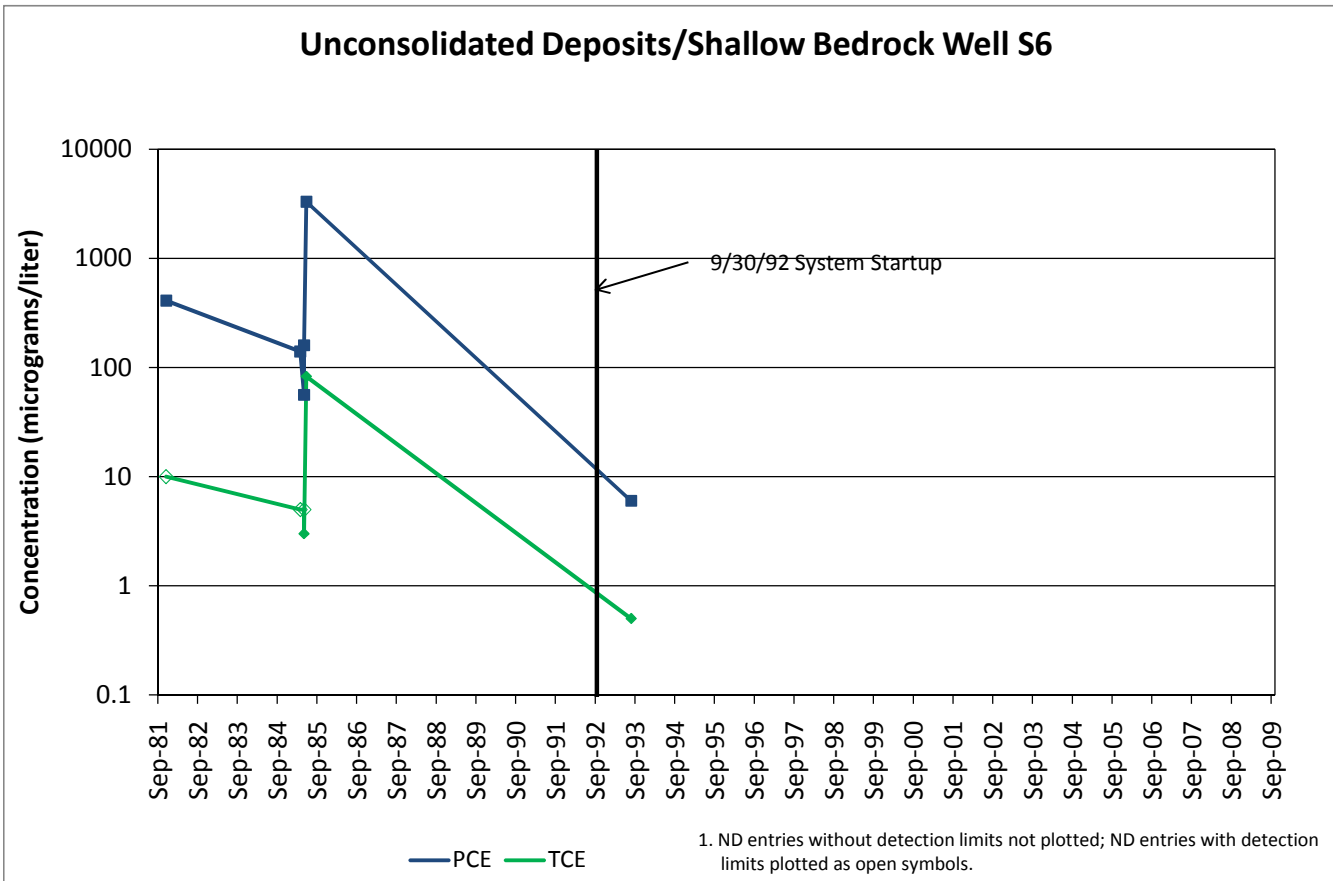
Unconsolidated Deposits/Shallow Bedrock Well S5



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

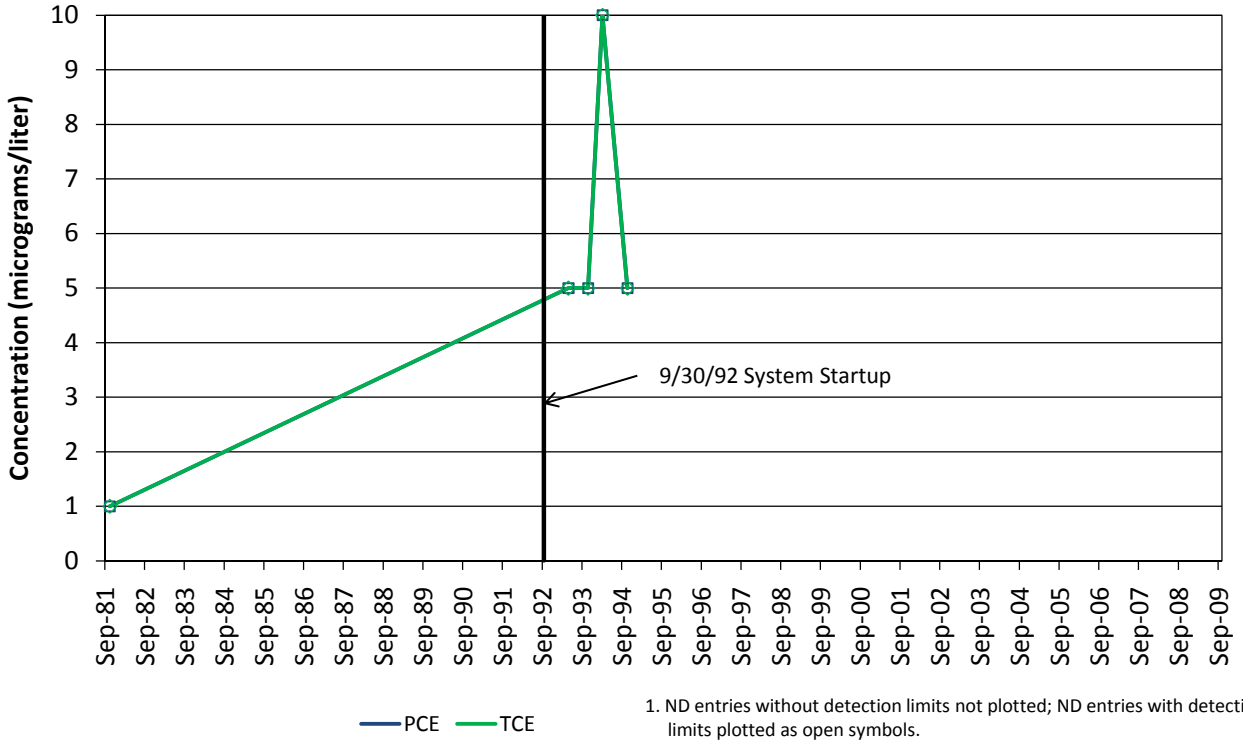


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



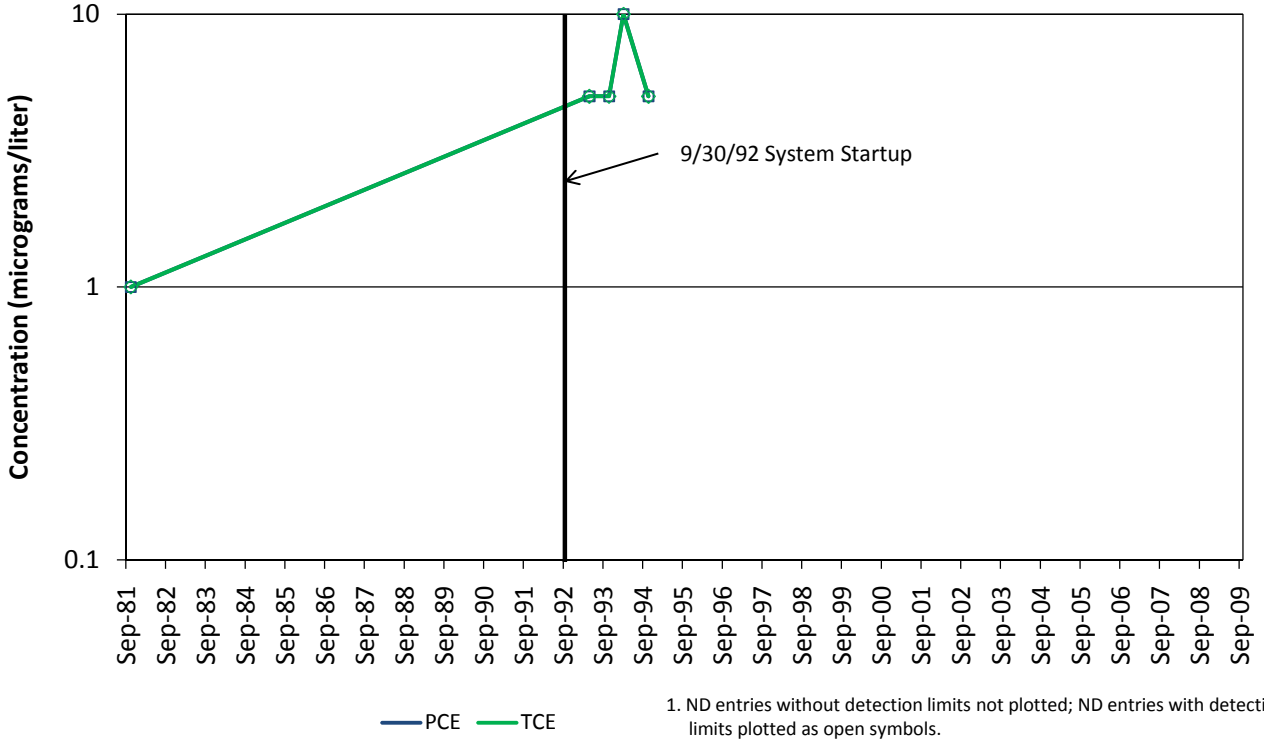
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Unconsolidated Deposits/Shallow Bedrock Well S7

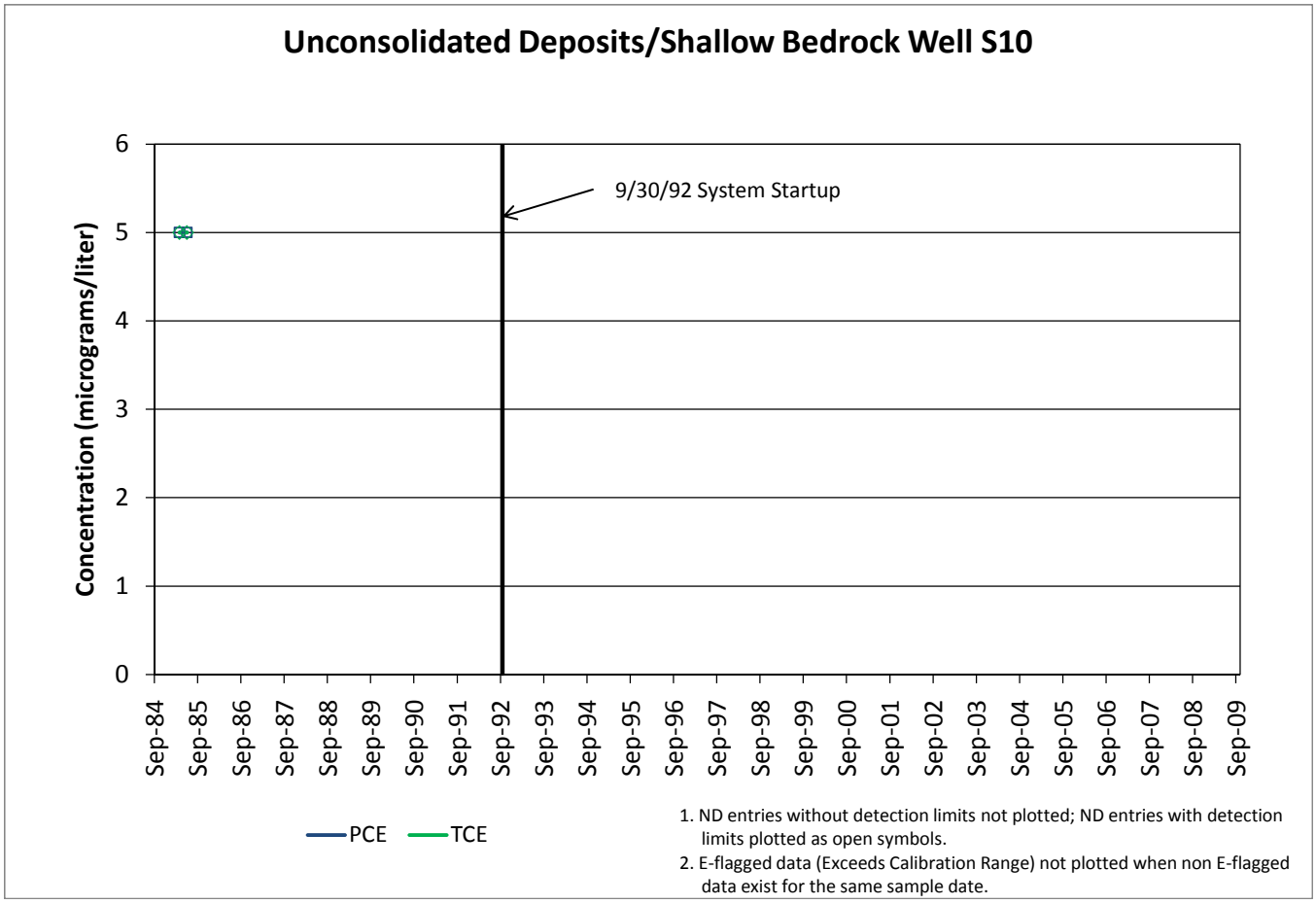


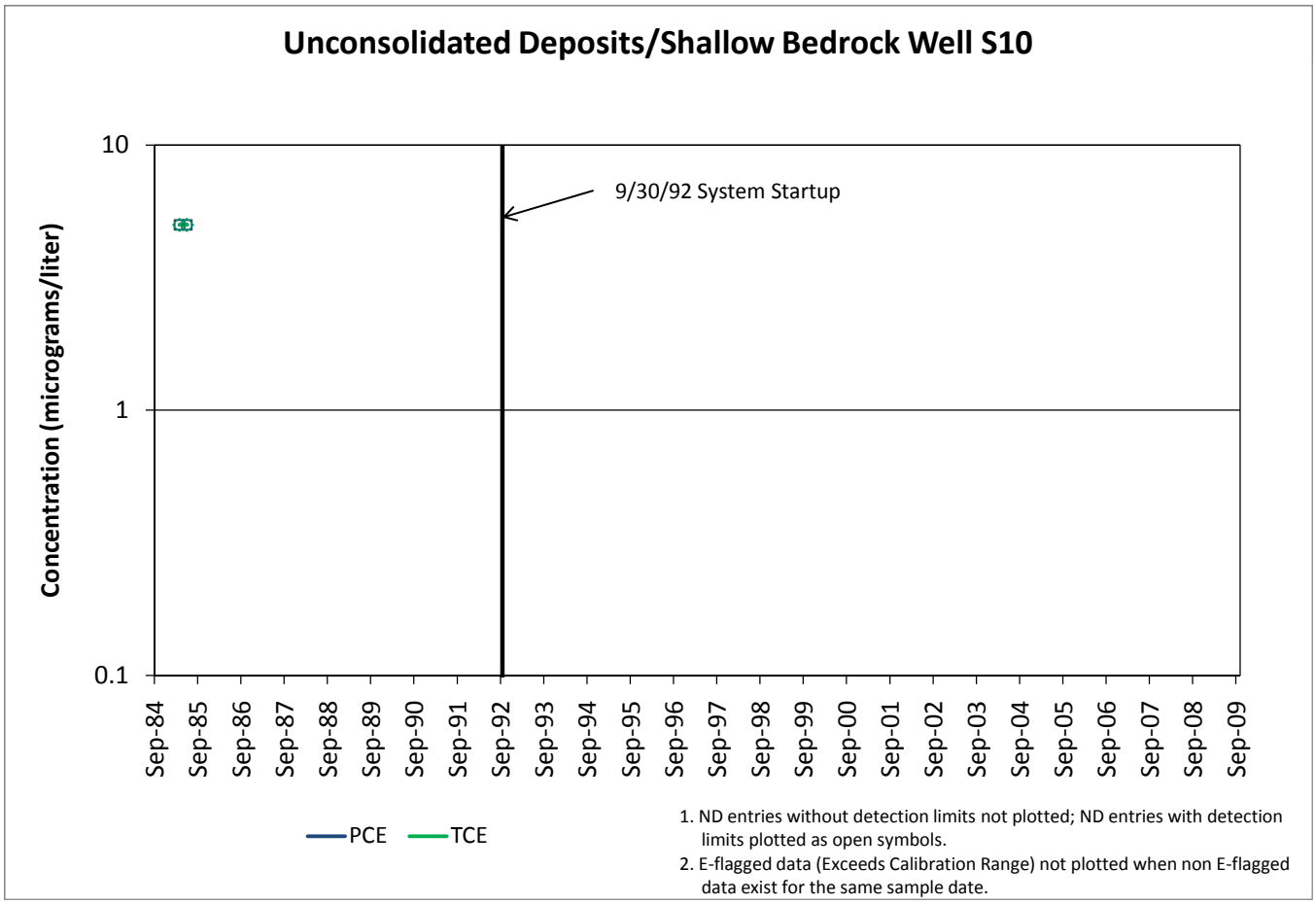
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

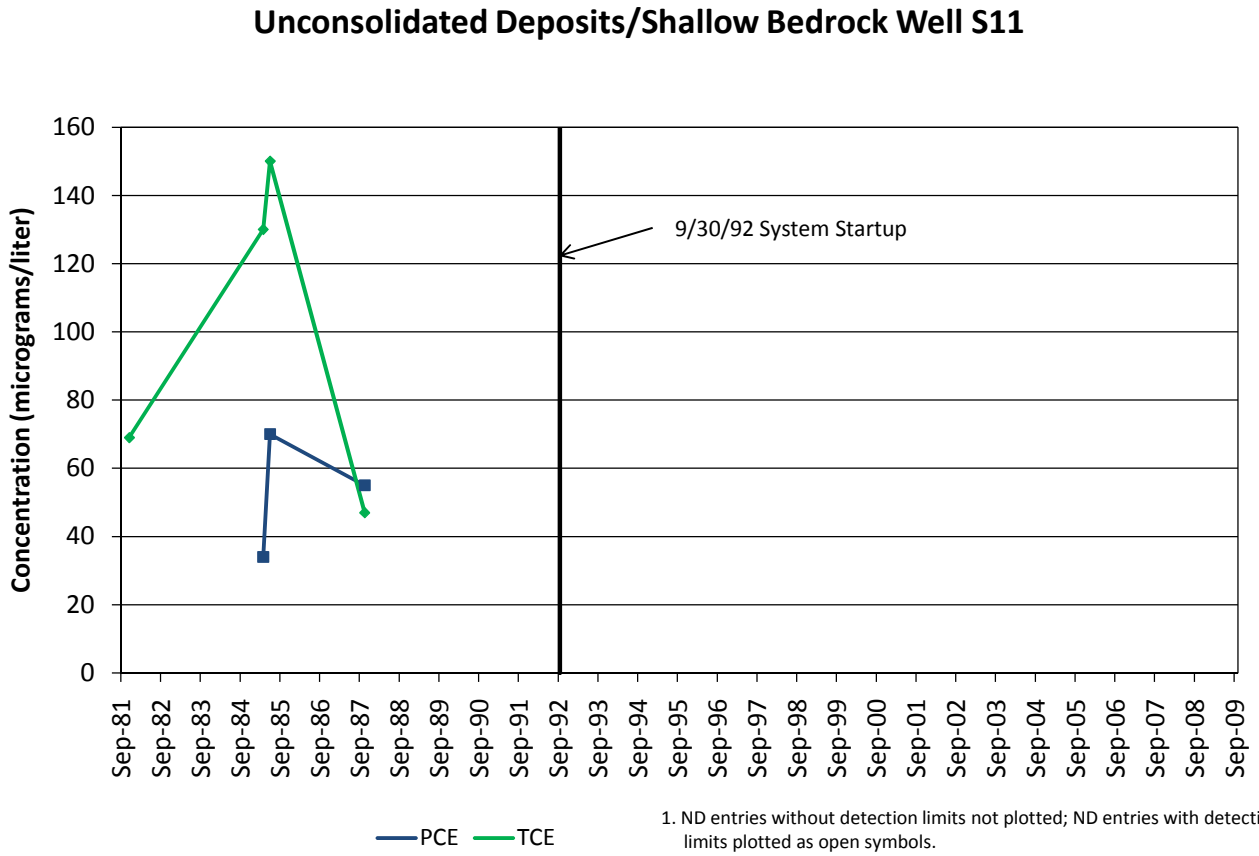
Unconsolidated Deposits/Shallow Bedrock Well S7



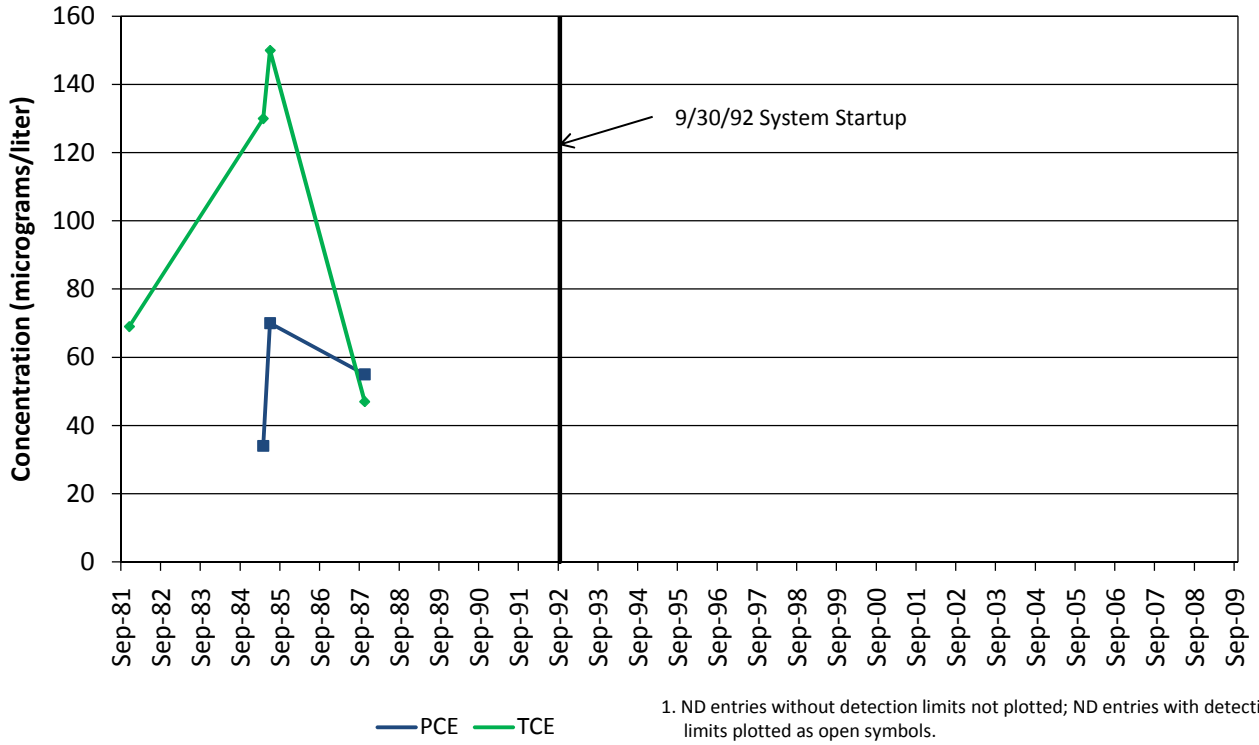
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits/Shallow Bedrock Well S10
Concentration (micrograms/liter)
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits/Shallow Bedrock Well S10
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

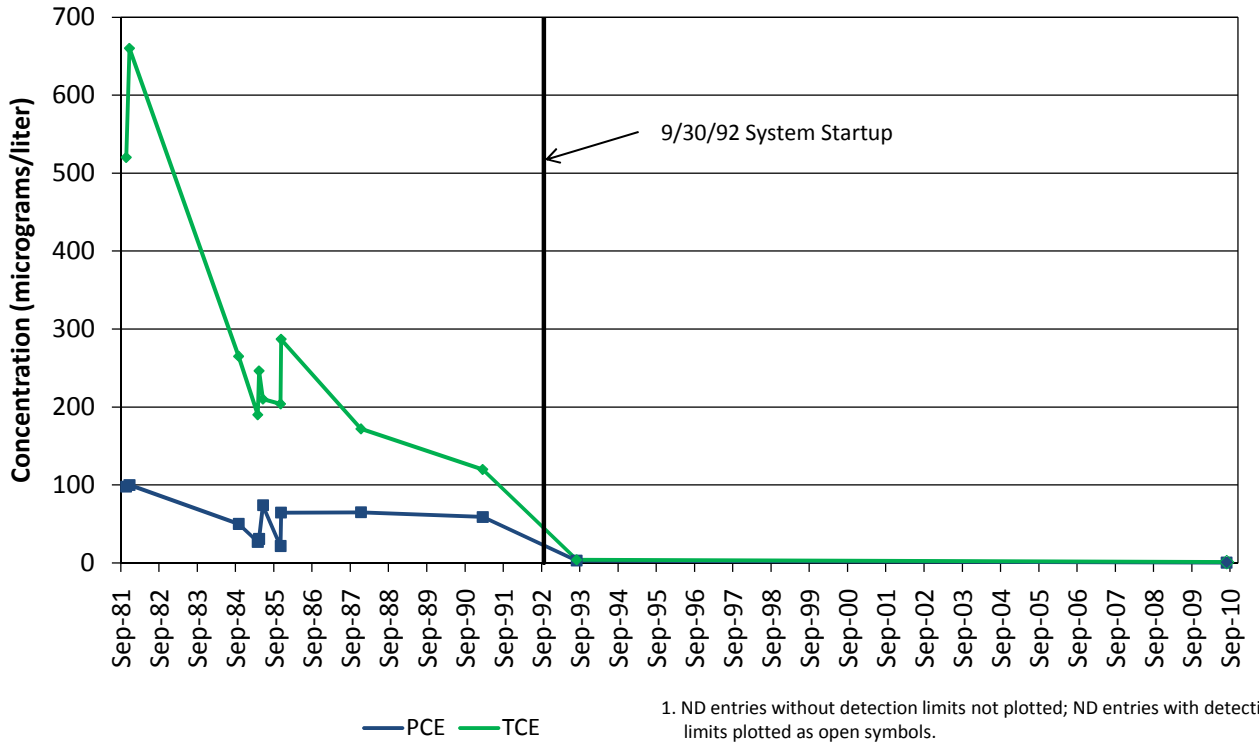


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



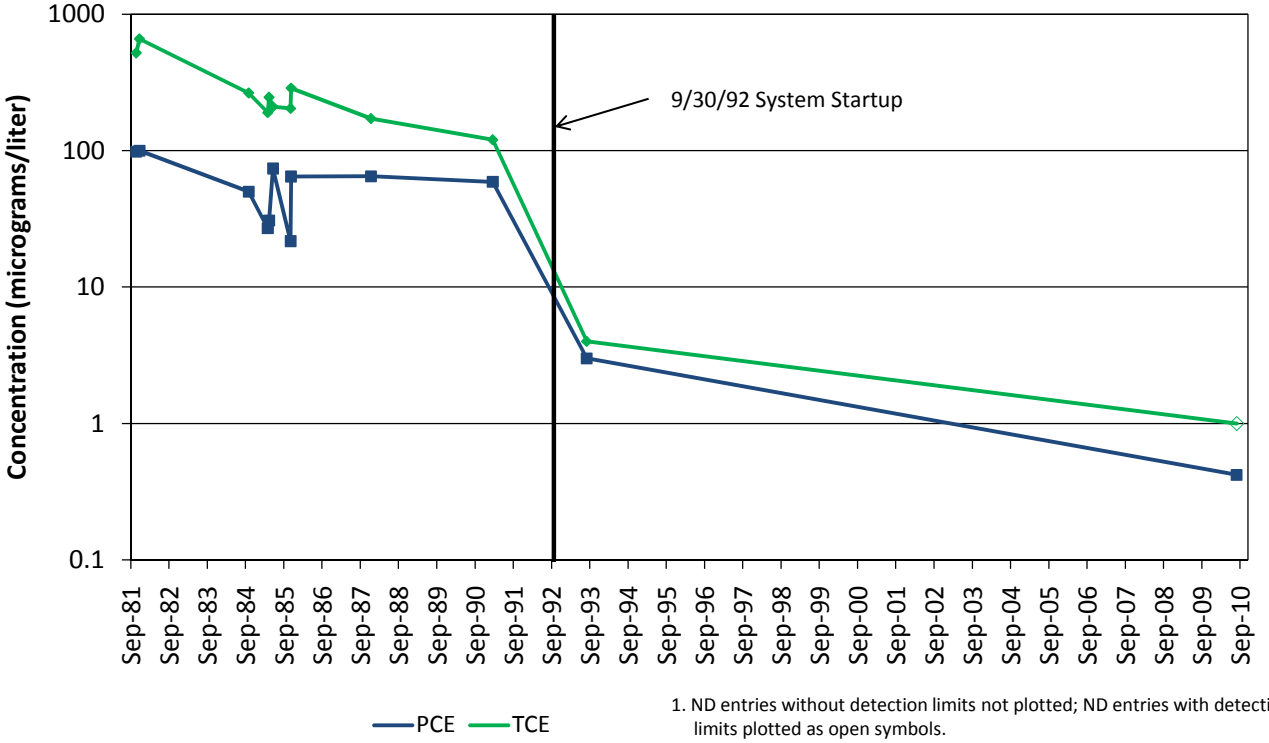
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Unconsolidated Deposits /Shallow Bedrock Well S21

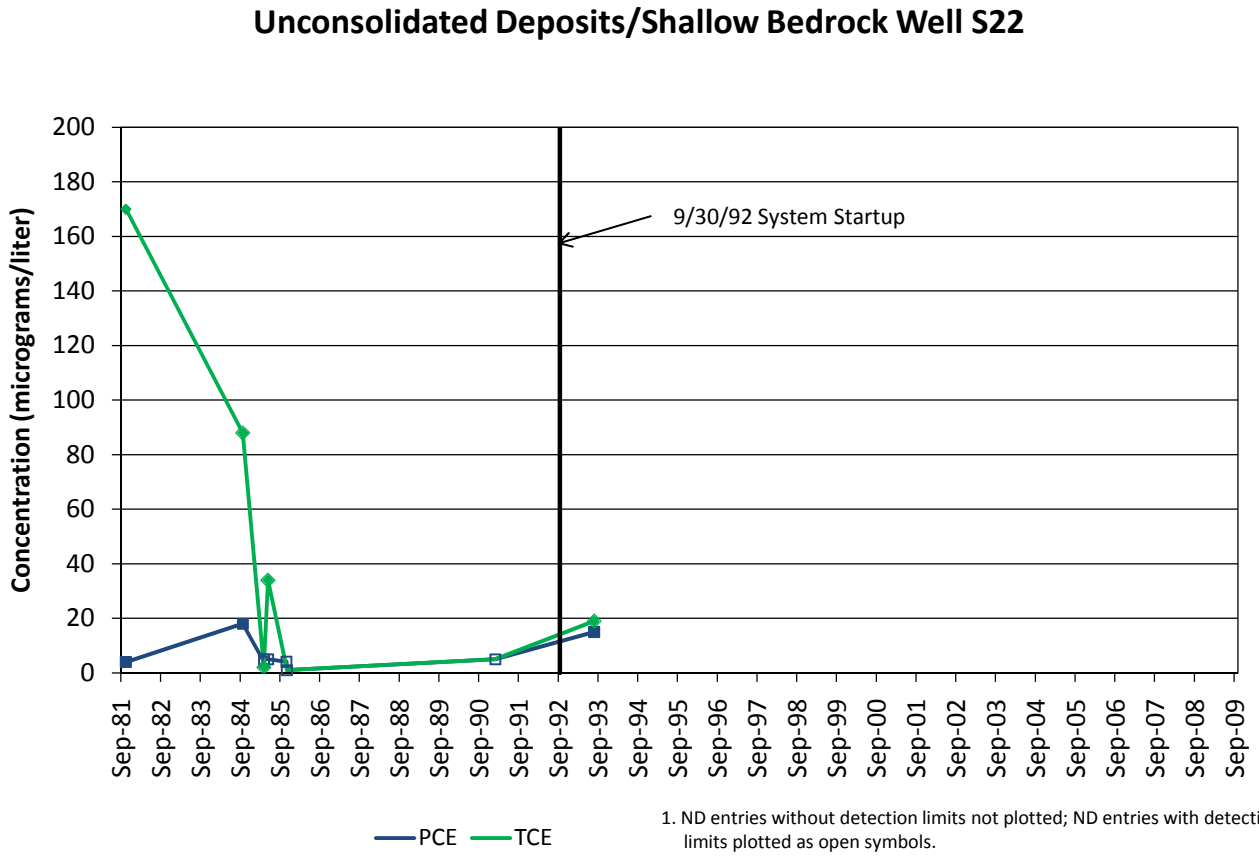


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

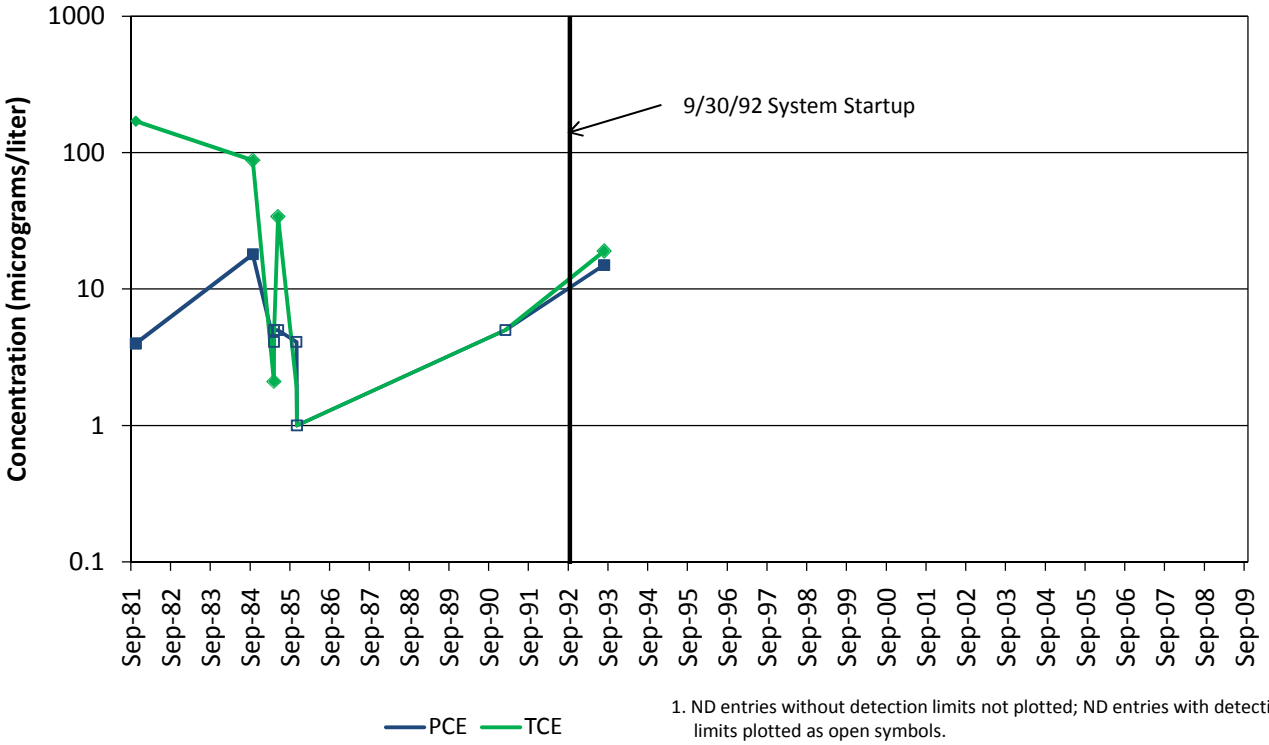
Unconsolidated Deposits/Shallow Bedrock Well S21



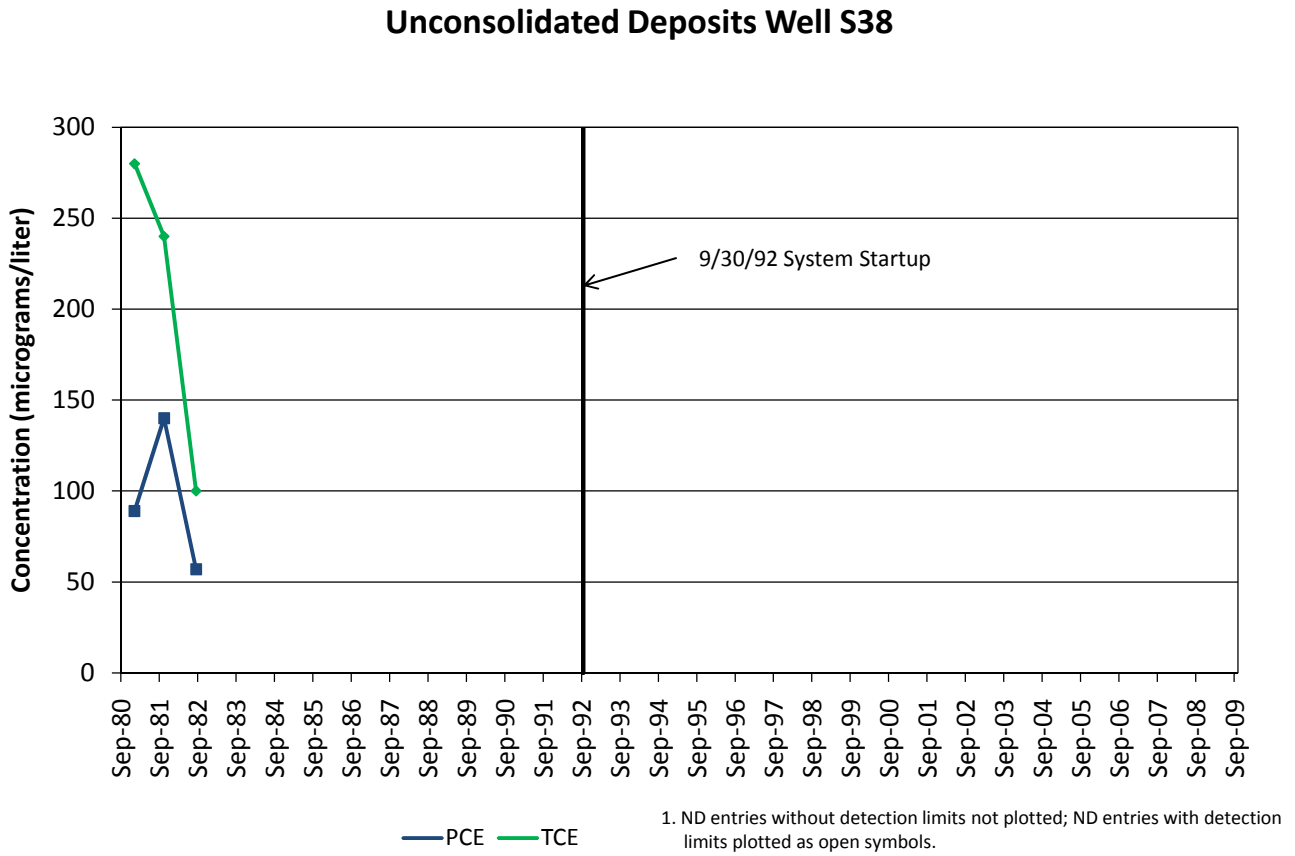
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



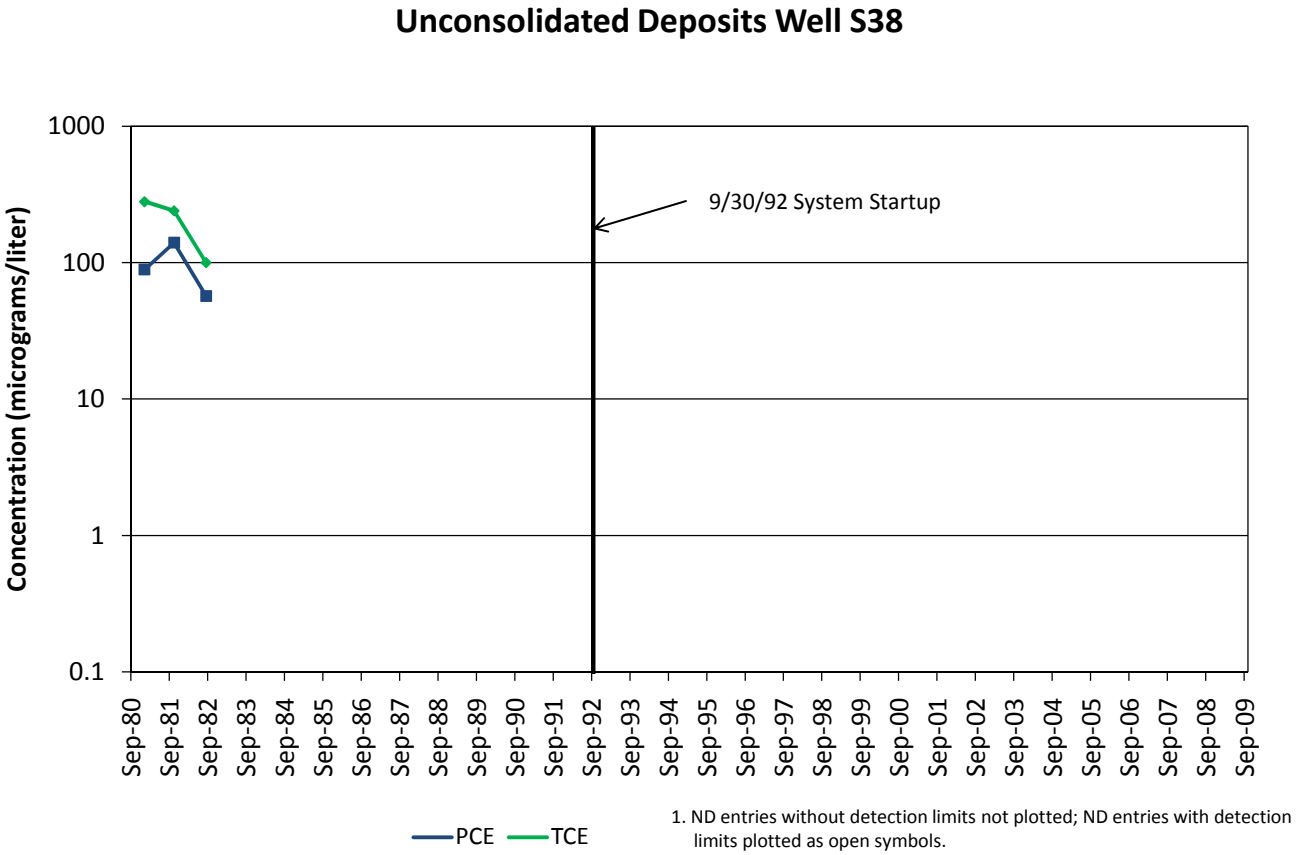
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



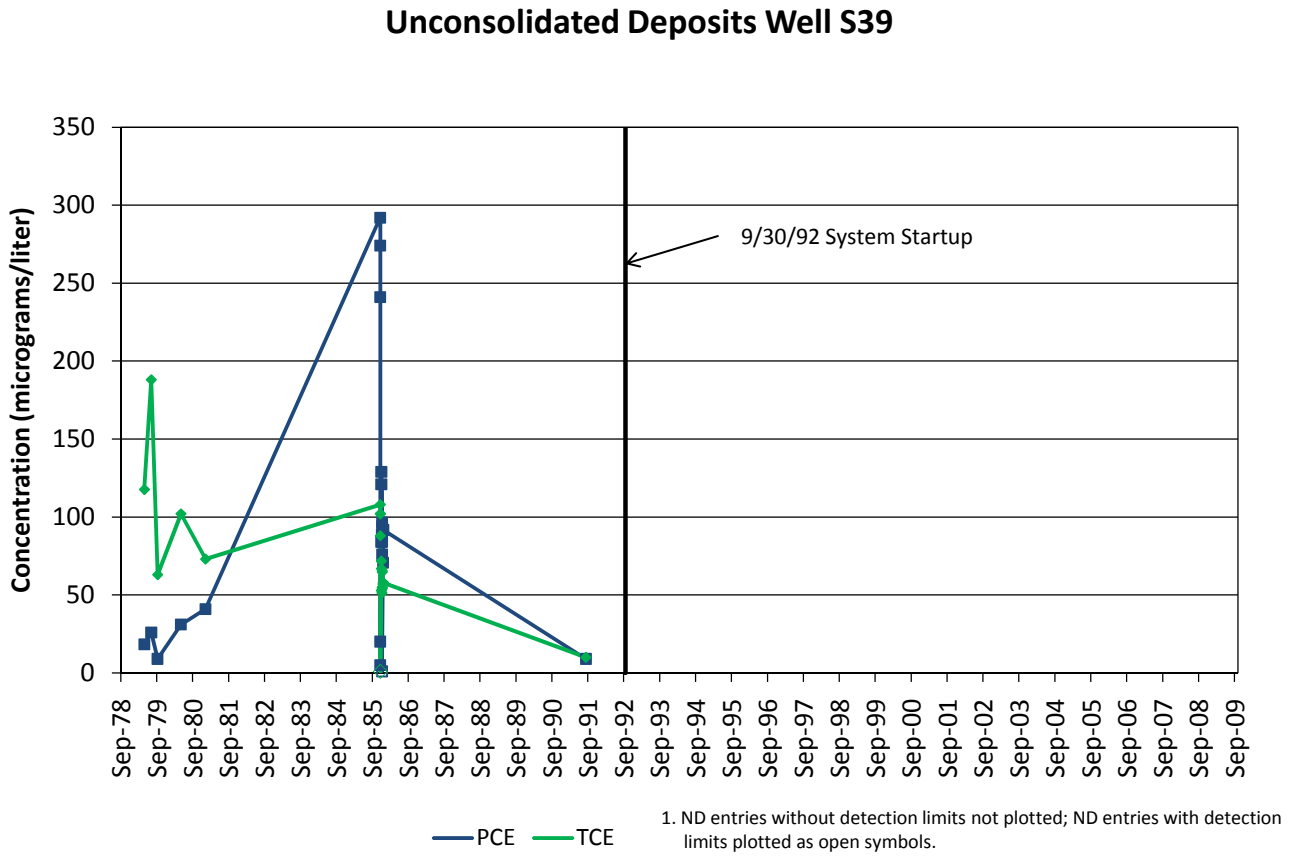
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



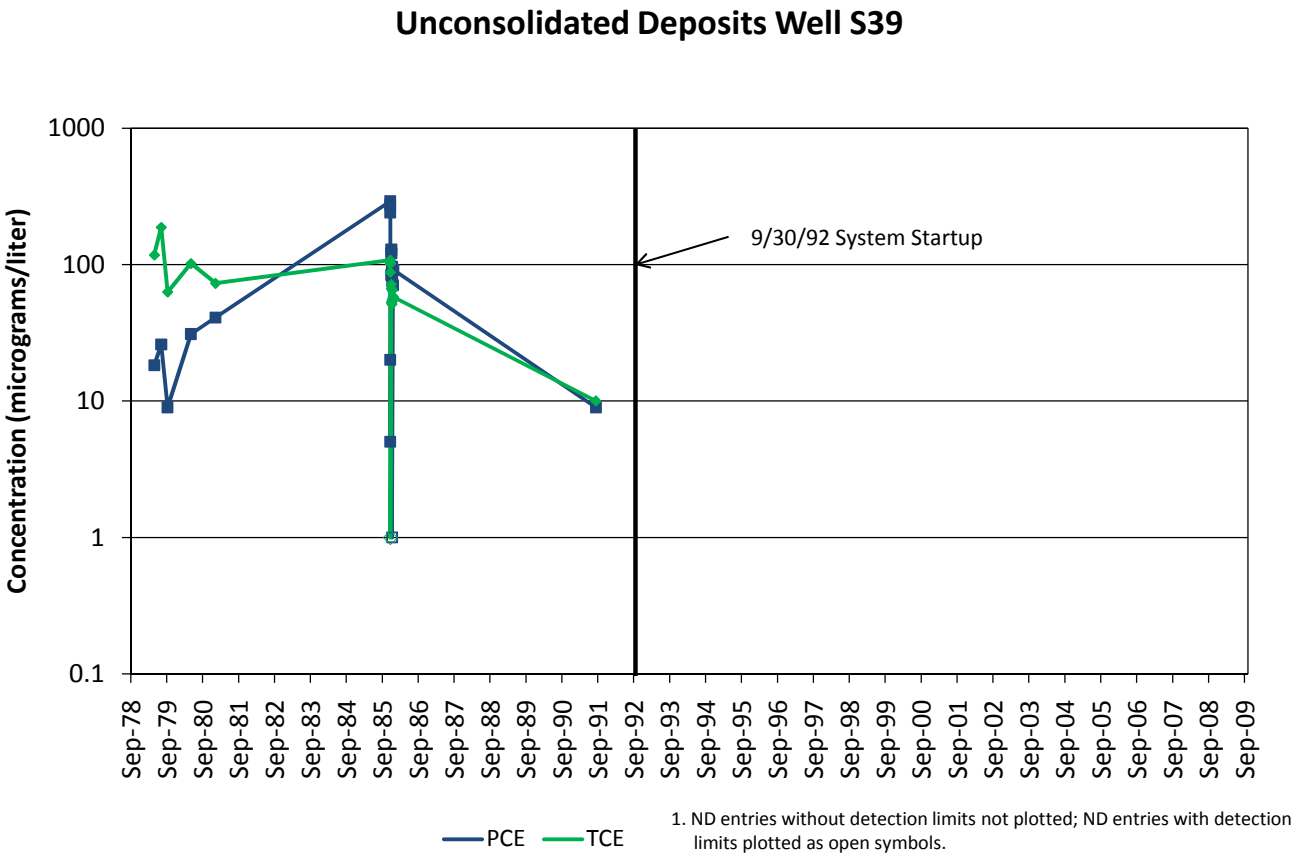
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



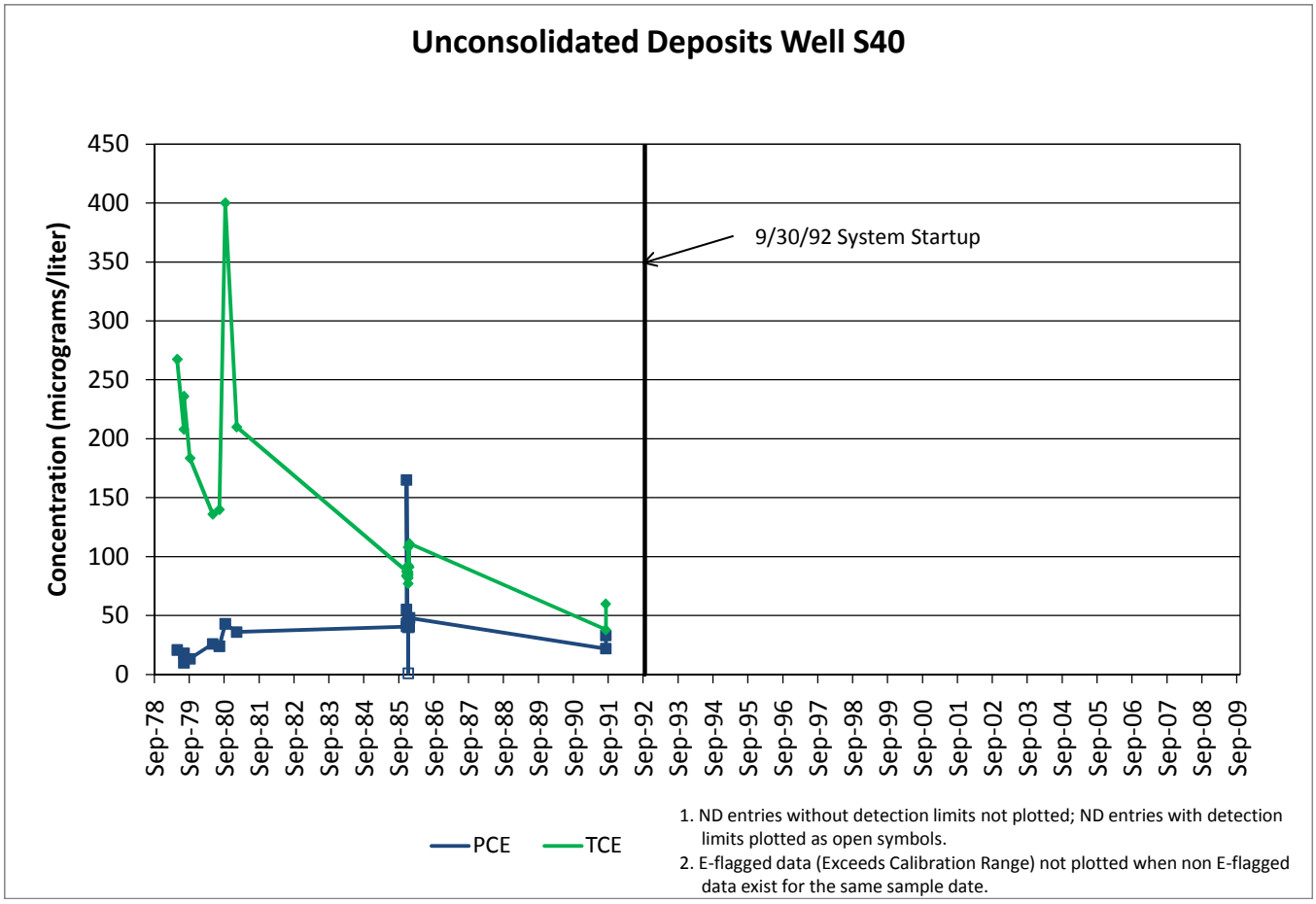
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

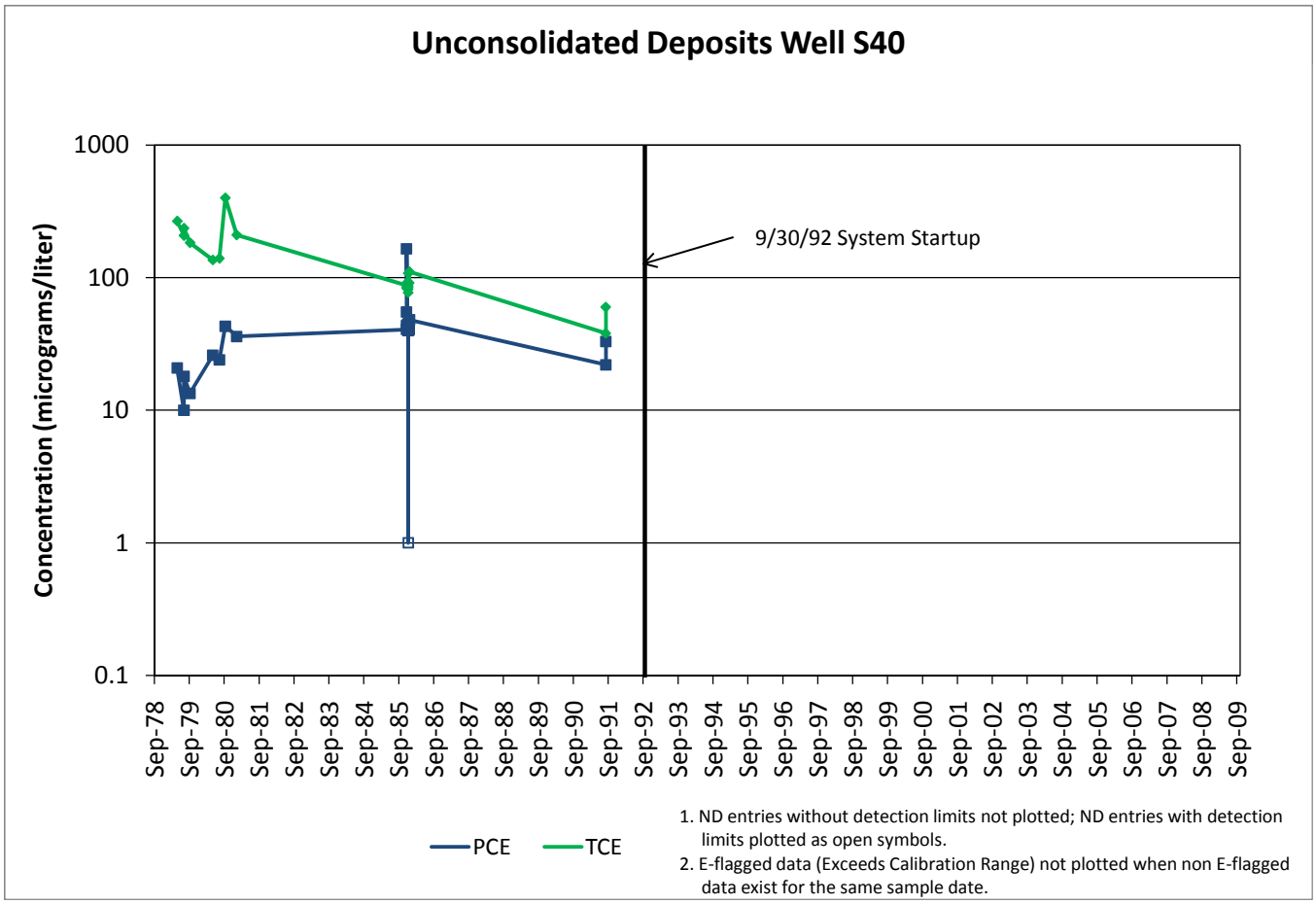


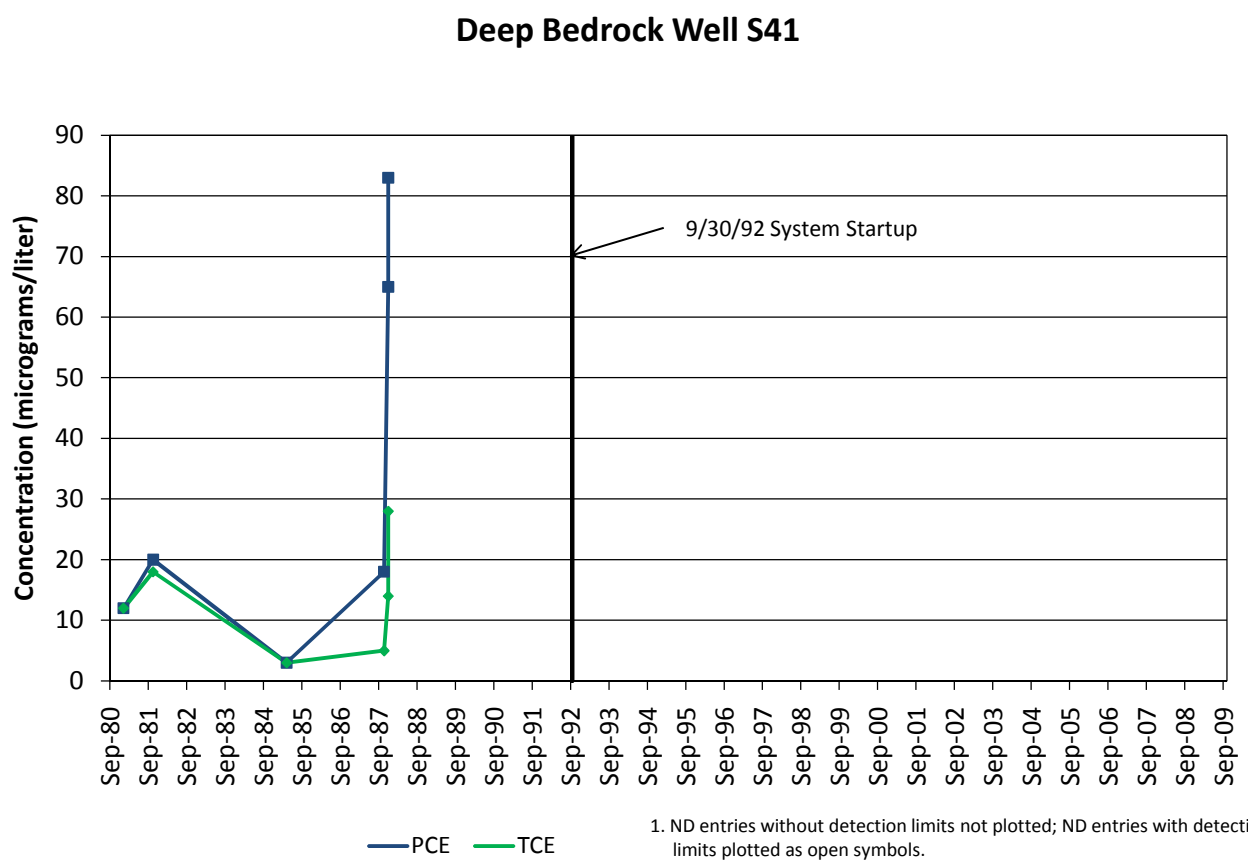
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



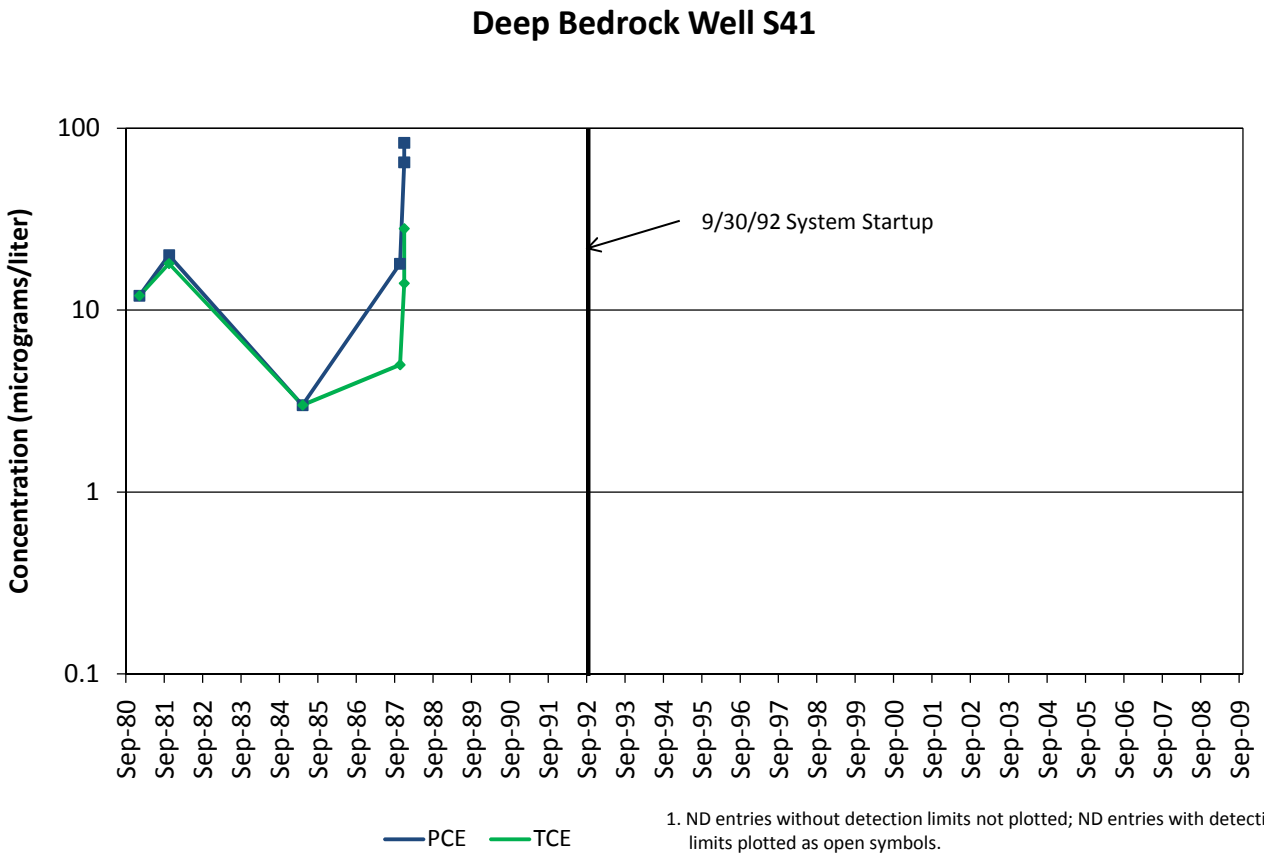
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S40
Concentration (micrograms/liter)
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-78
Sep-79
Sep-80
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

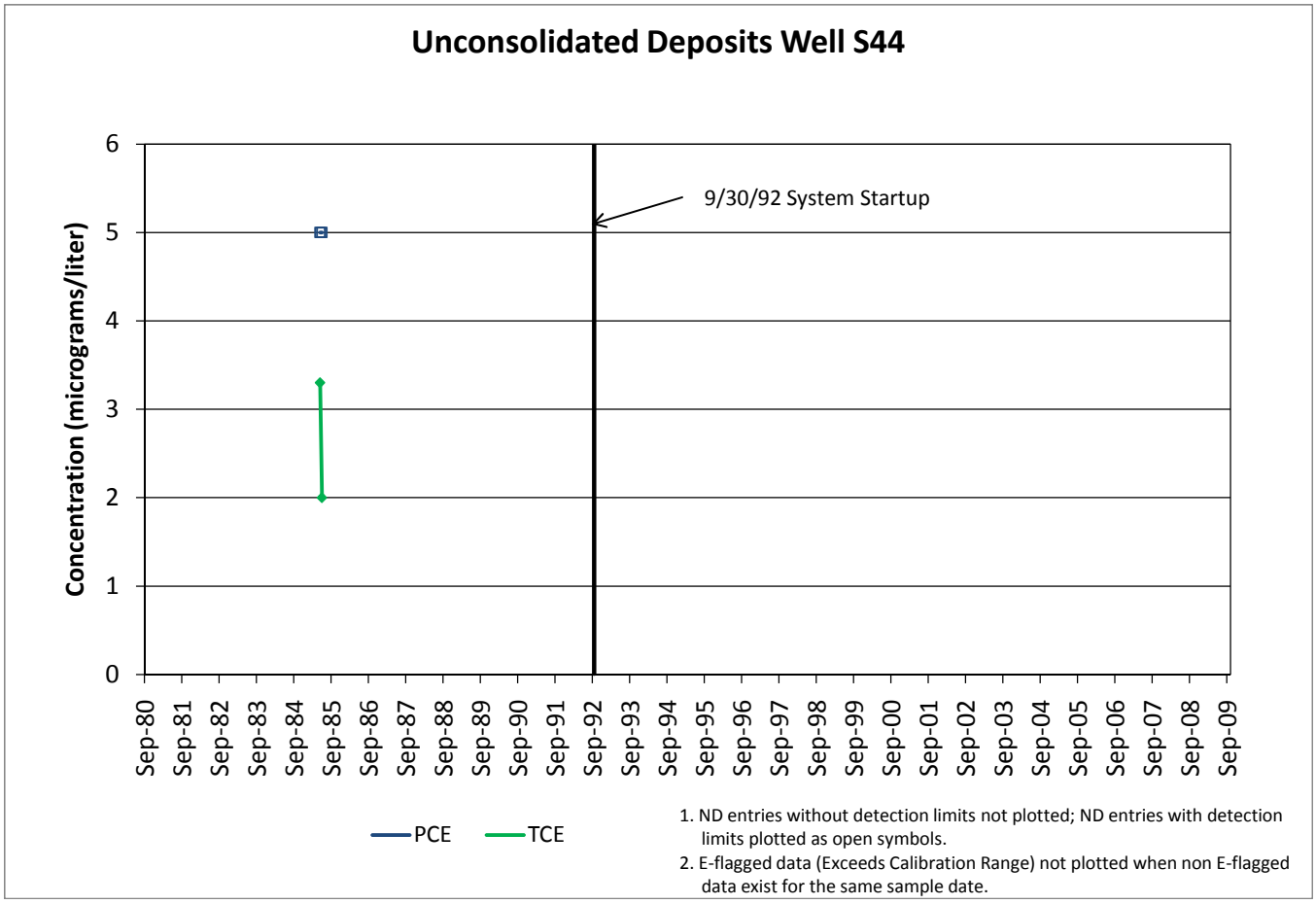

Unconsolidated Deposits Well S40
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-78
Sep-79
Sep-80
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

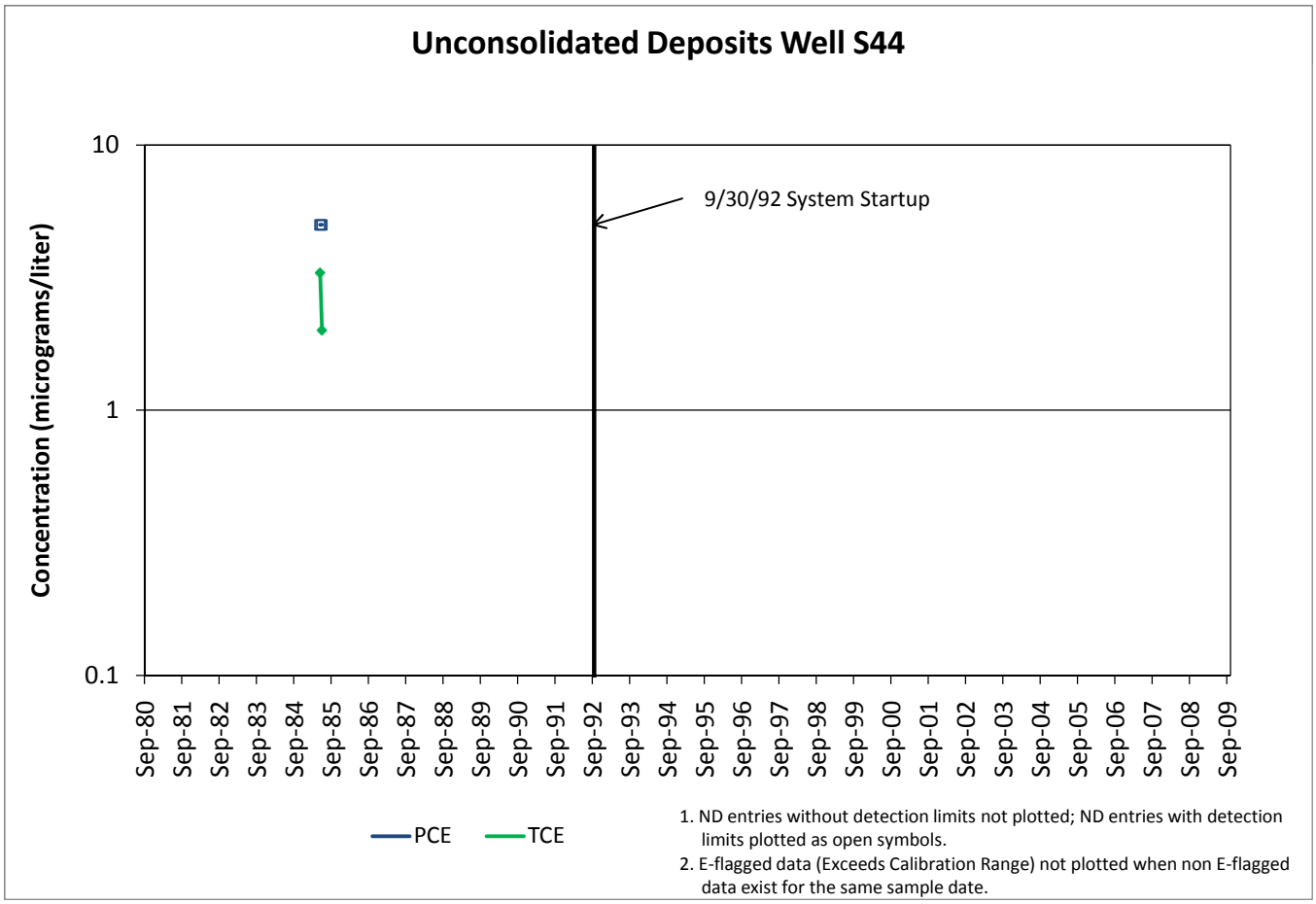


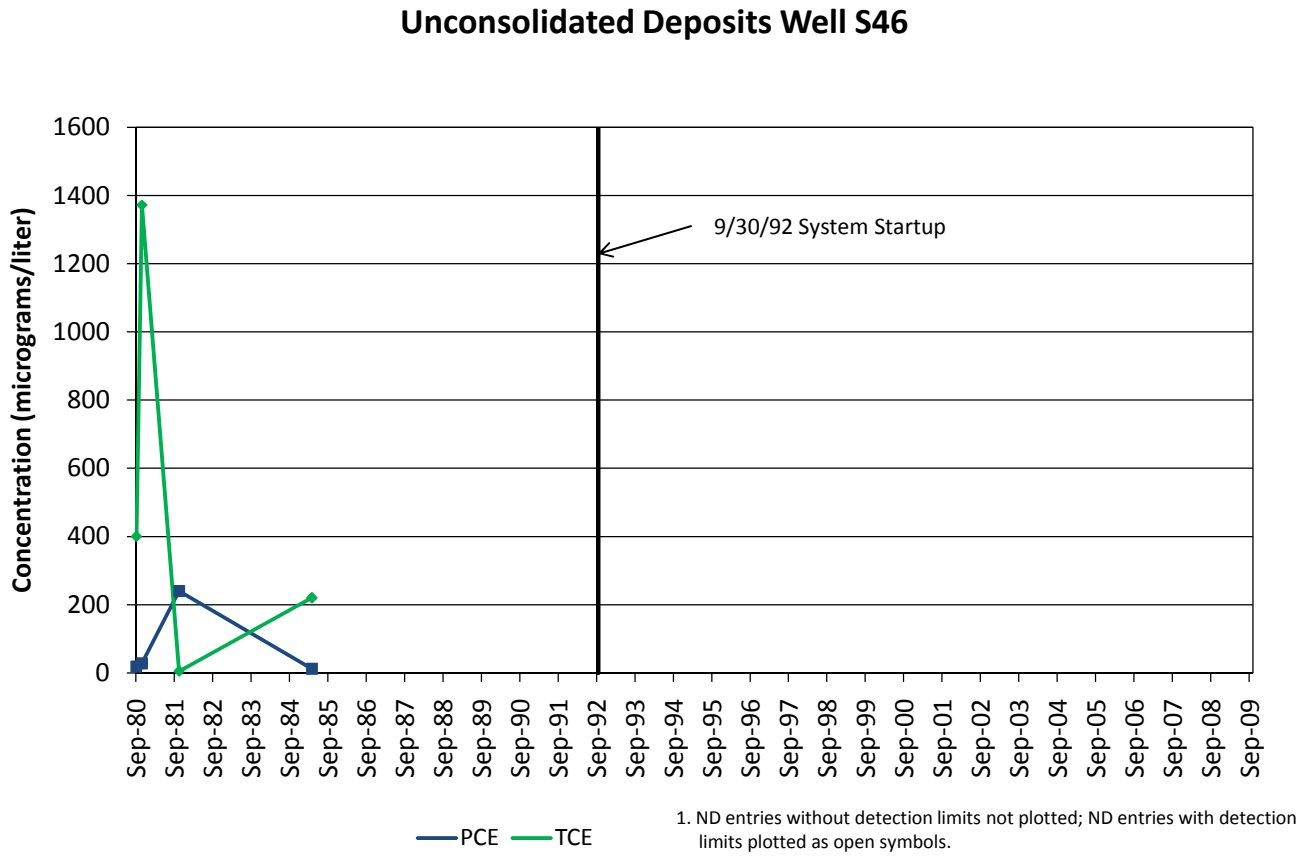
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



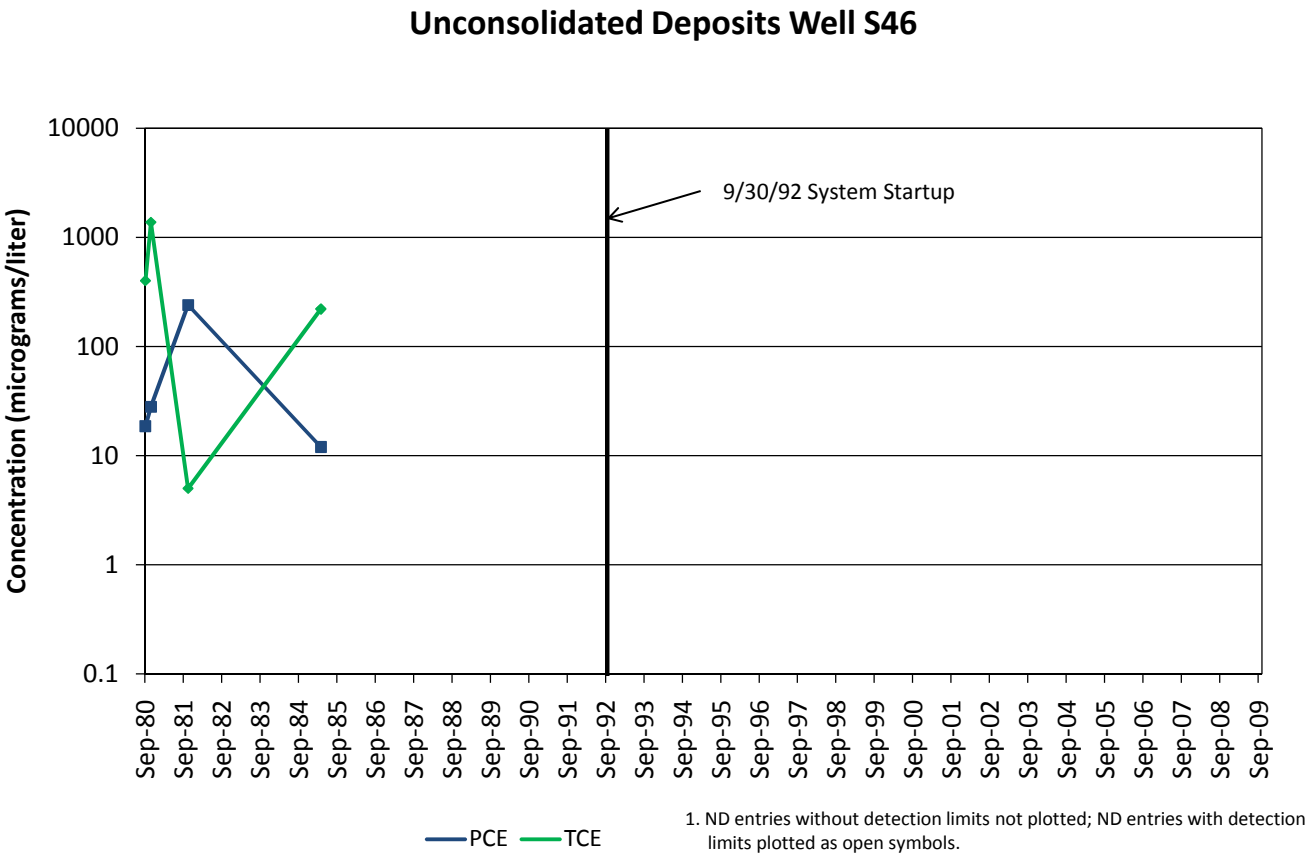
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S44
Concentration (micrograms/liter)
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-80
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

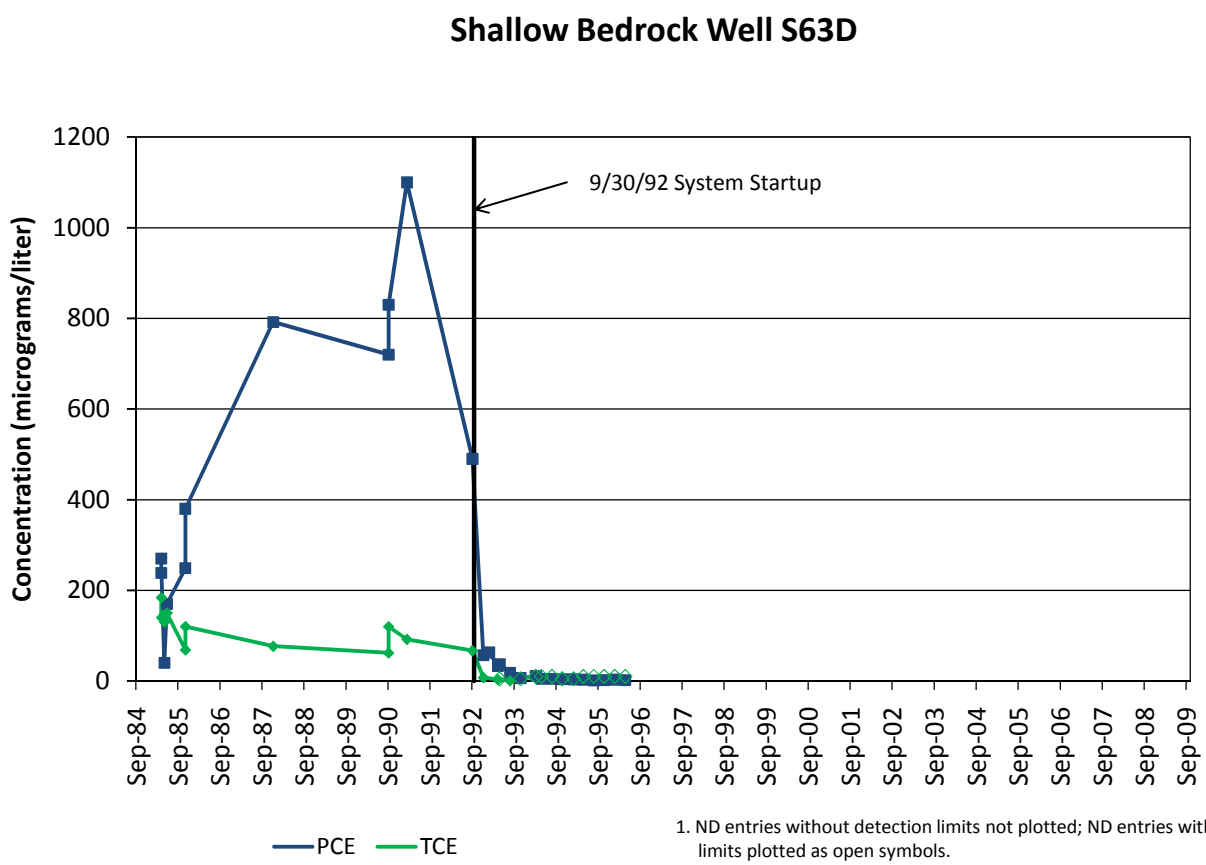

Unconsolidated Deposits Well S44
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-80
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



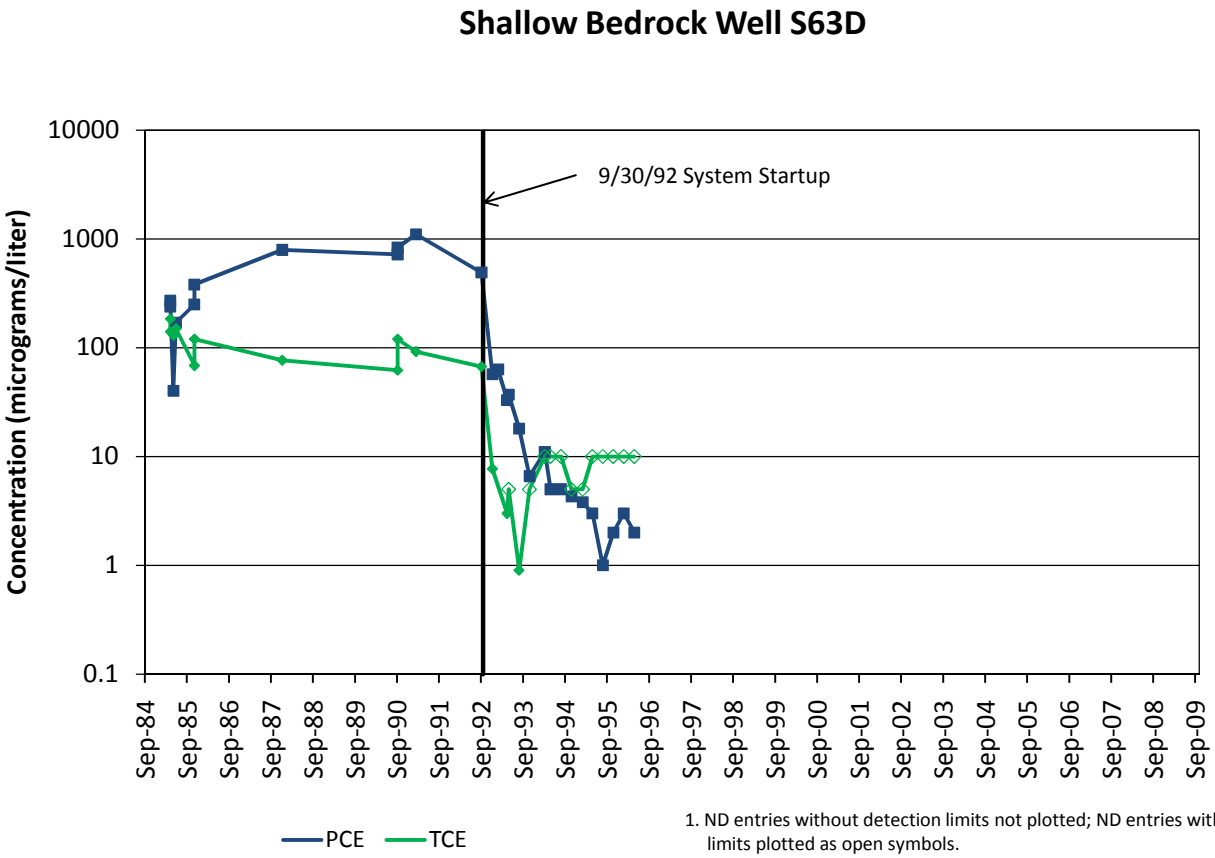
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



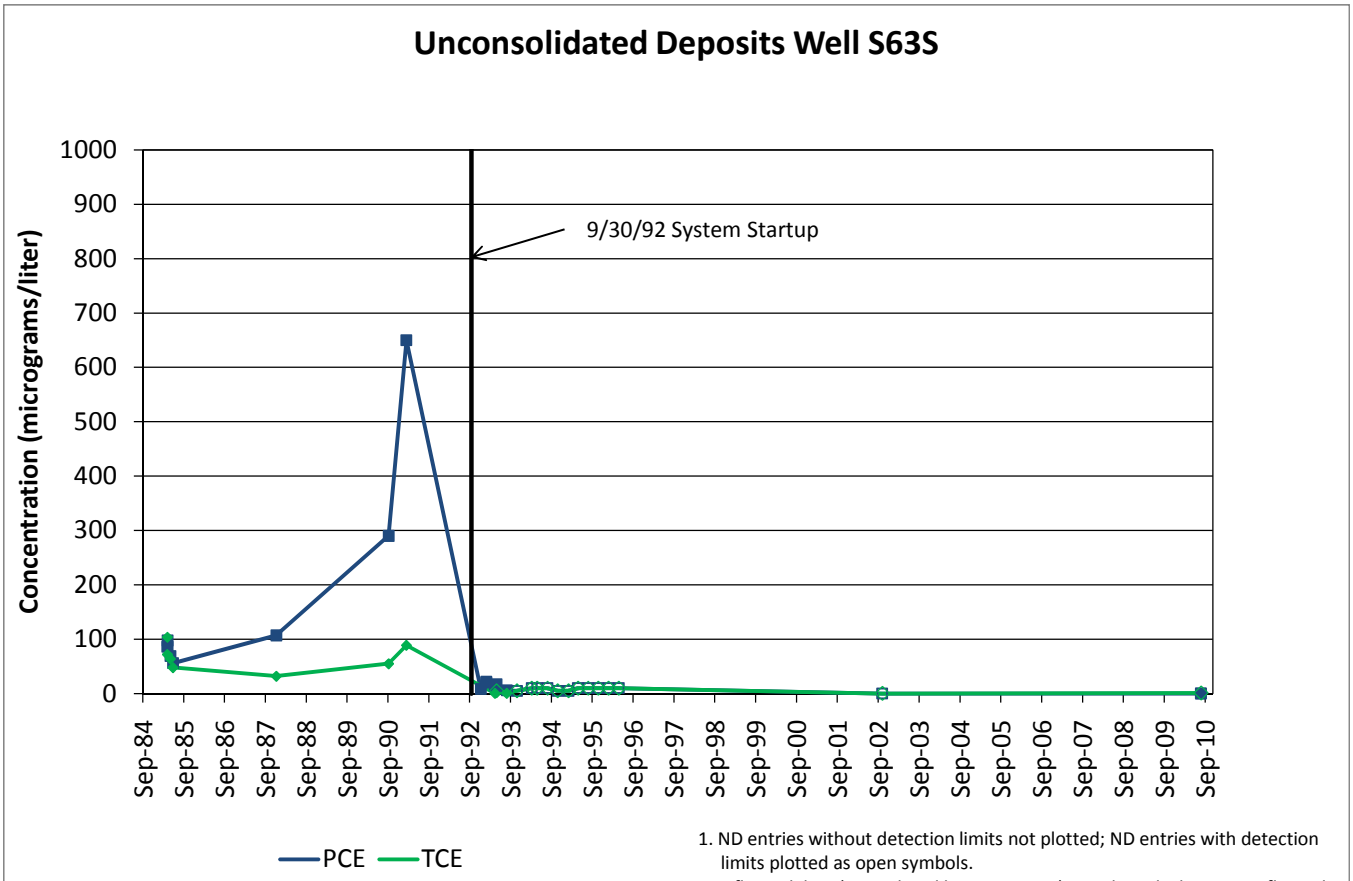
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



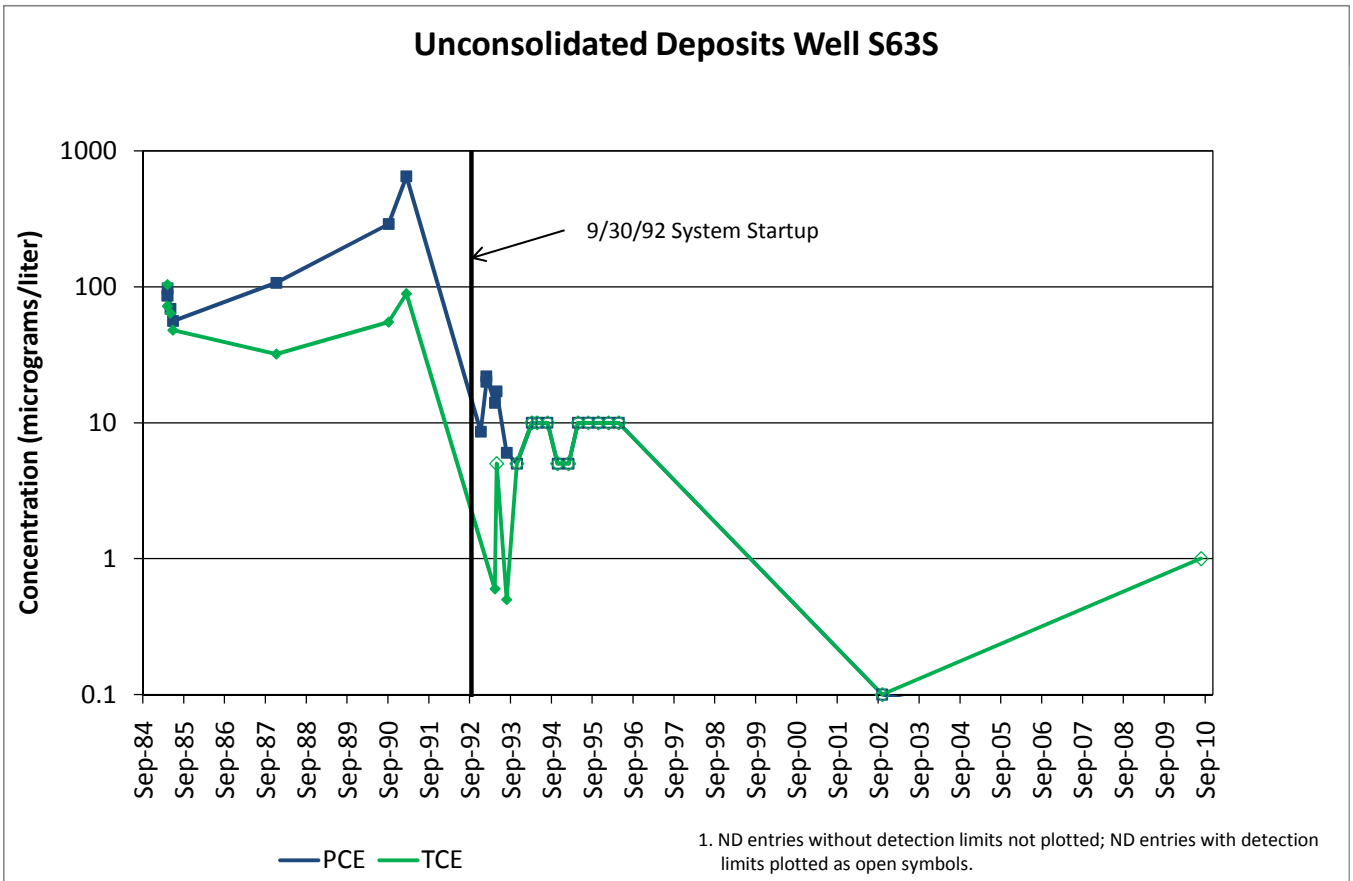
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



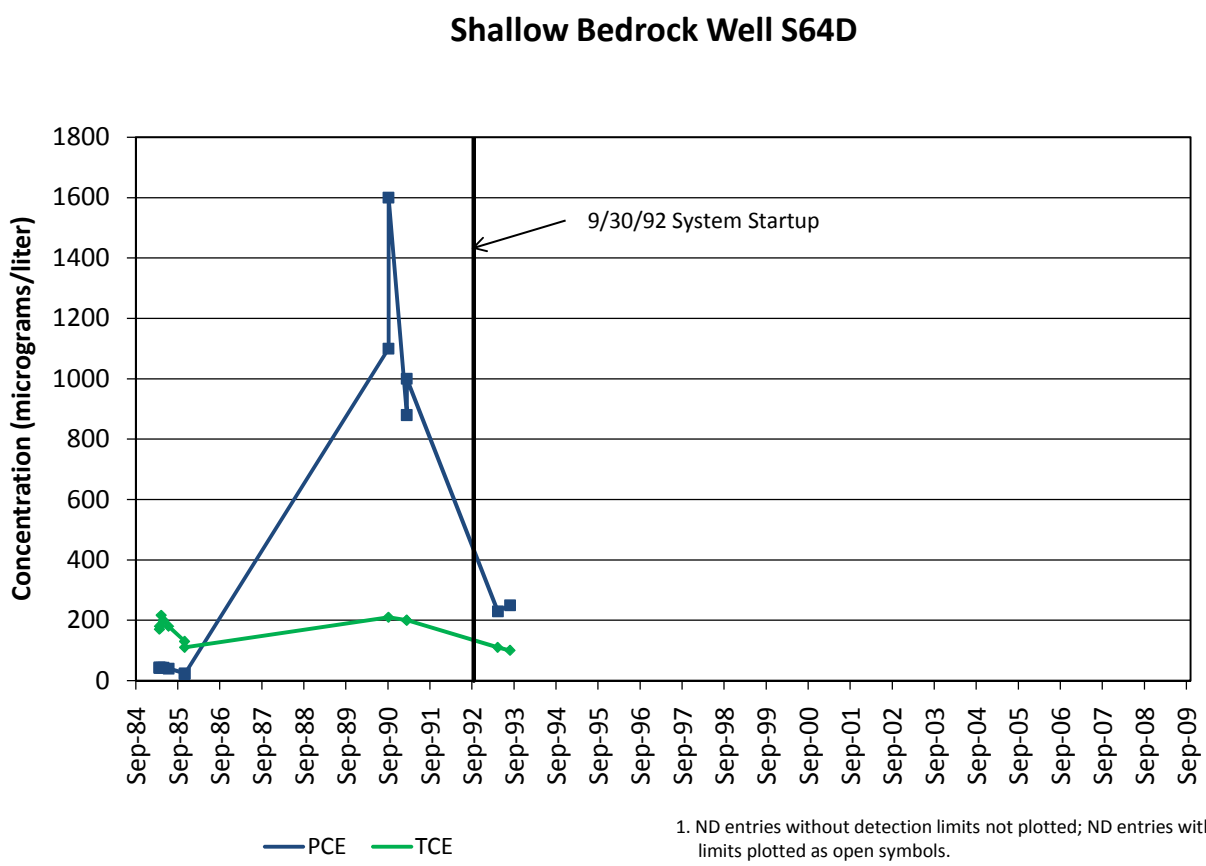
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



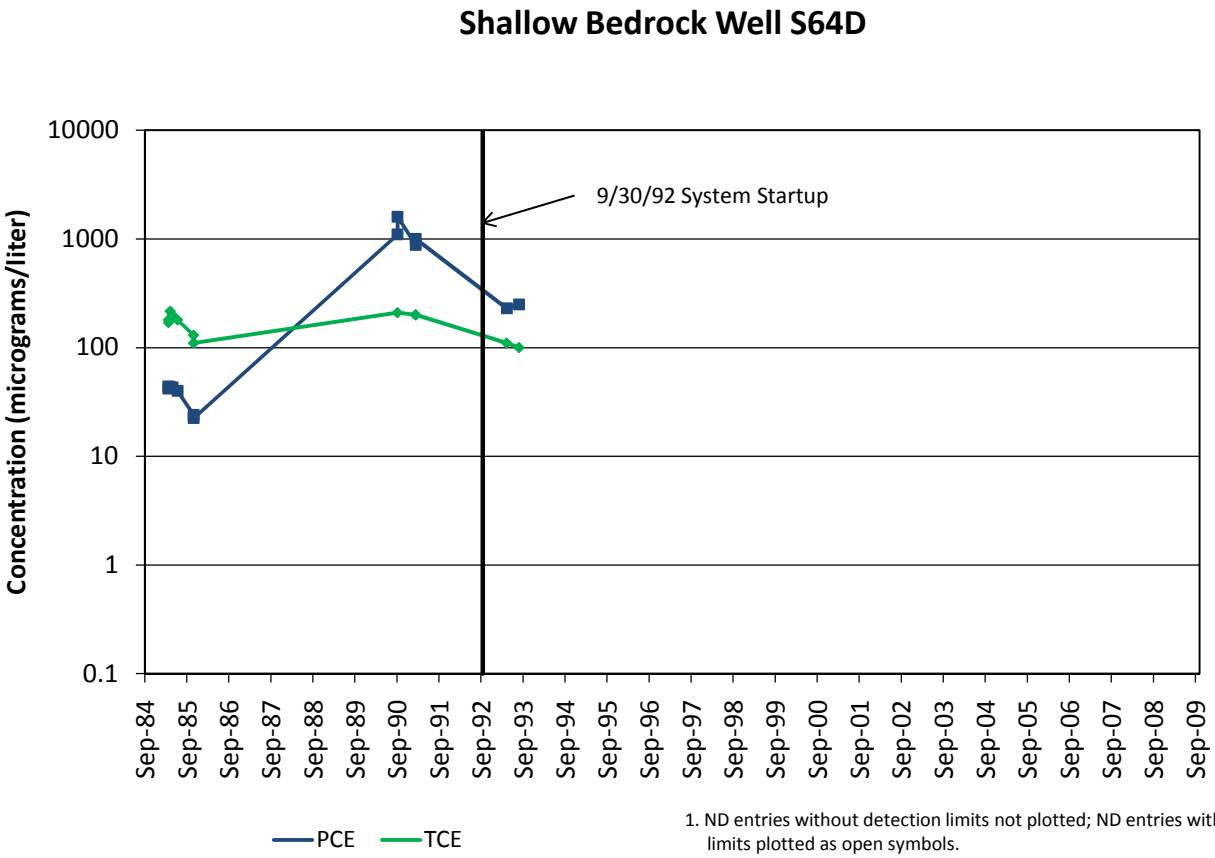
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



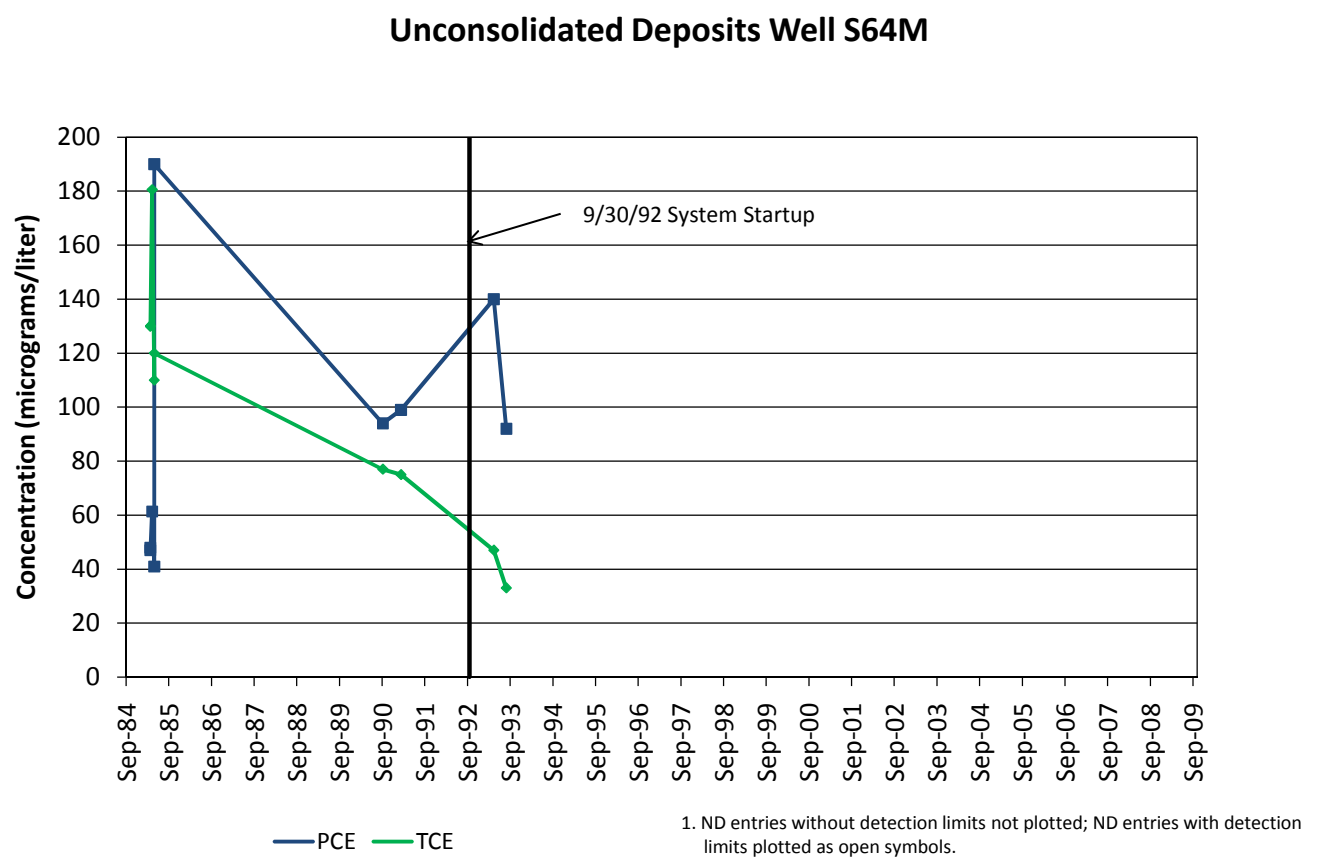
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



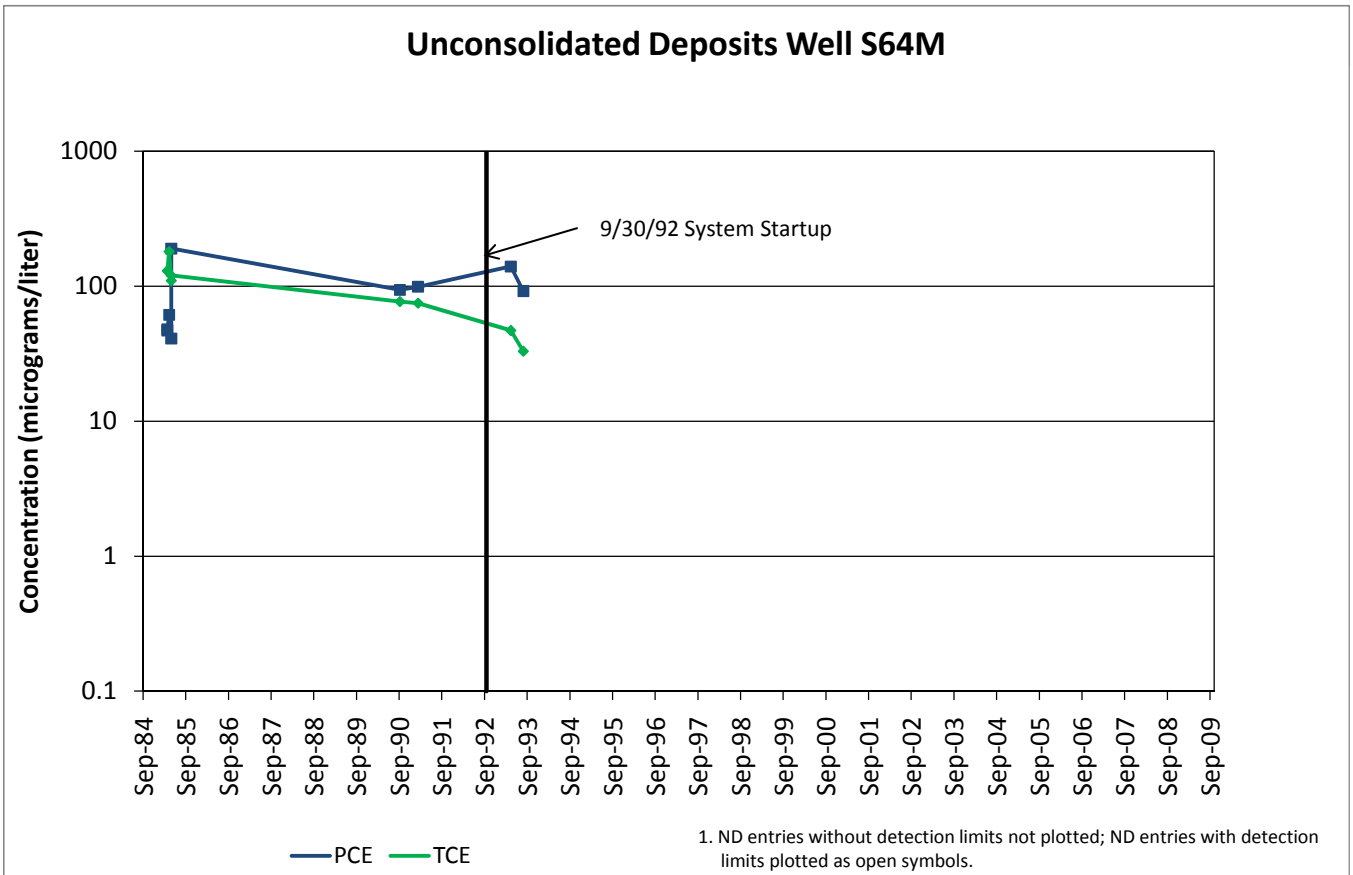
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



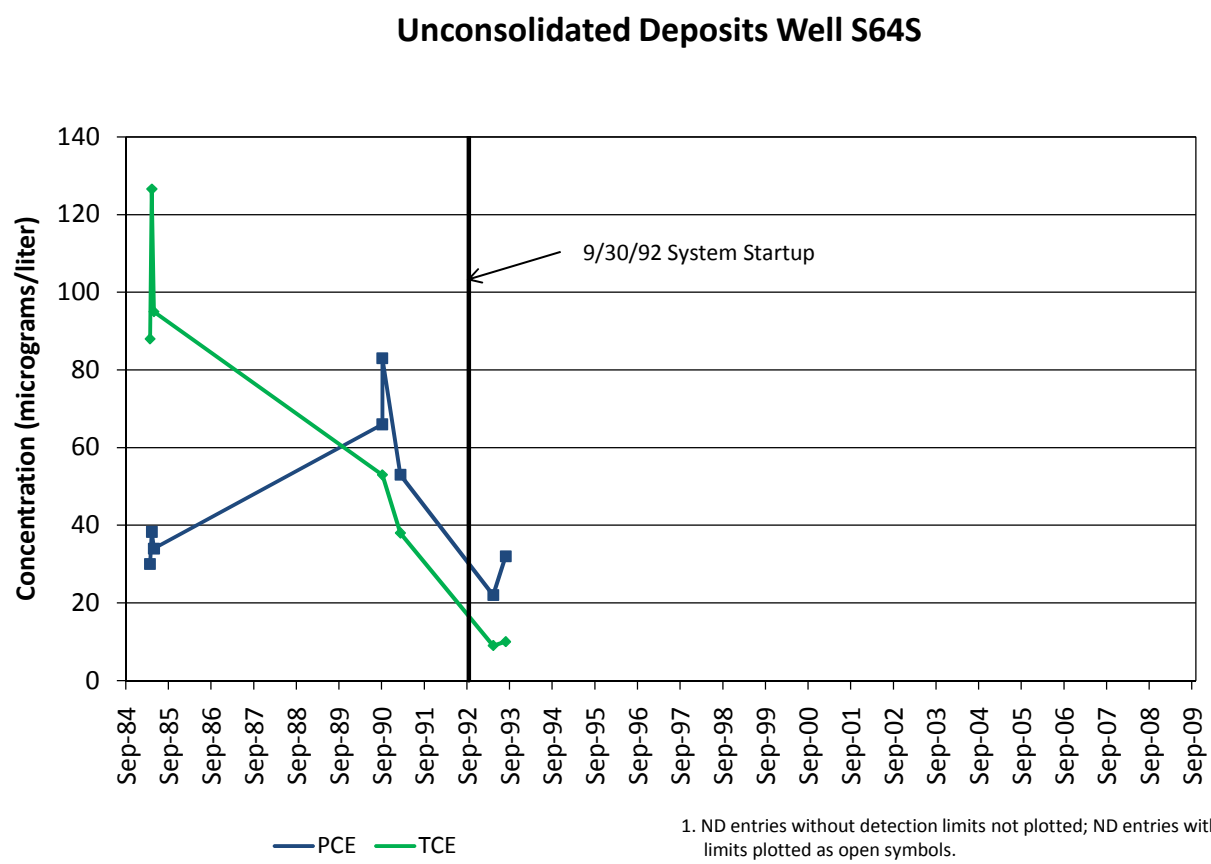
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



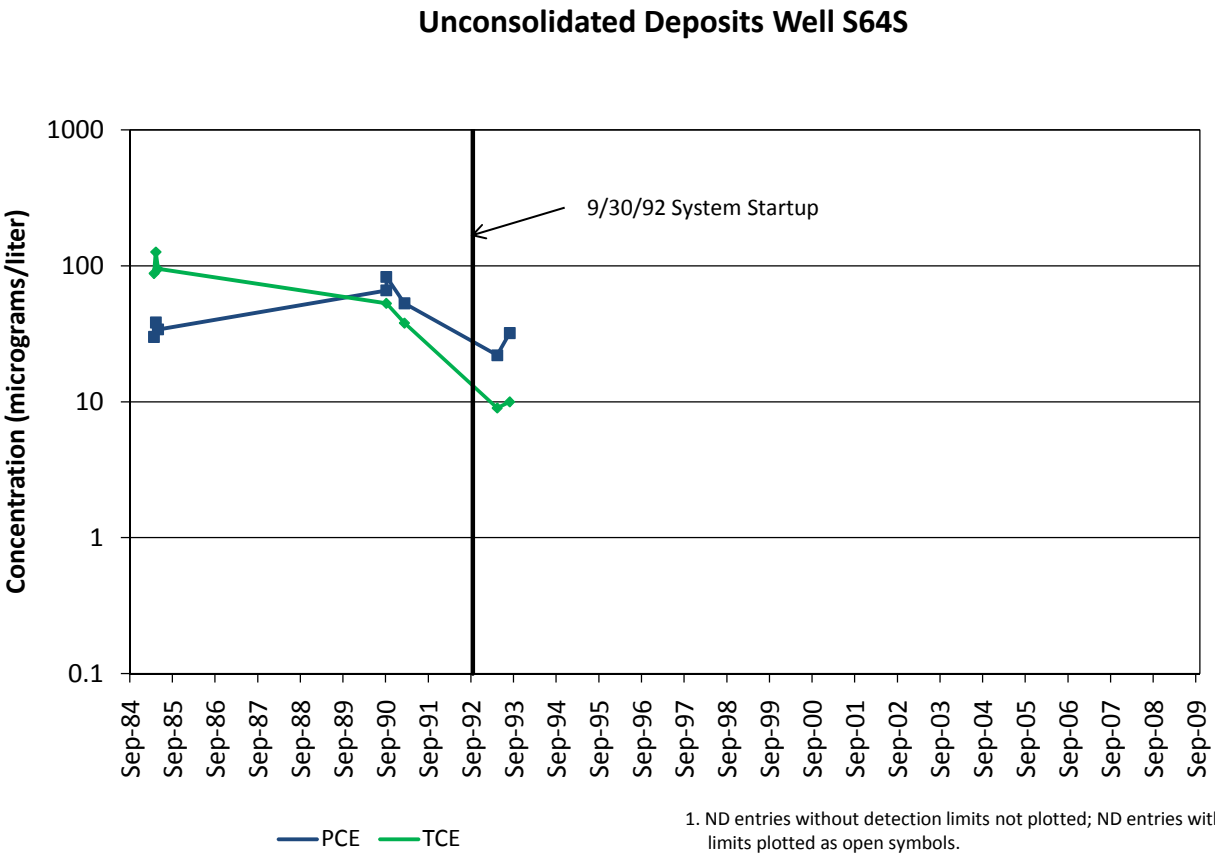
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



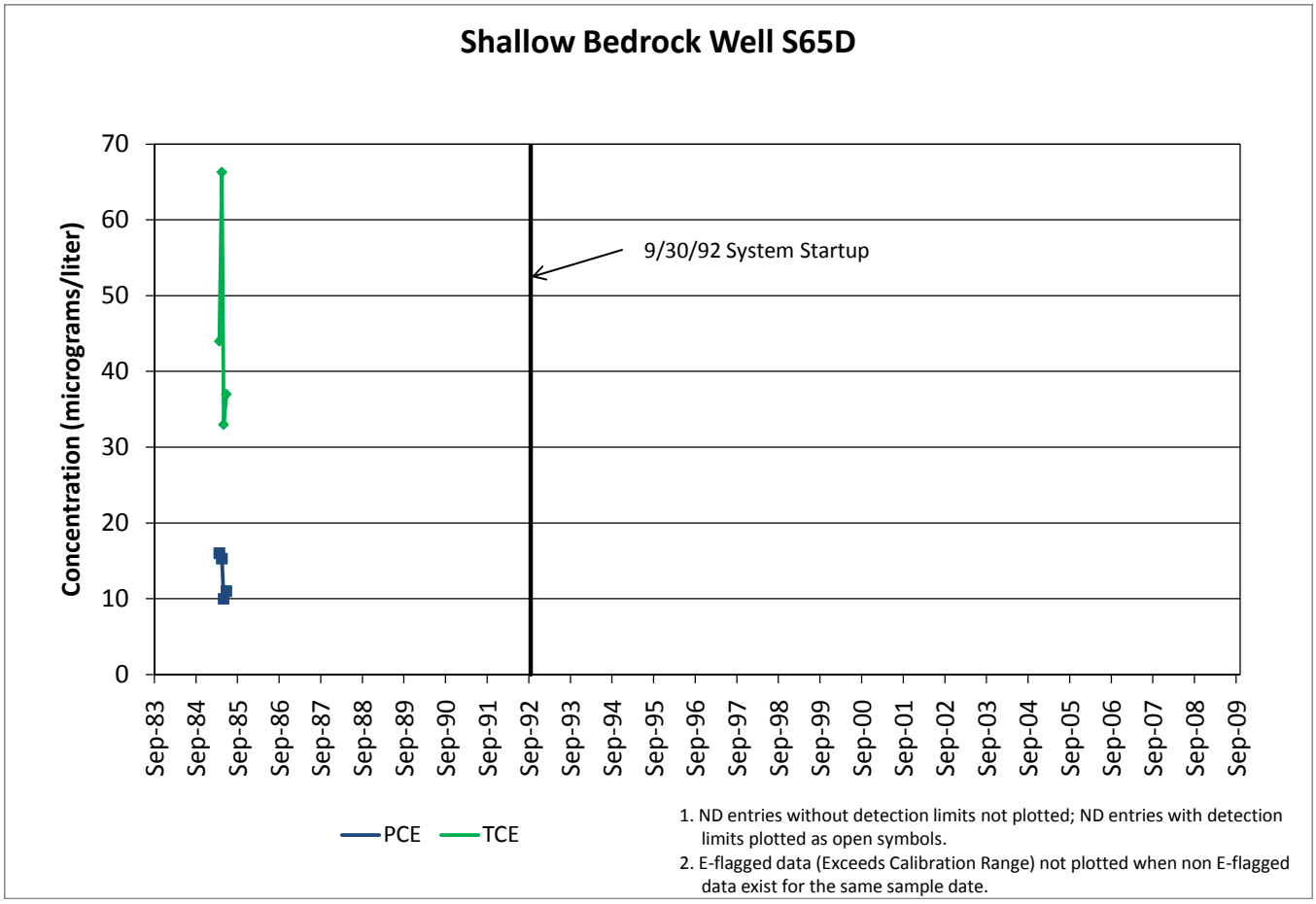
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



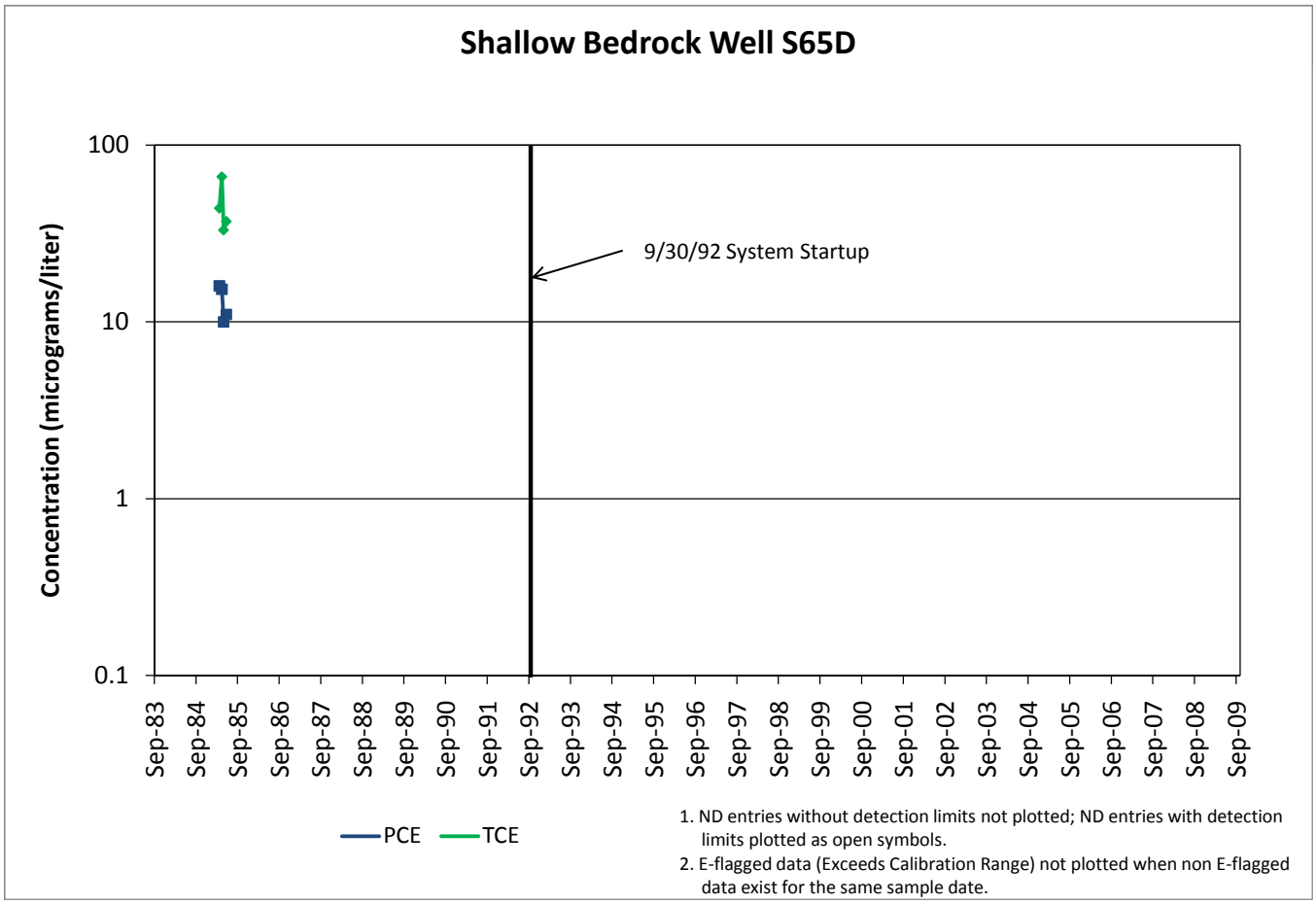
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



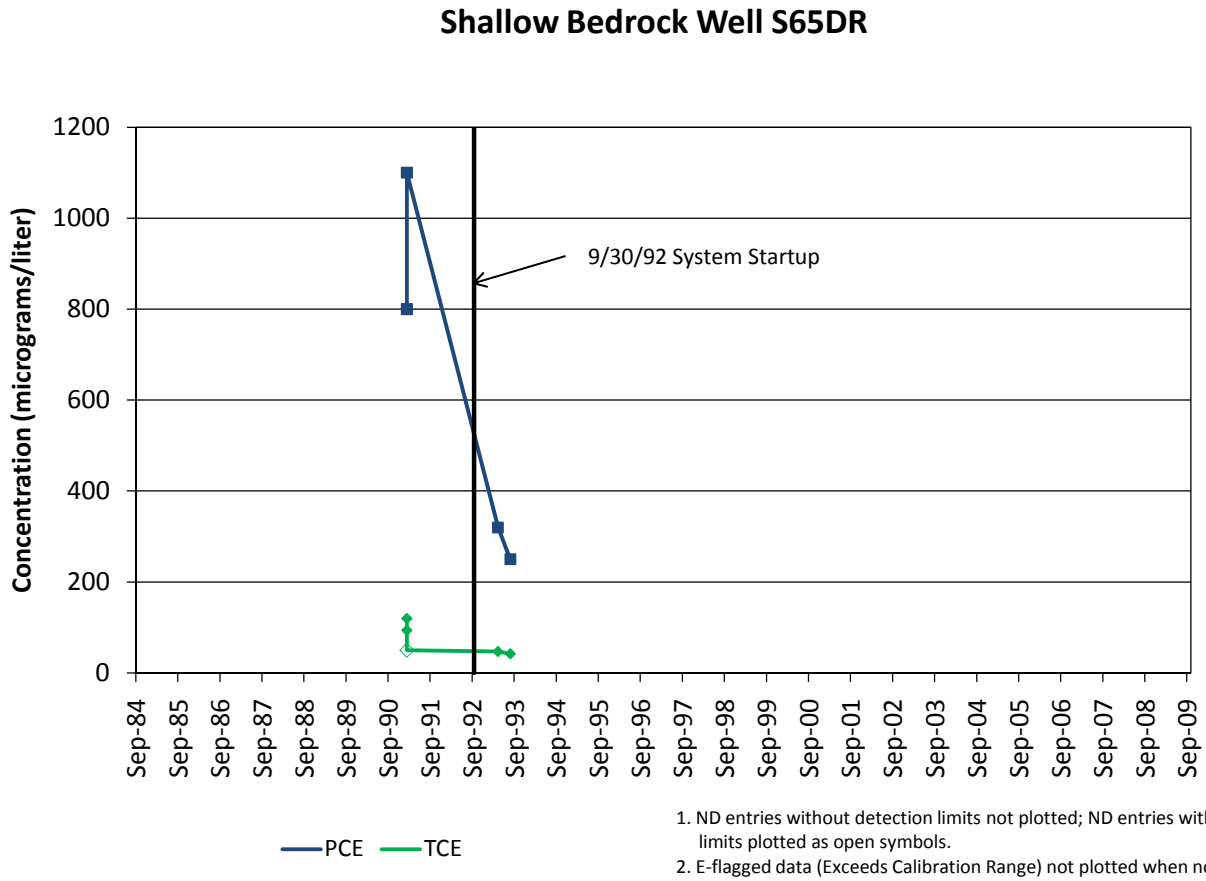
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



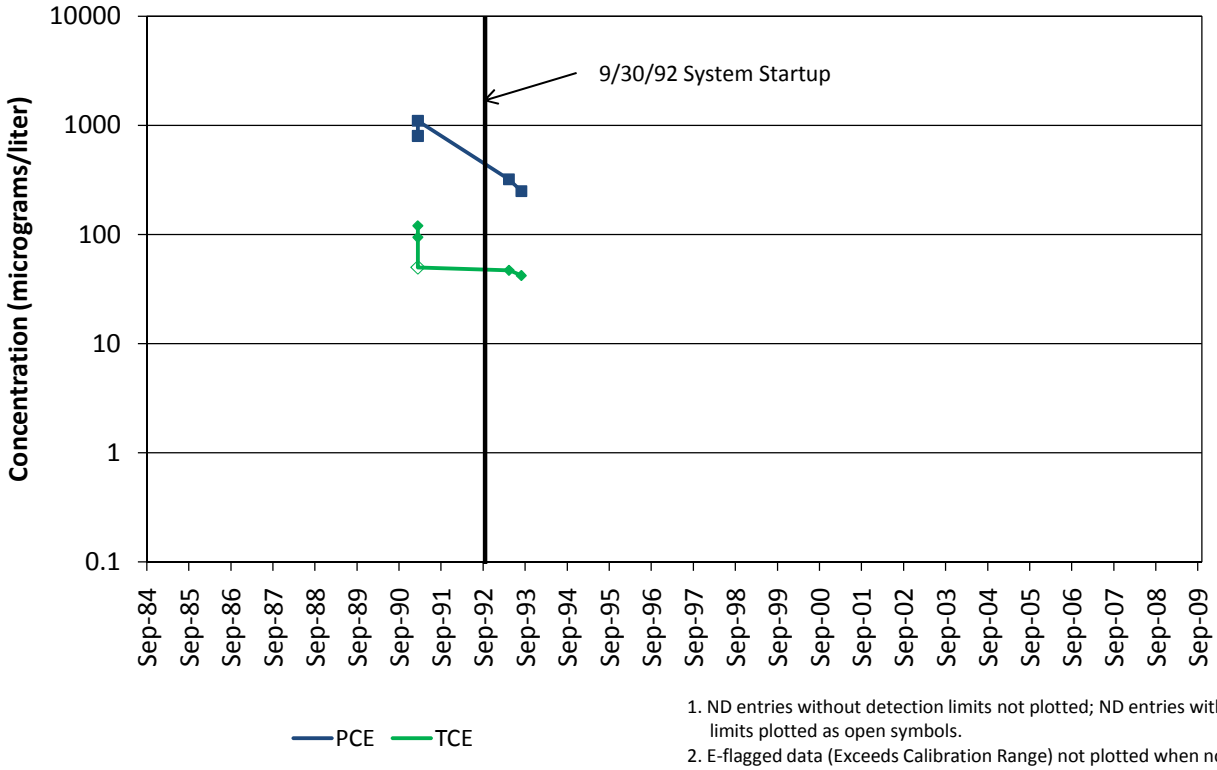
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



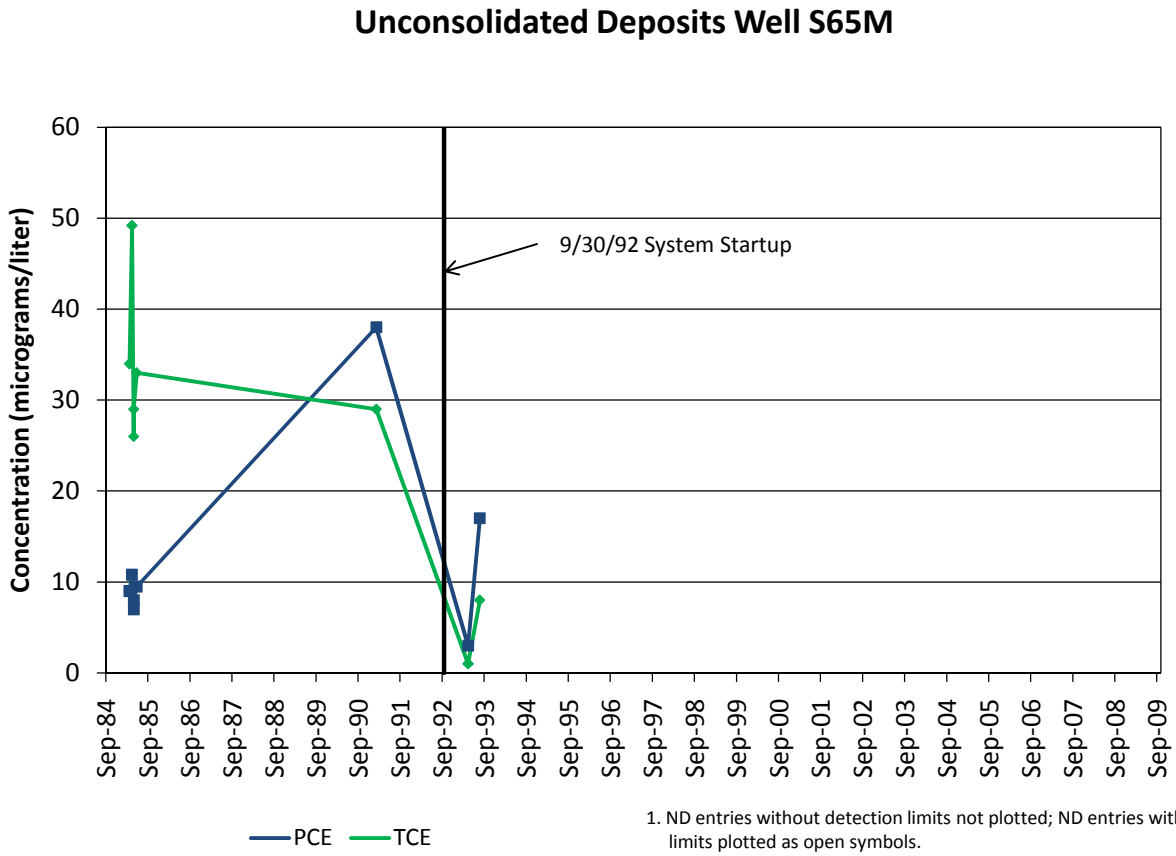
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



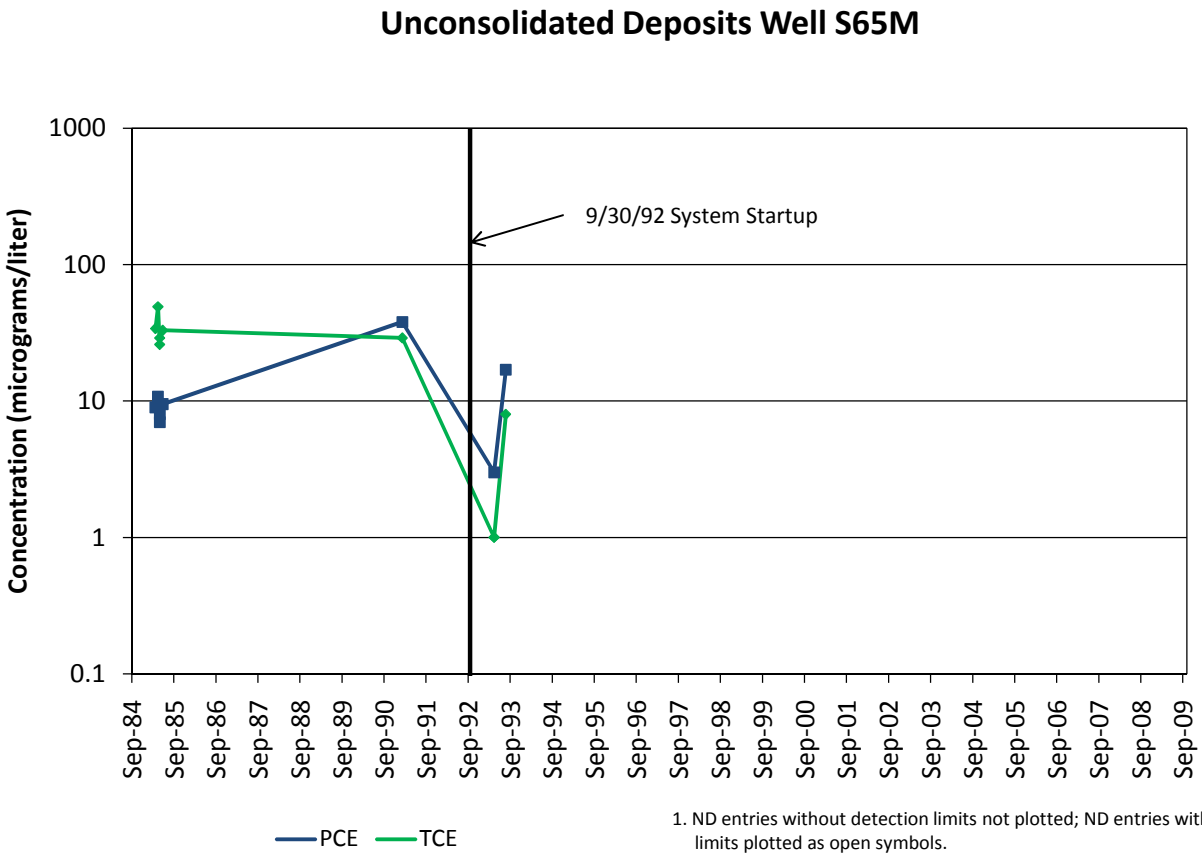
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



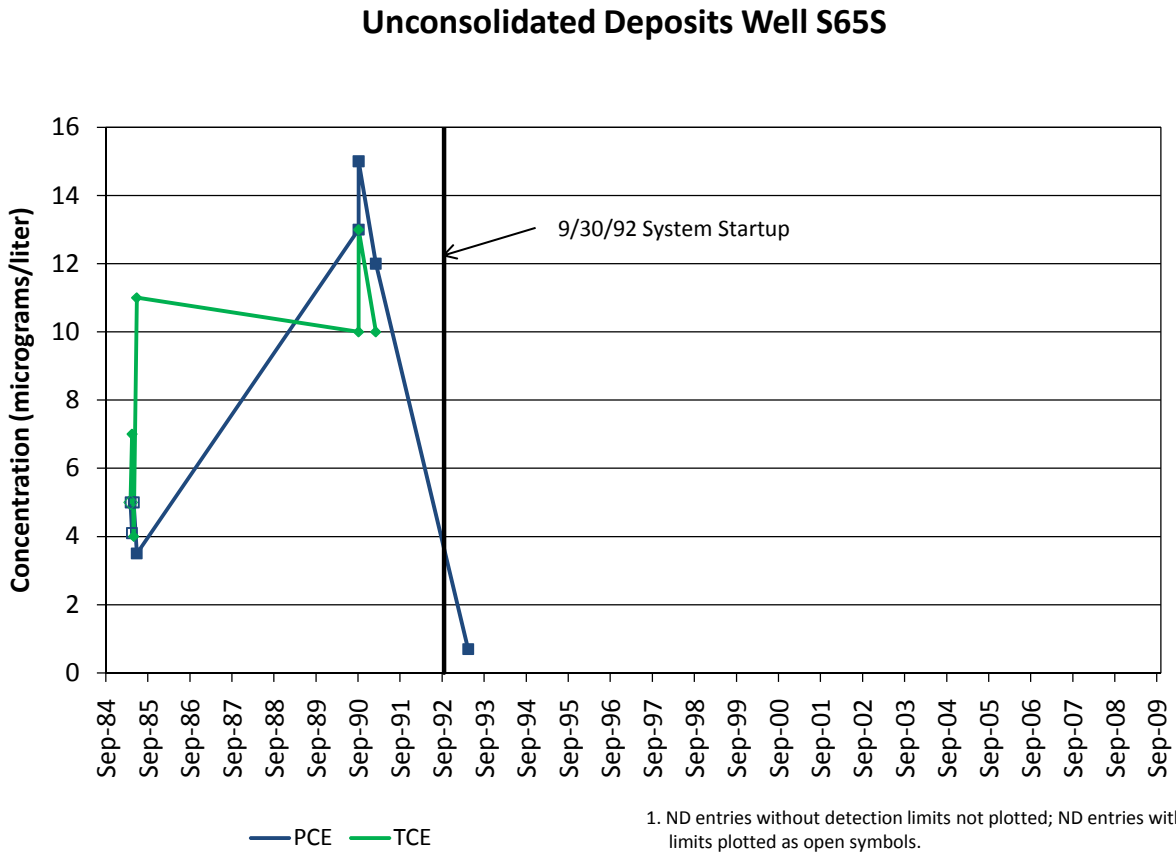
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



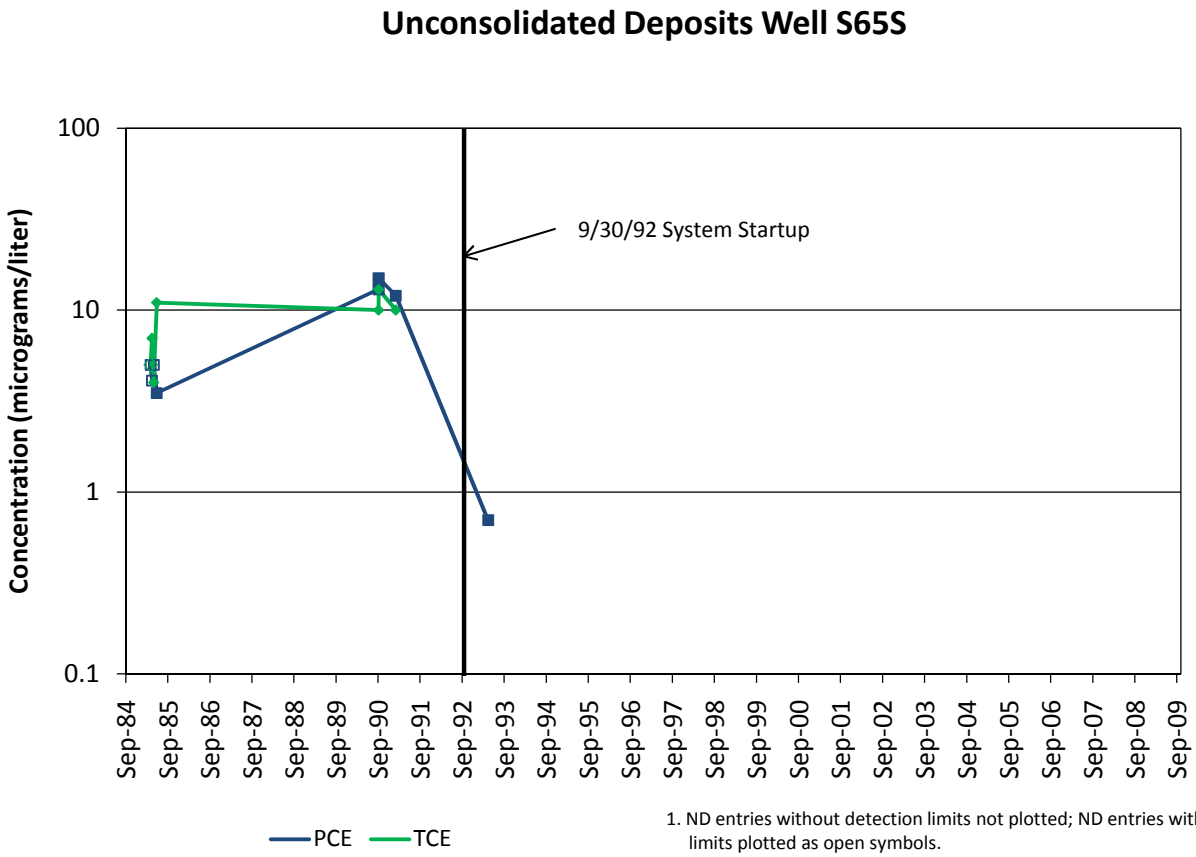
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



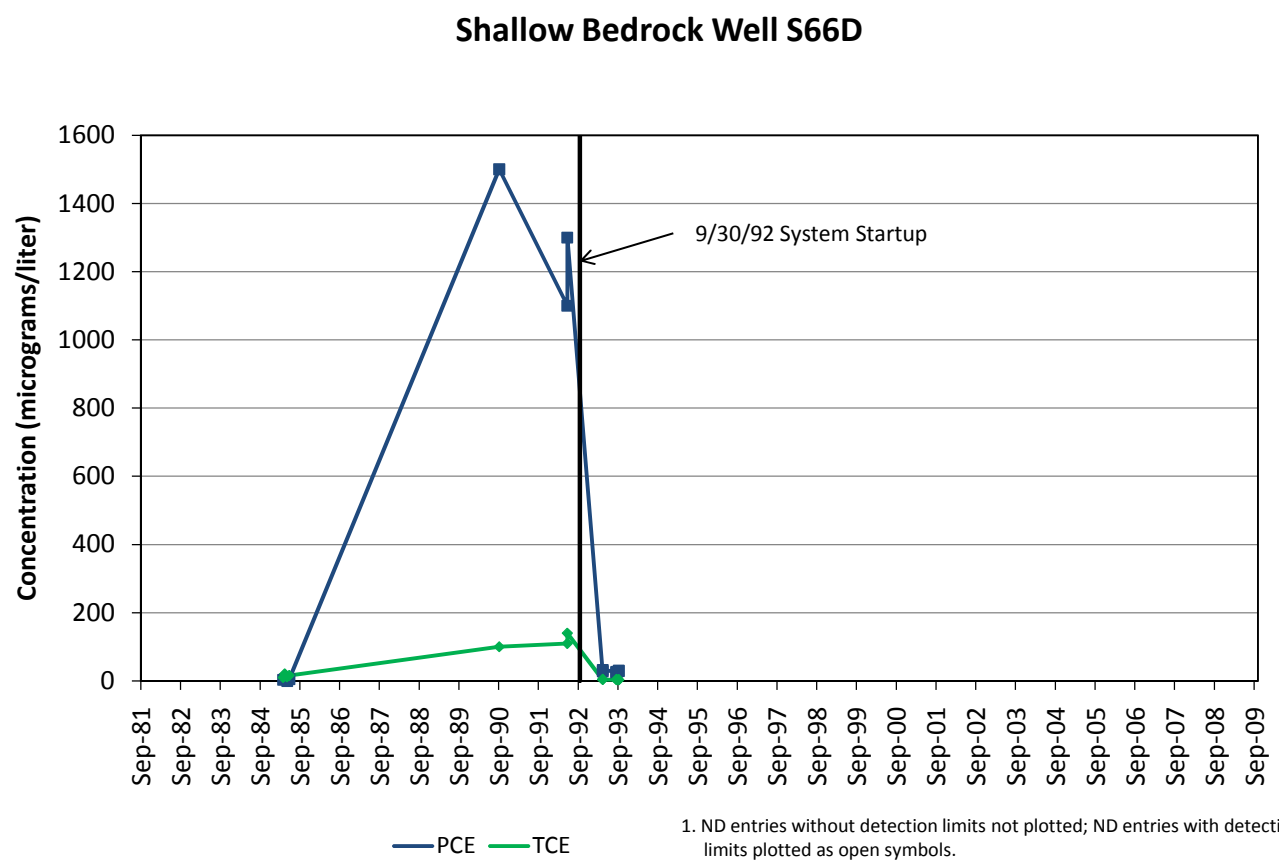
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



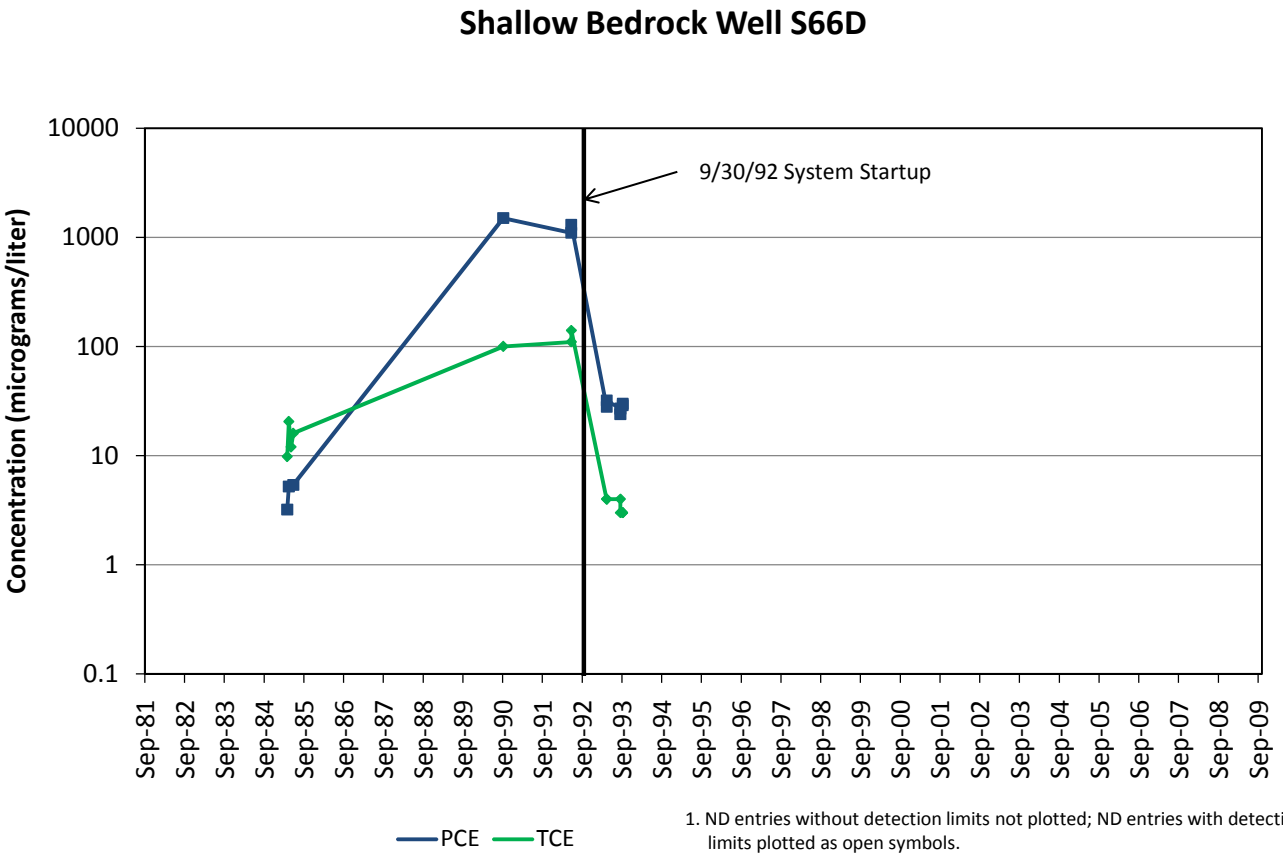
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



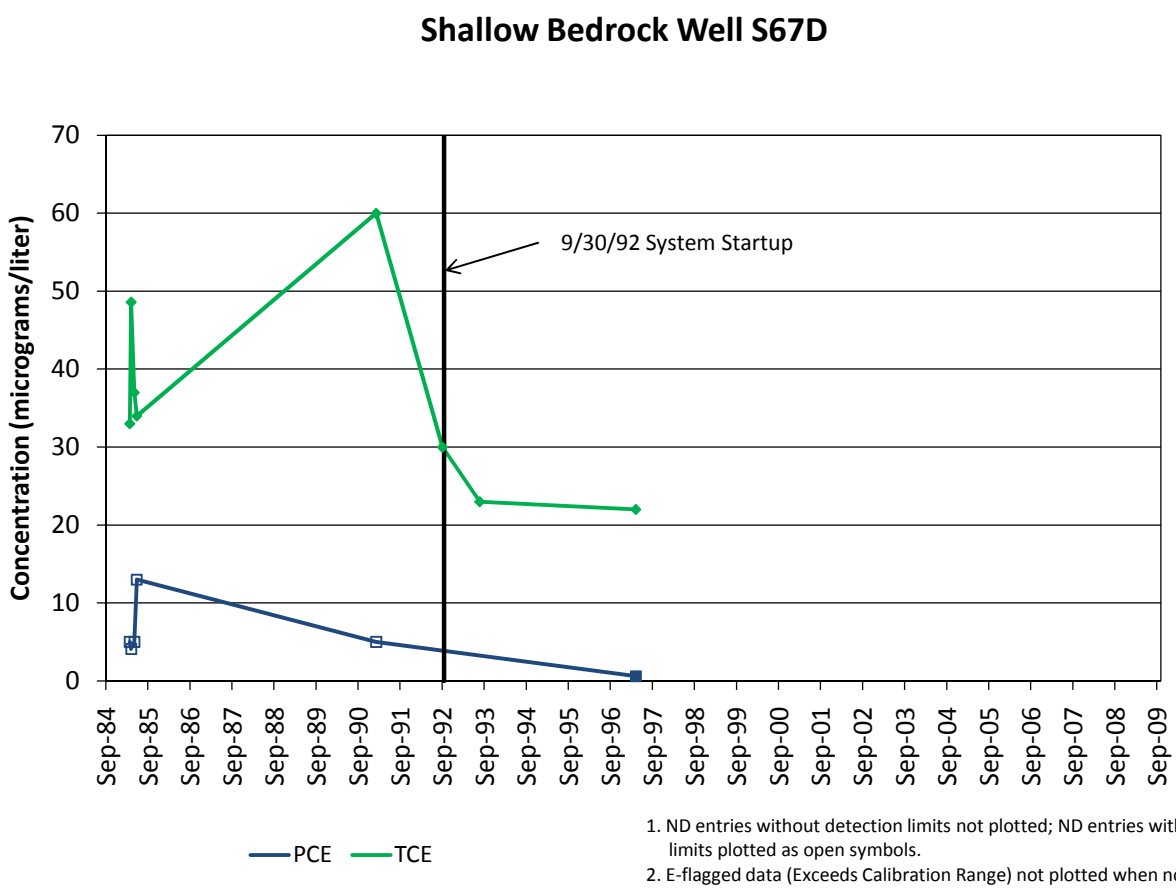
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



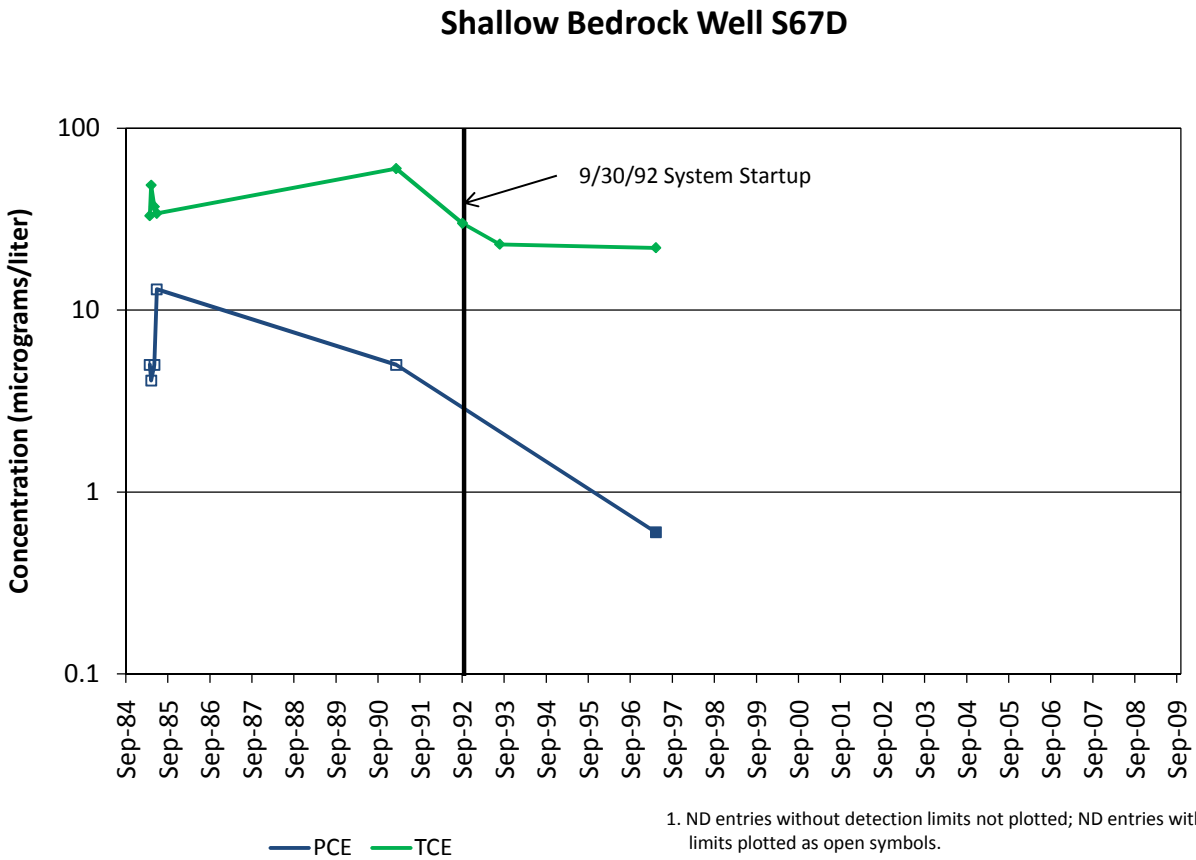
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



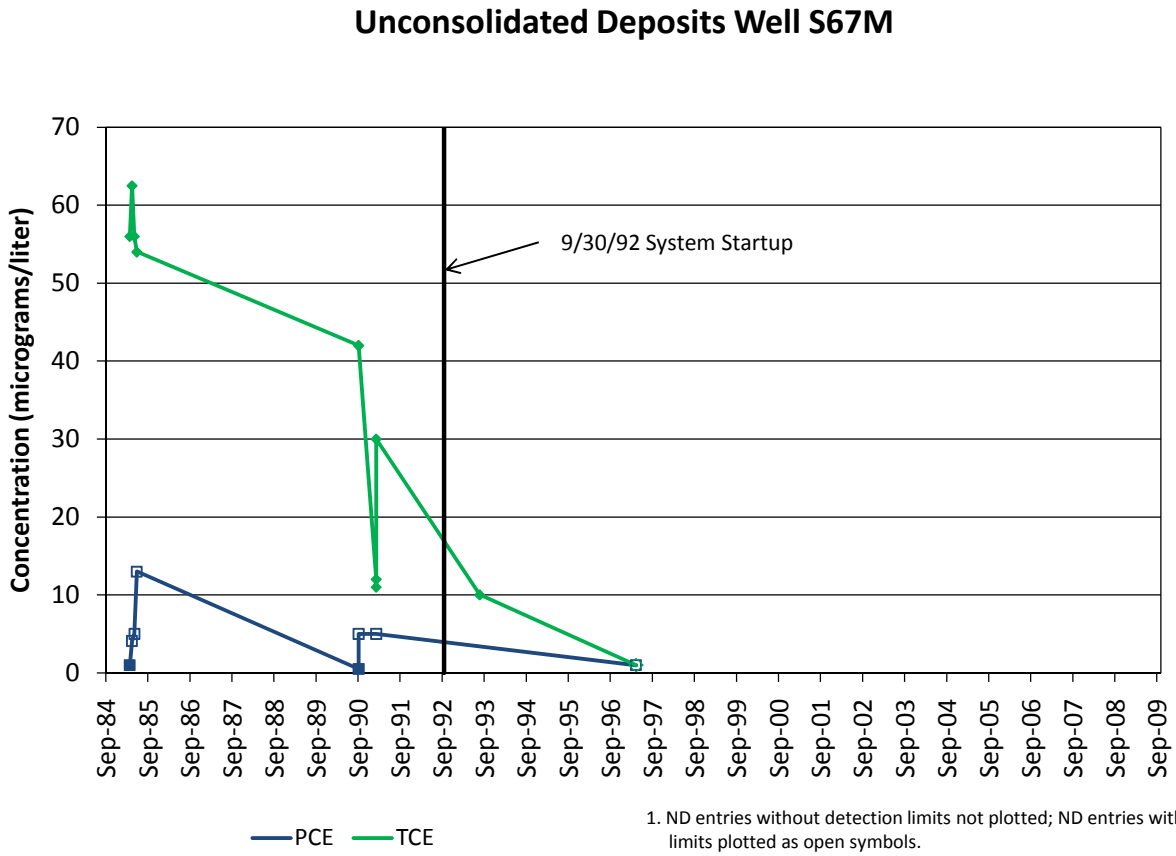
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



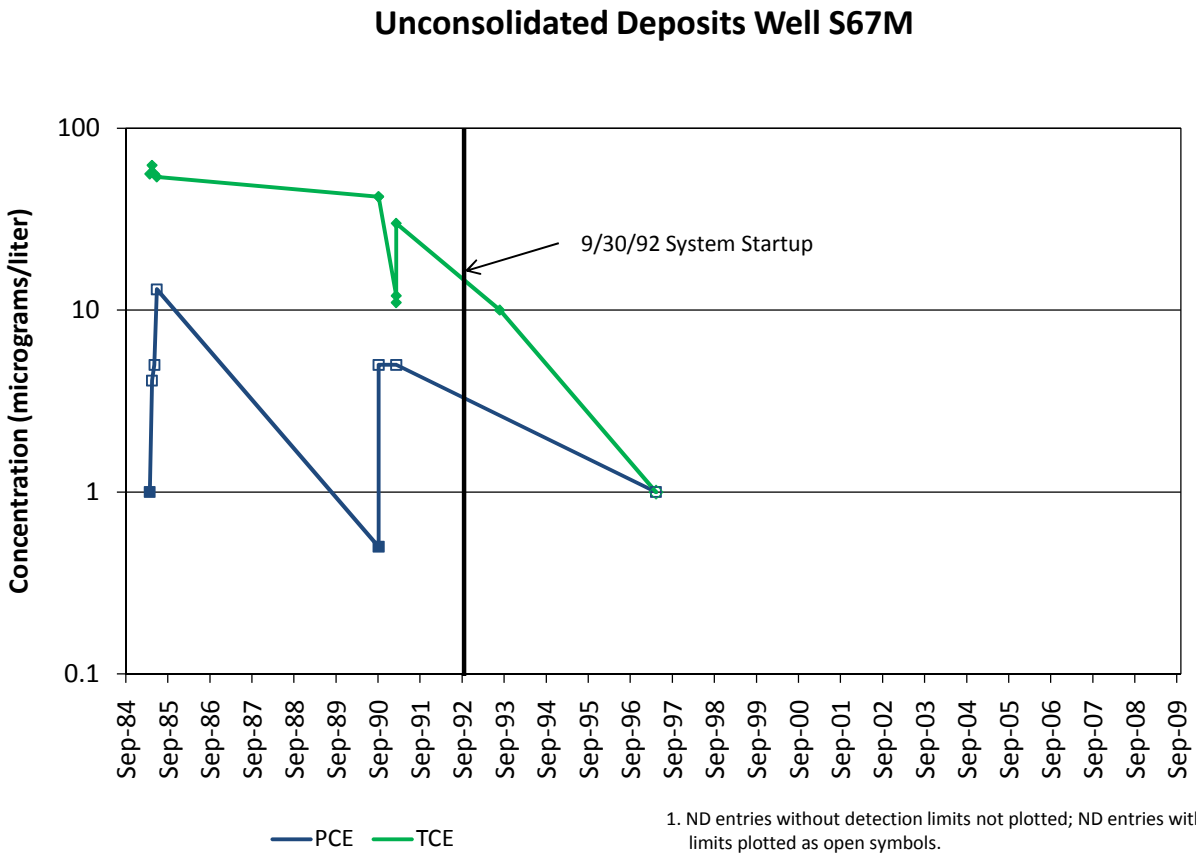
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



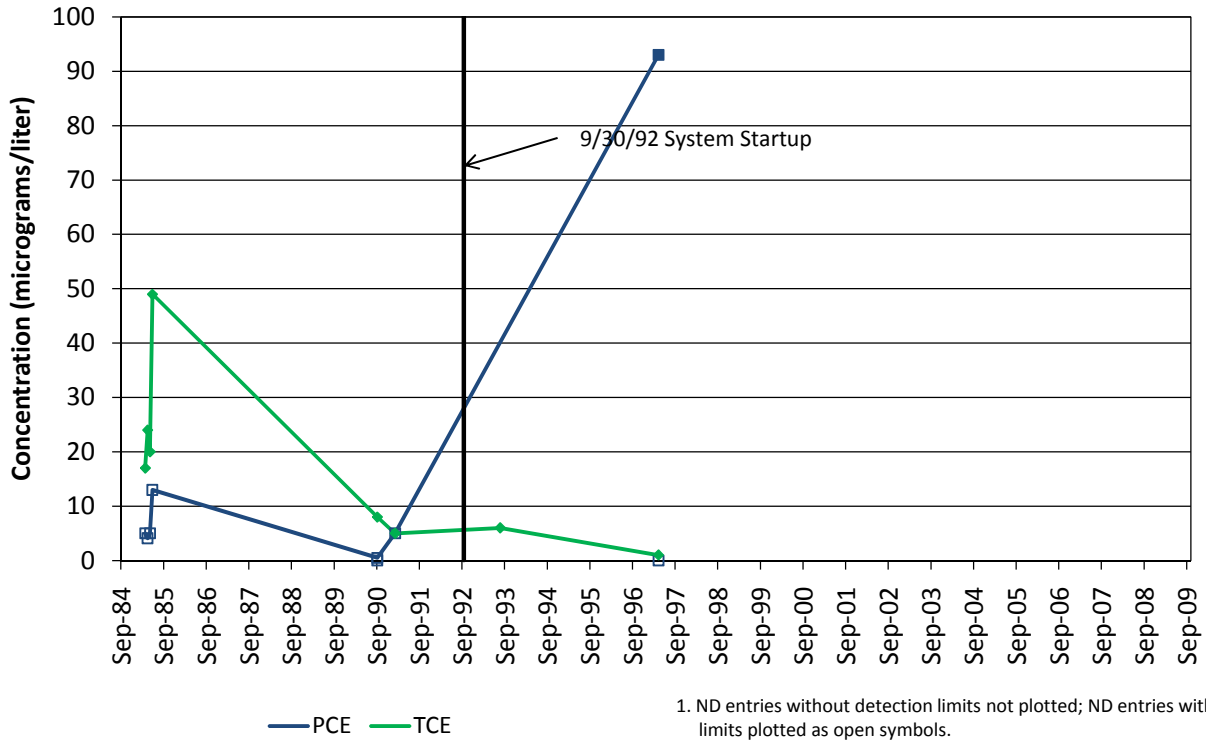
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



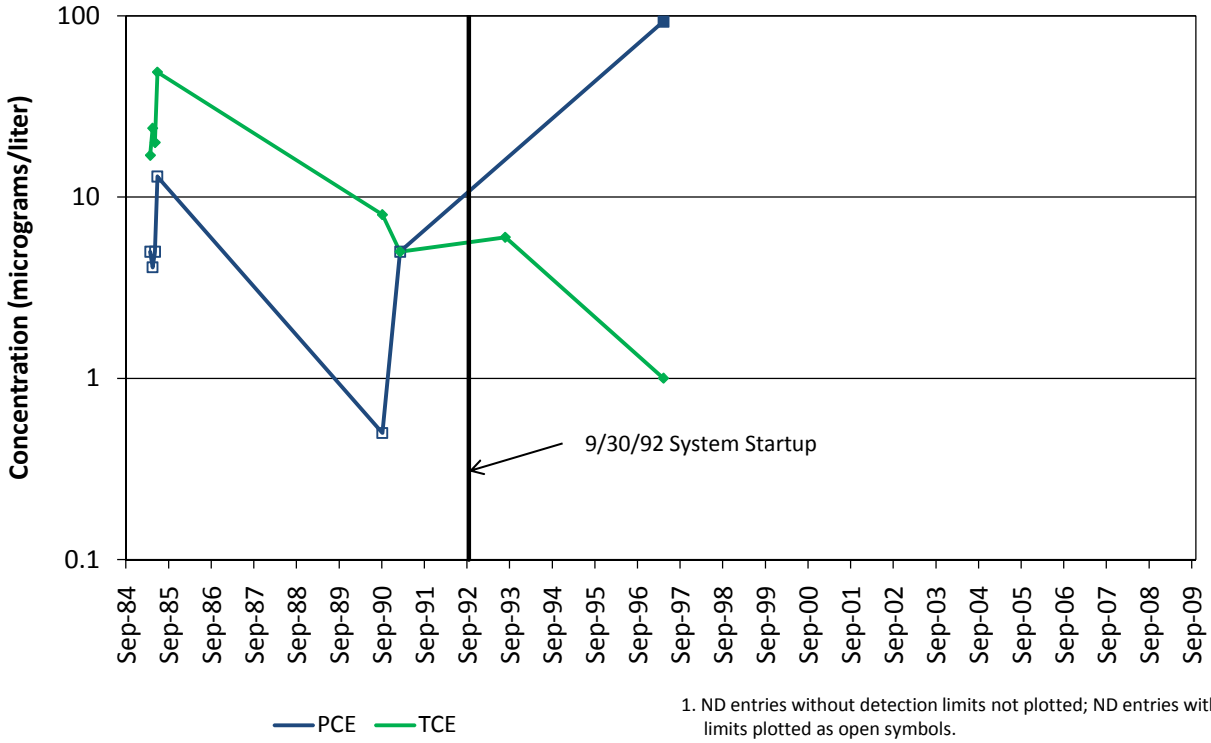
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



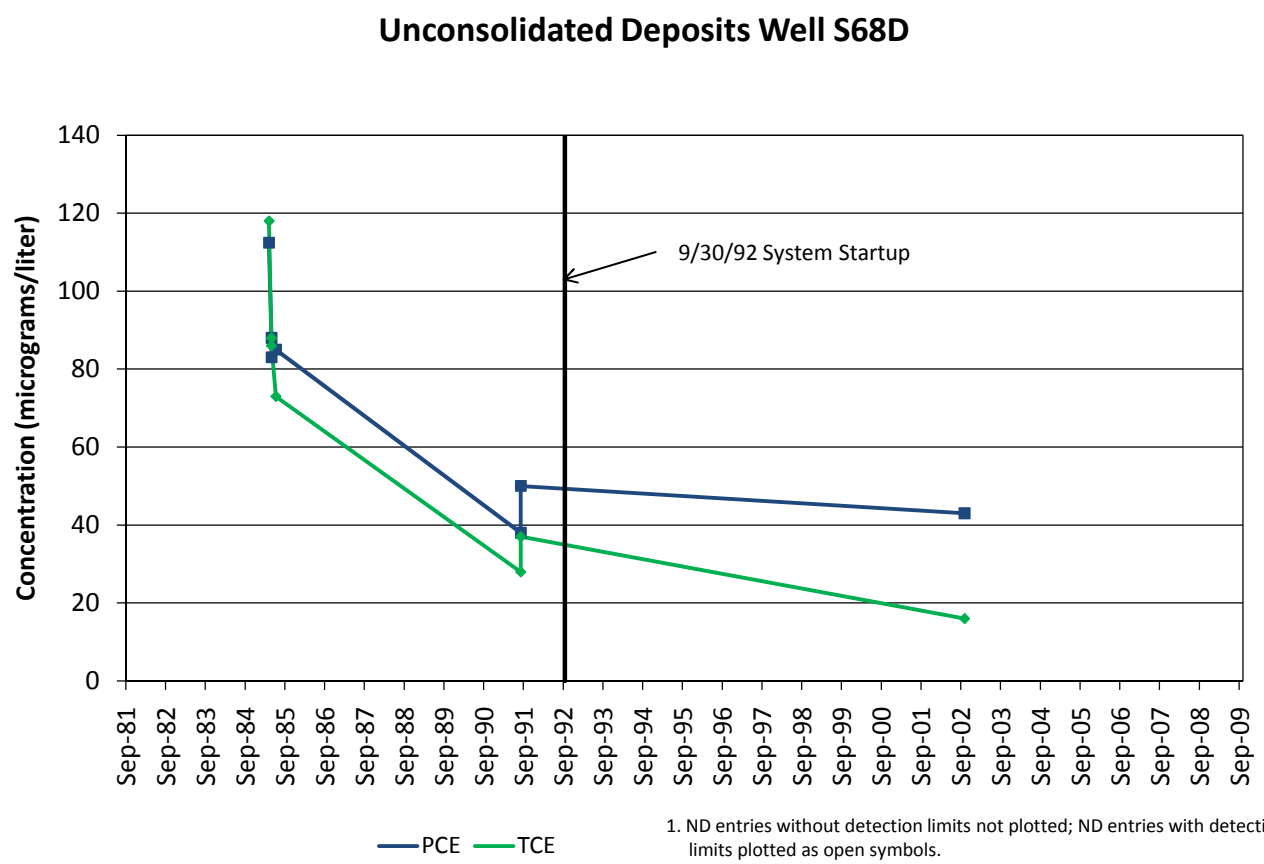
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



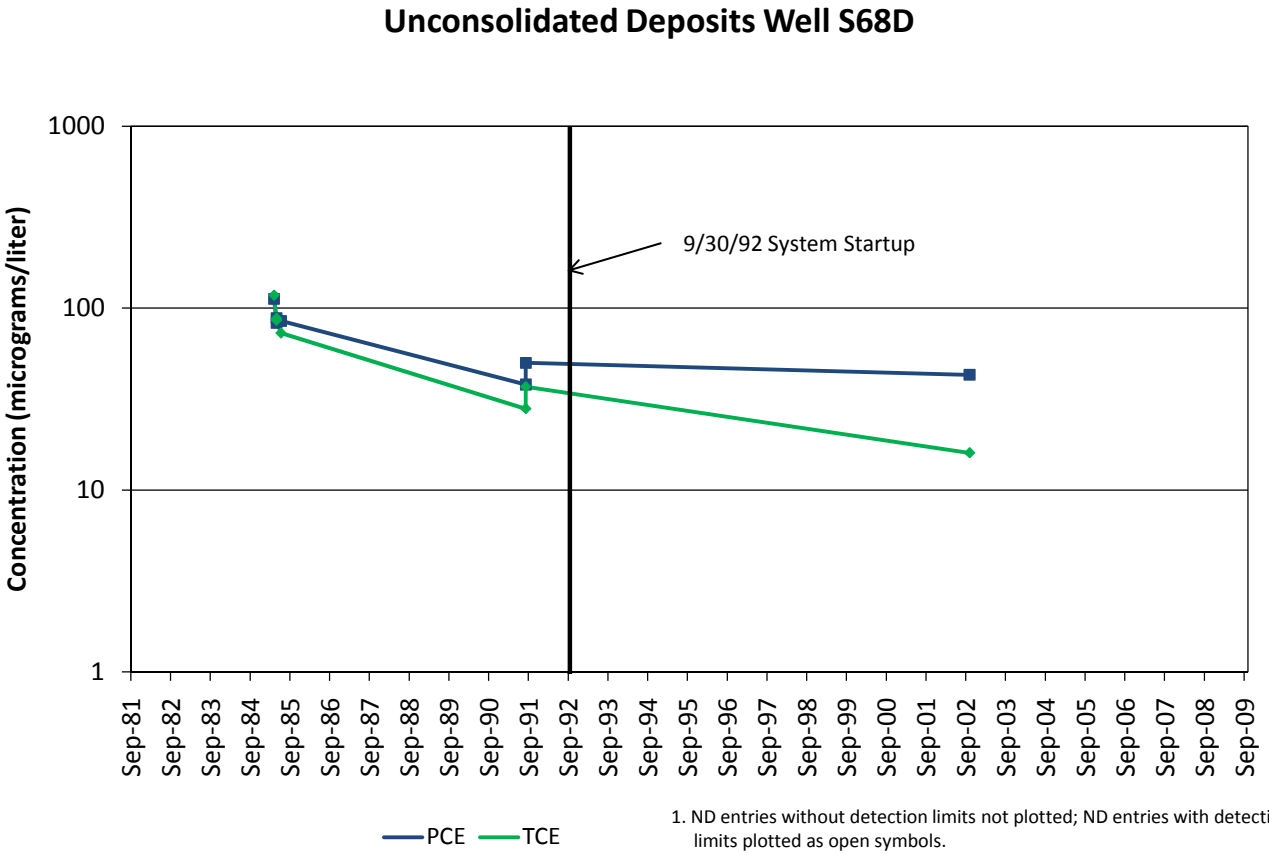
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



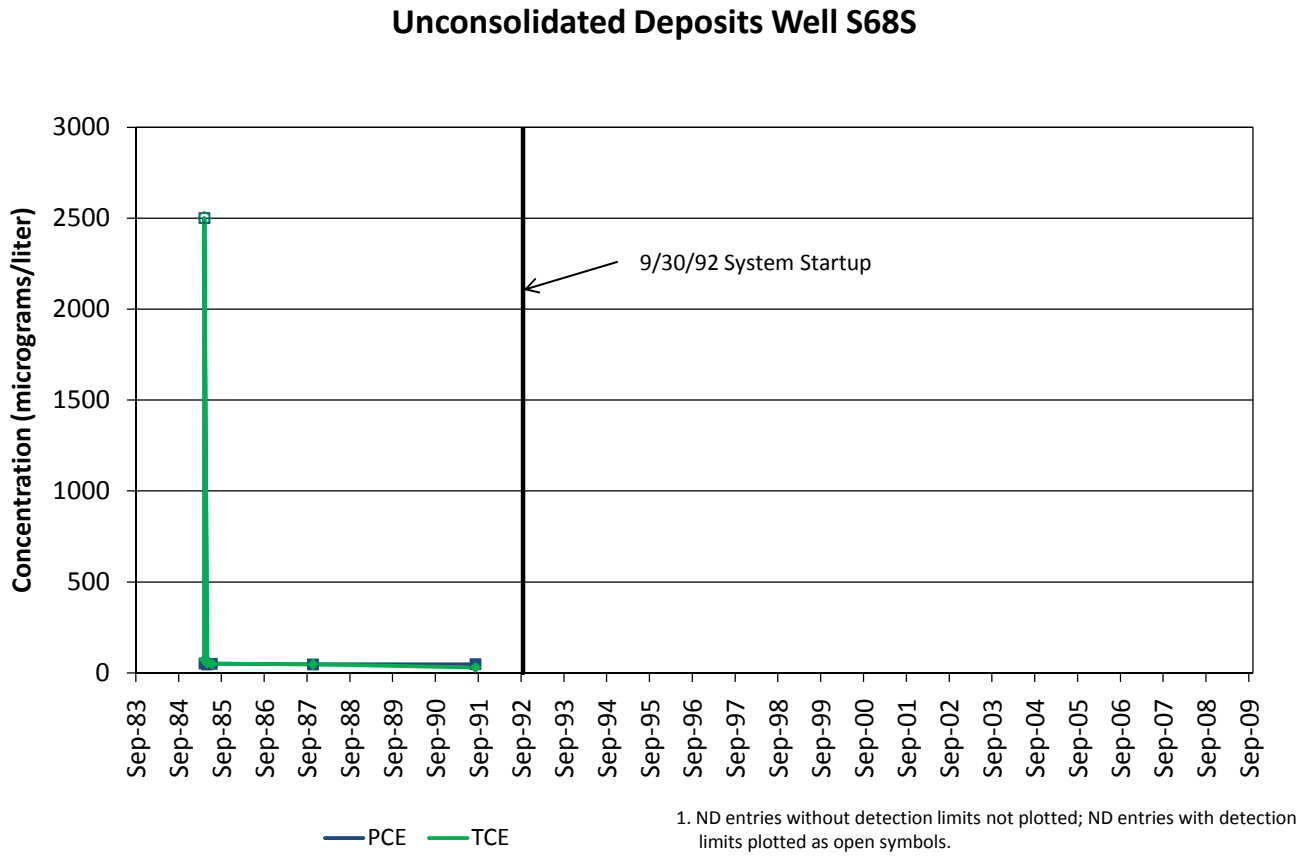
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



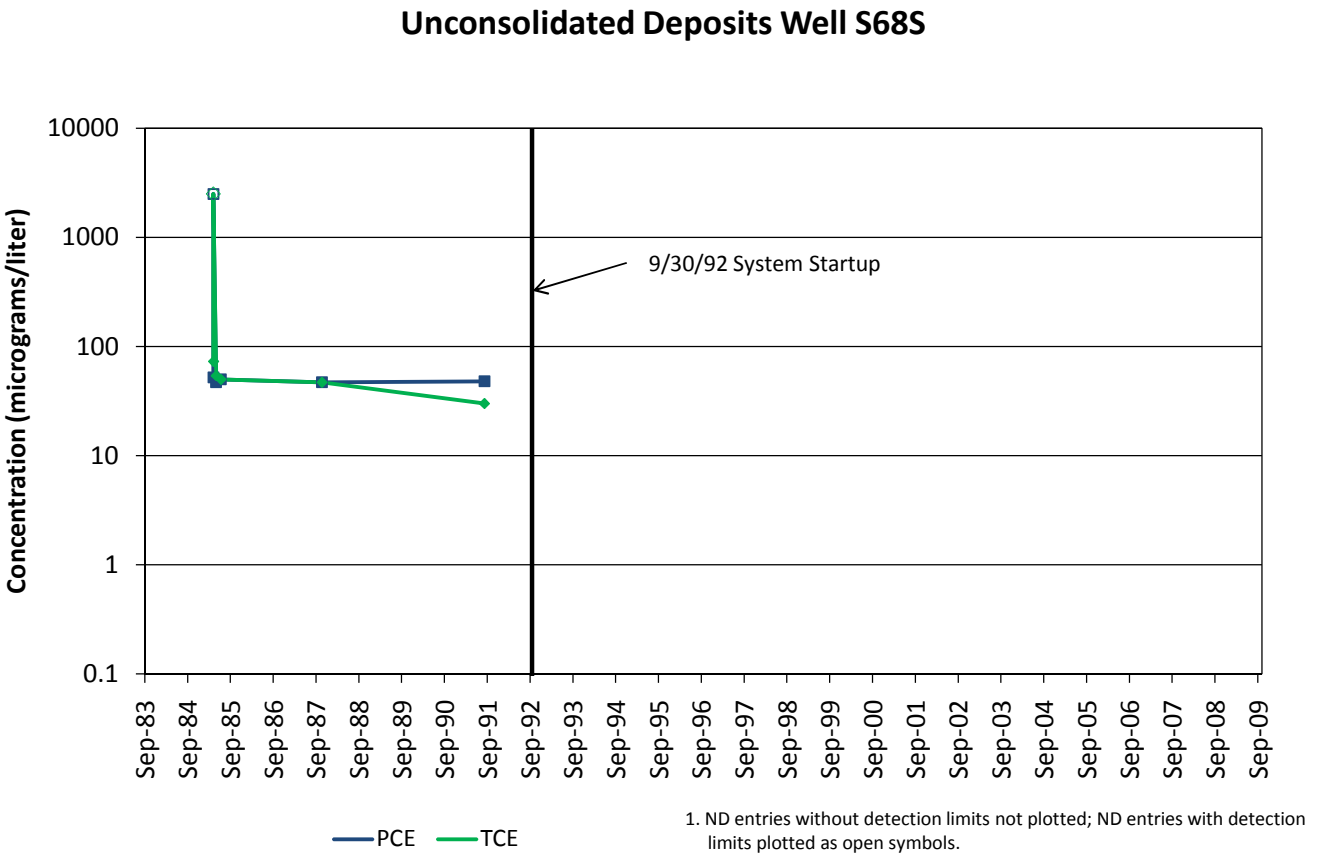
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



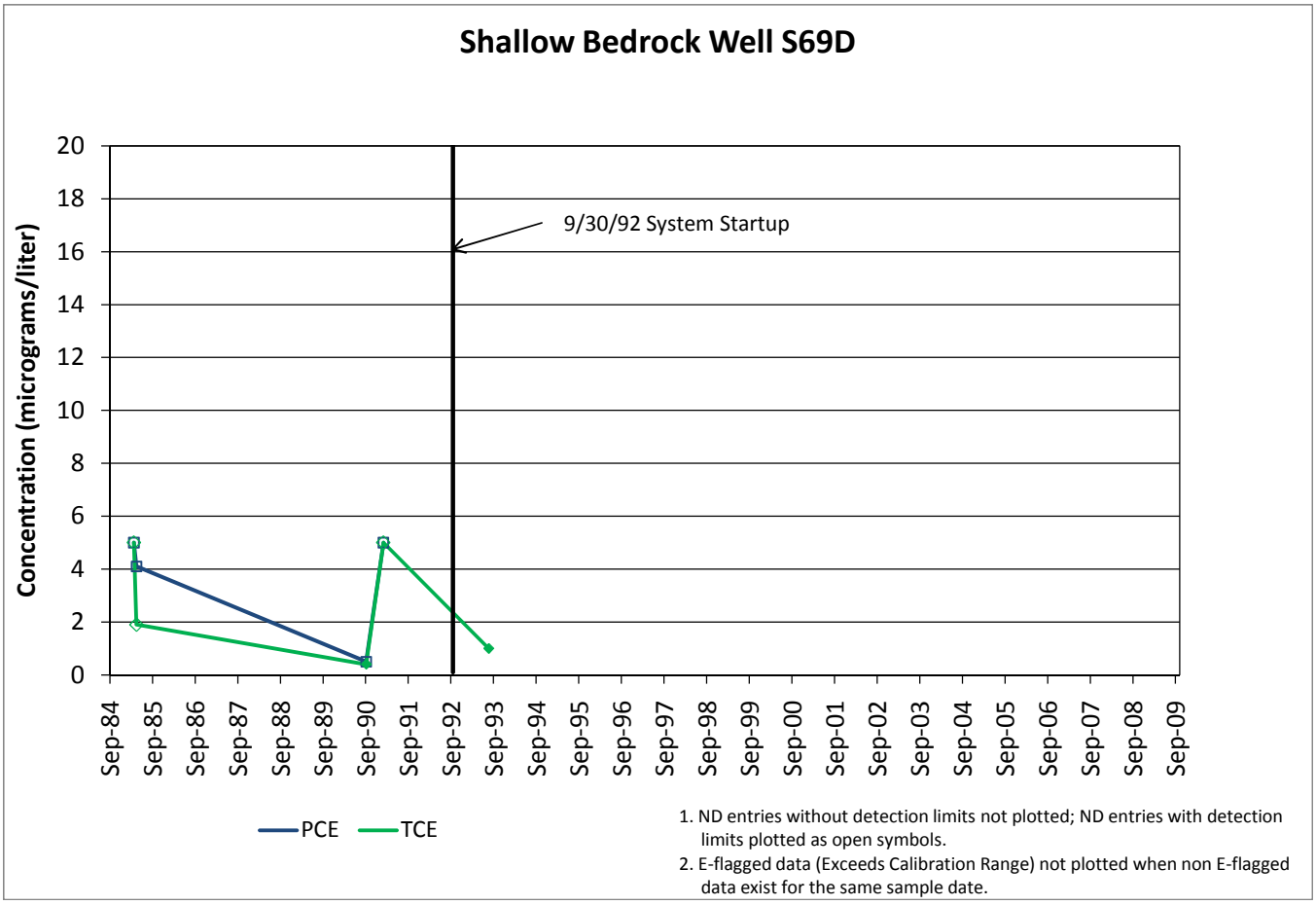
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

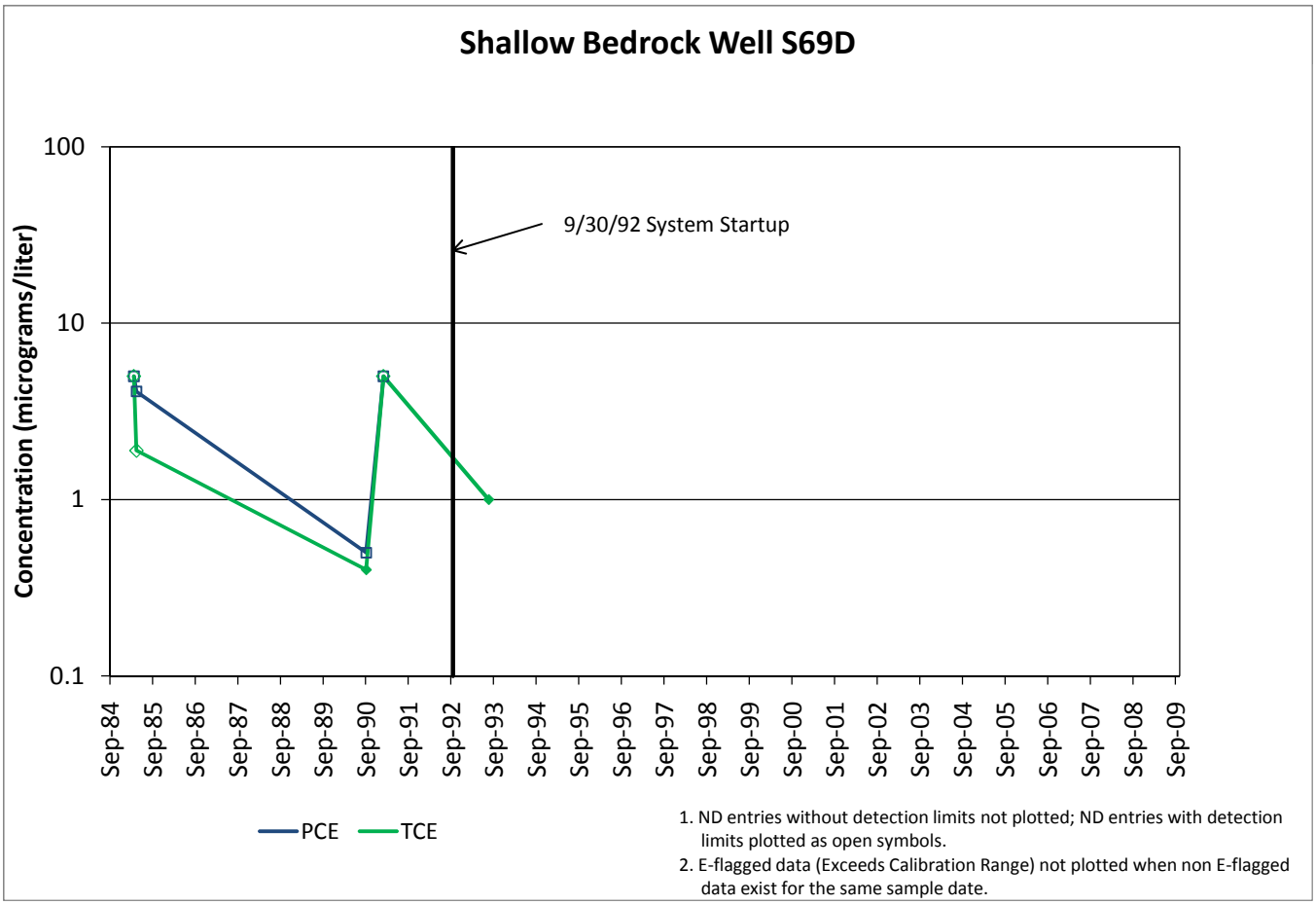


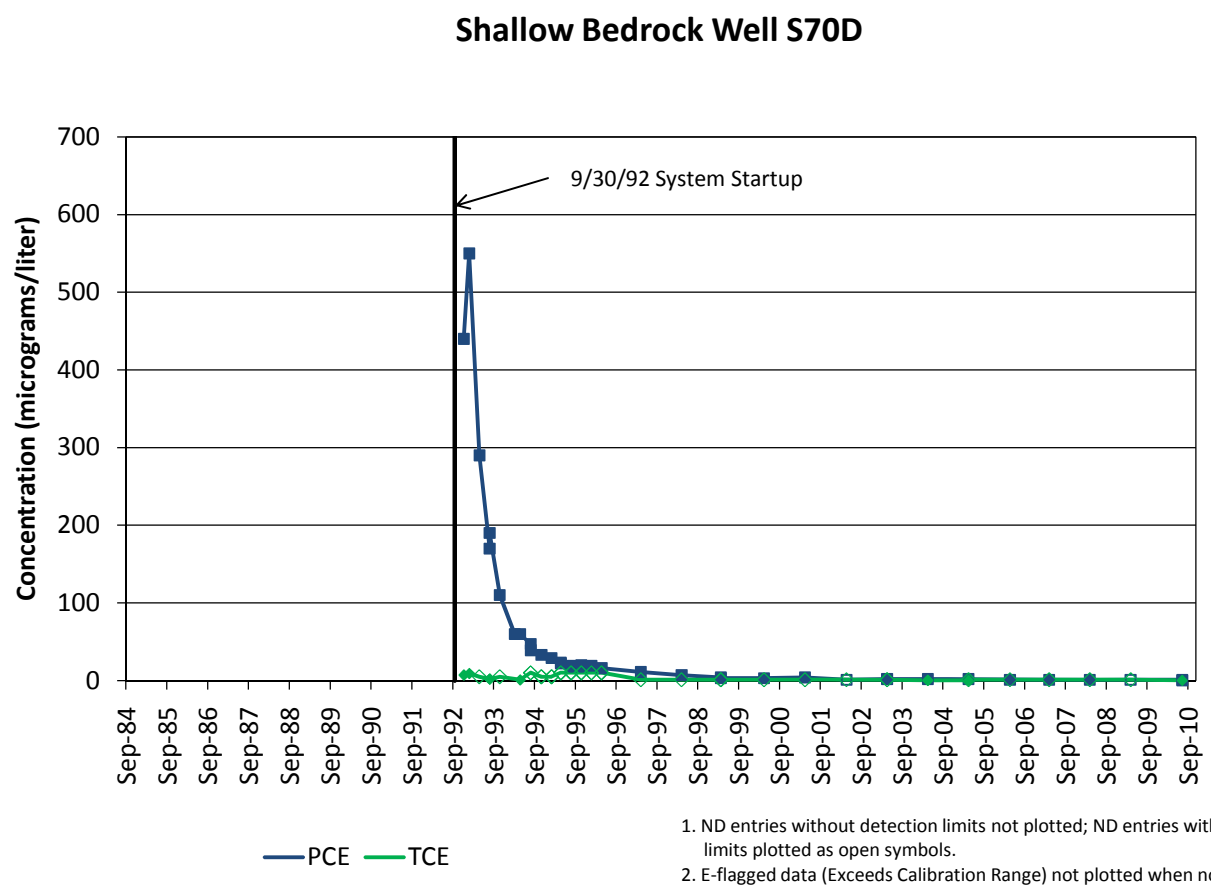
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



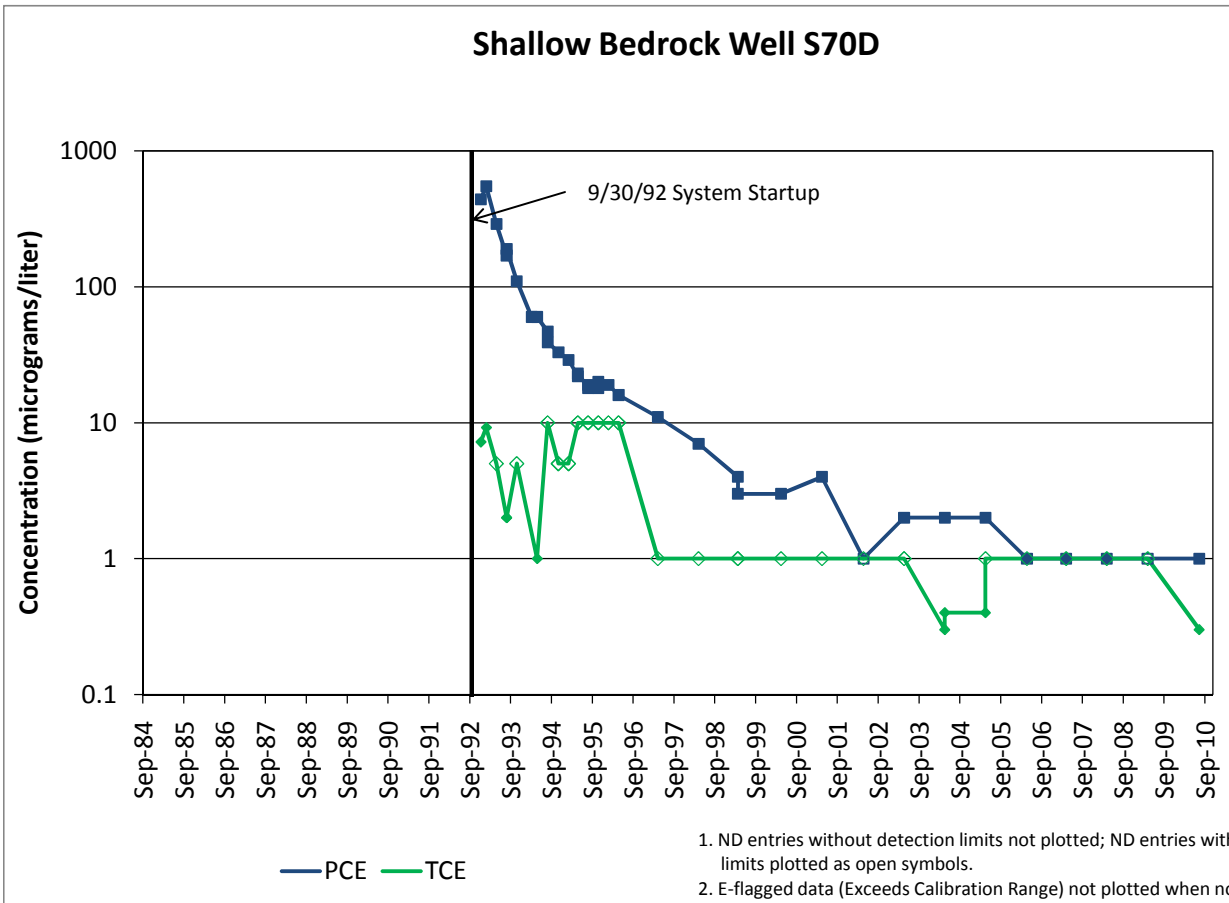
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well S69D
Concentration (micrograms/liter)
20
18
16
14
12
10
8
6
4
2
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

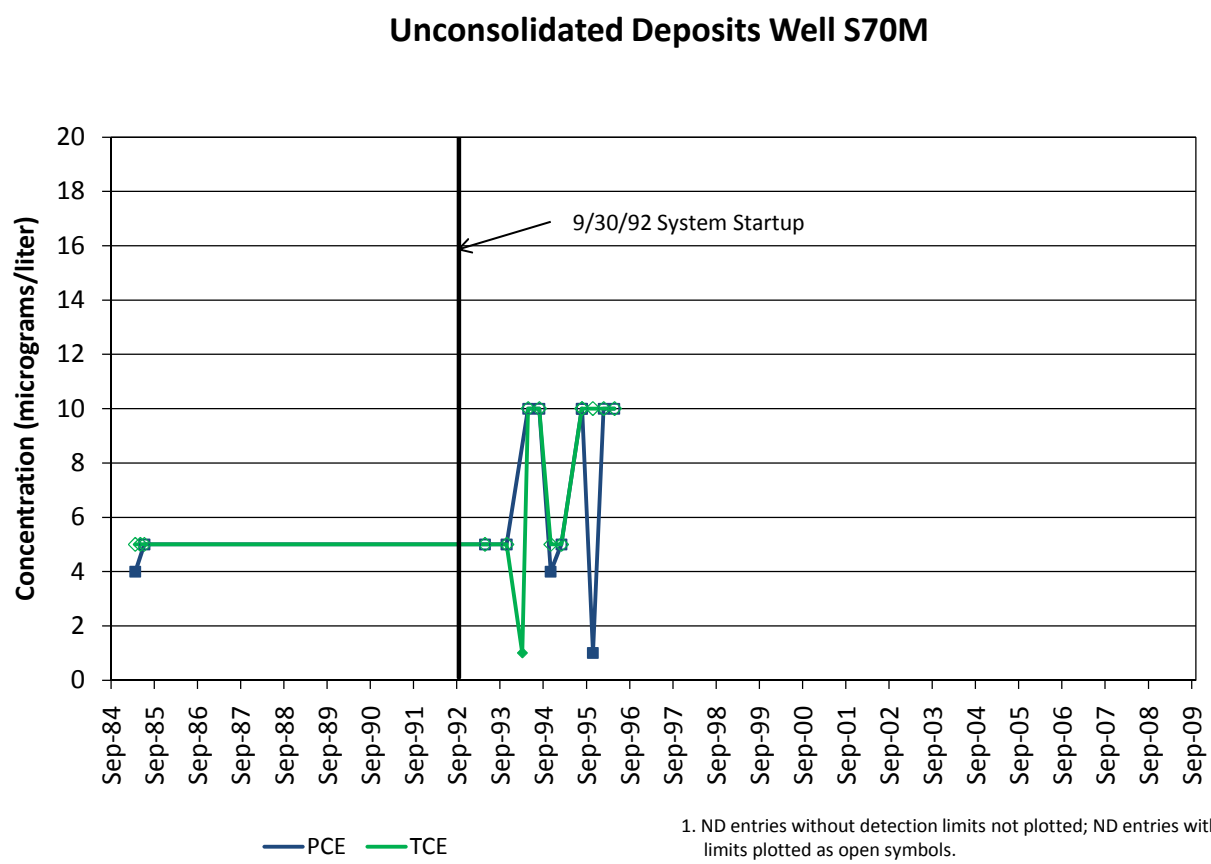

Shallow Bedrock Well S69D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



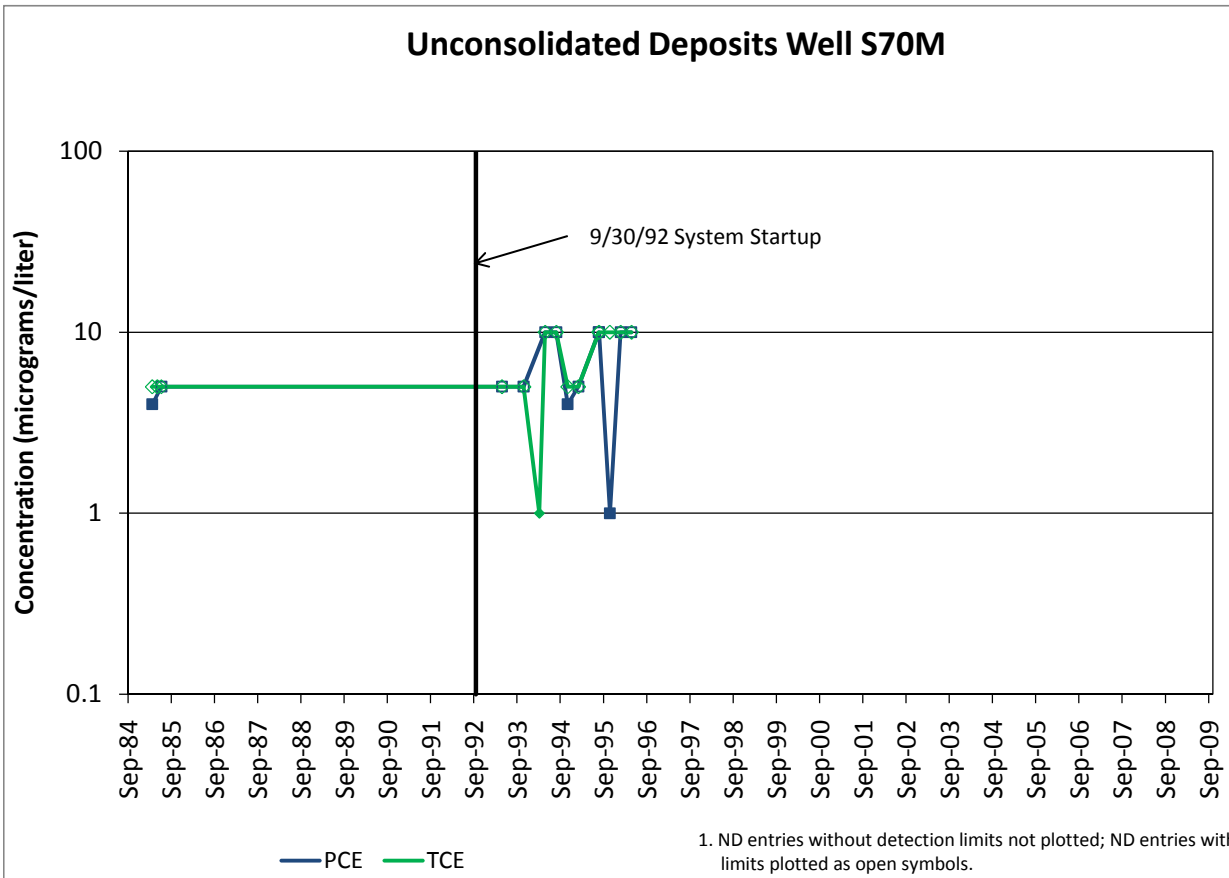
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



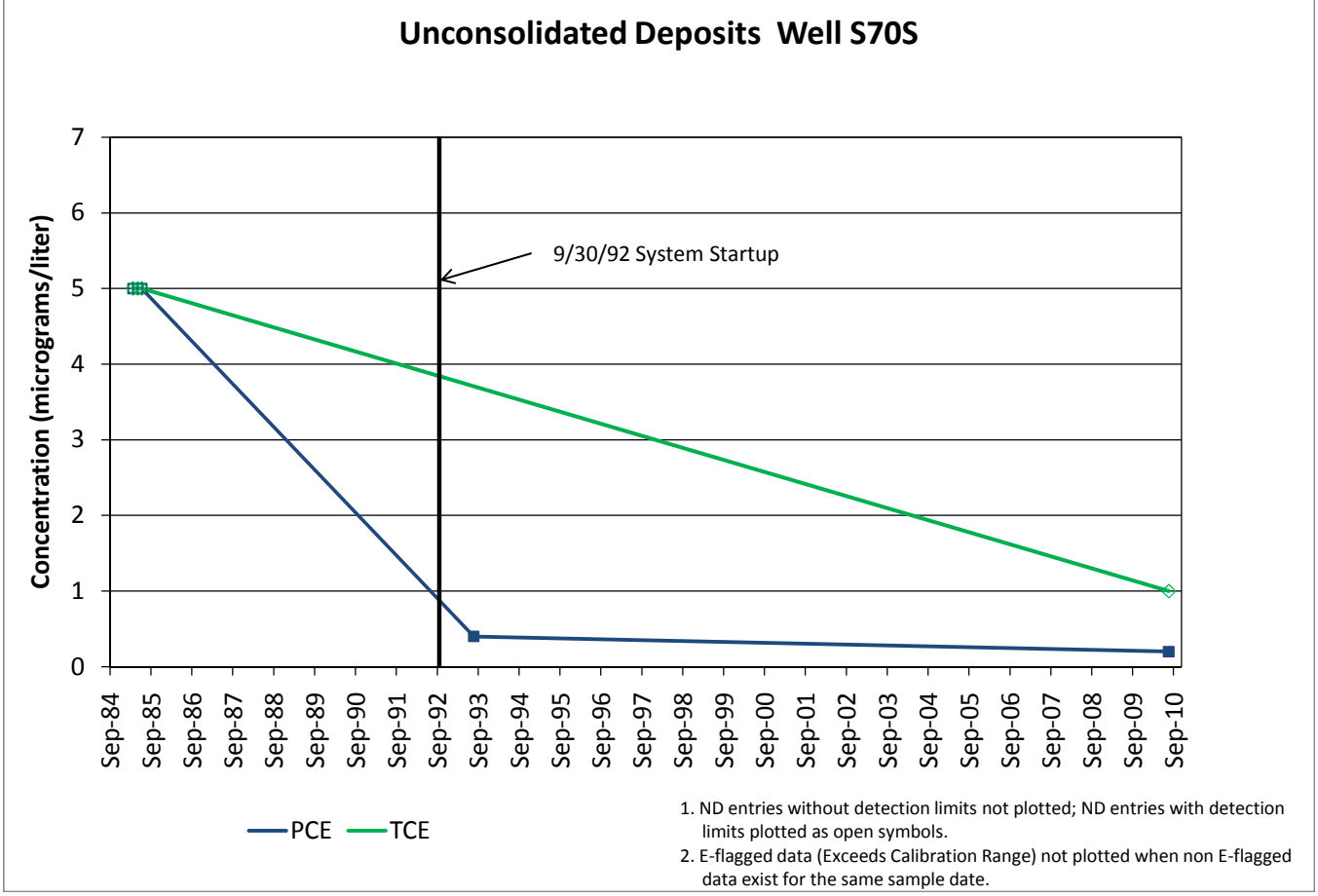
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

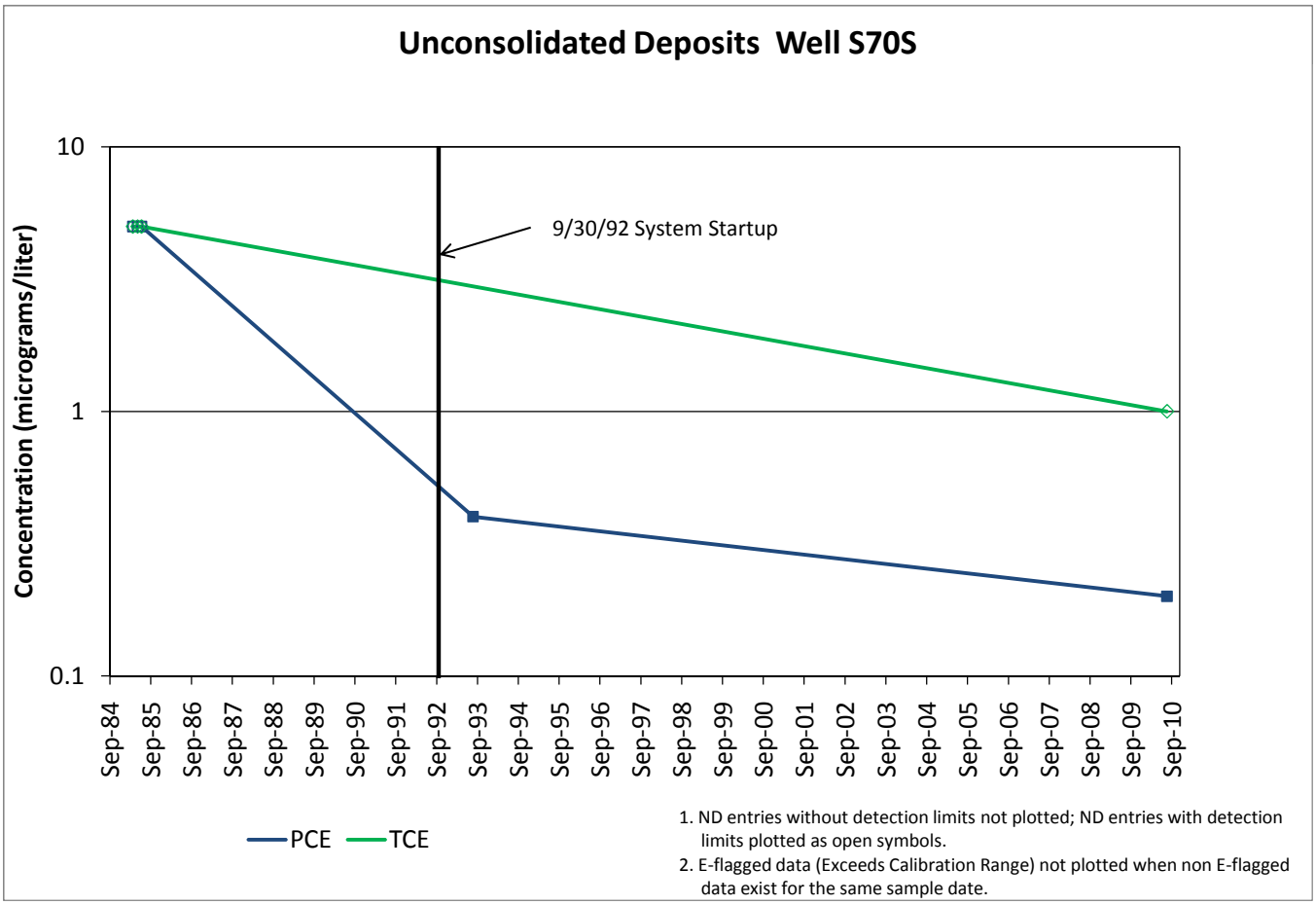


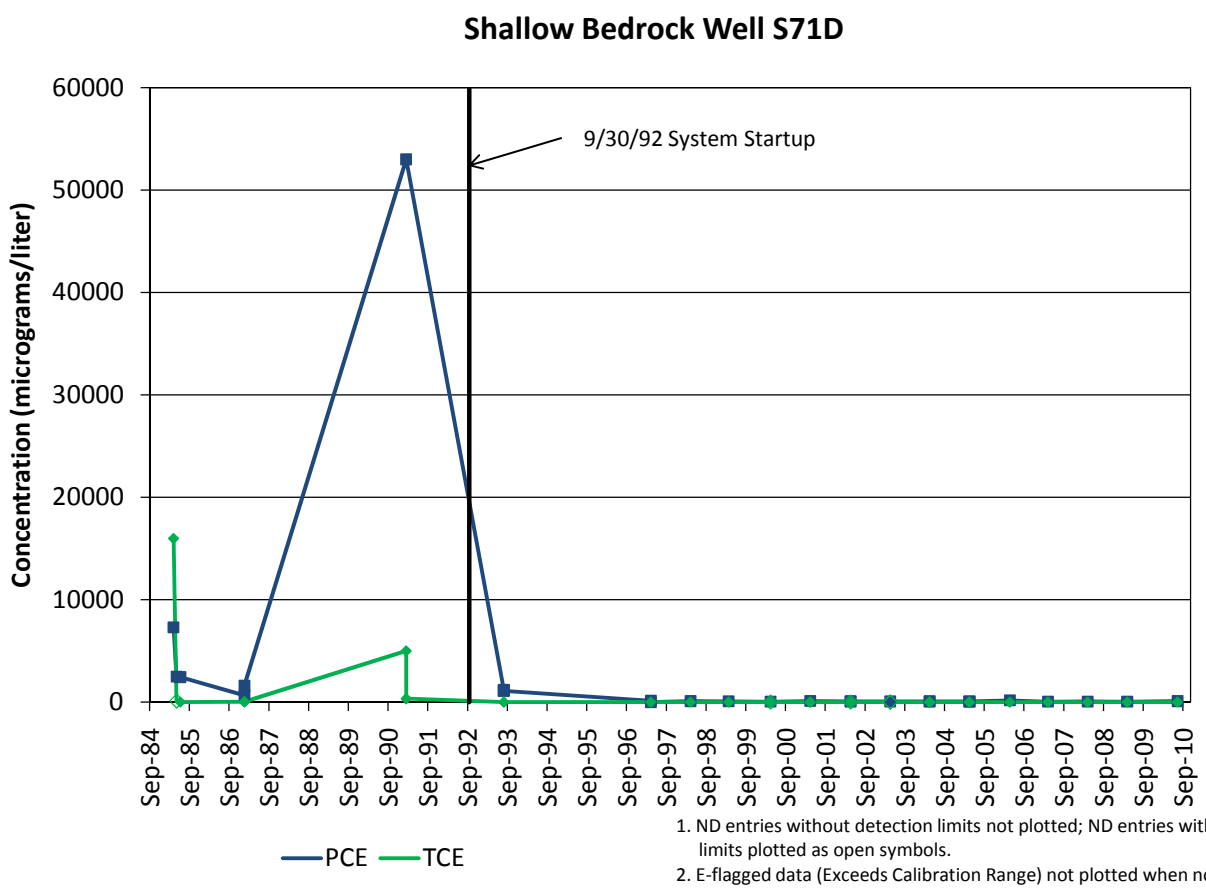
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



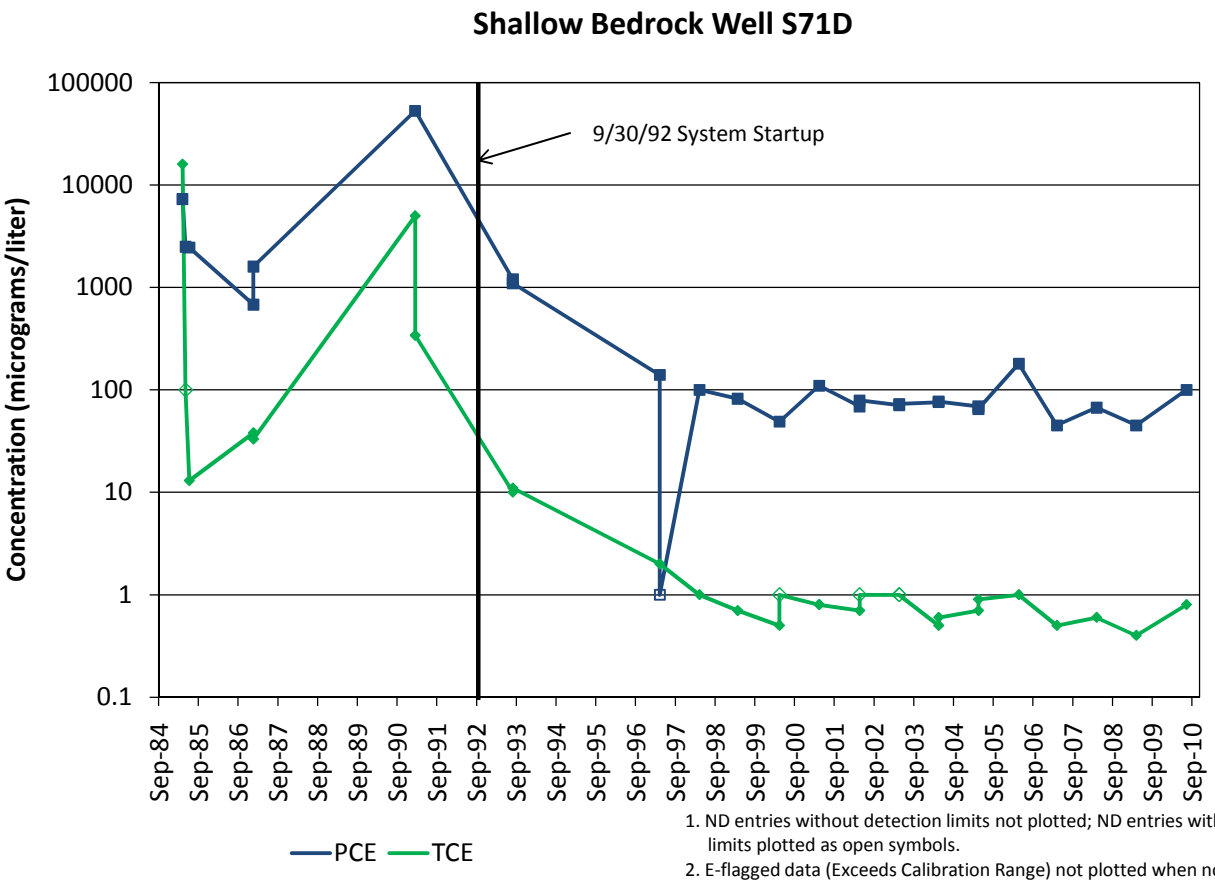
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S70S
Concentration (micrograms/liter)
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

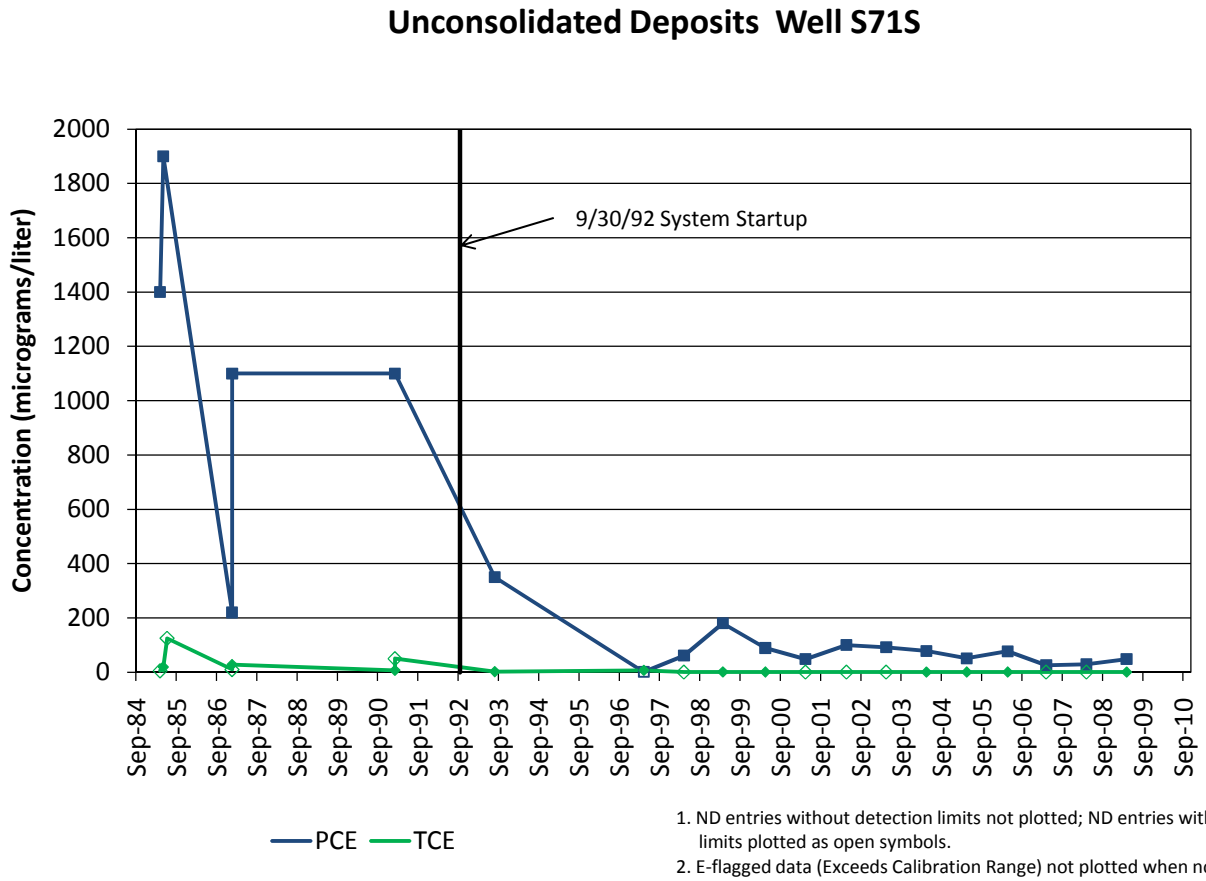

Unconsolidated Deposits Well S70S
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



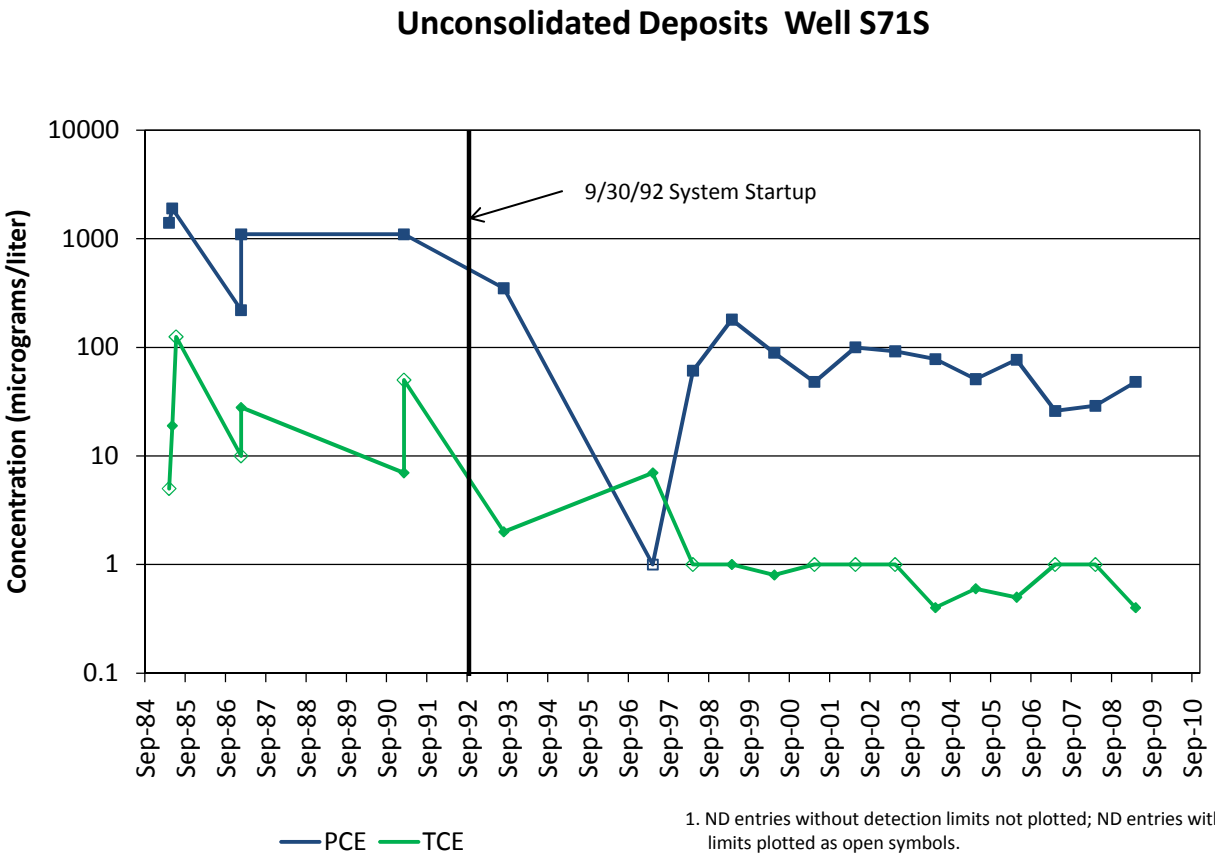
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



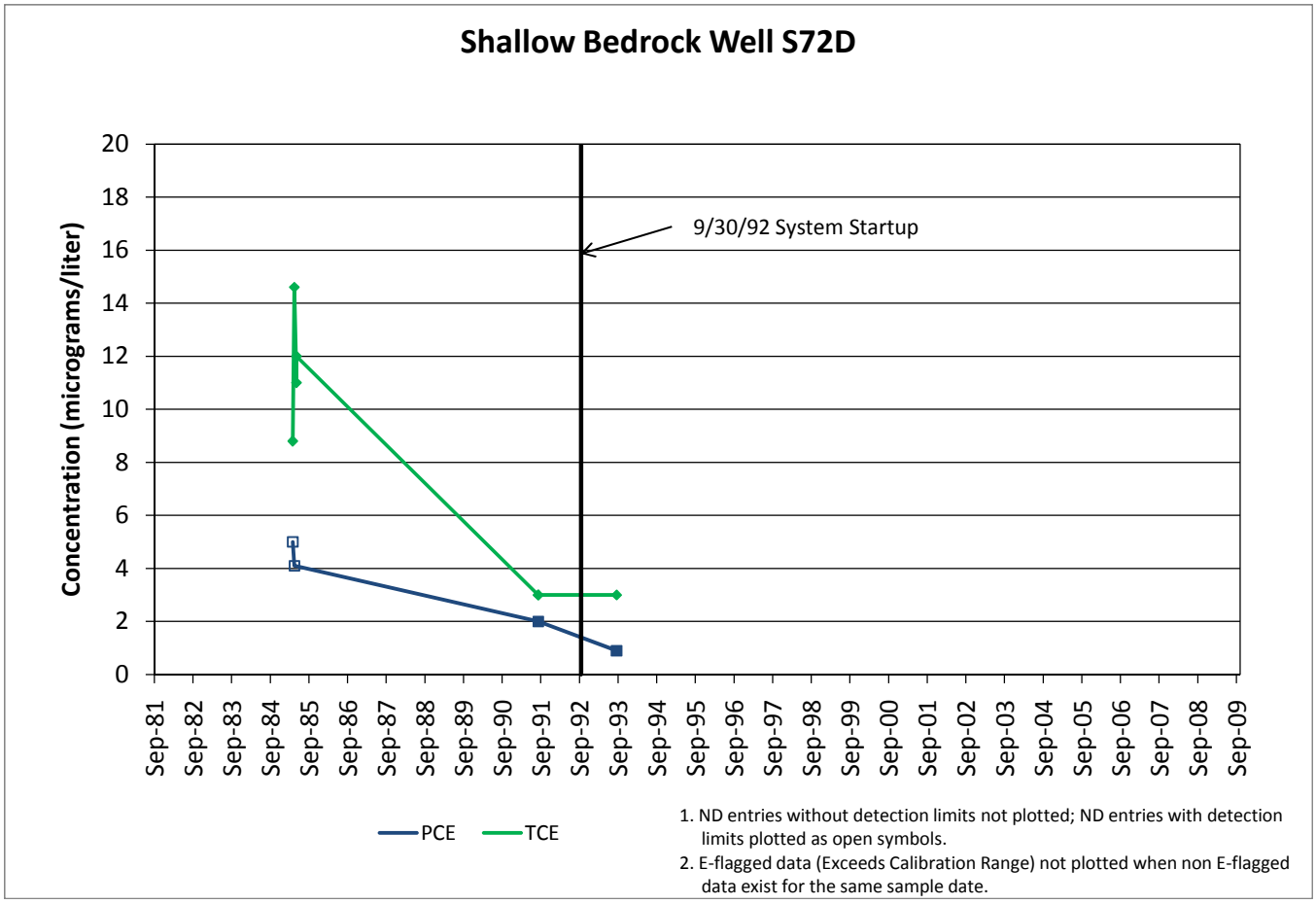
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

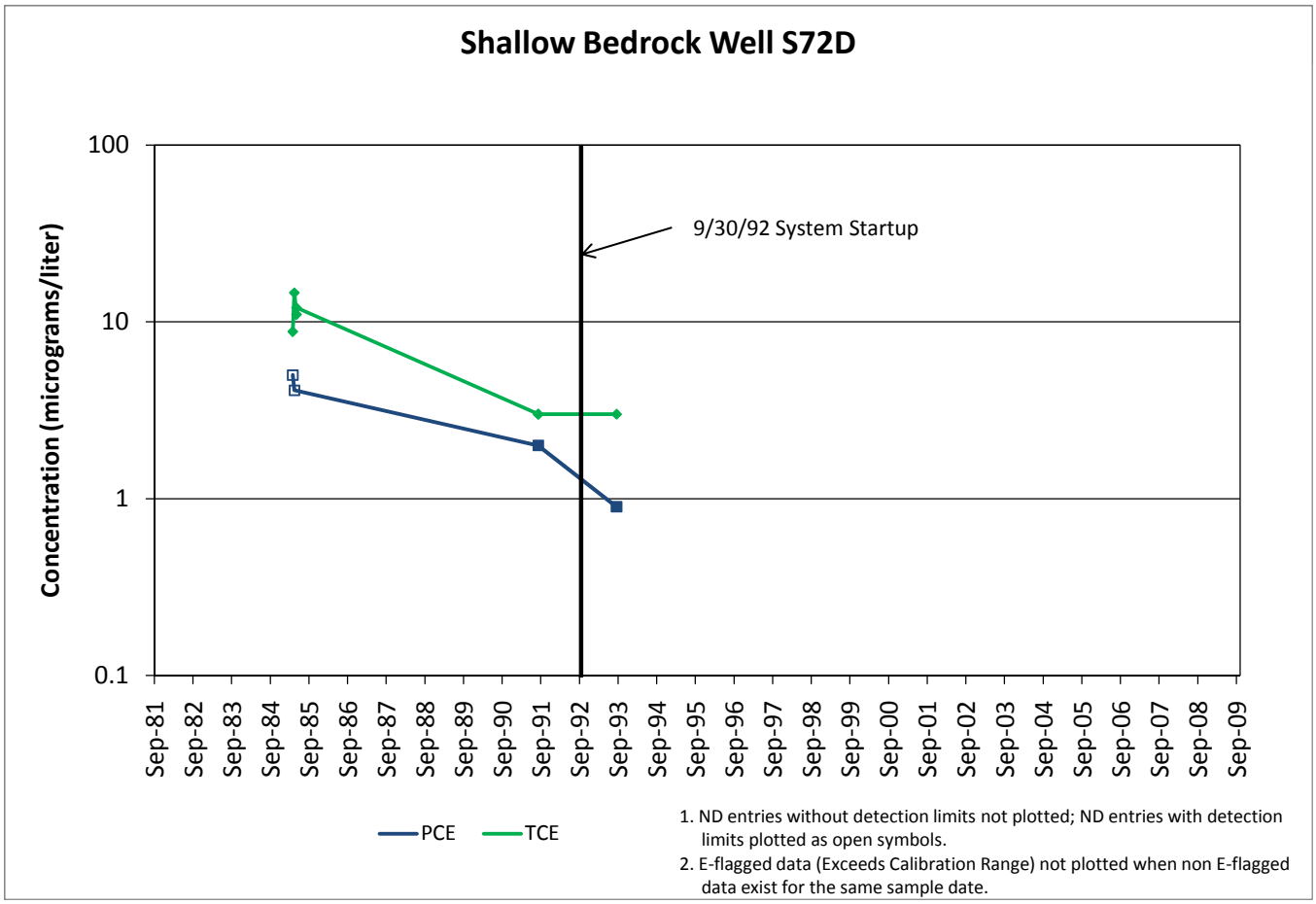


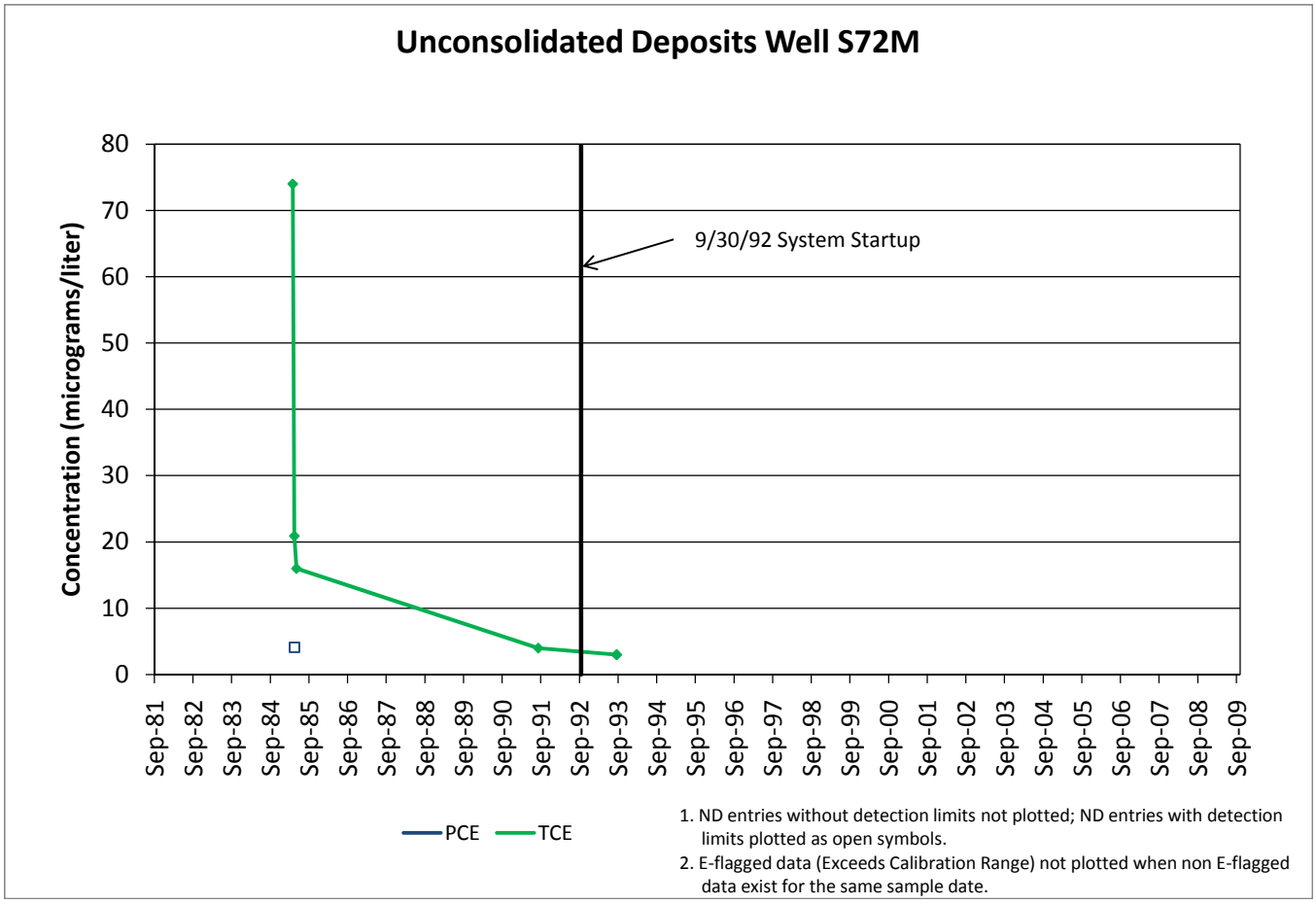
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

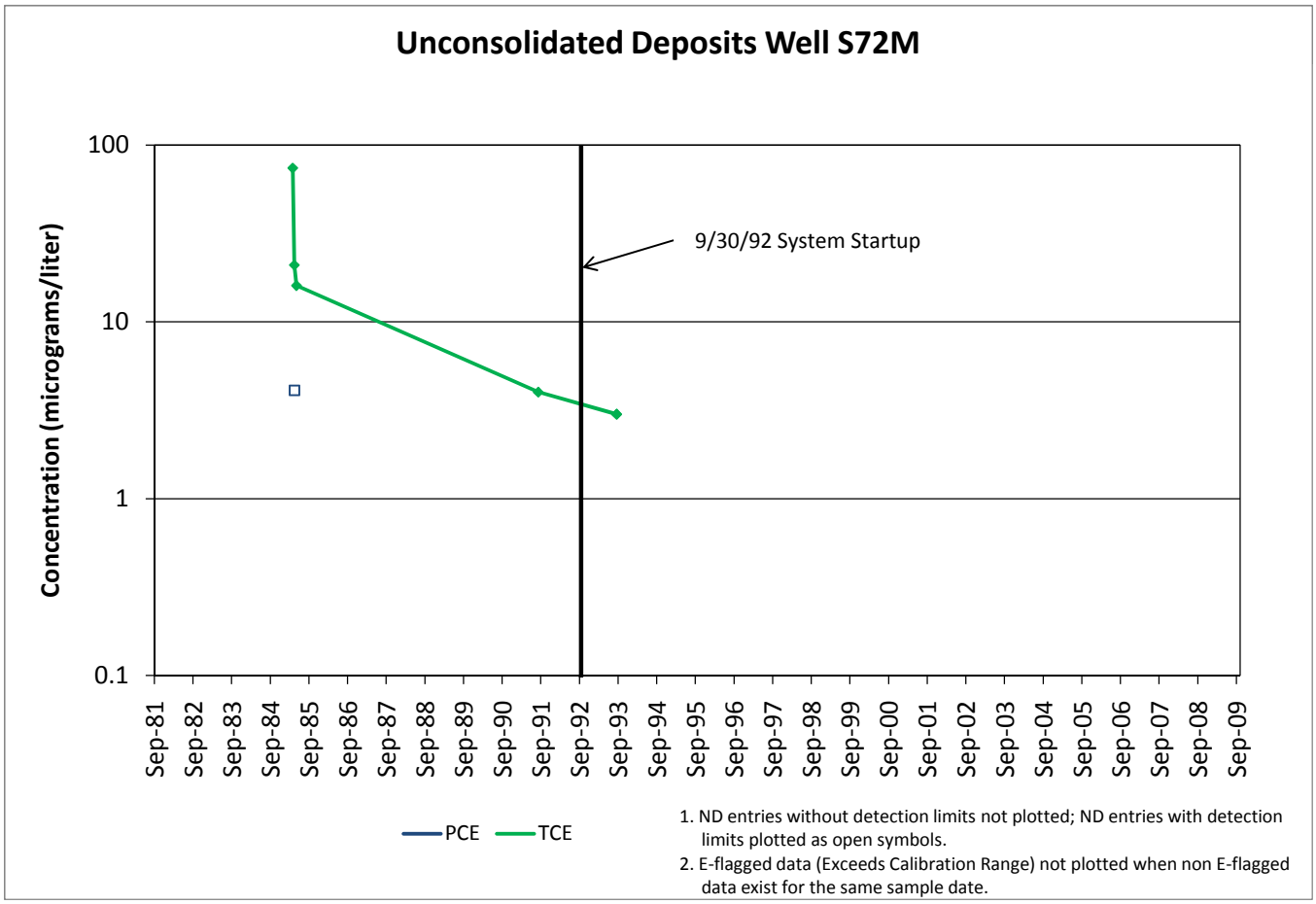


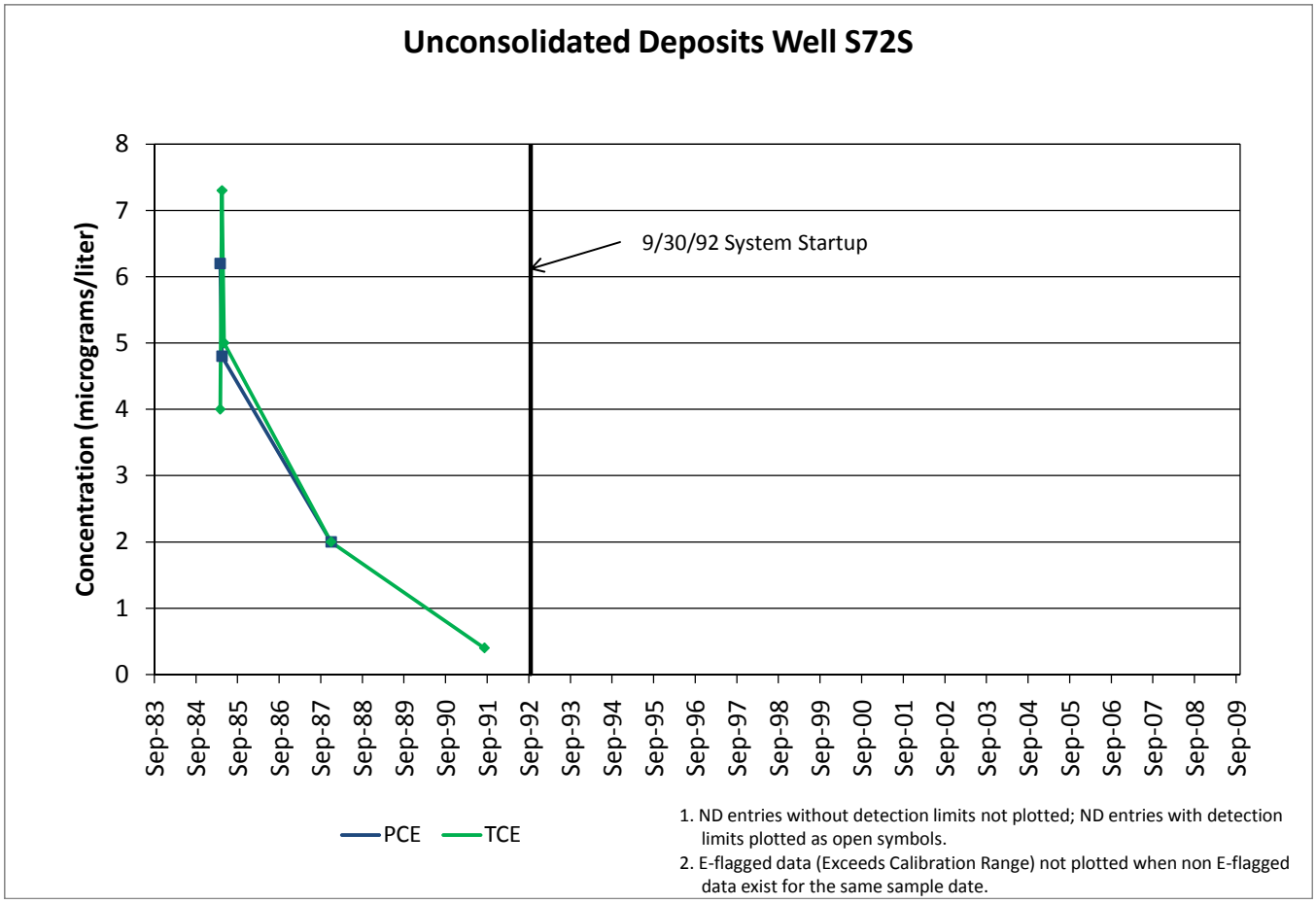
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

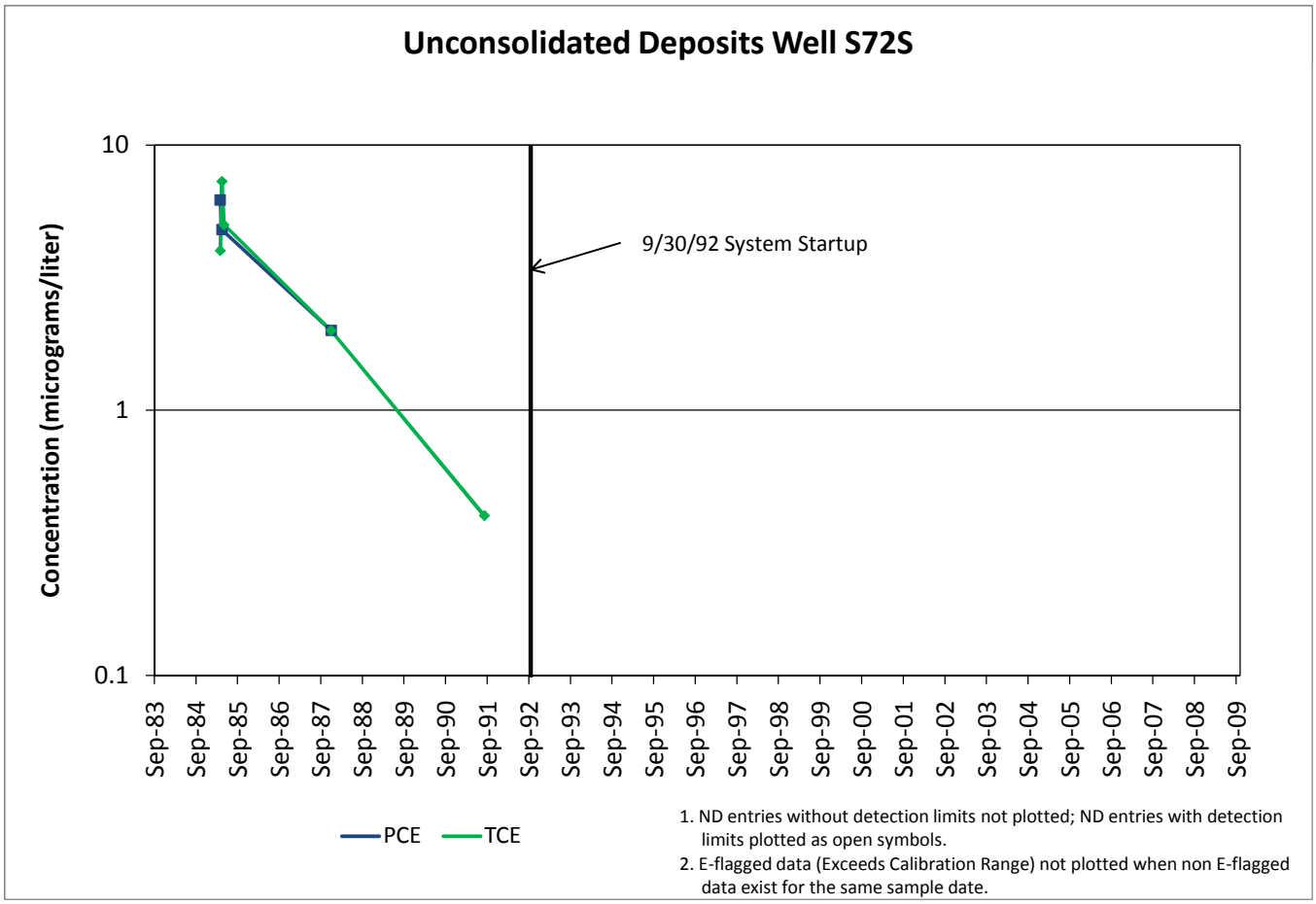

Shallow Bedrock Well S72D
Concentration (micrograms/liter)
20
18
16
14
12
10
8
6
4
2
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

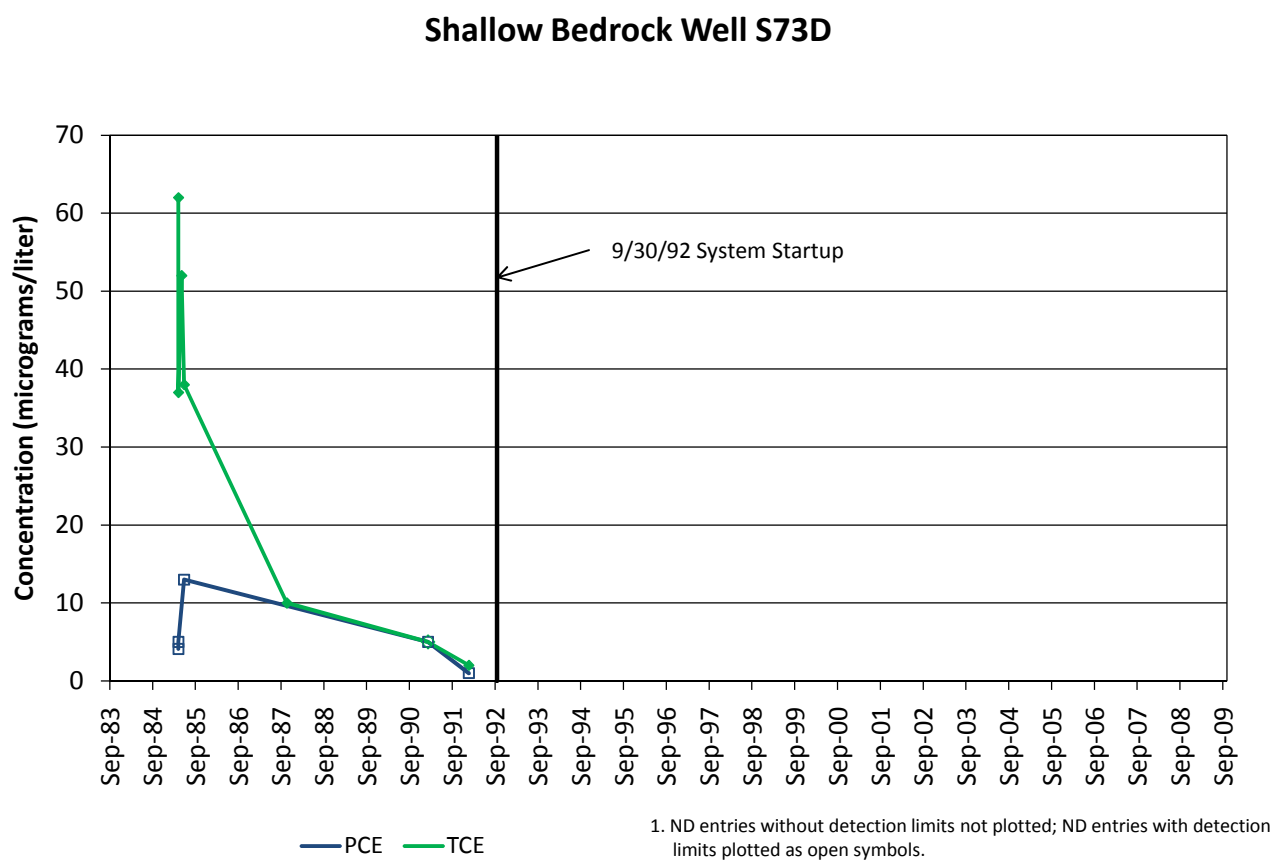

Shallow Bedrock Well S72D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S72M
Concentration (micrograms/liter)
80
70
60
50
40
30
20
10
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

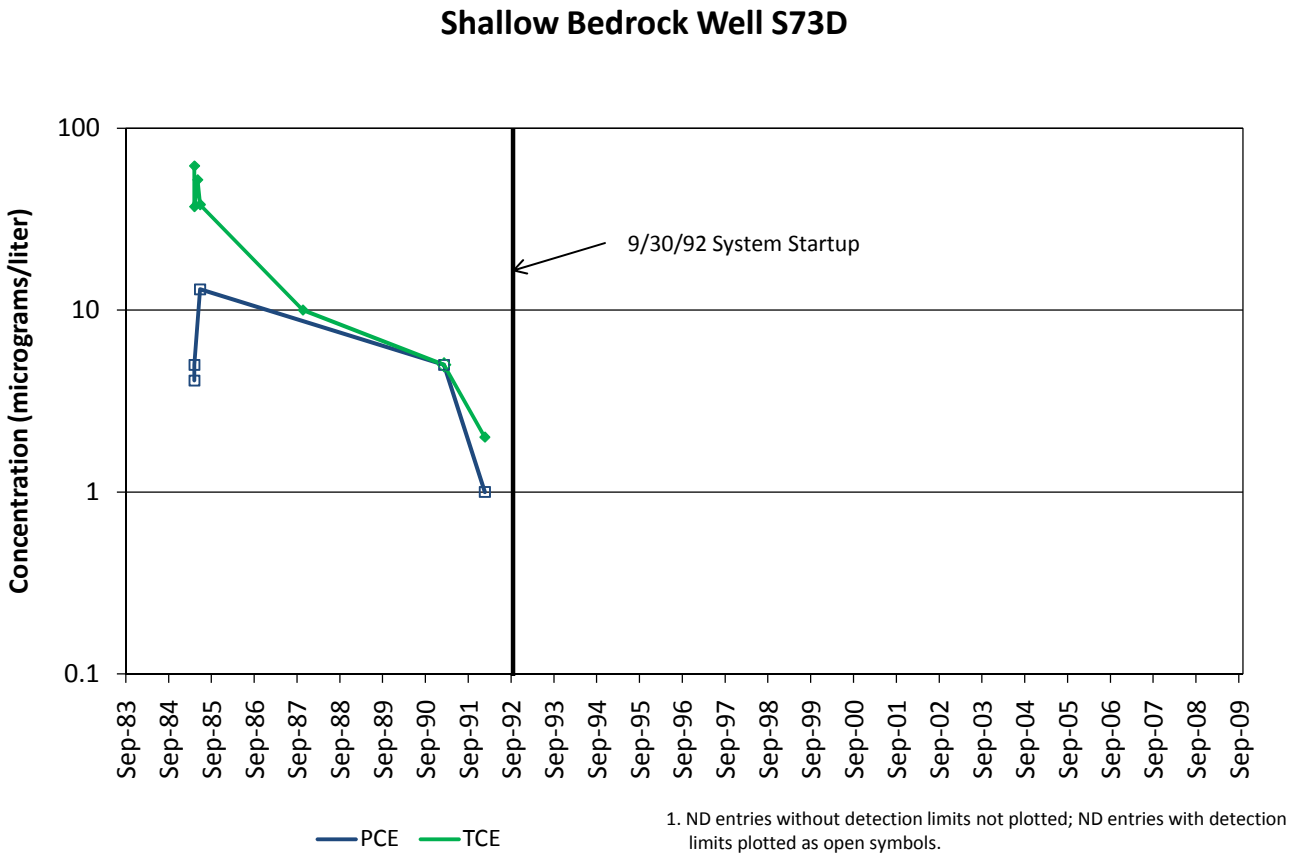

Unconsolidated Deposits Well S72M
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S72S
Concentration (micrograms/liter)
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

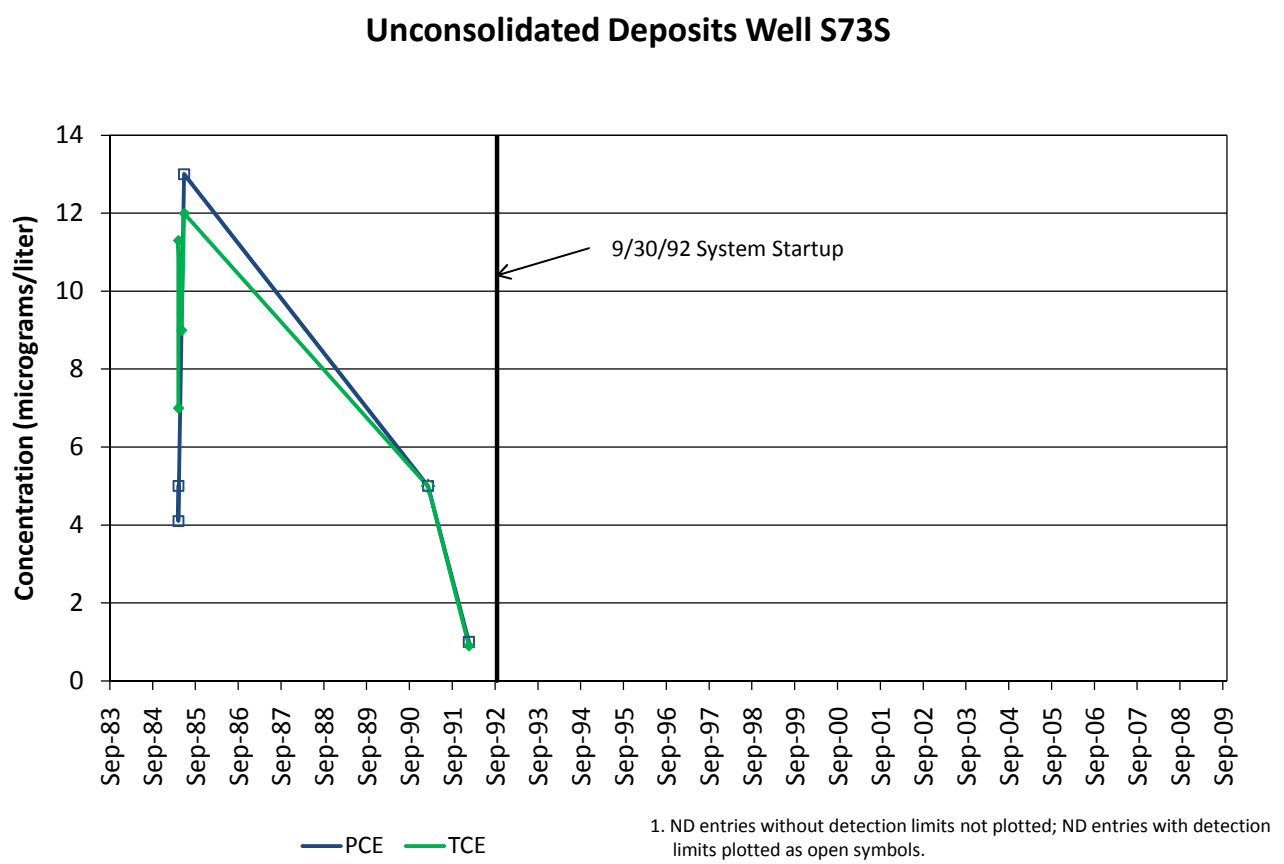

Unconsolidated Deposits Well S72S
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



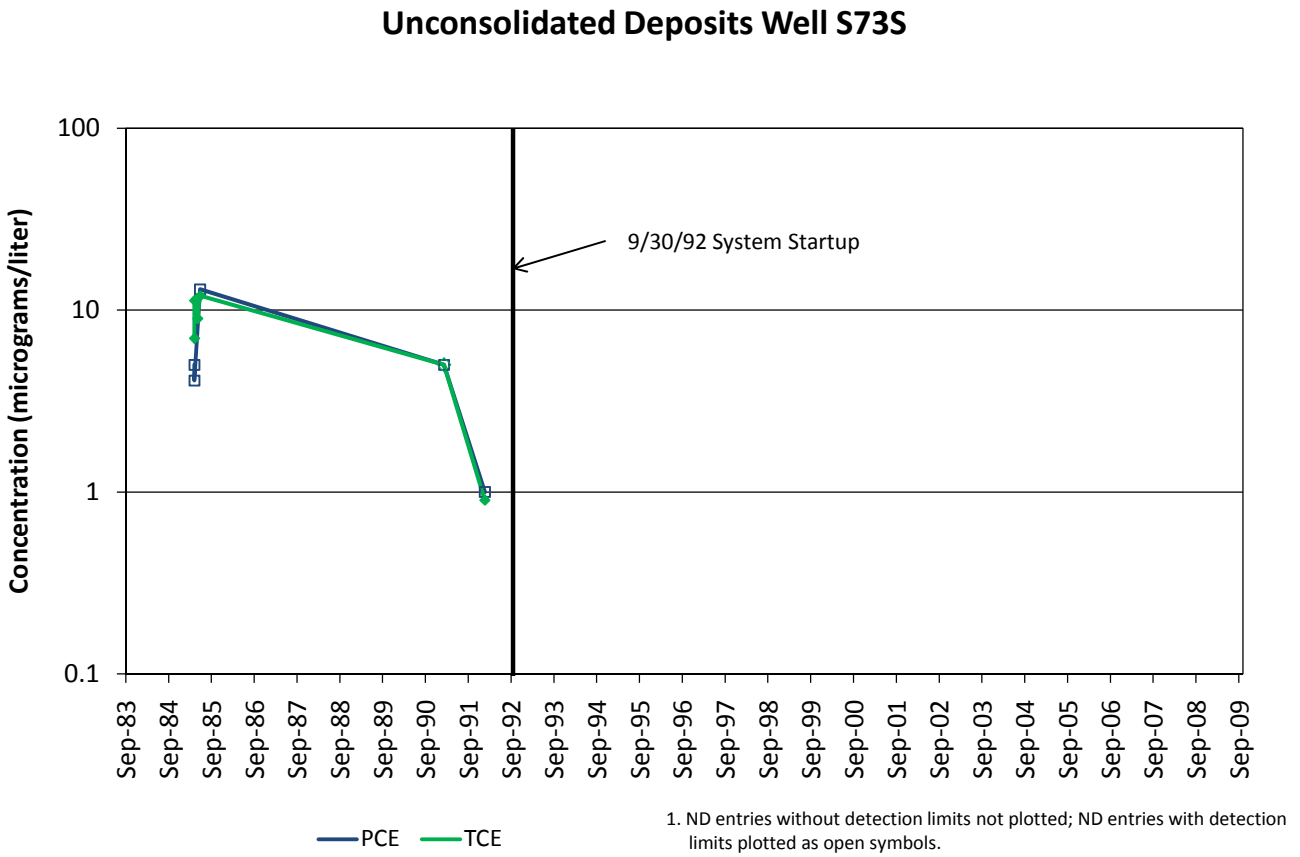
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



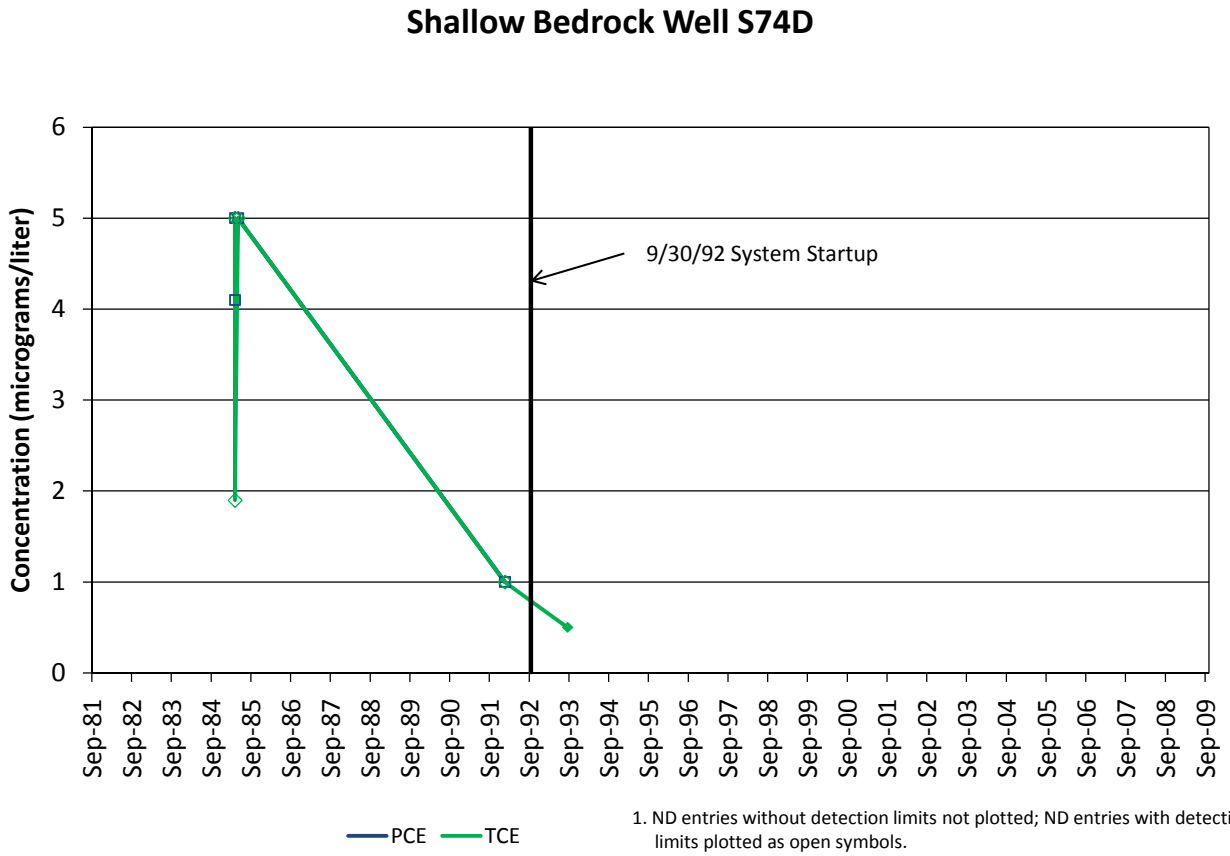
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



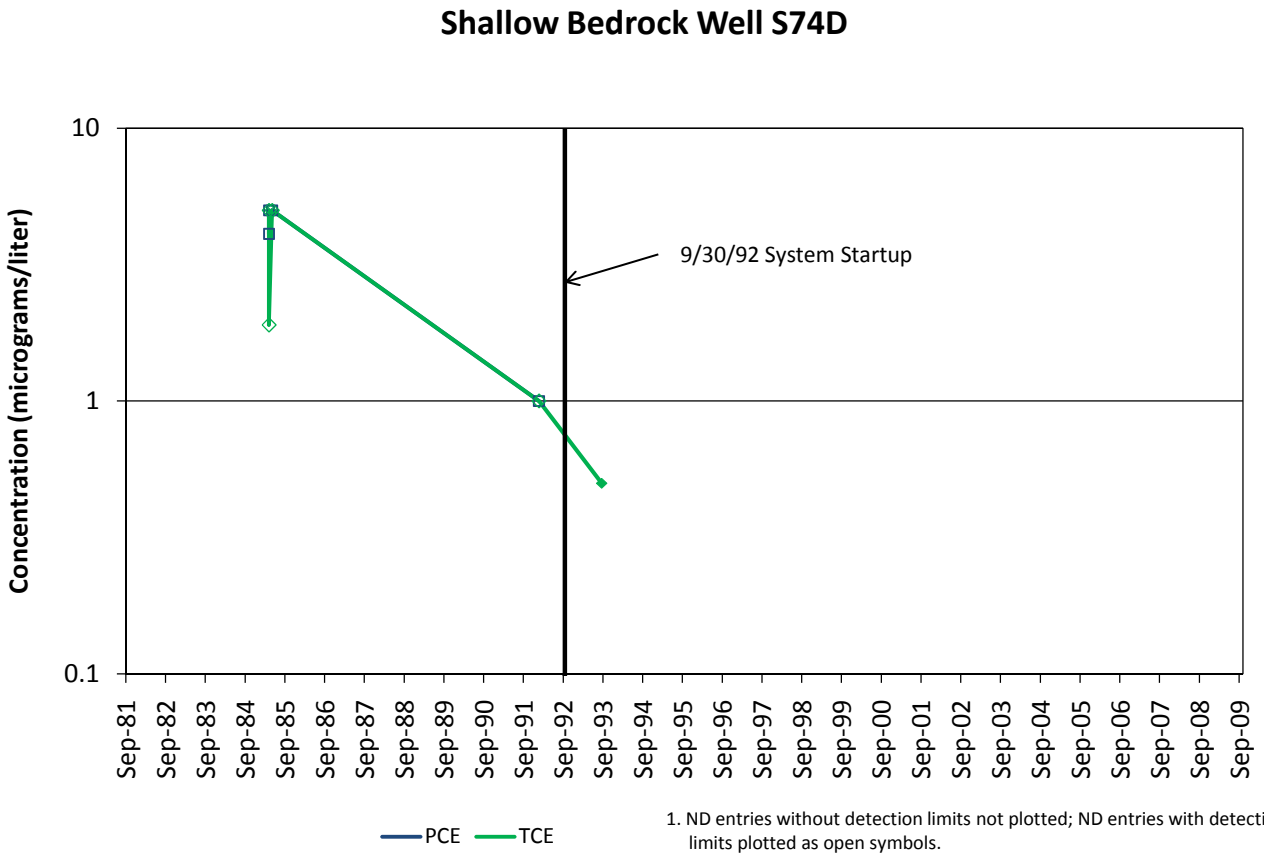
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



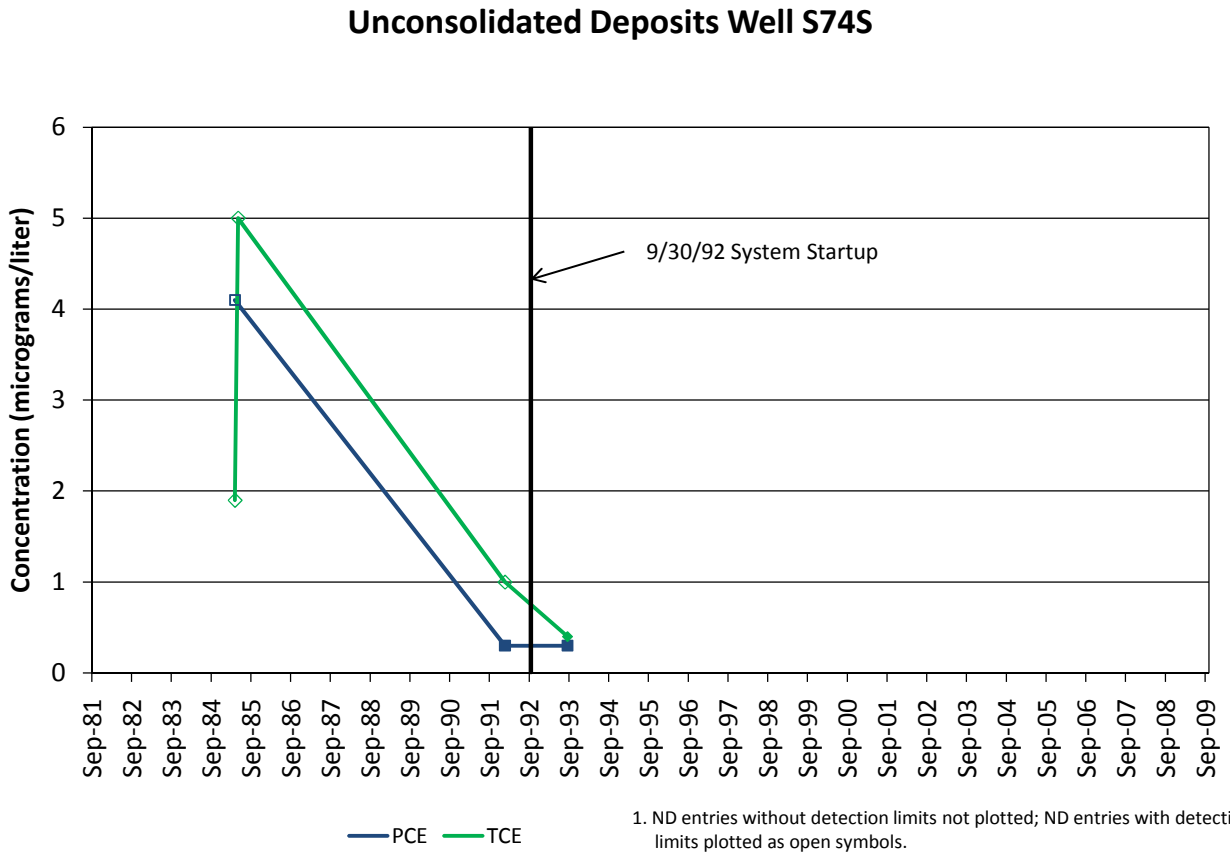
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



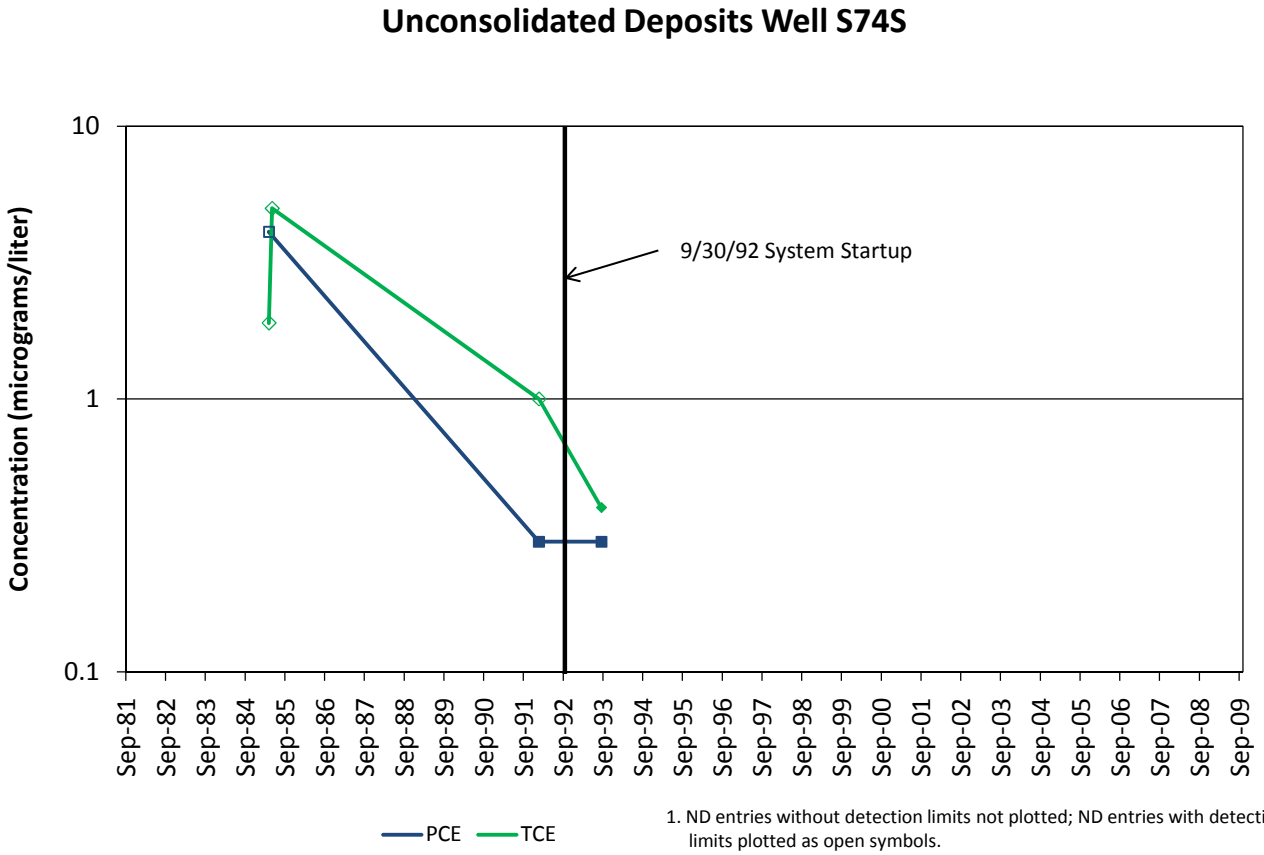
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



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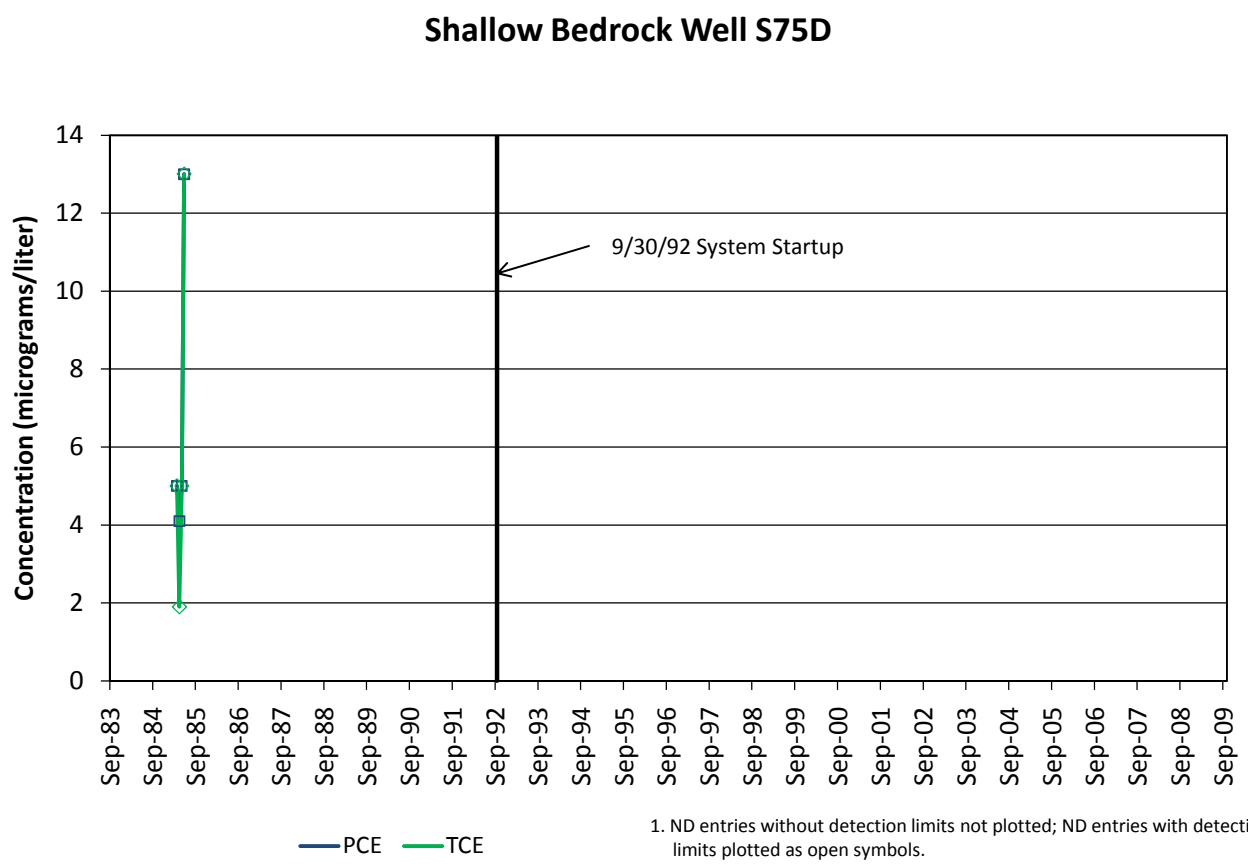
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
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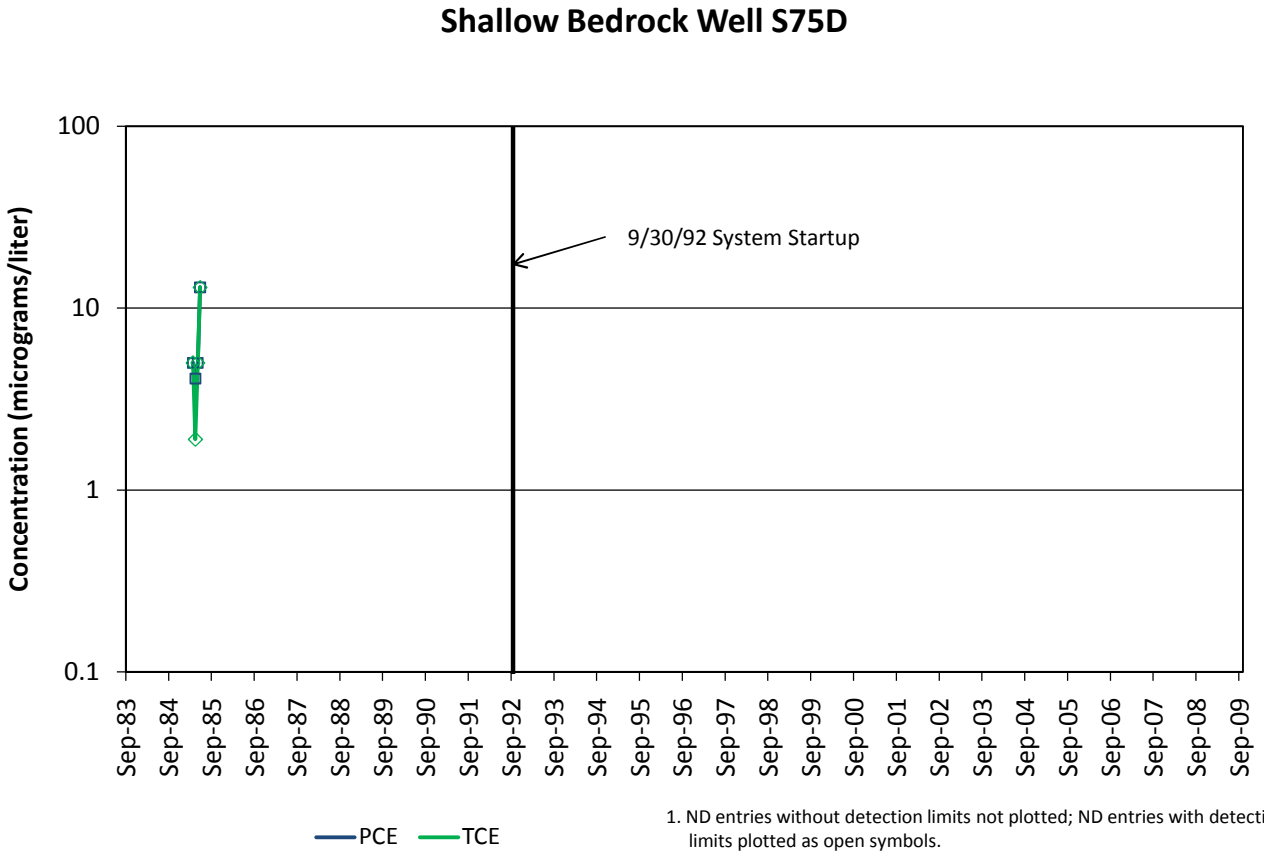

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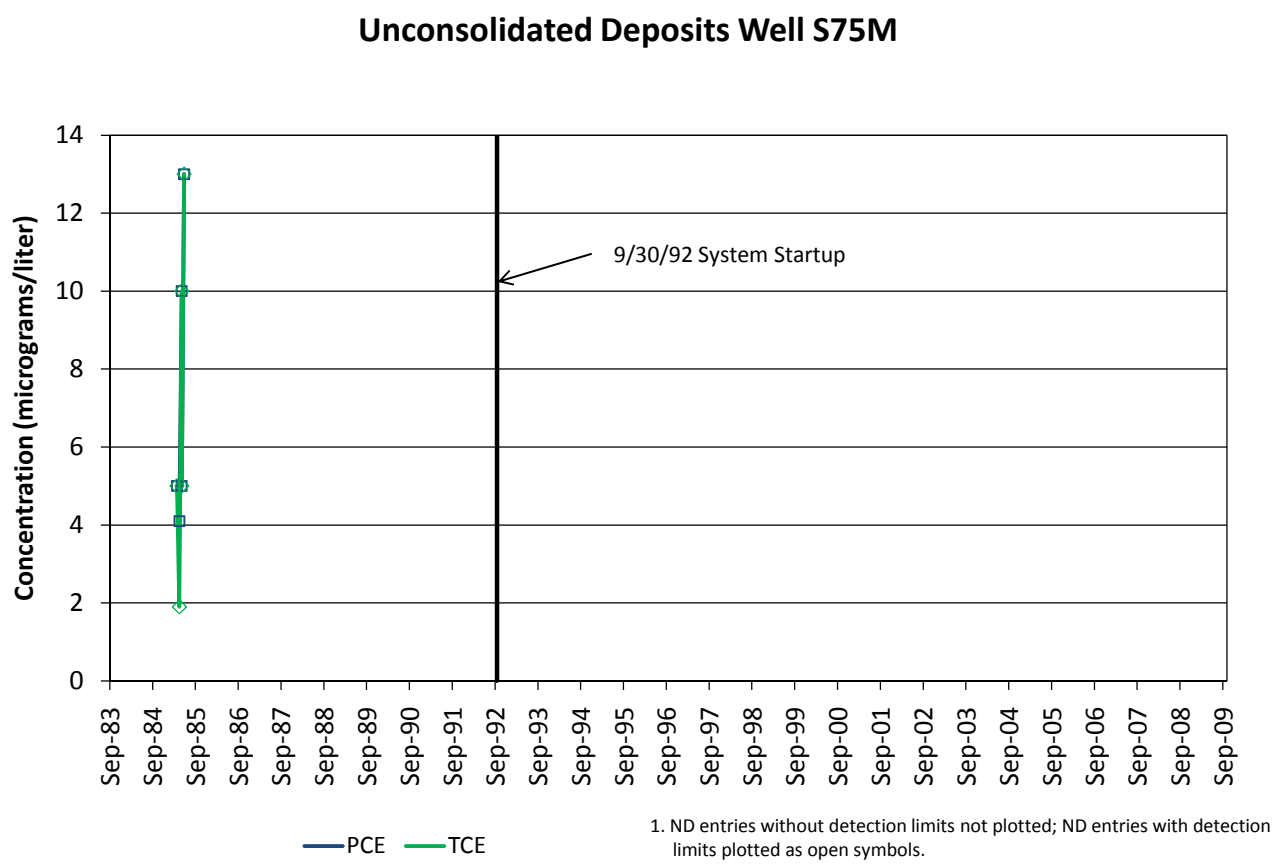

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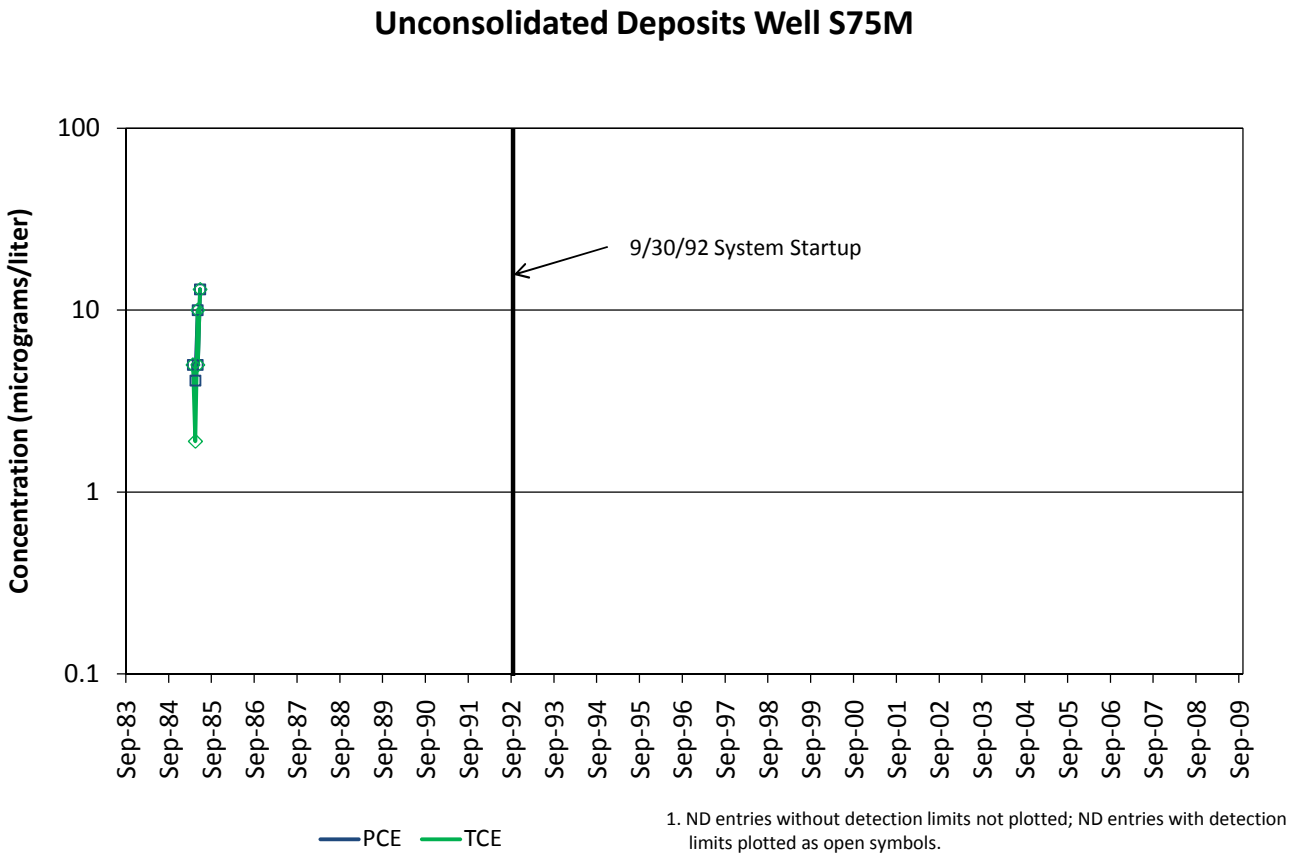
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



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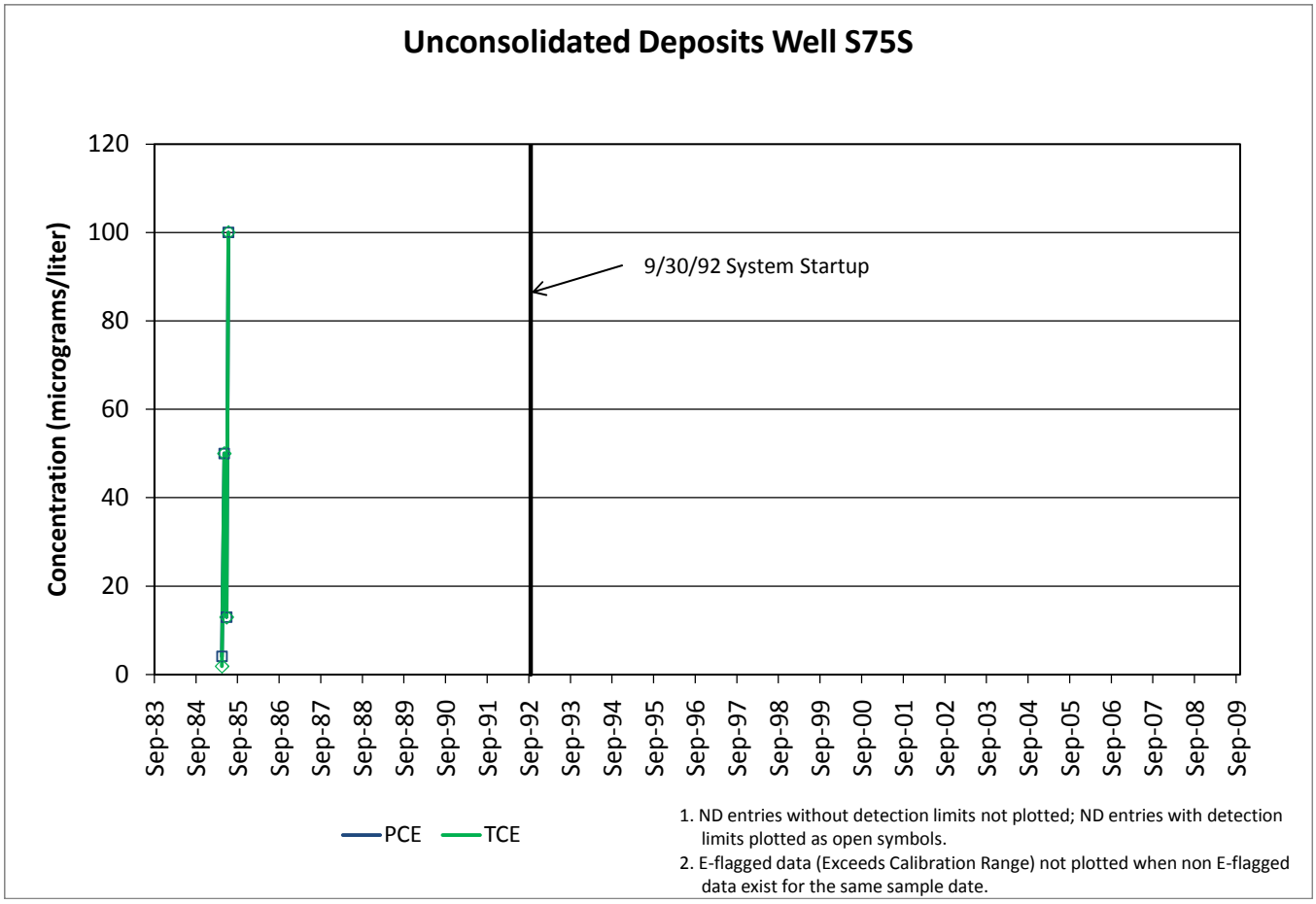
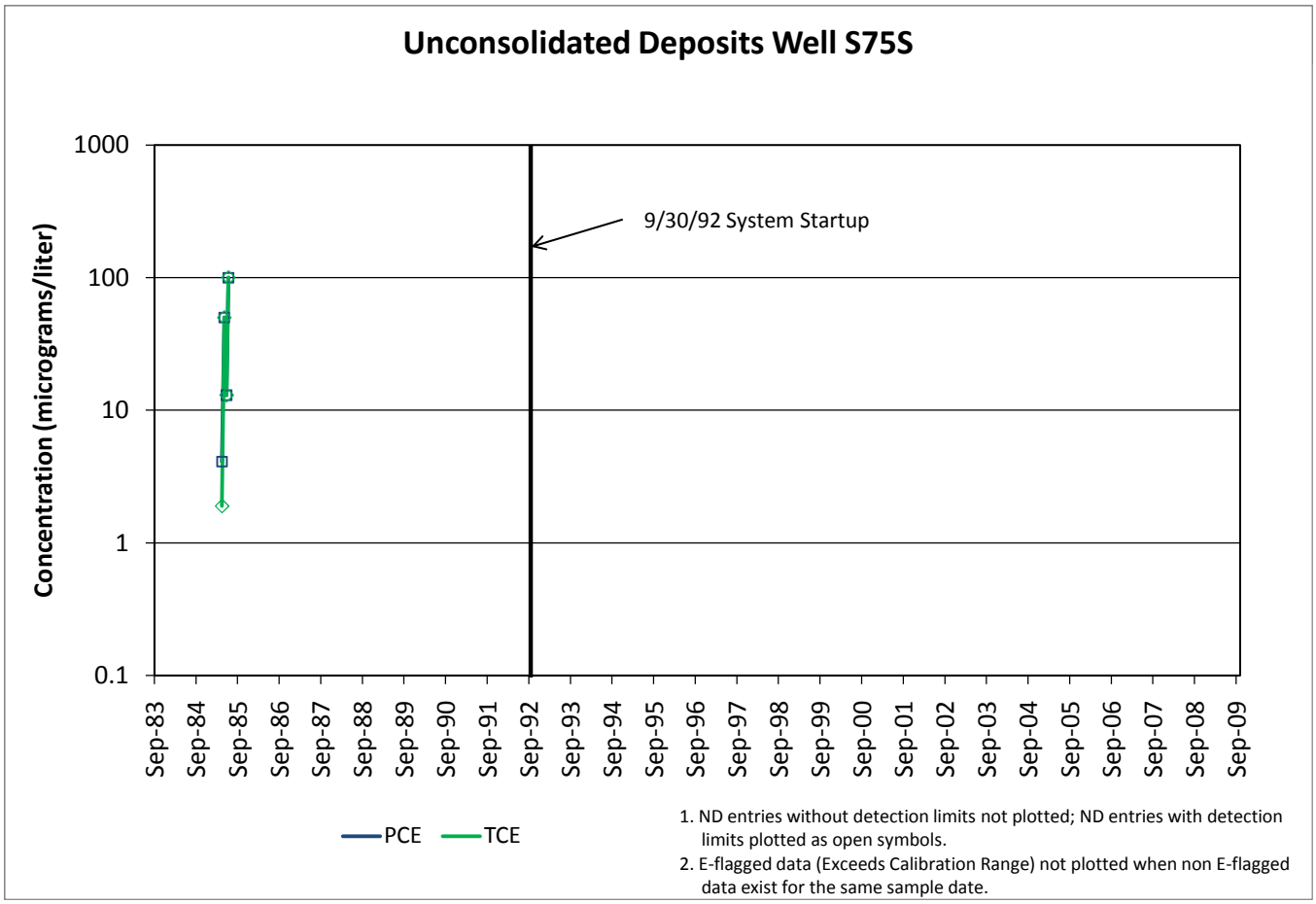
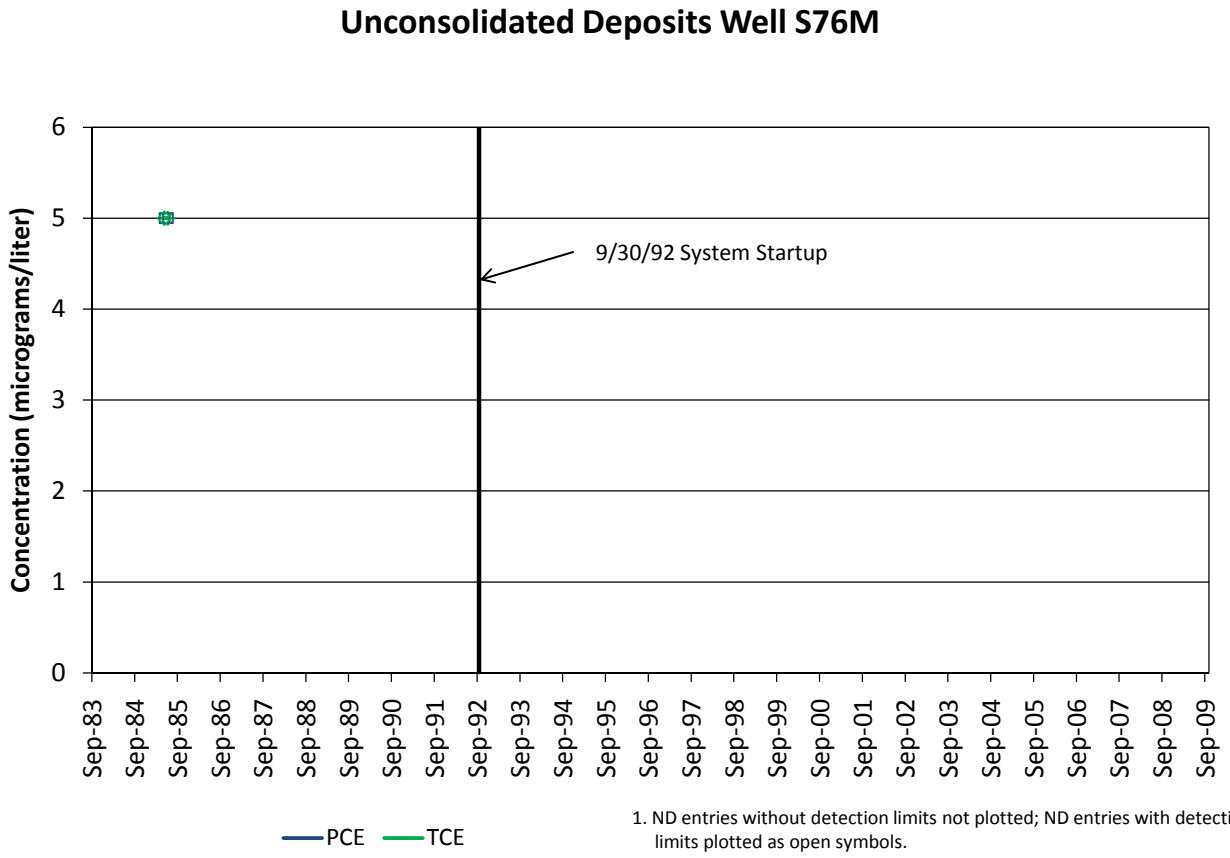
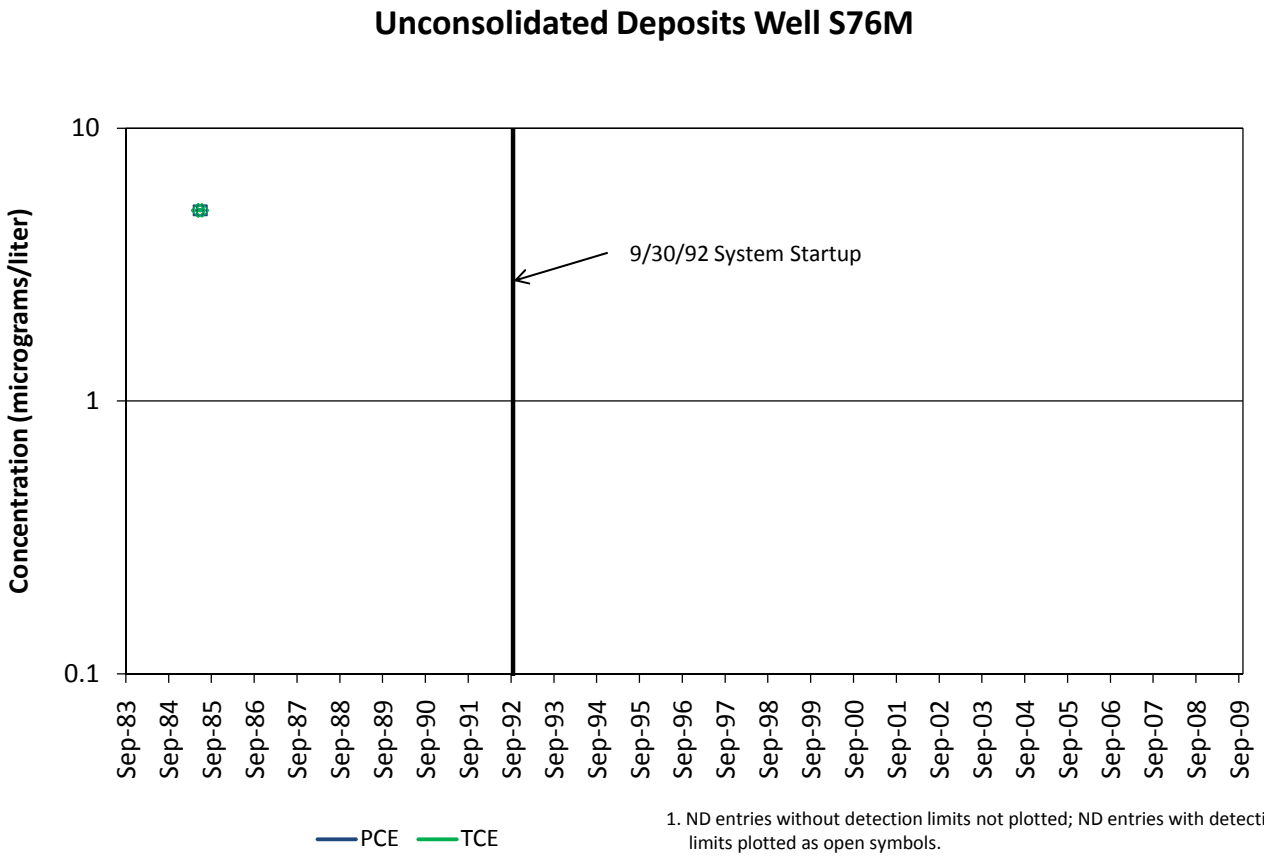

Unconsolidated Deposits Well S75S
Concentration (micrograms/liter)
120
100
80
60
40
20
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

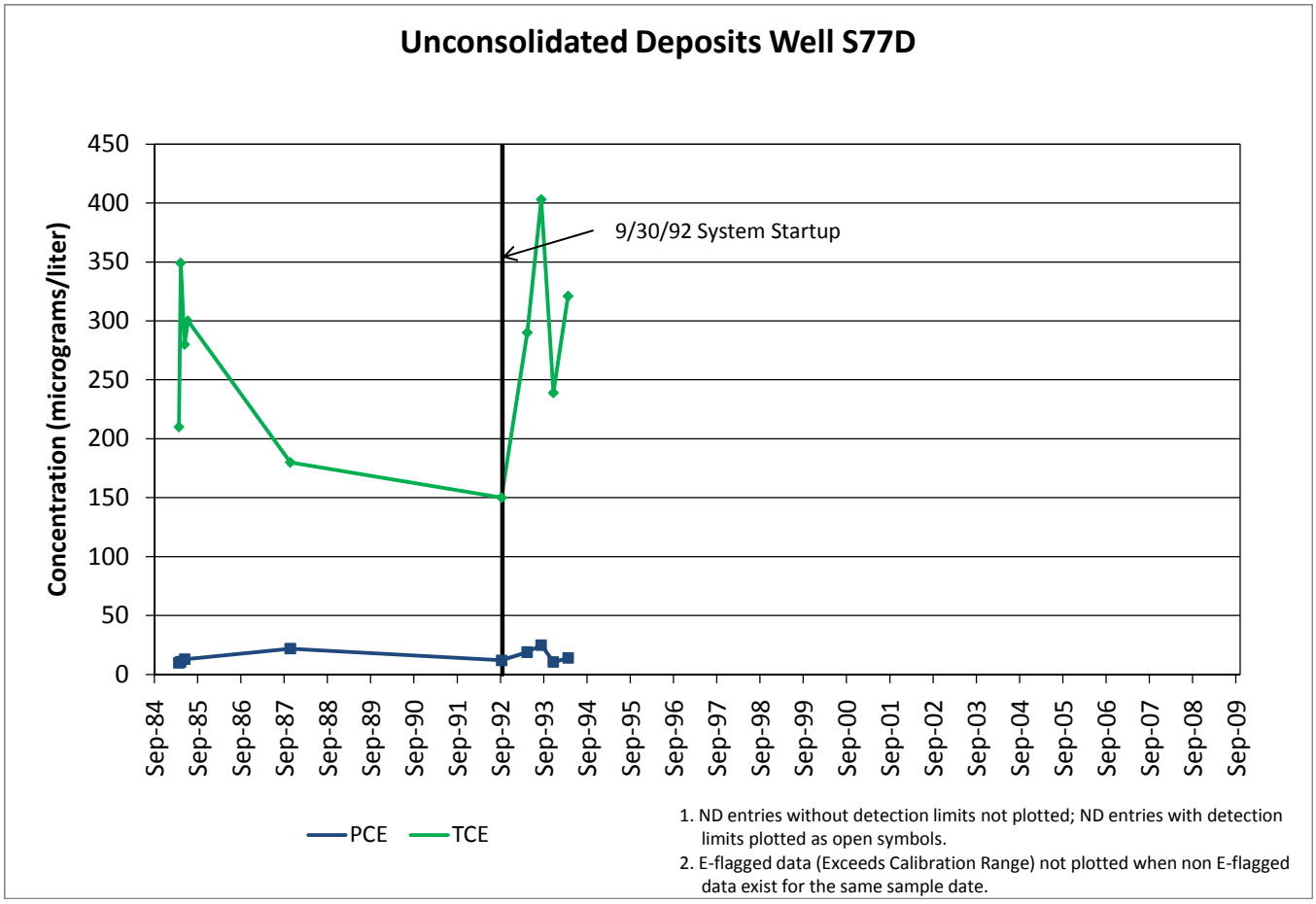

Unconsolidated Deposits Well S75S
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

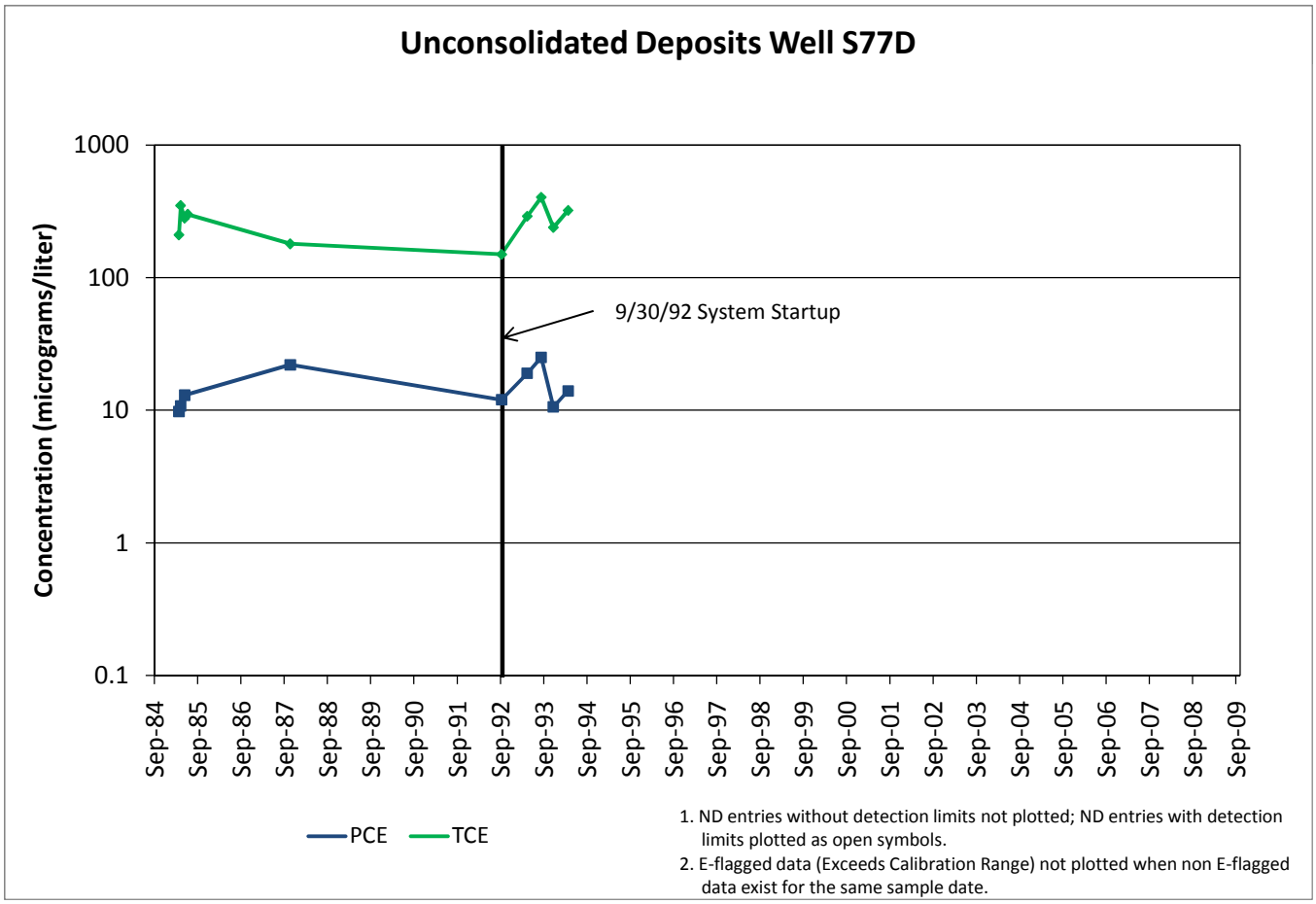


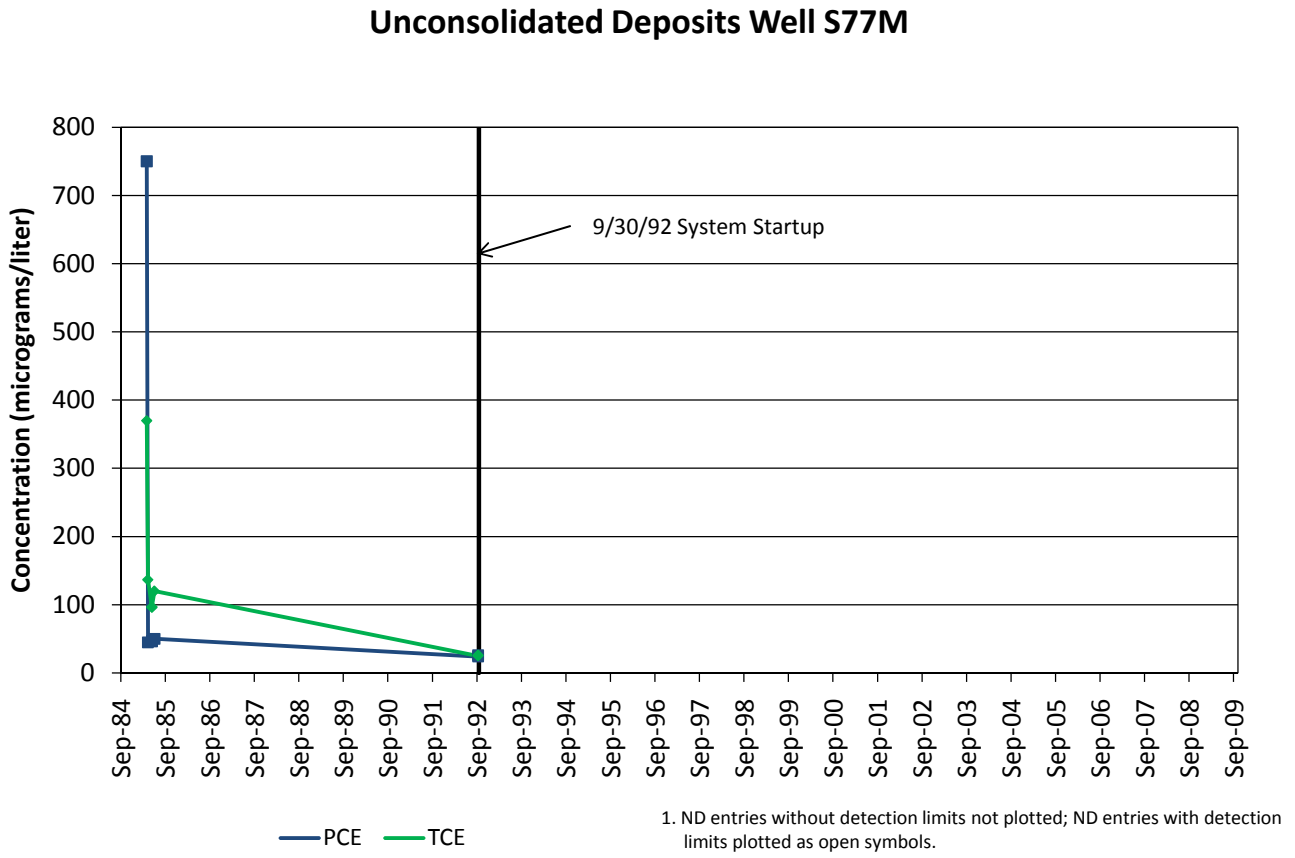
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



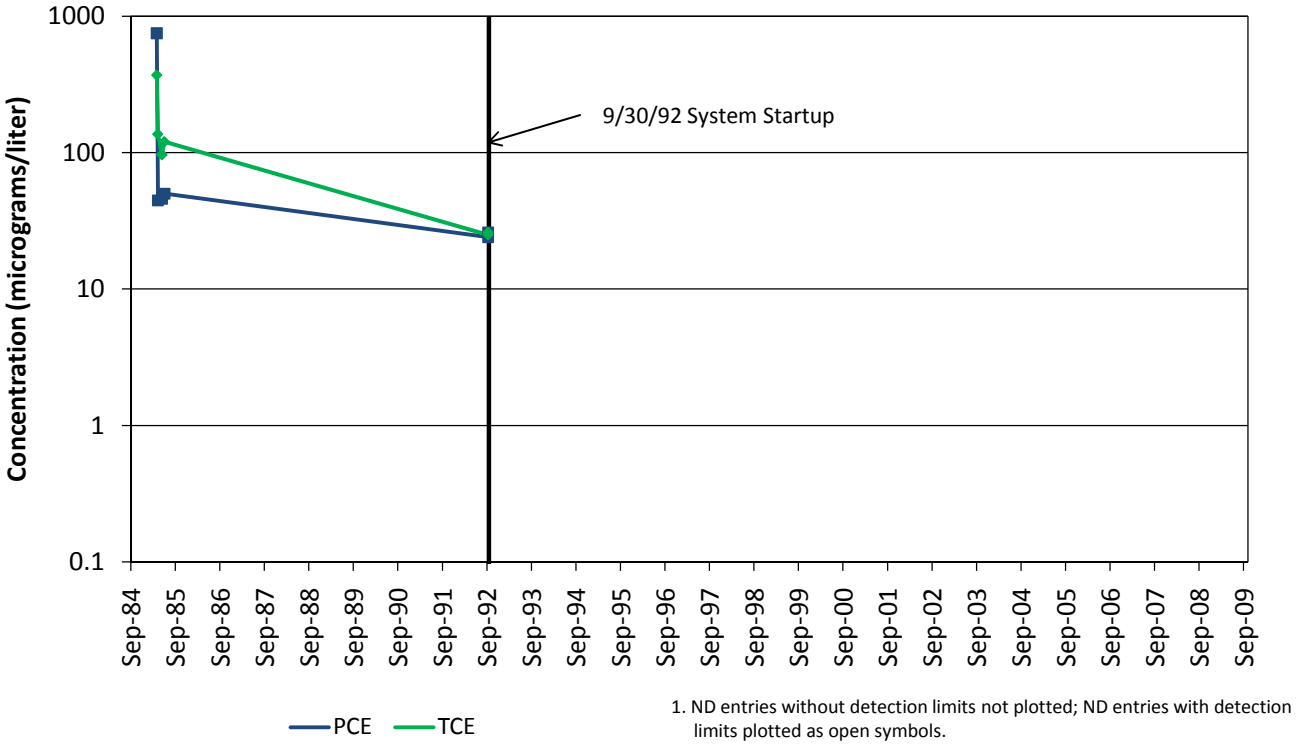
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S77D
Concentration (micrograms/liter)
450
400
350
300
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

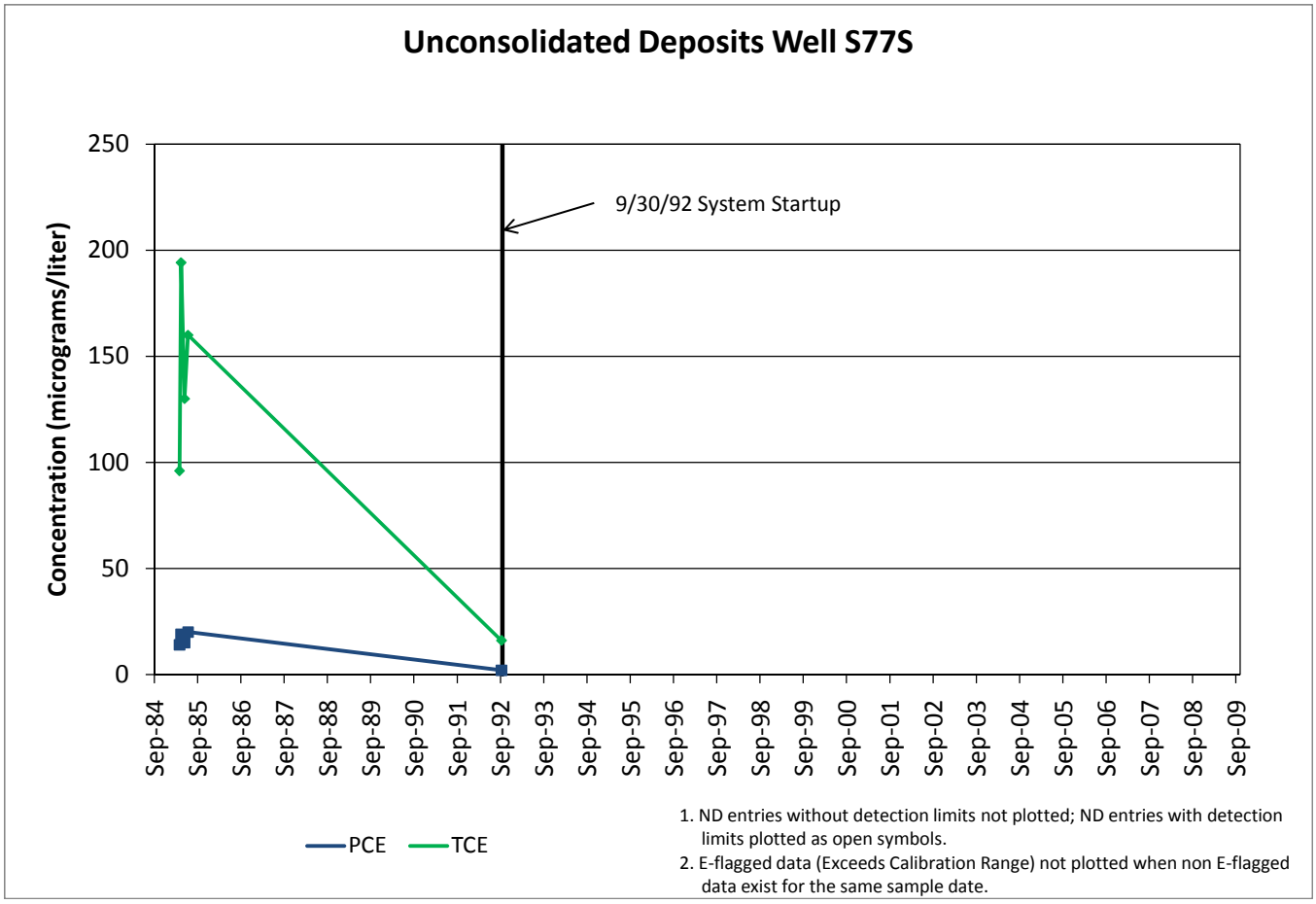

Unconsolidated Deposits Well S77D
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

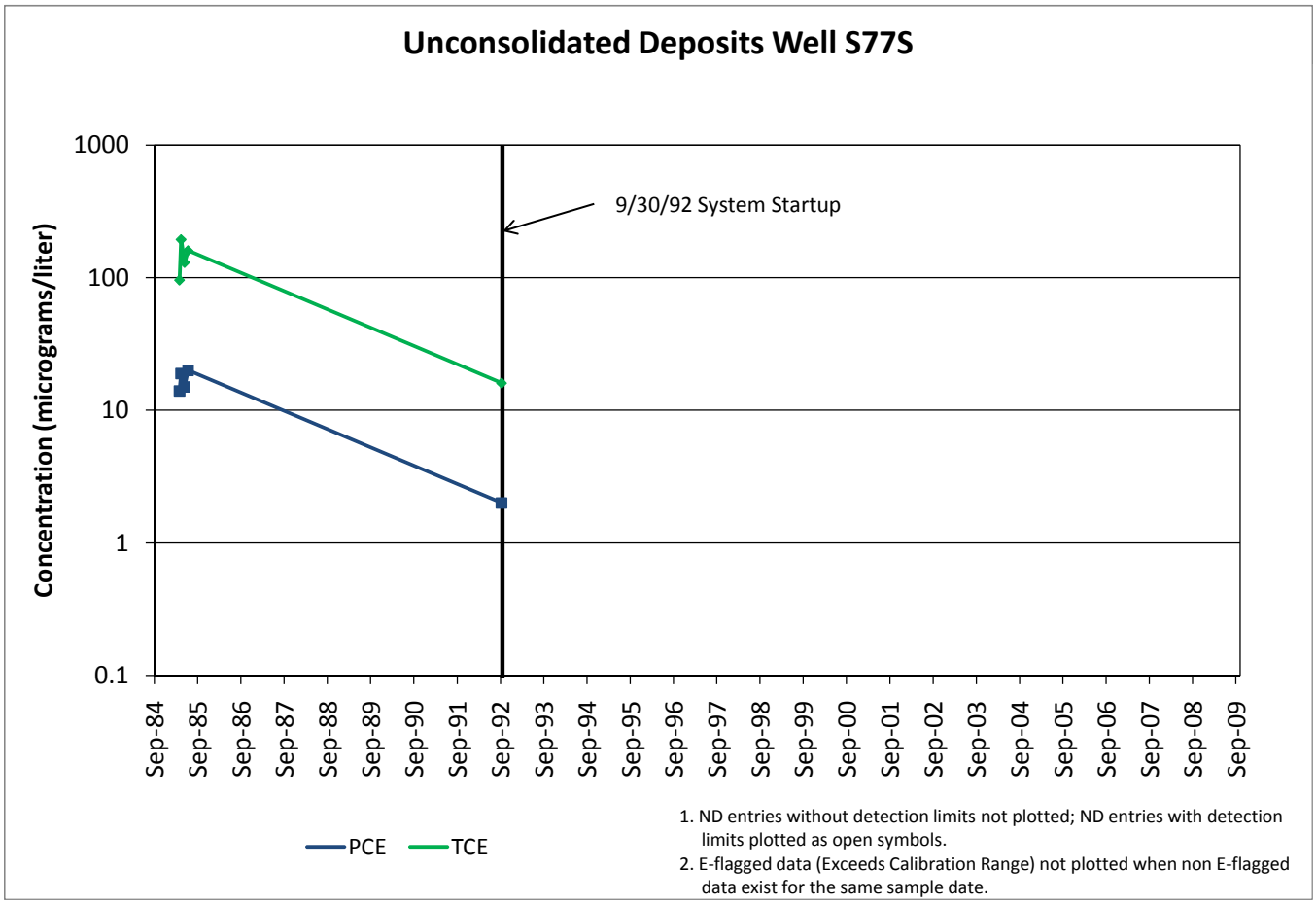


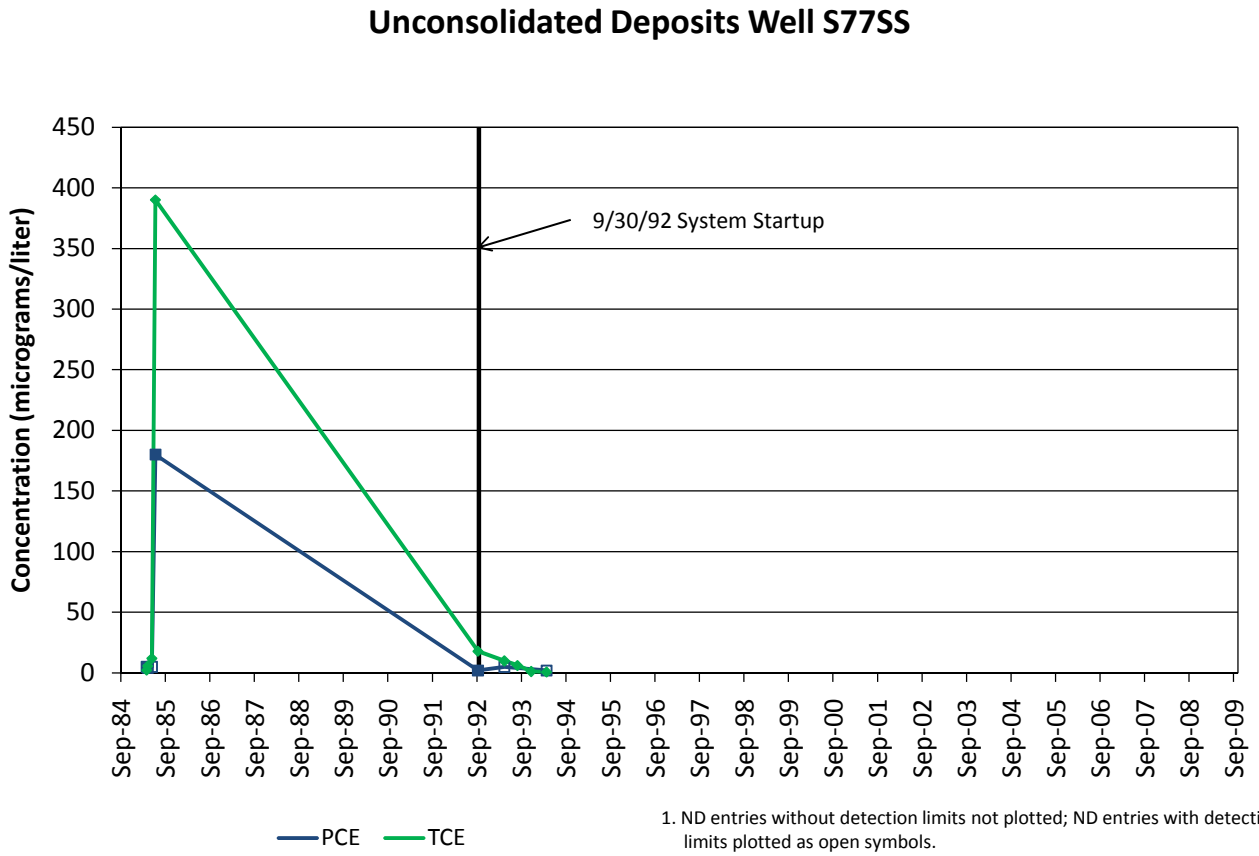
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



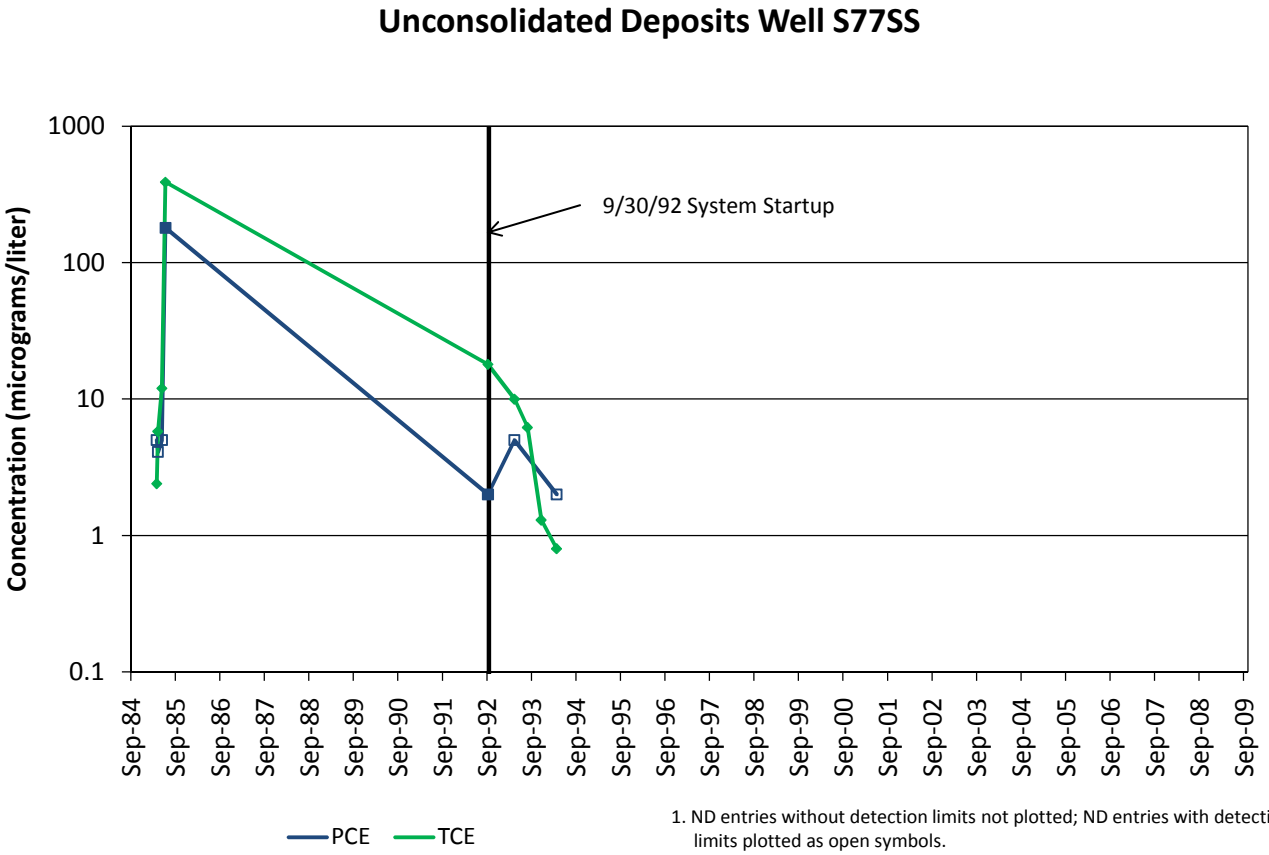
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S77S
Concentration (micrograms/liter)
250
200
150
100
50
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

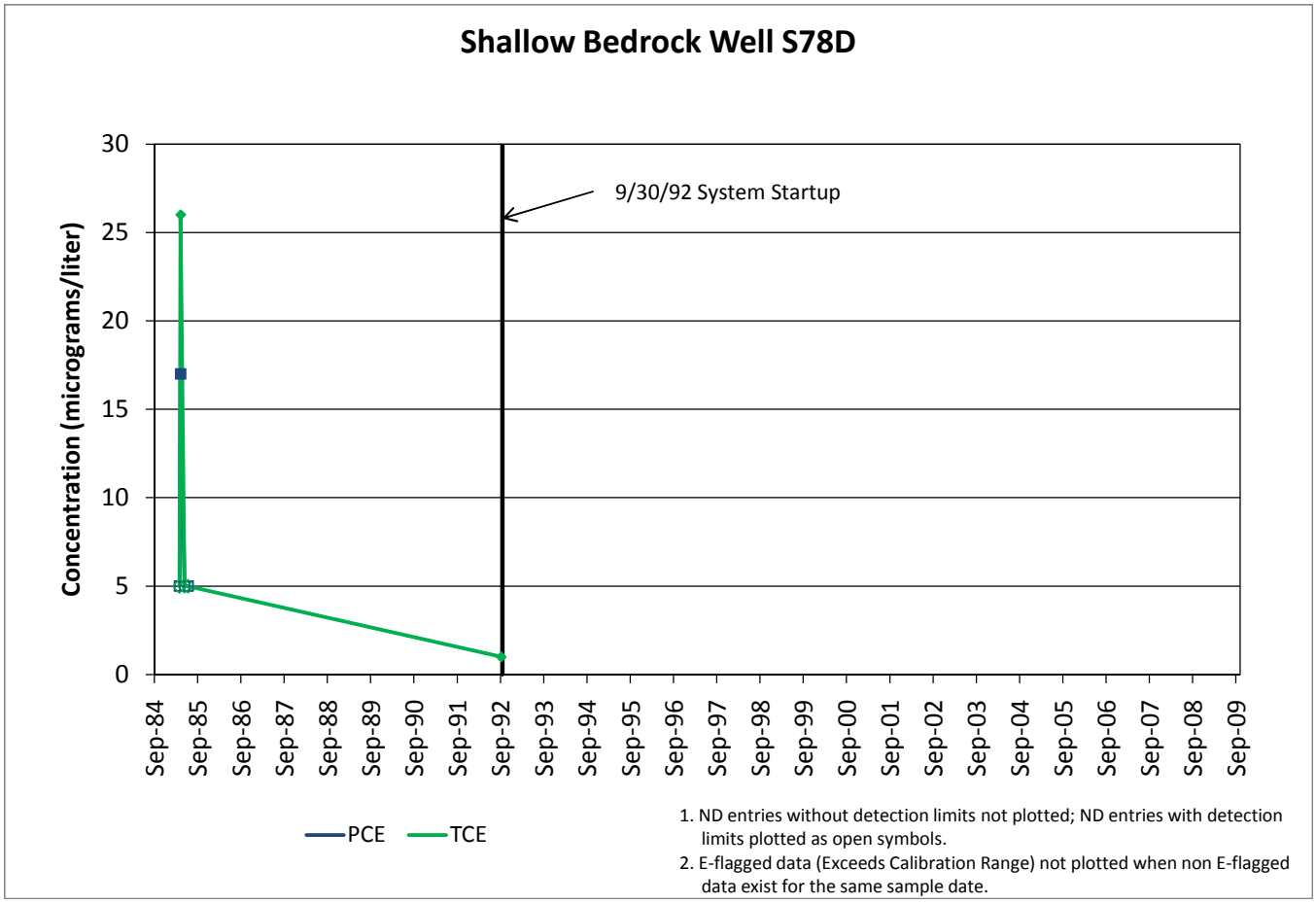

Unconsolidated Deposits Well S77S
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

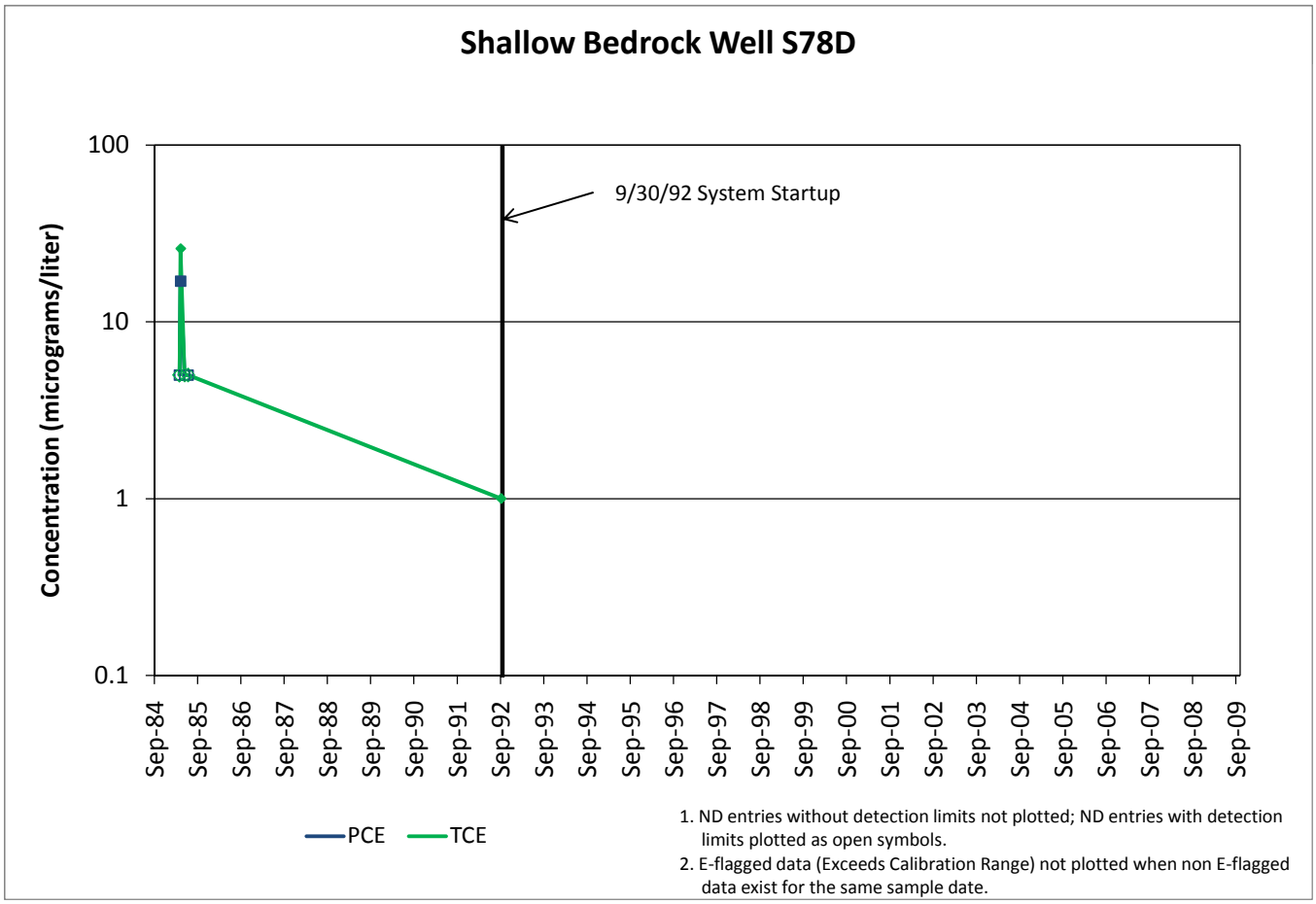


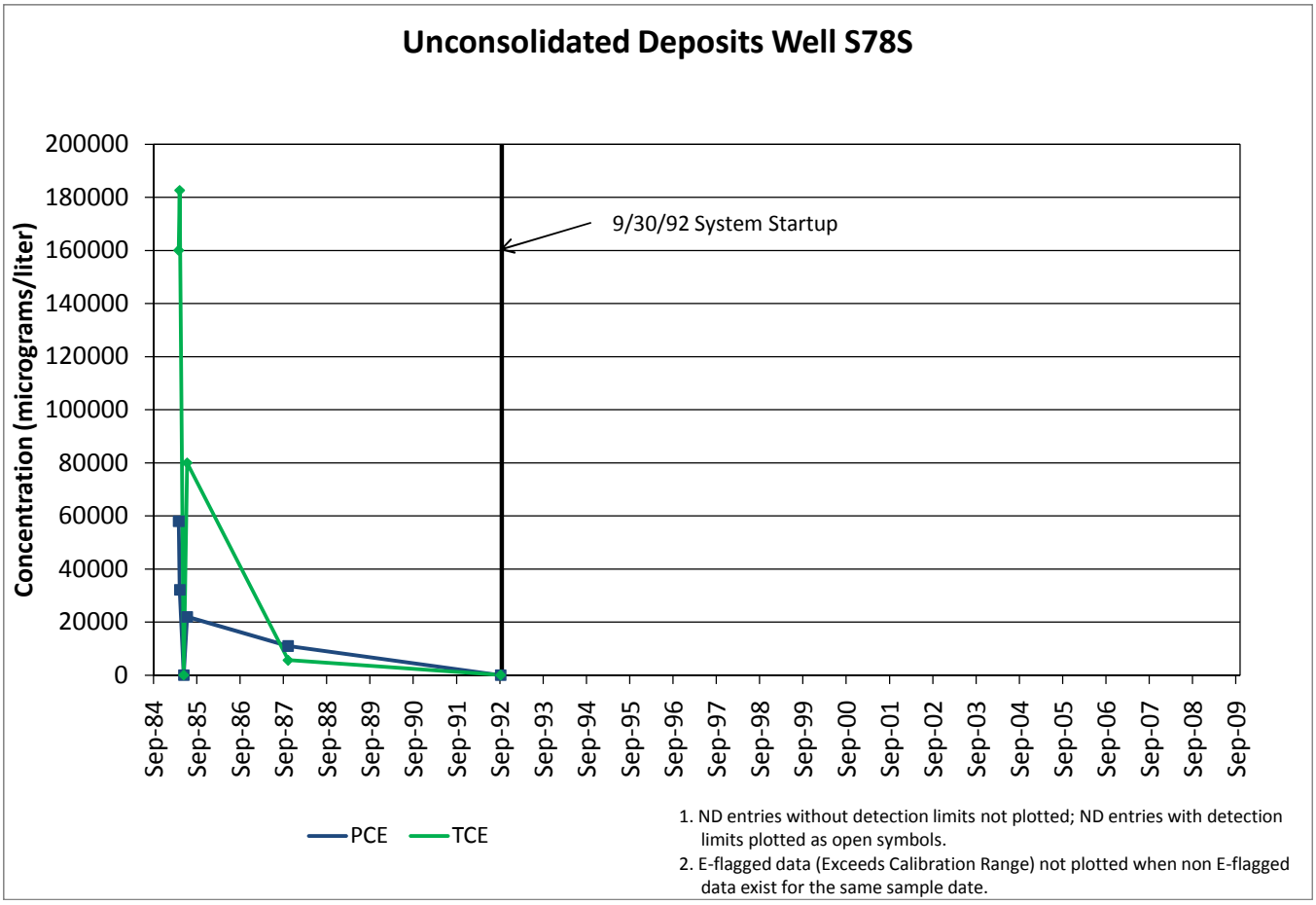
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

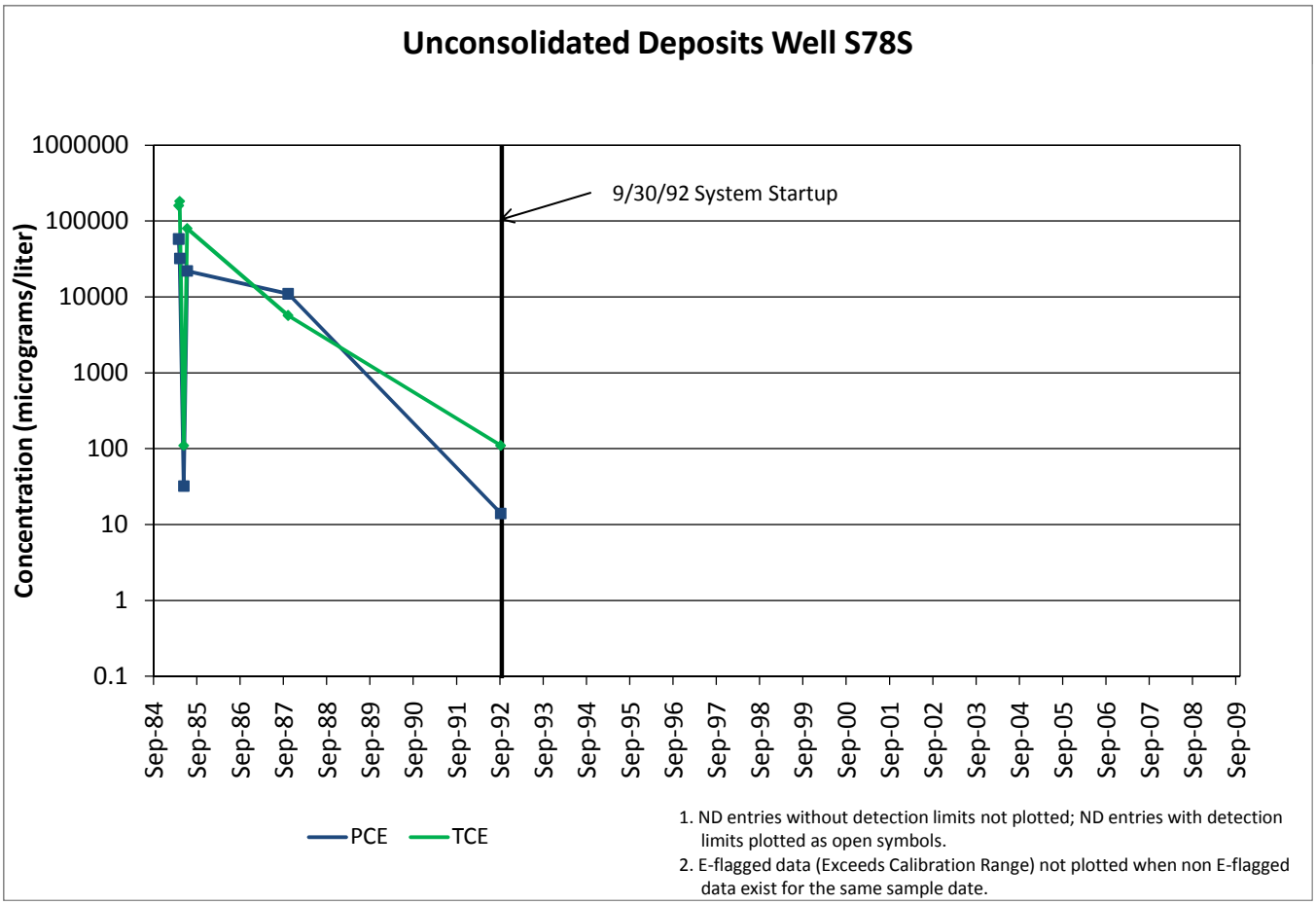


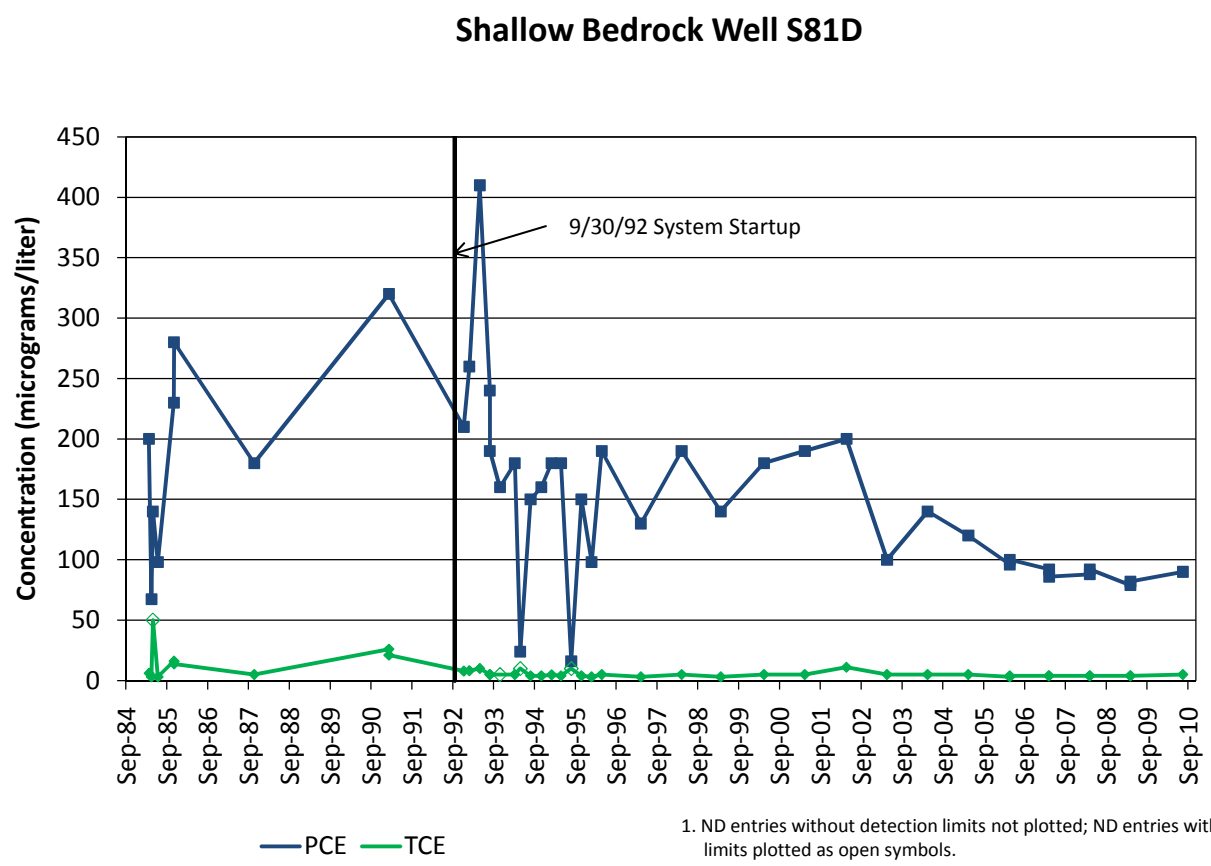
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well S78D
Concentration (micrograms/liter)
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

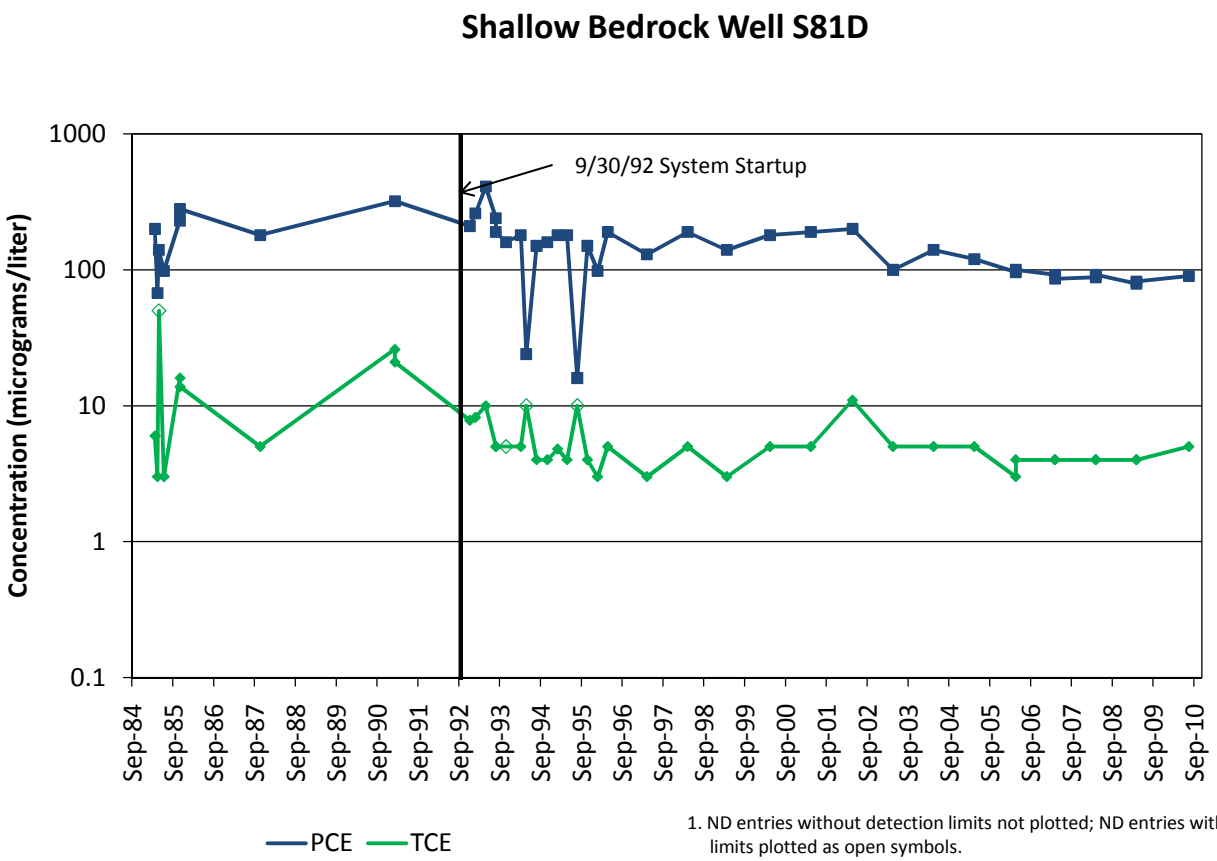

Shallow Bedrock Well S78D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S78S
Concentration (micrograms/liter)
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

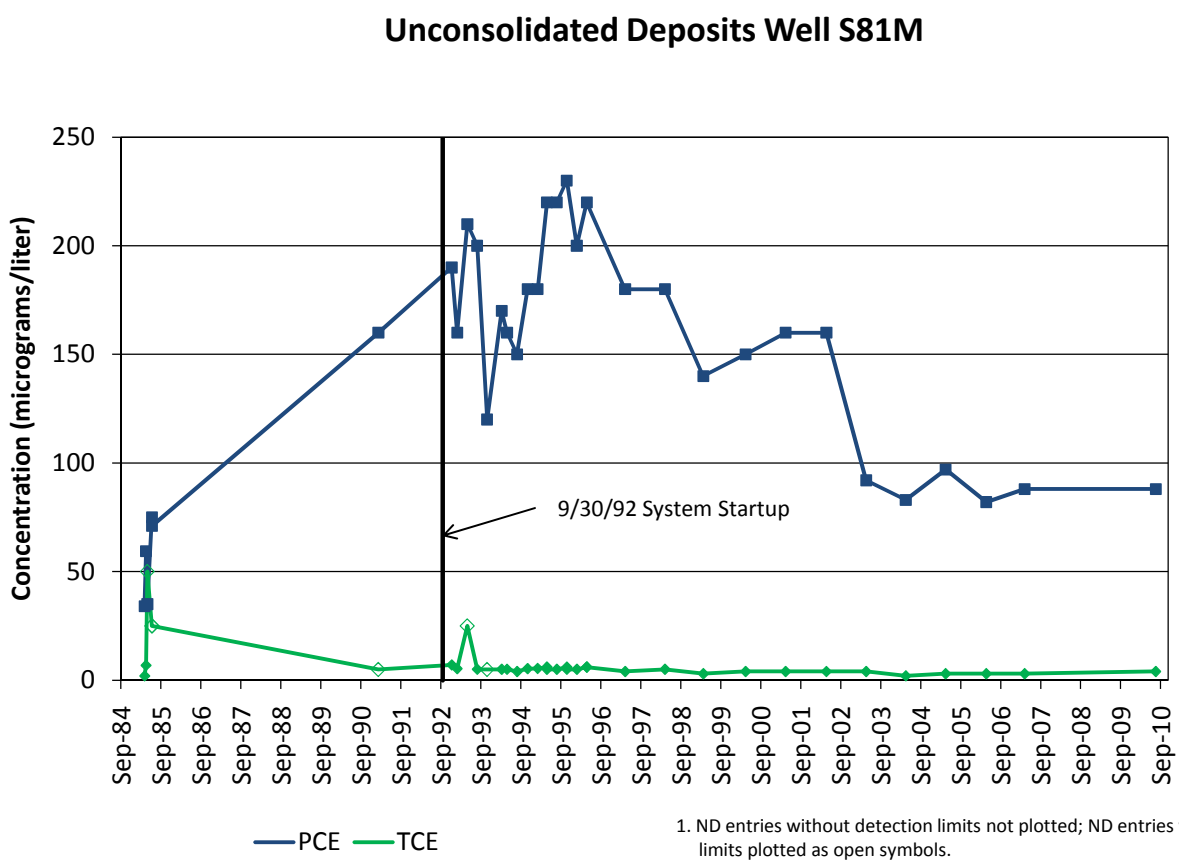

Unconsolidated Deposits Well S78S
Concentration (micrograms/liter)
1000000
100000
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



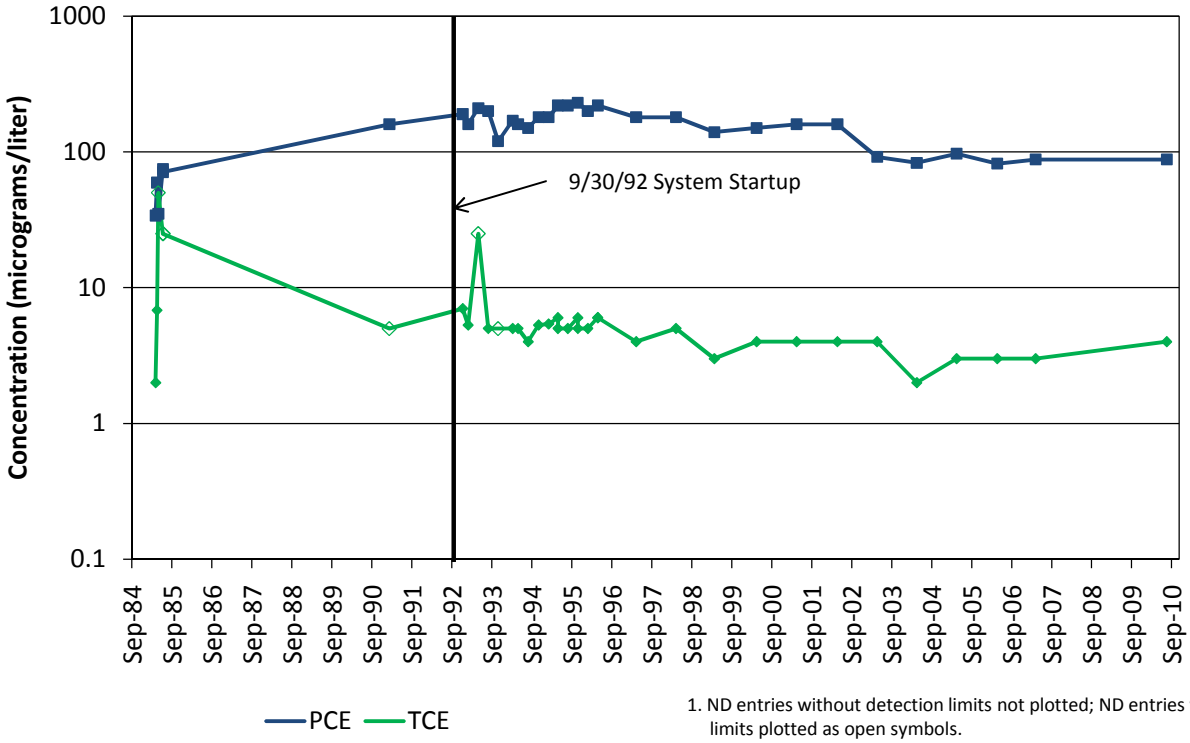
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



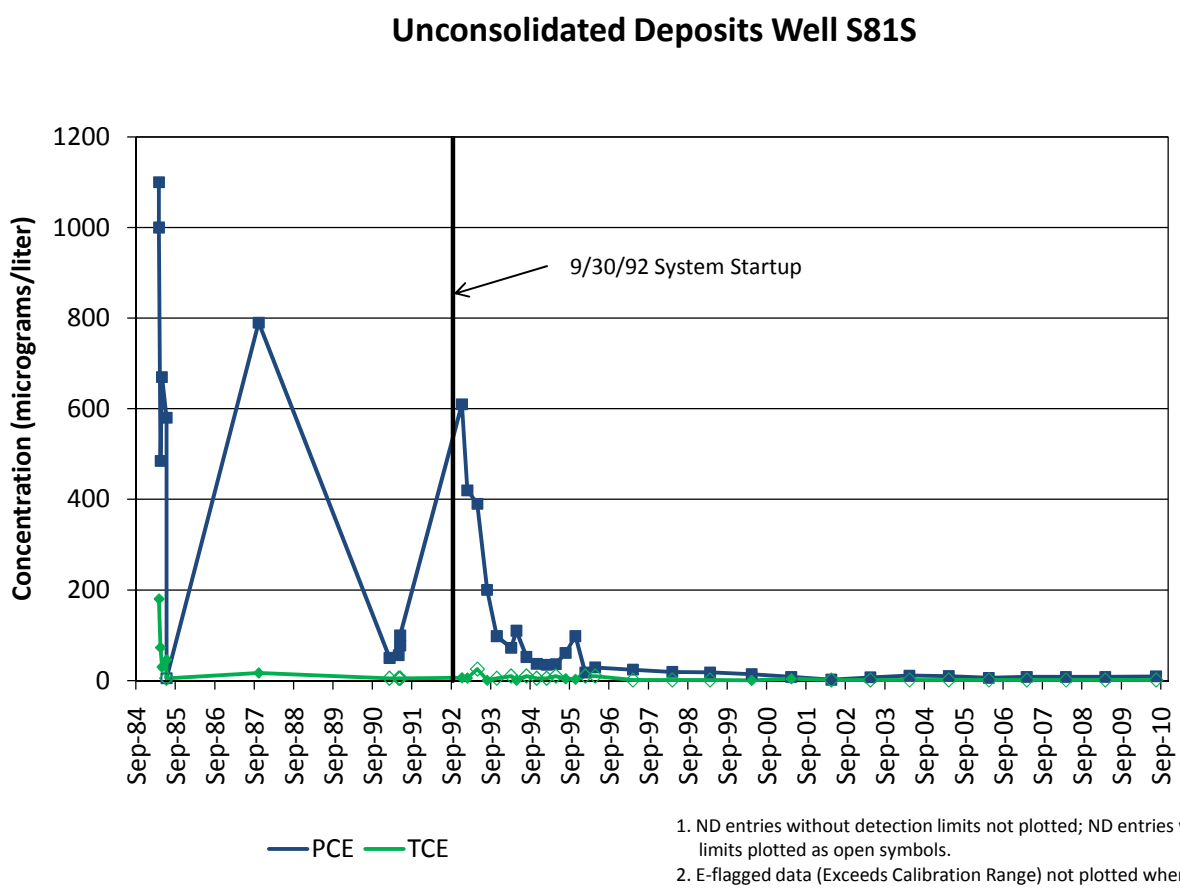
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



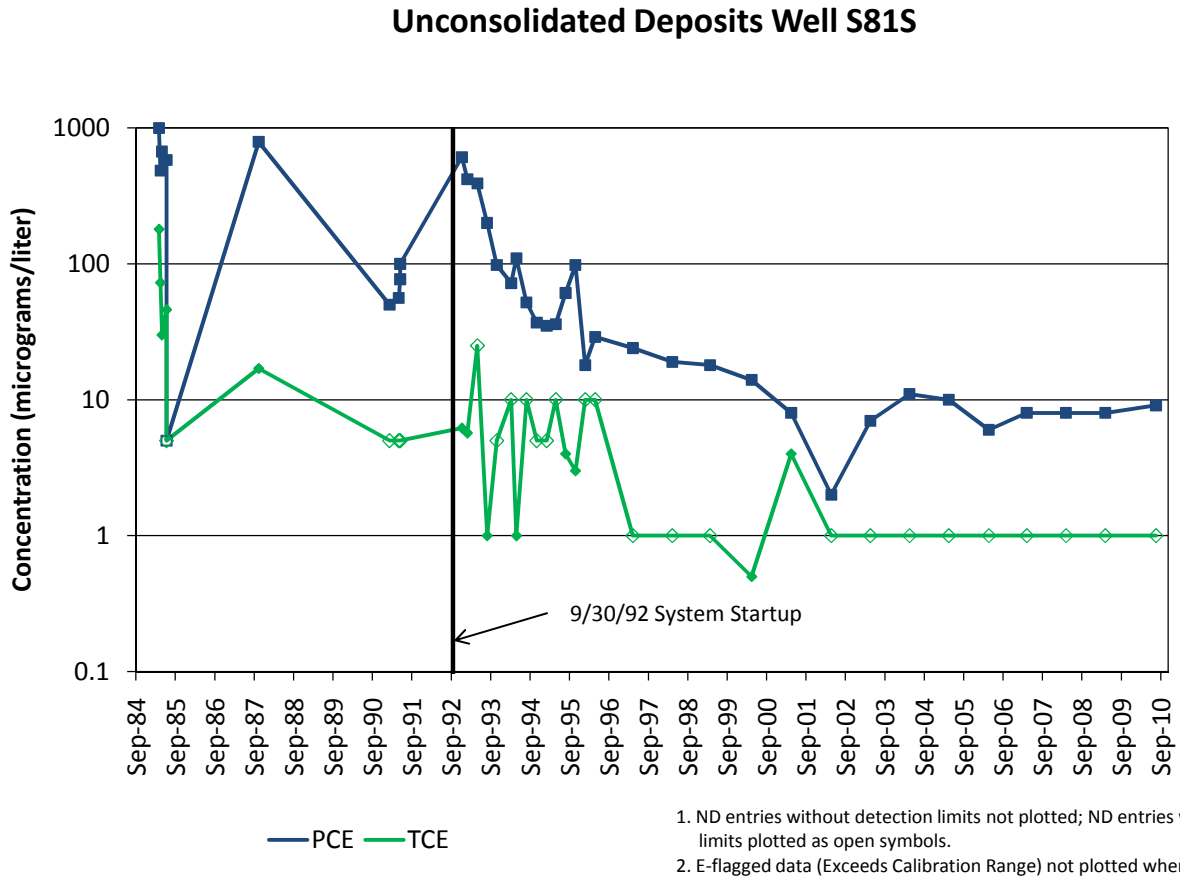
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



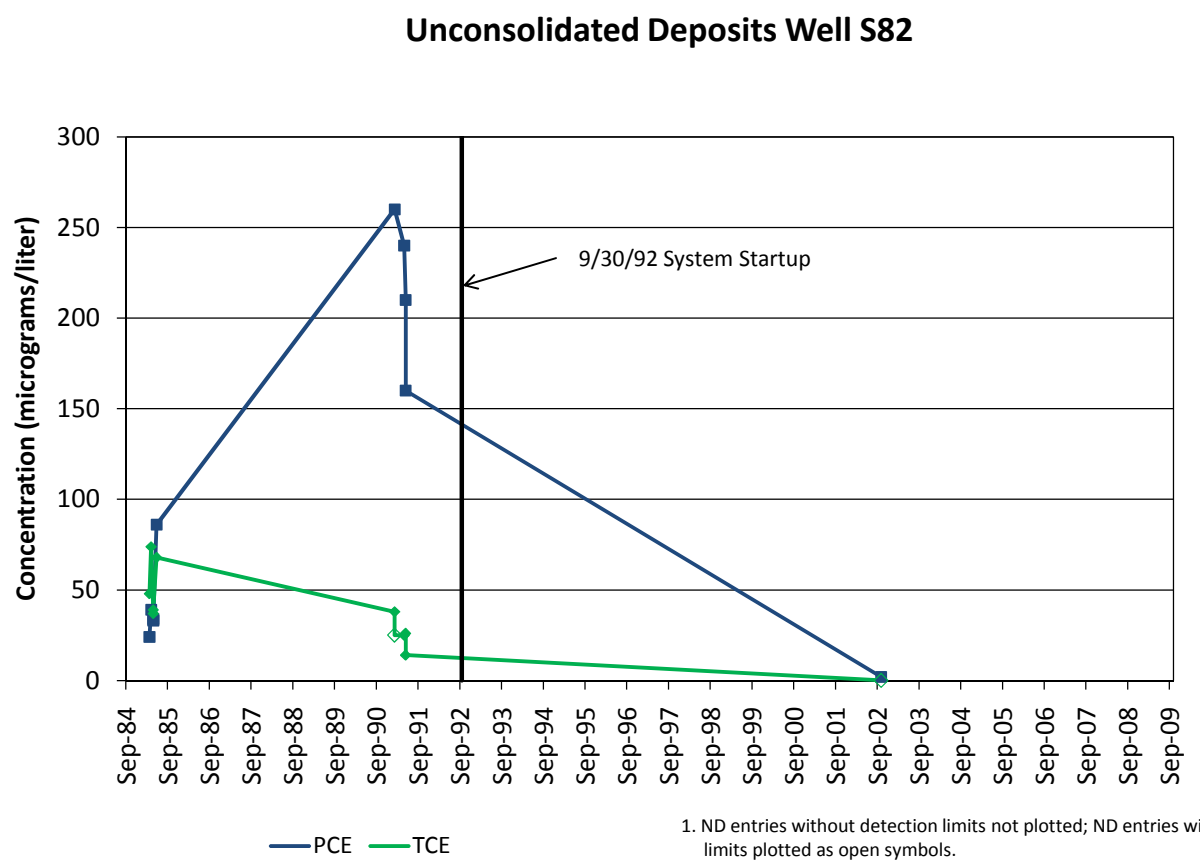
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



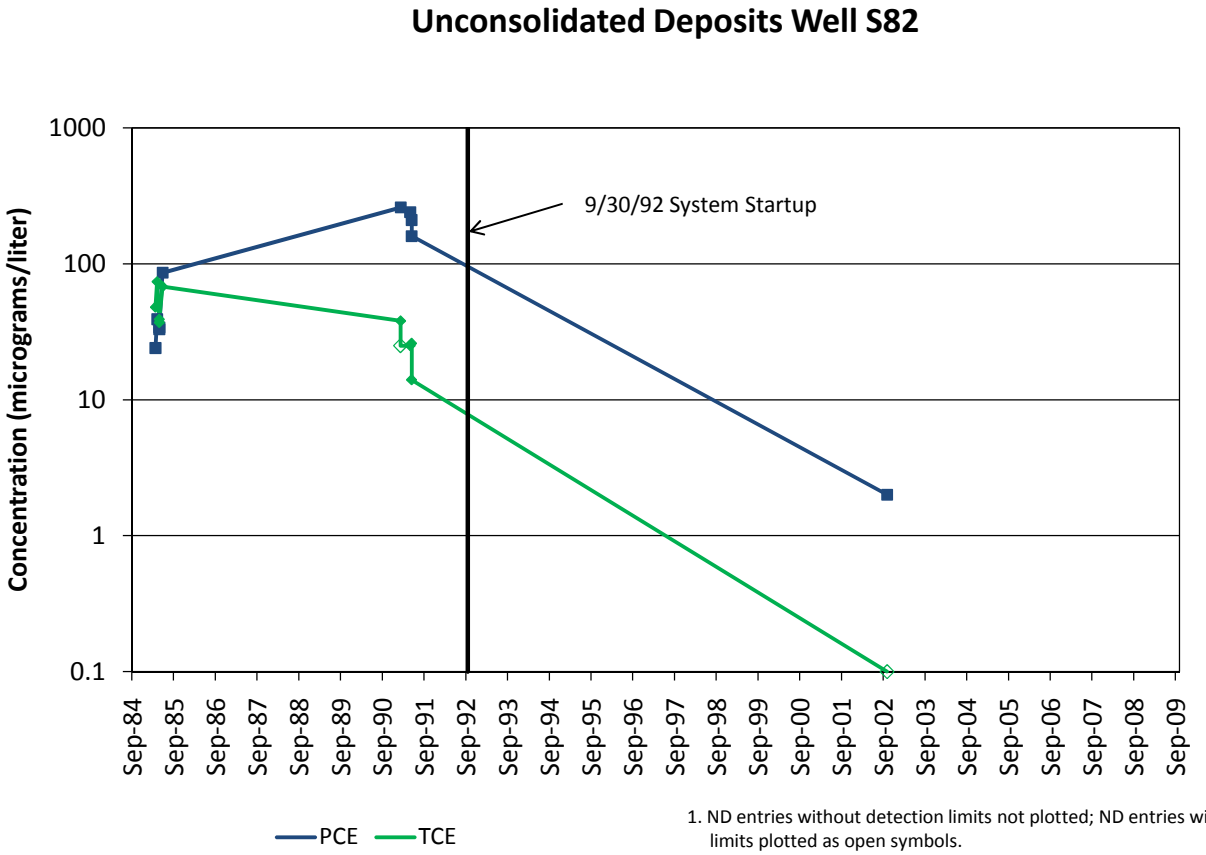
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



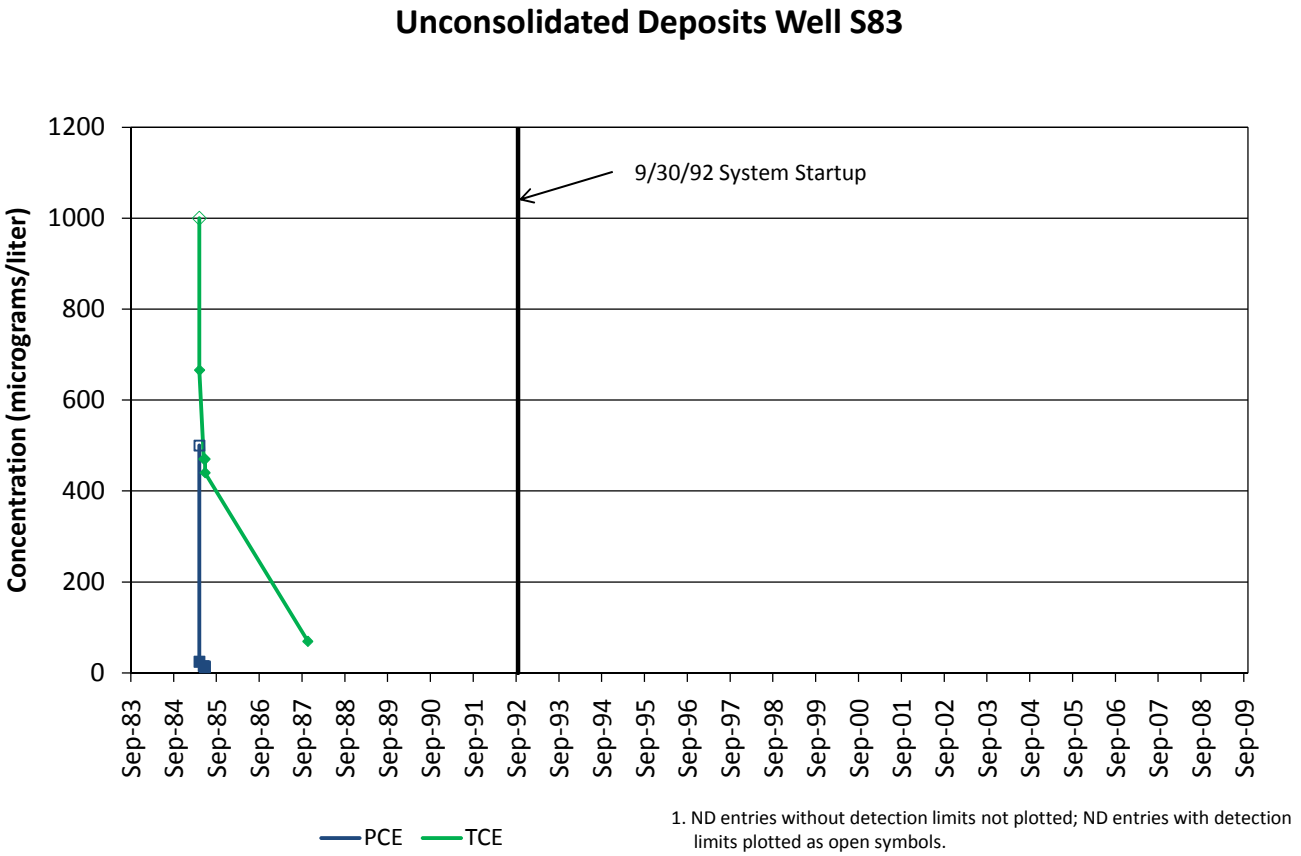
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



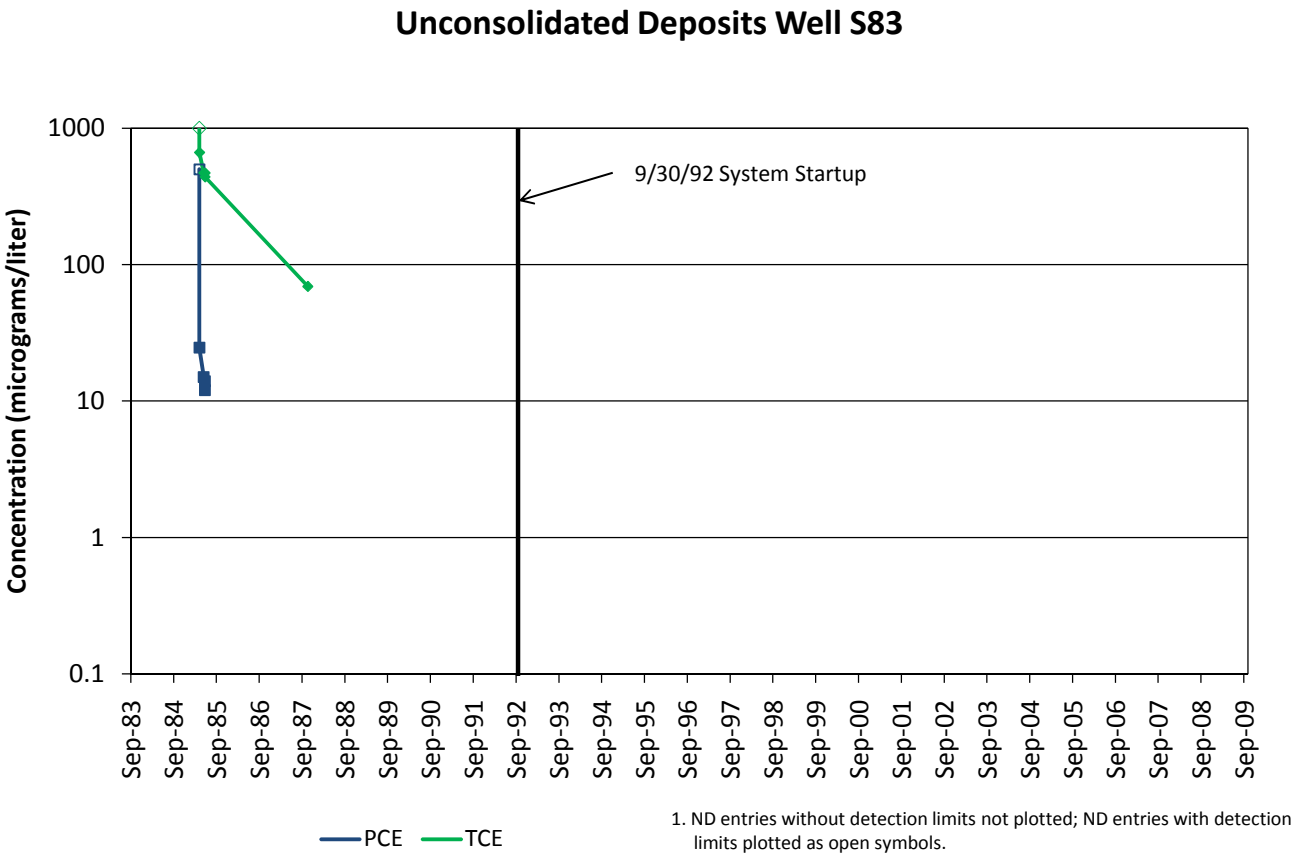
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



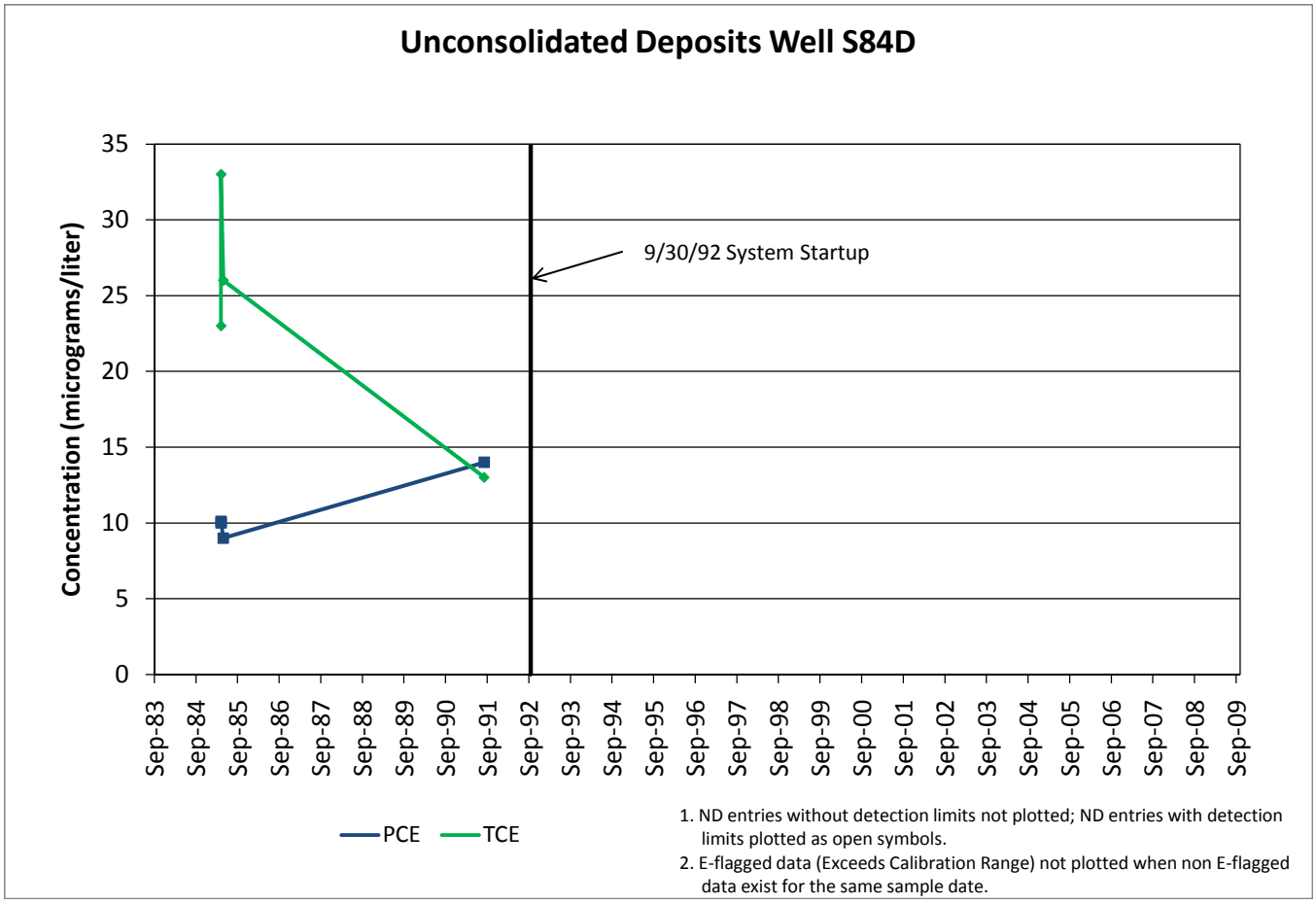
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

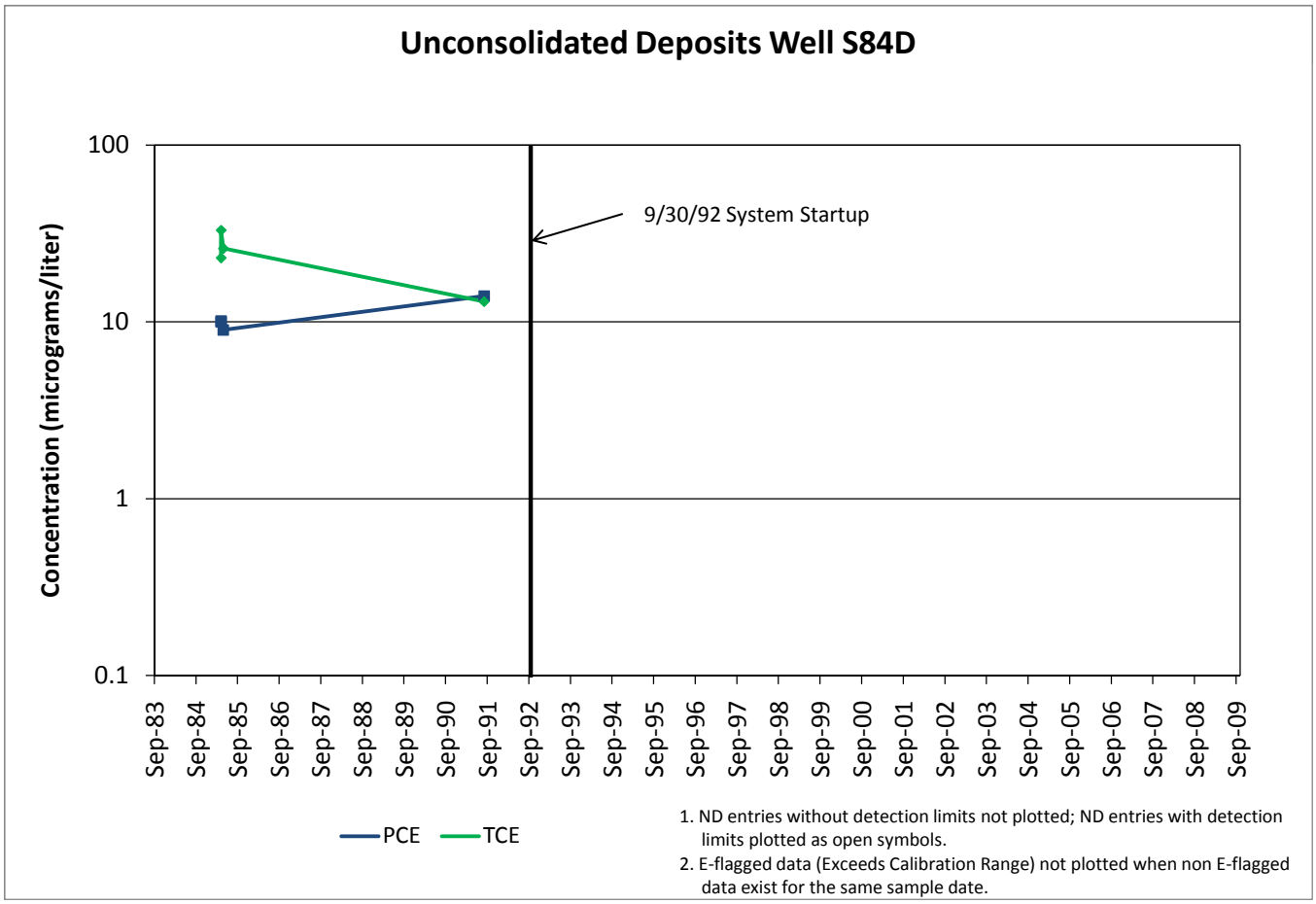


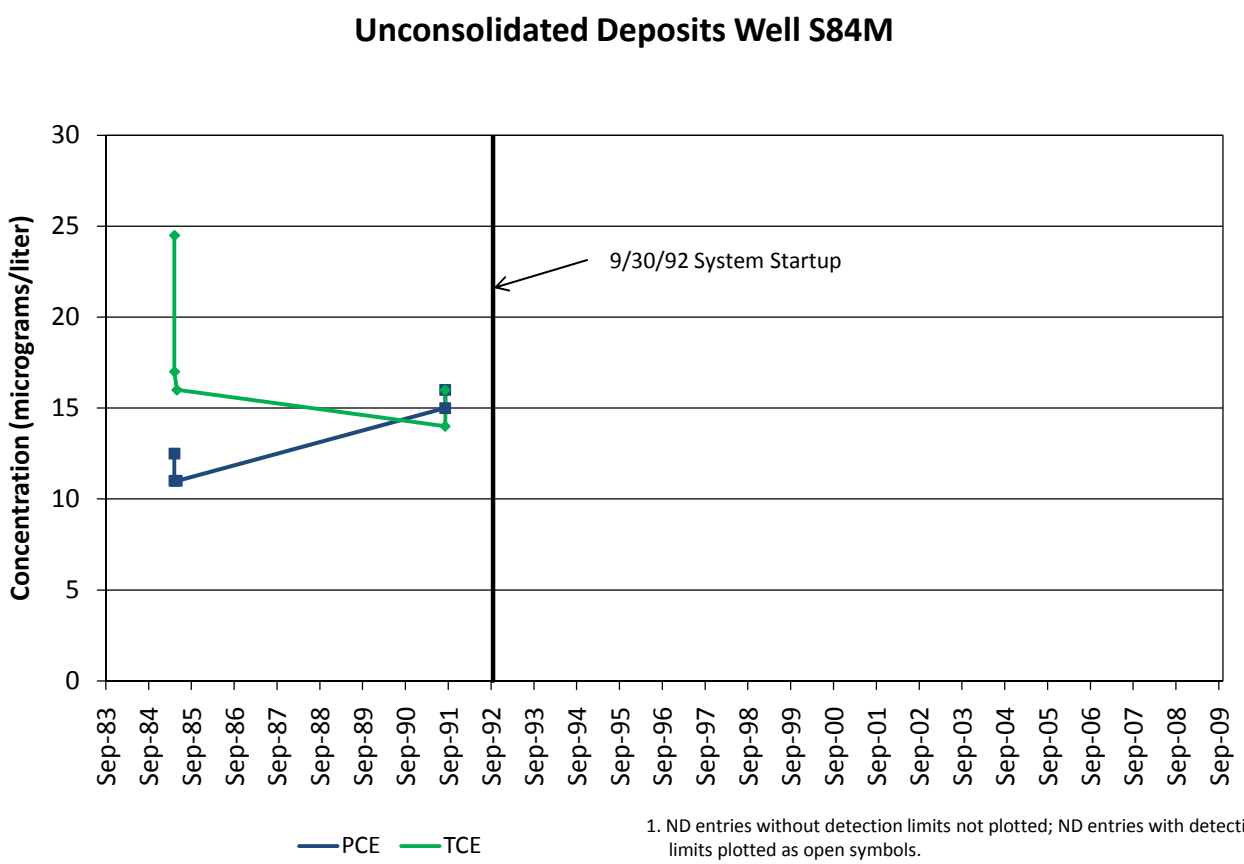
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



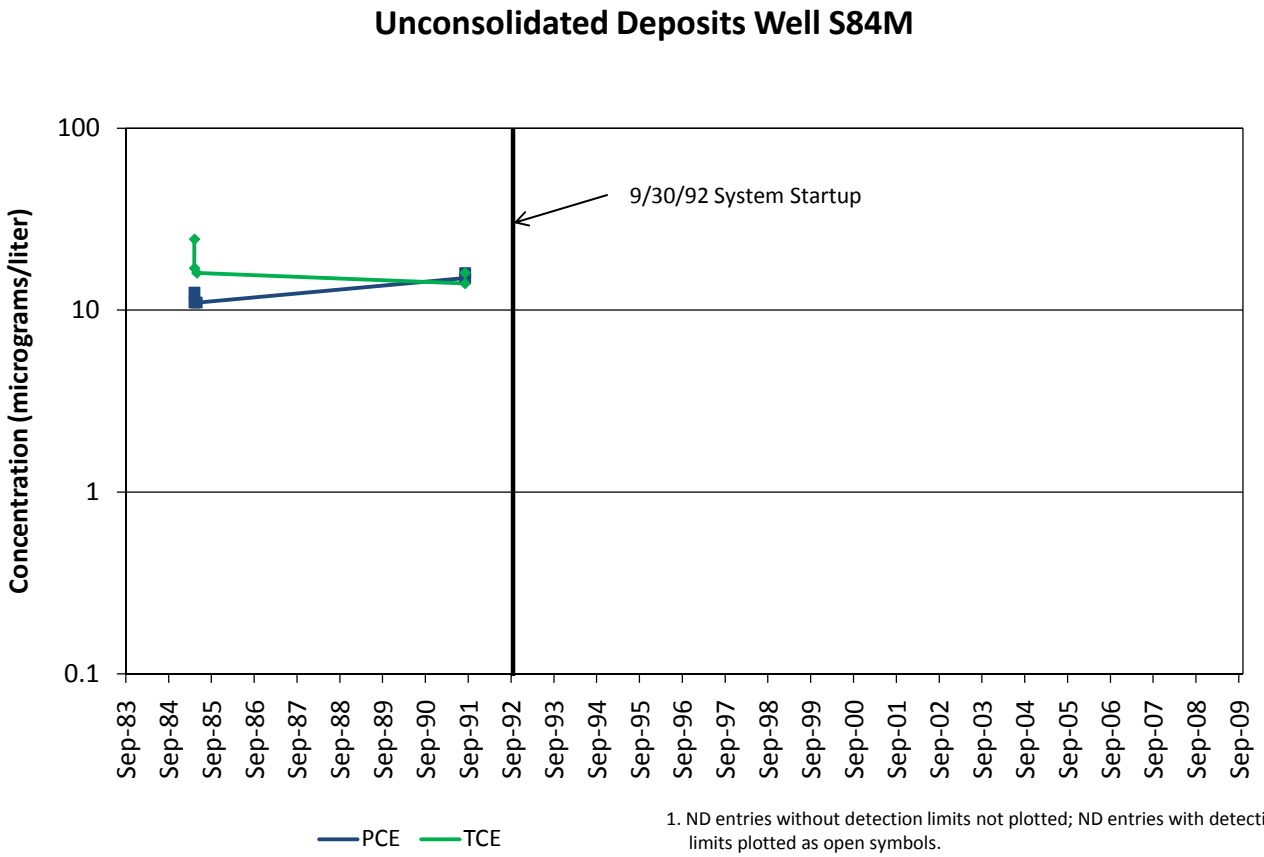
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S84D
Concentration (micrograms/liter)
35
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

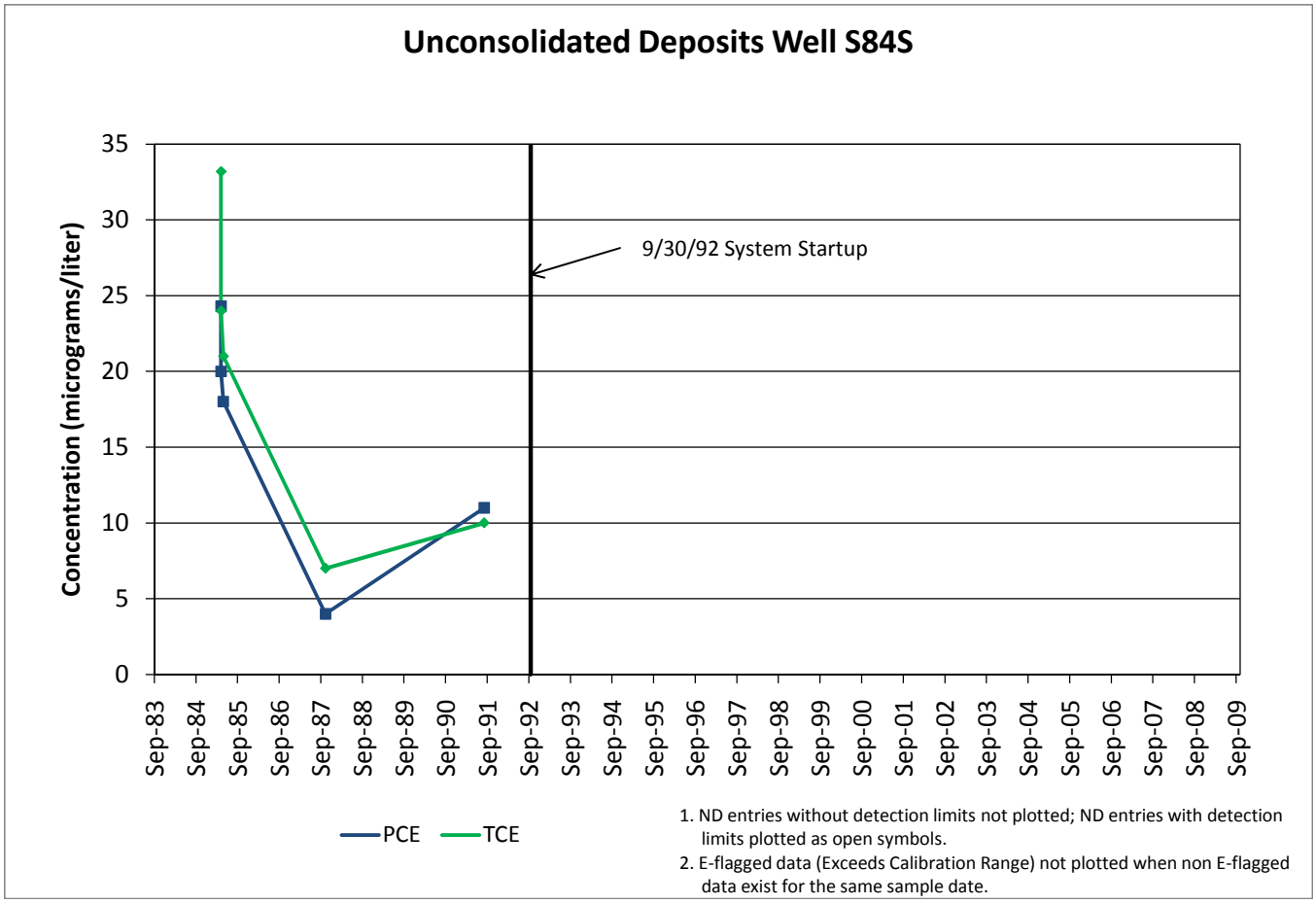

Unconsolidated Deposits Well S84D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

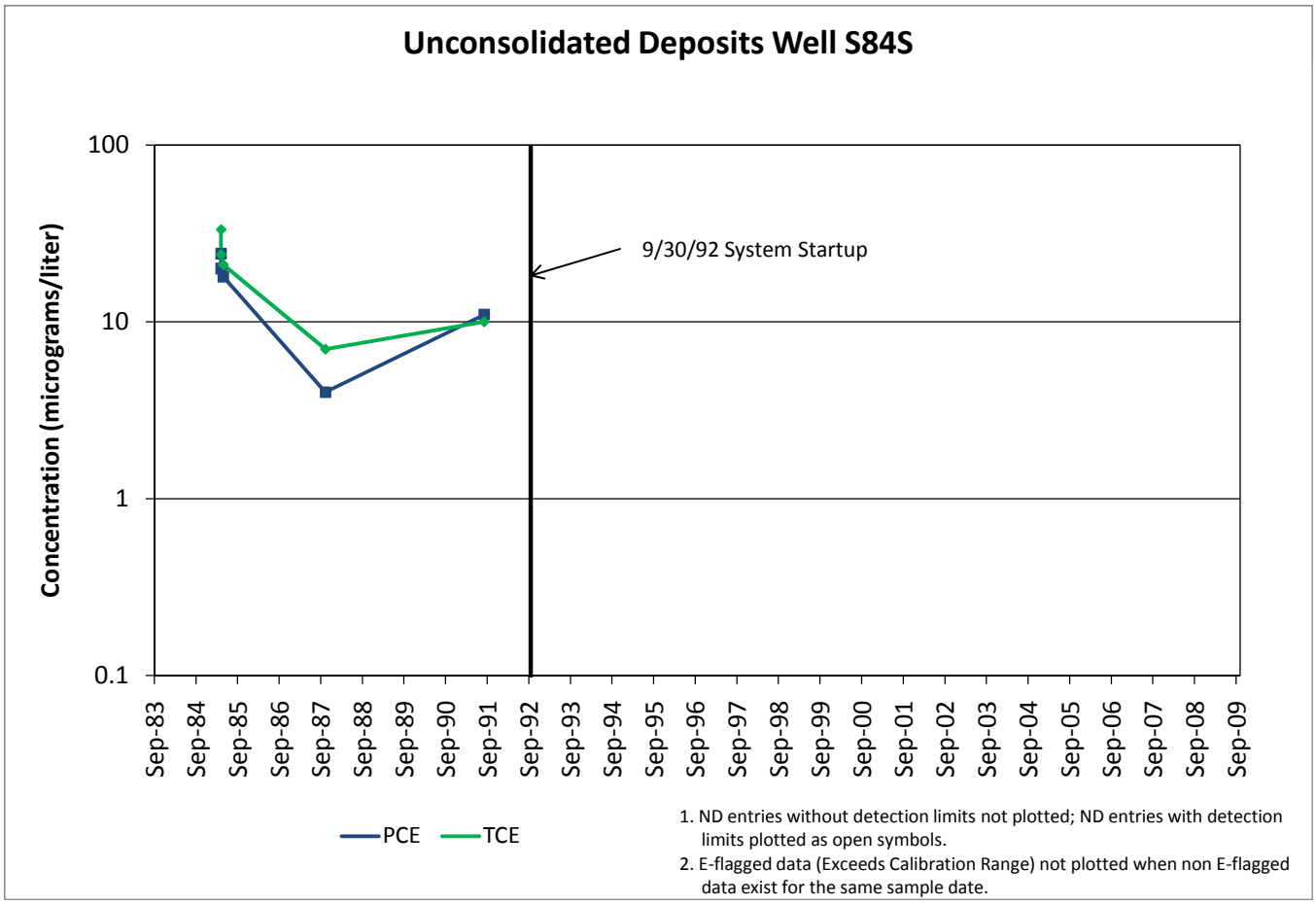


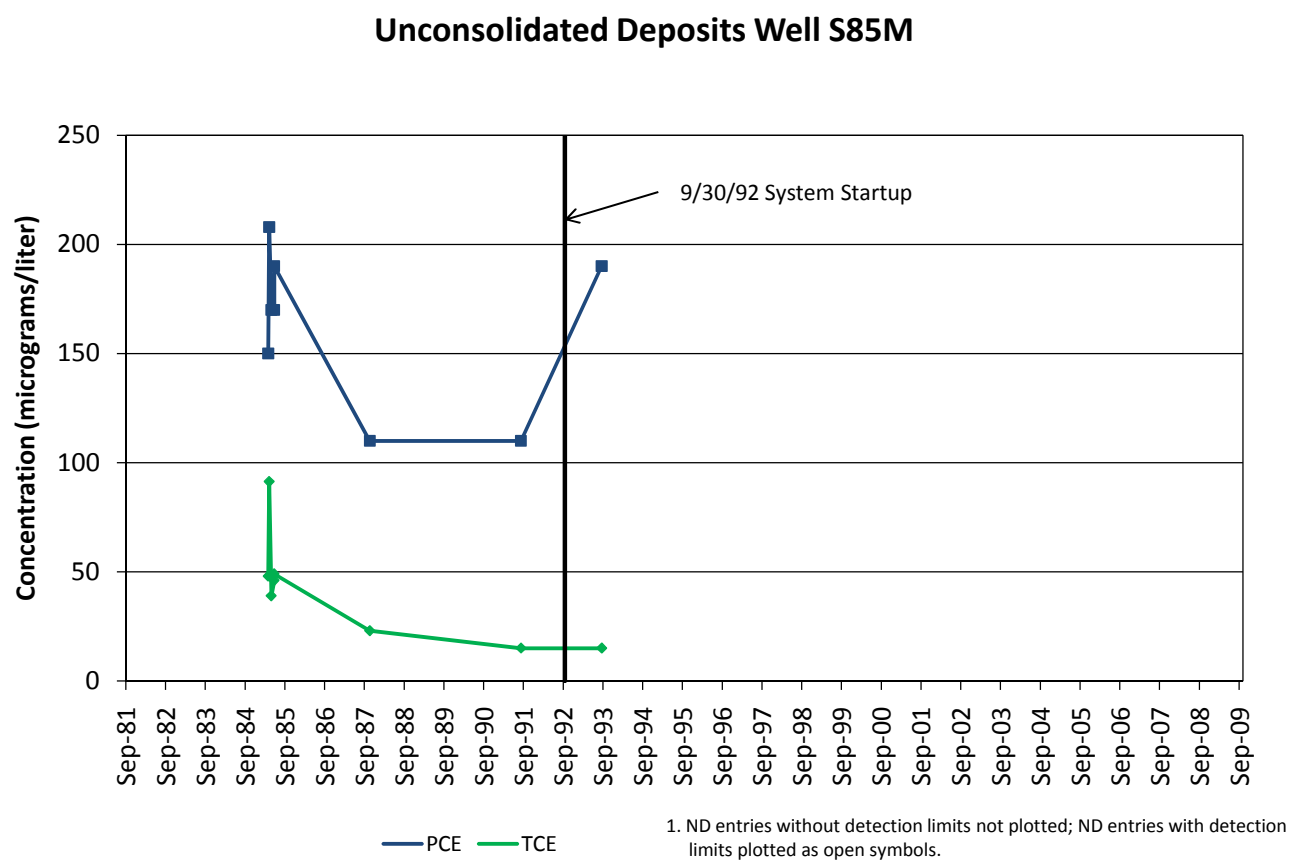
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



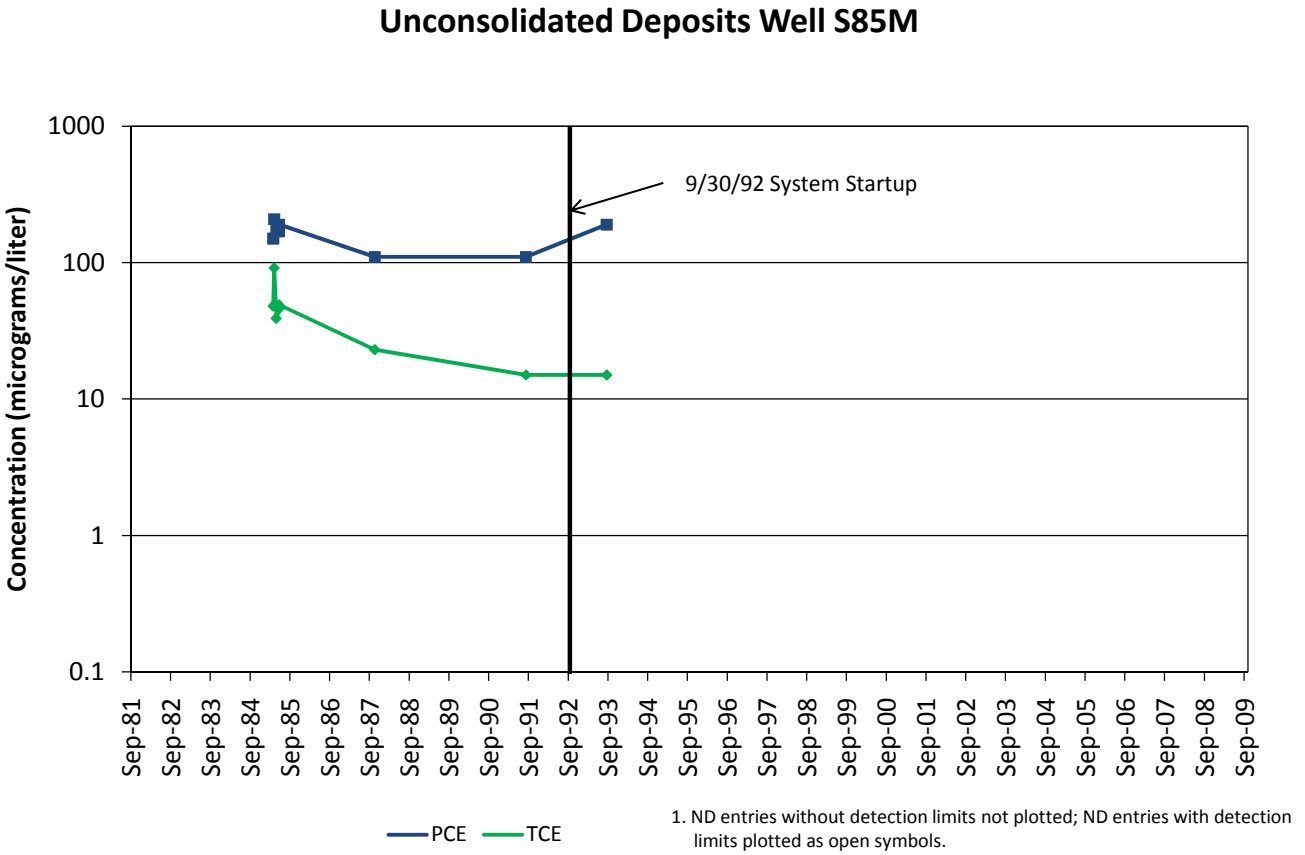
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S84S
Concentration (micrograms/liter)
35
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

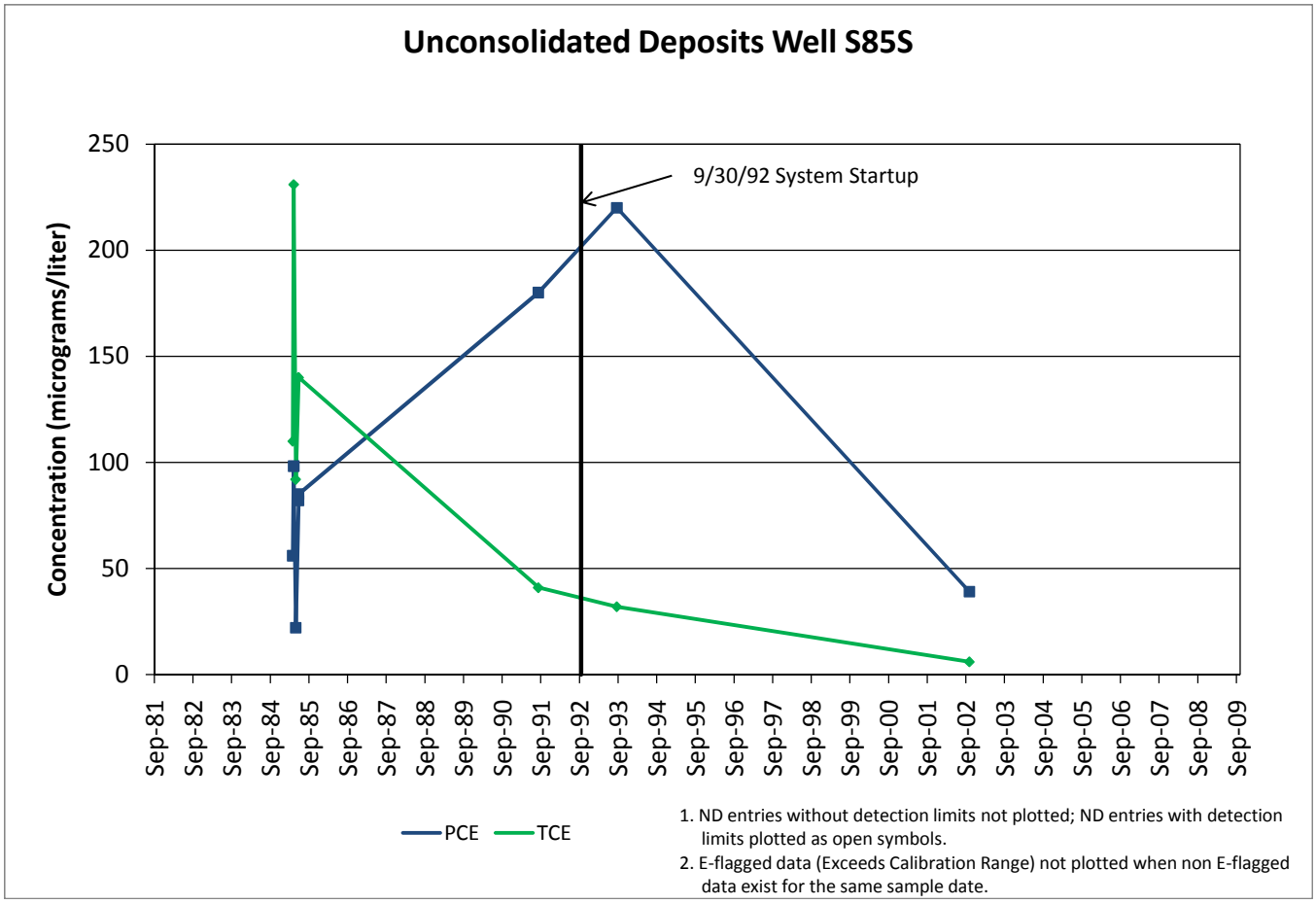

Unconsolidated Deposits Well S84S
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

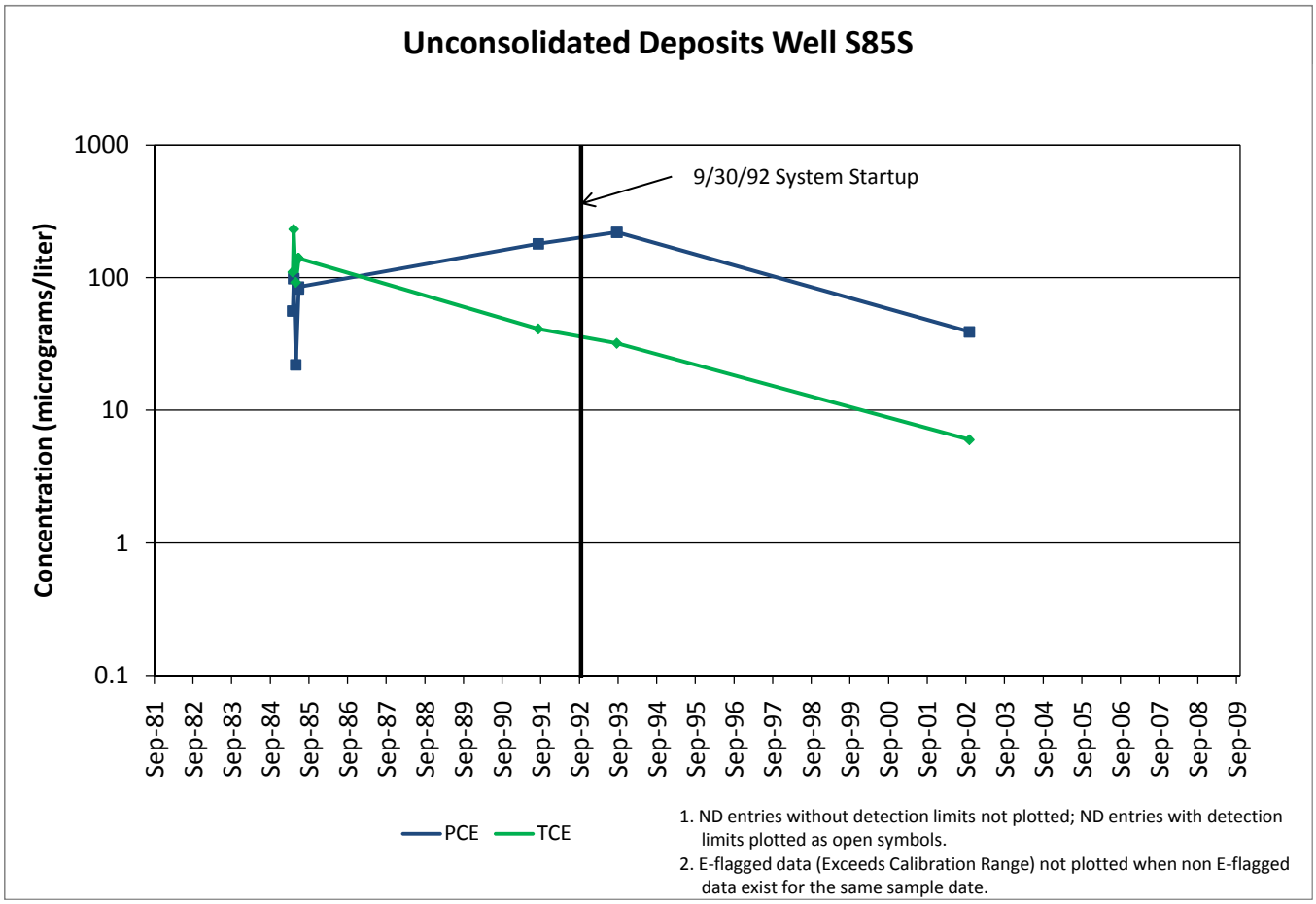


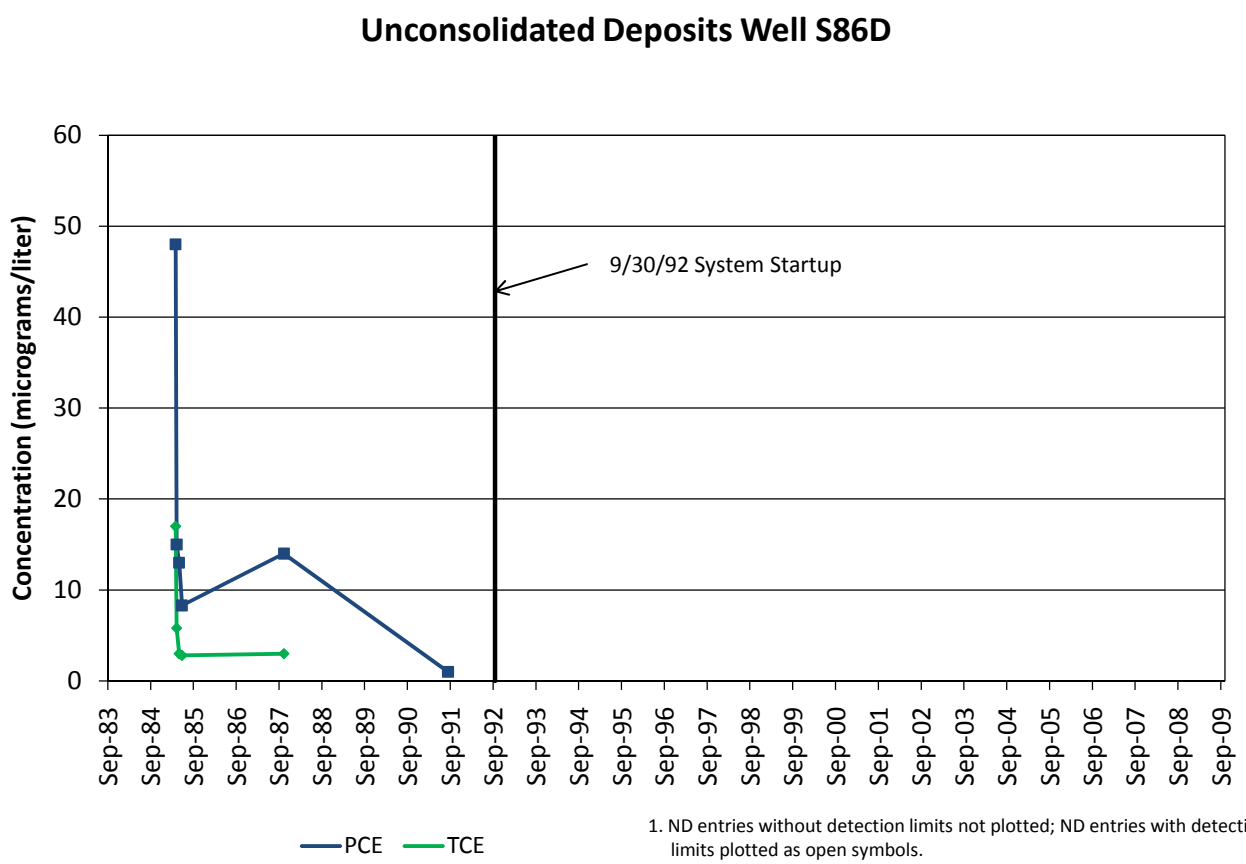
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



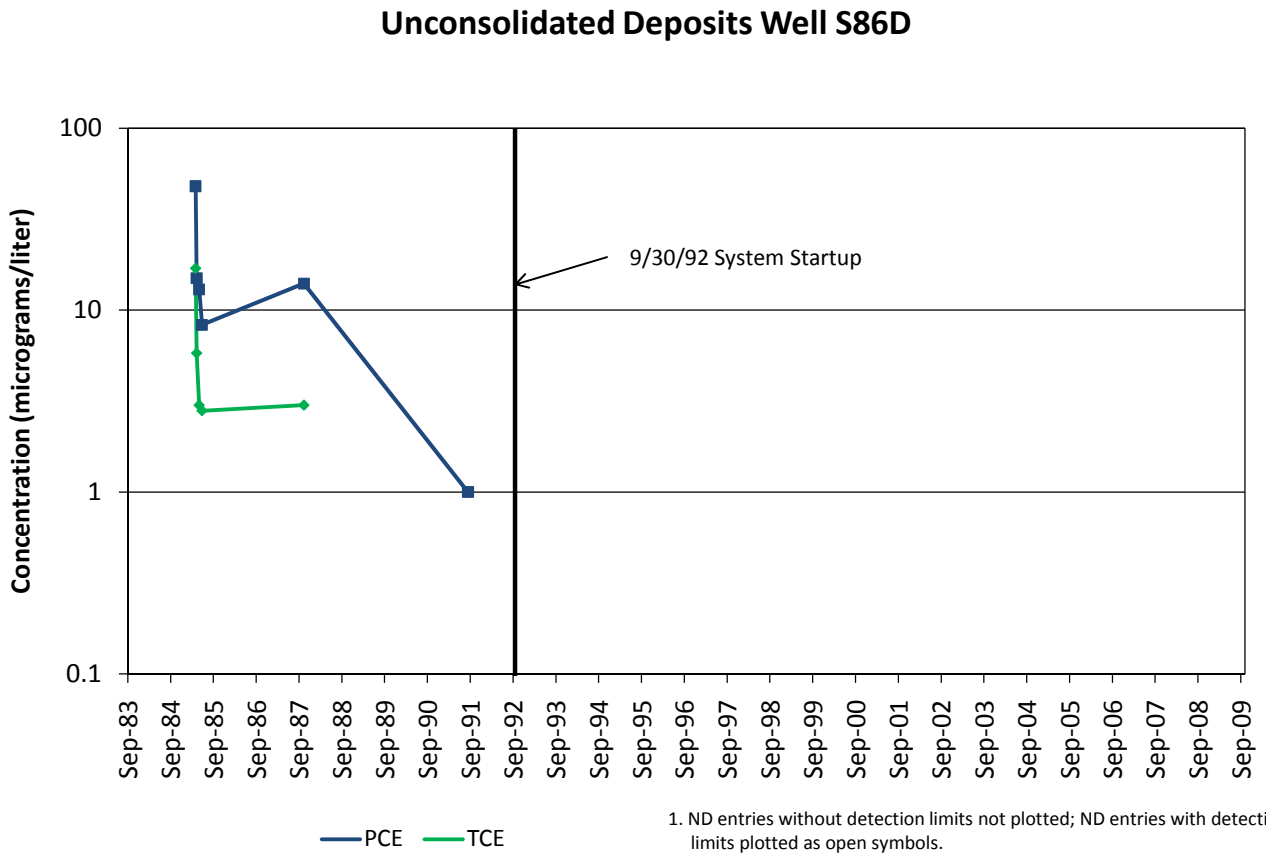
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S85S
Concentration (micrograms/liter)
250
200
150
100
50
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

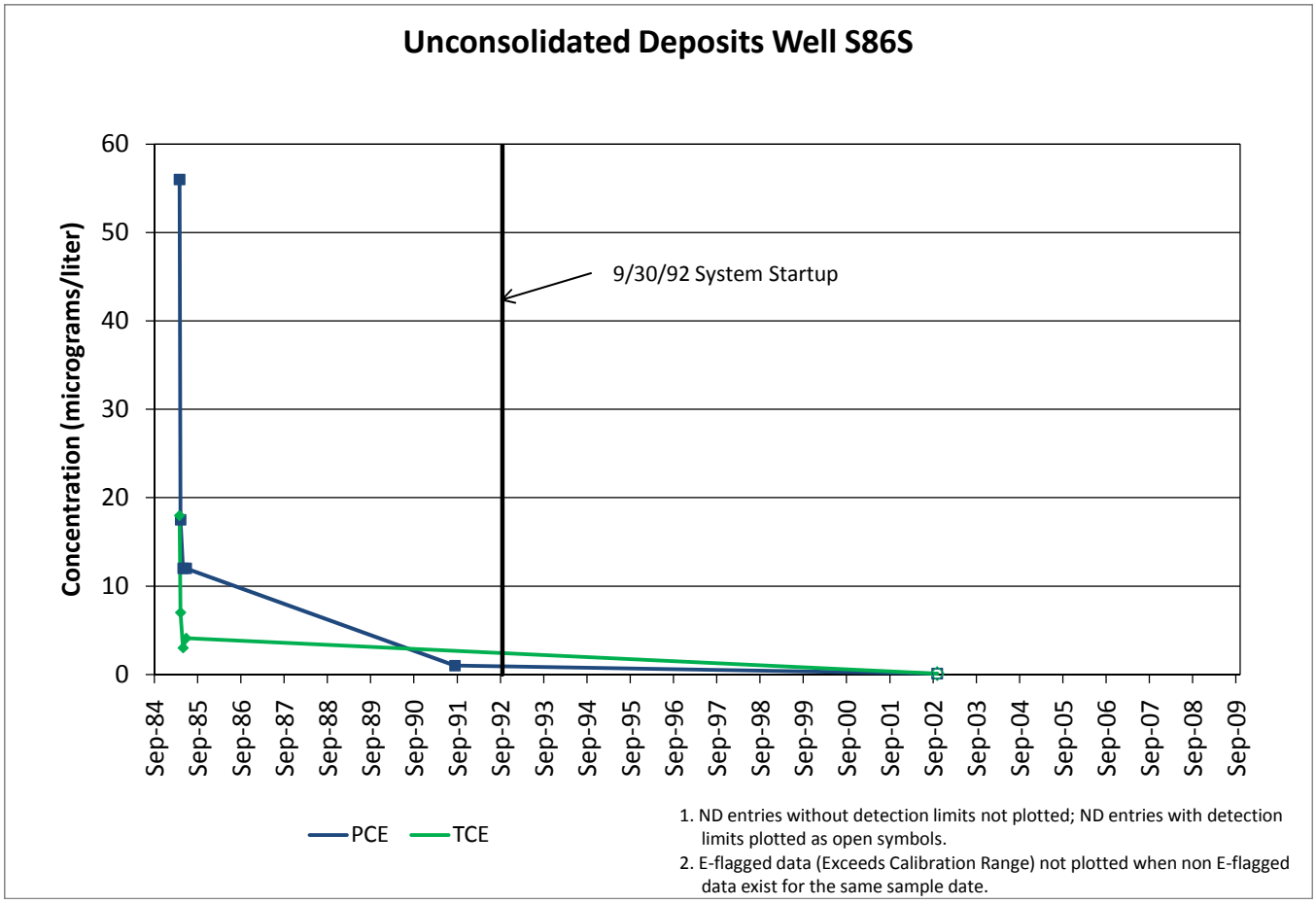

Unconsolidated Deposits Well S85S
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

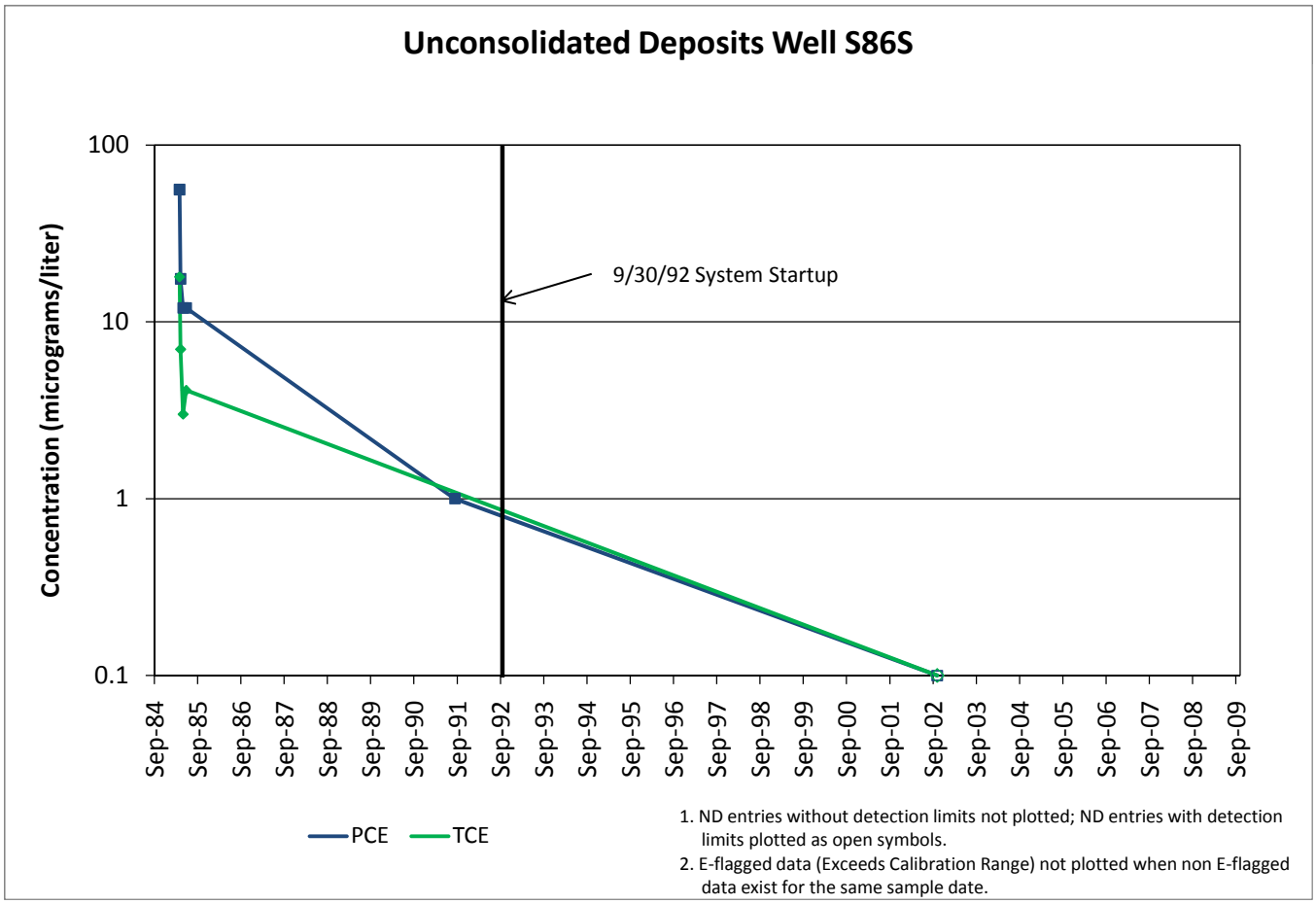


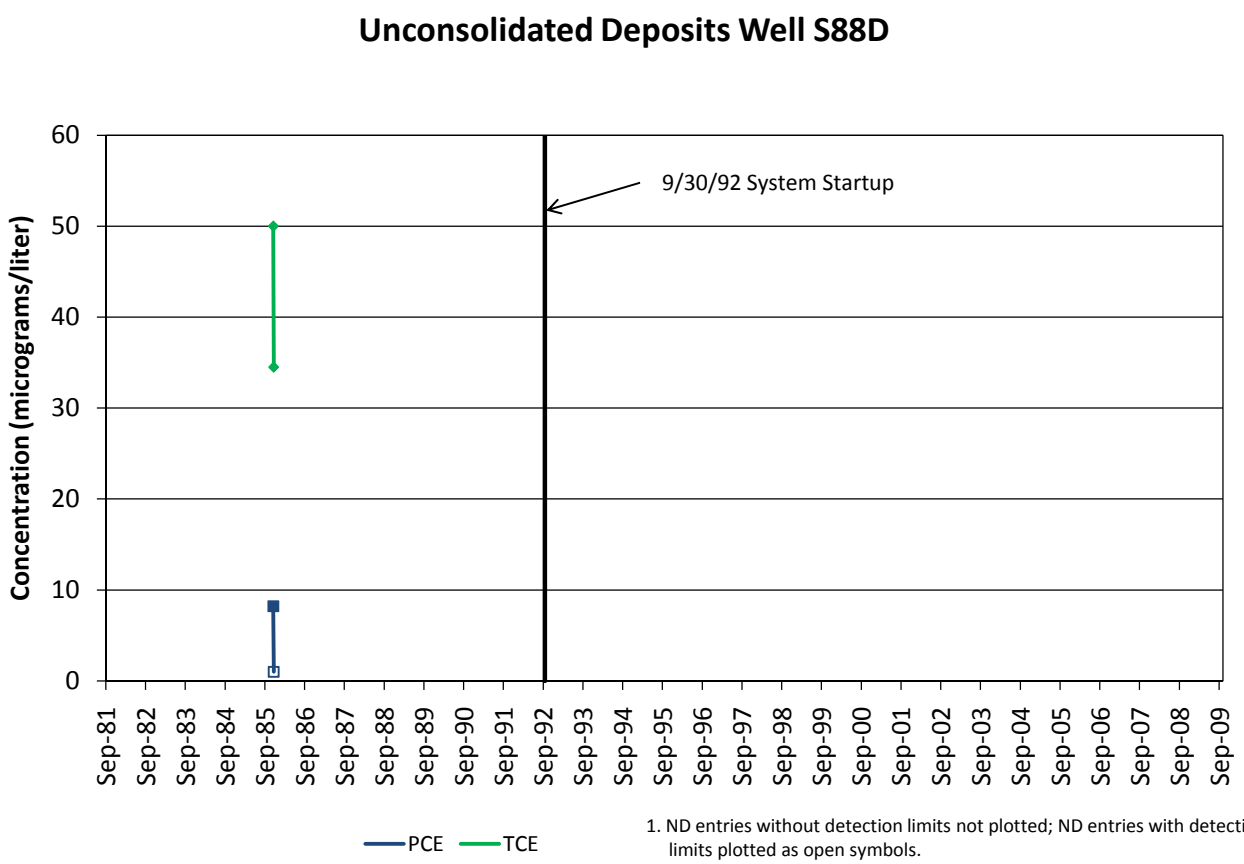
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



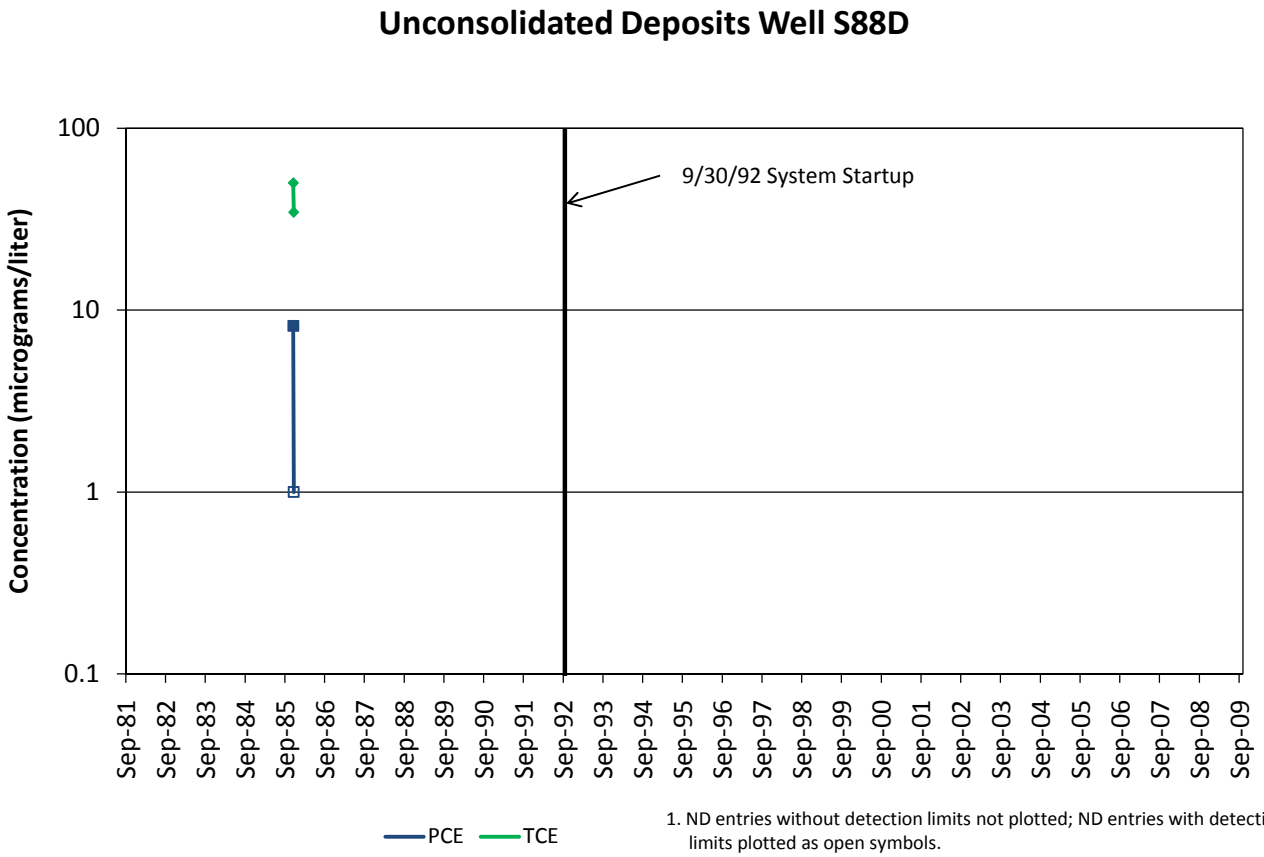
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S86S
Concentration (micrograms/liter)
60
50
40
30
20
10
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

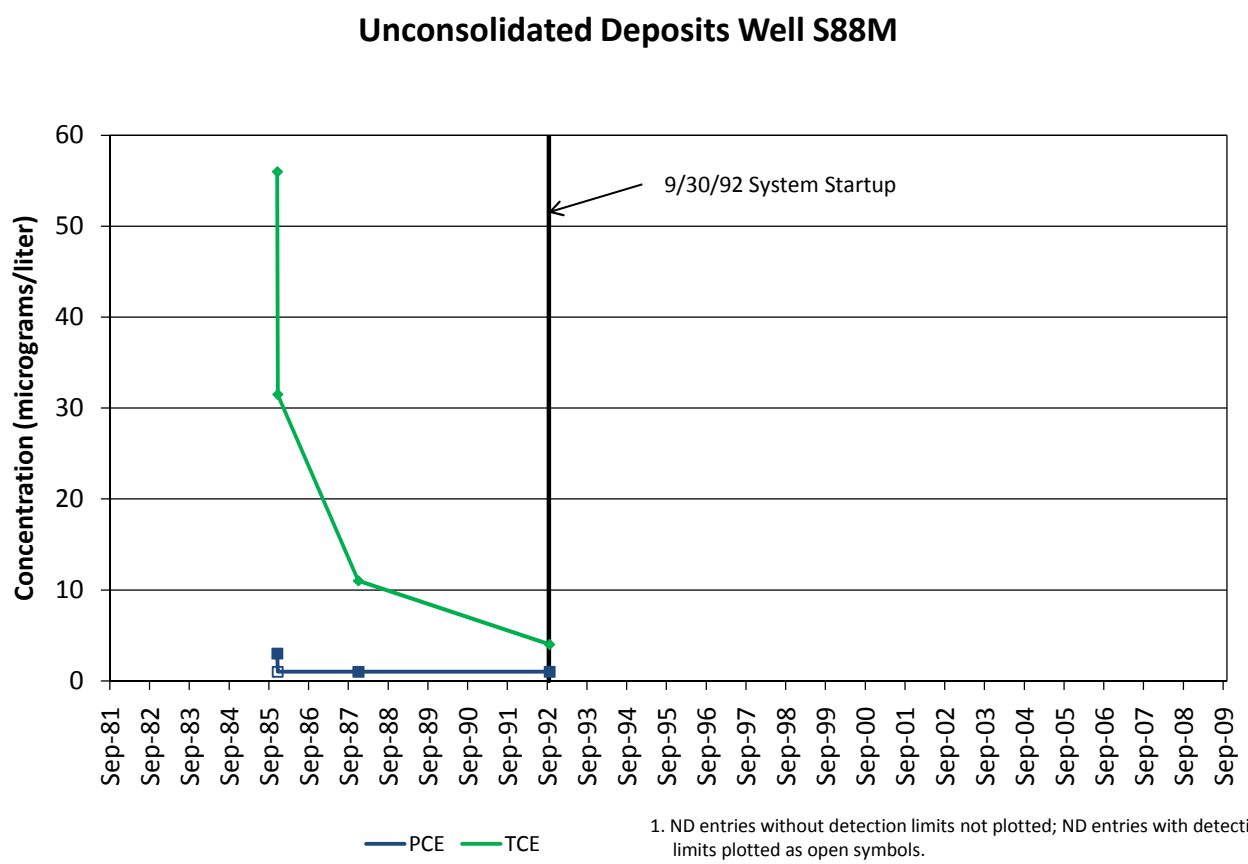

Unconsolidated Deposits Well S86S
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



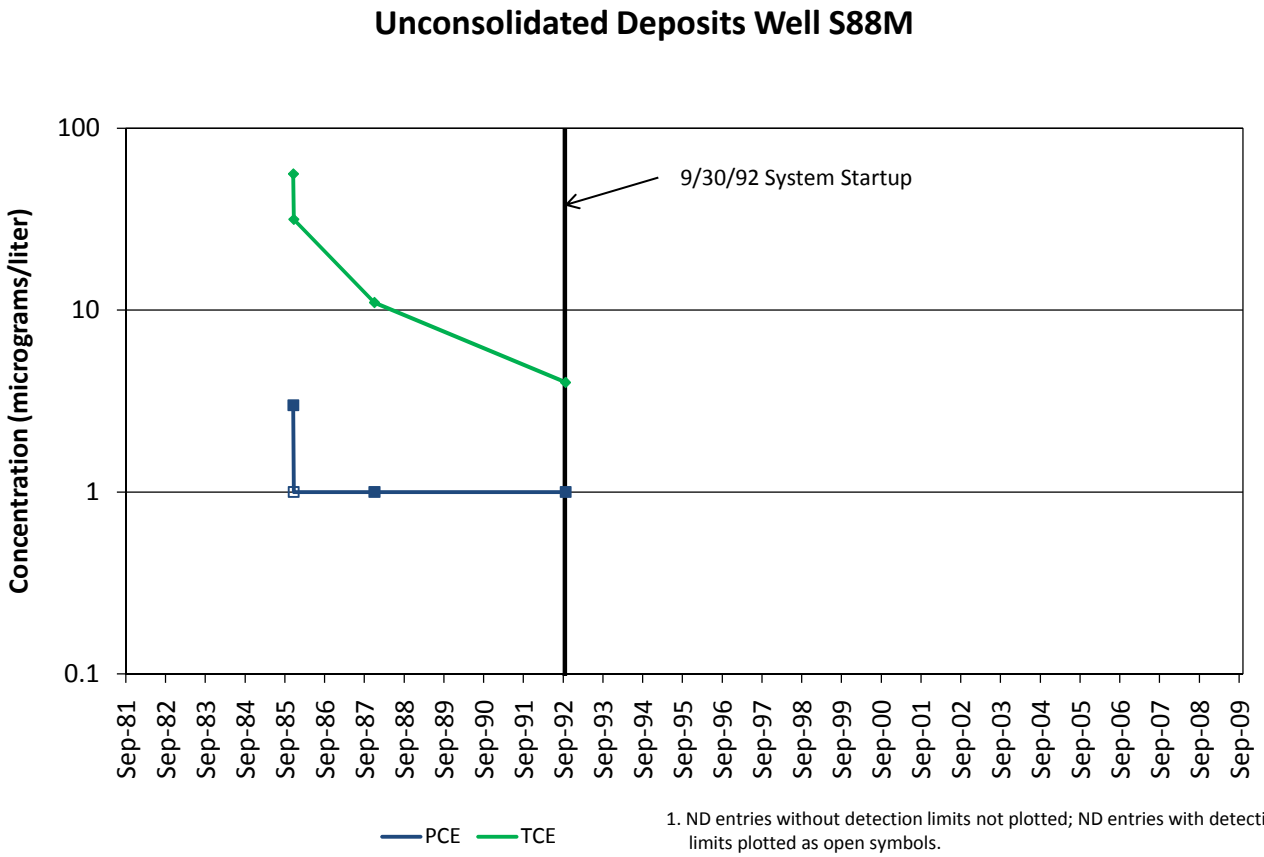
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



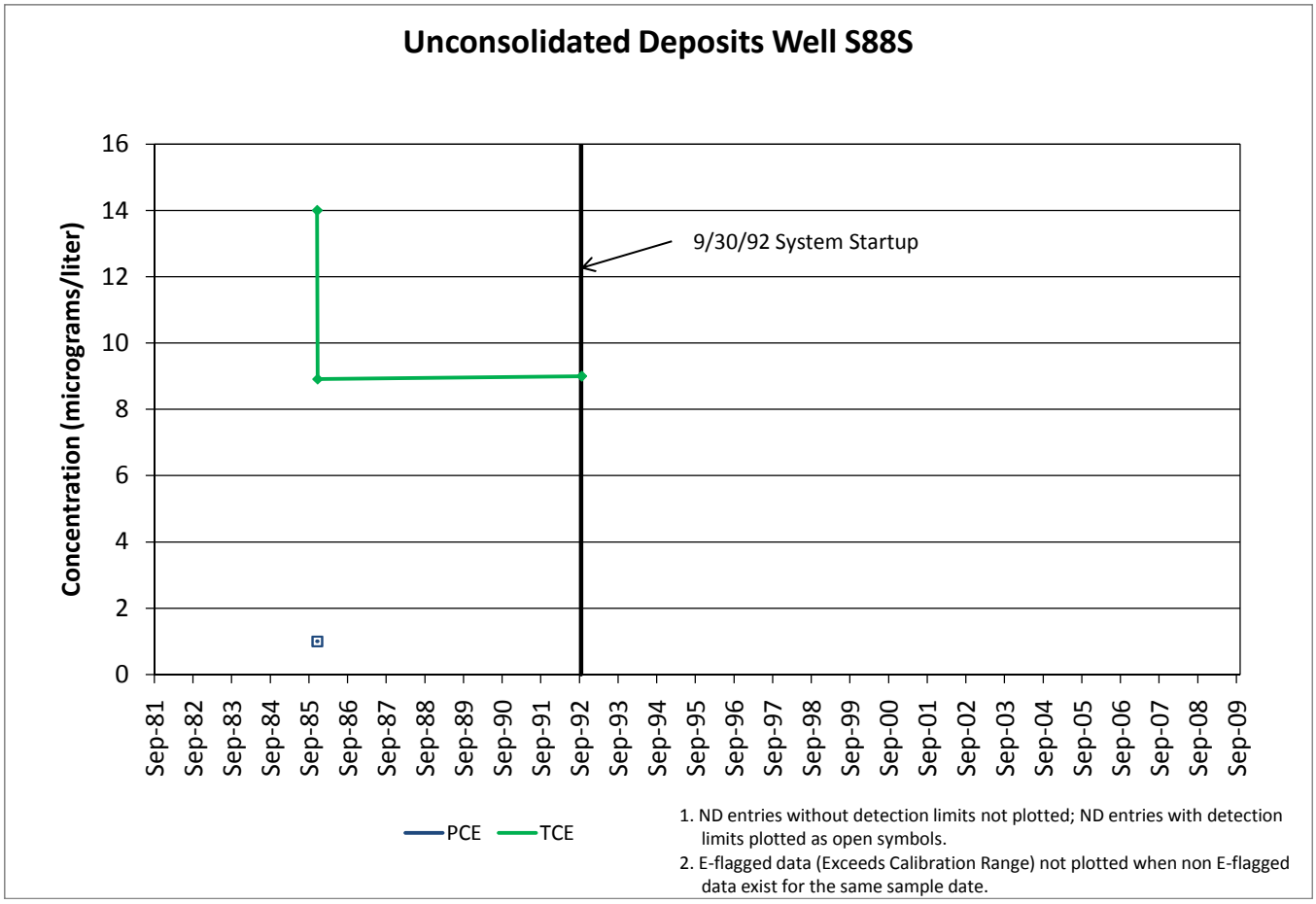
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

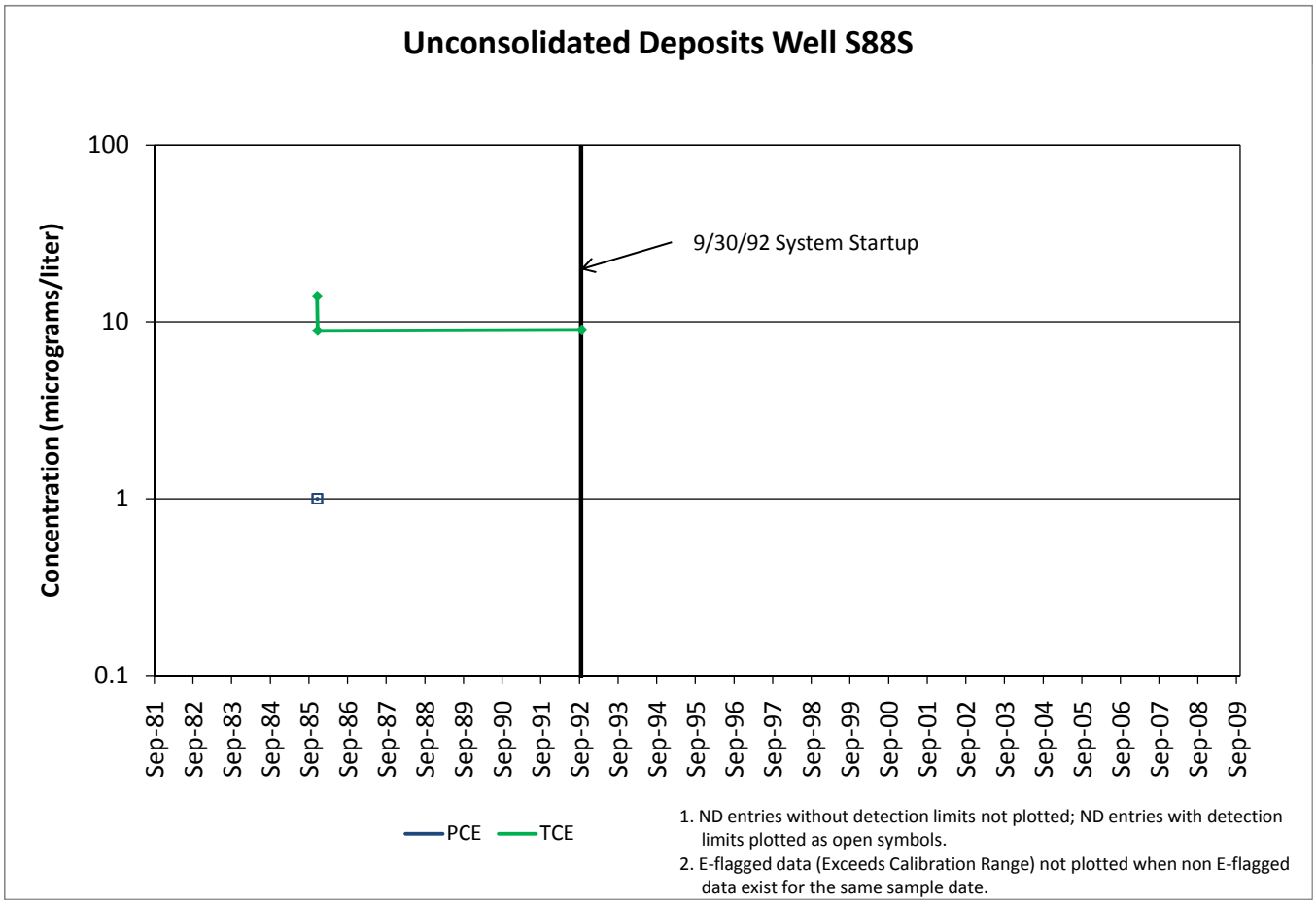


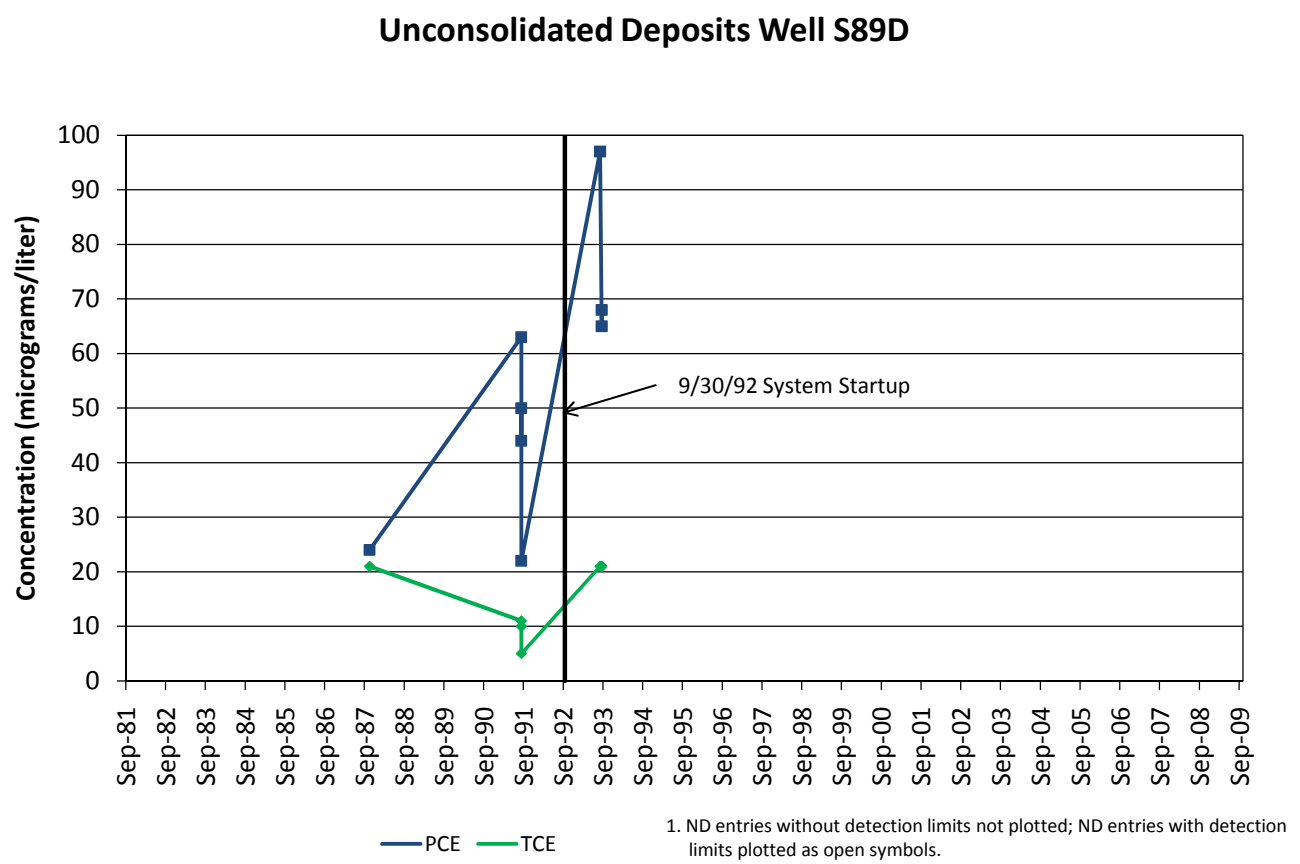
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



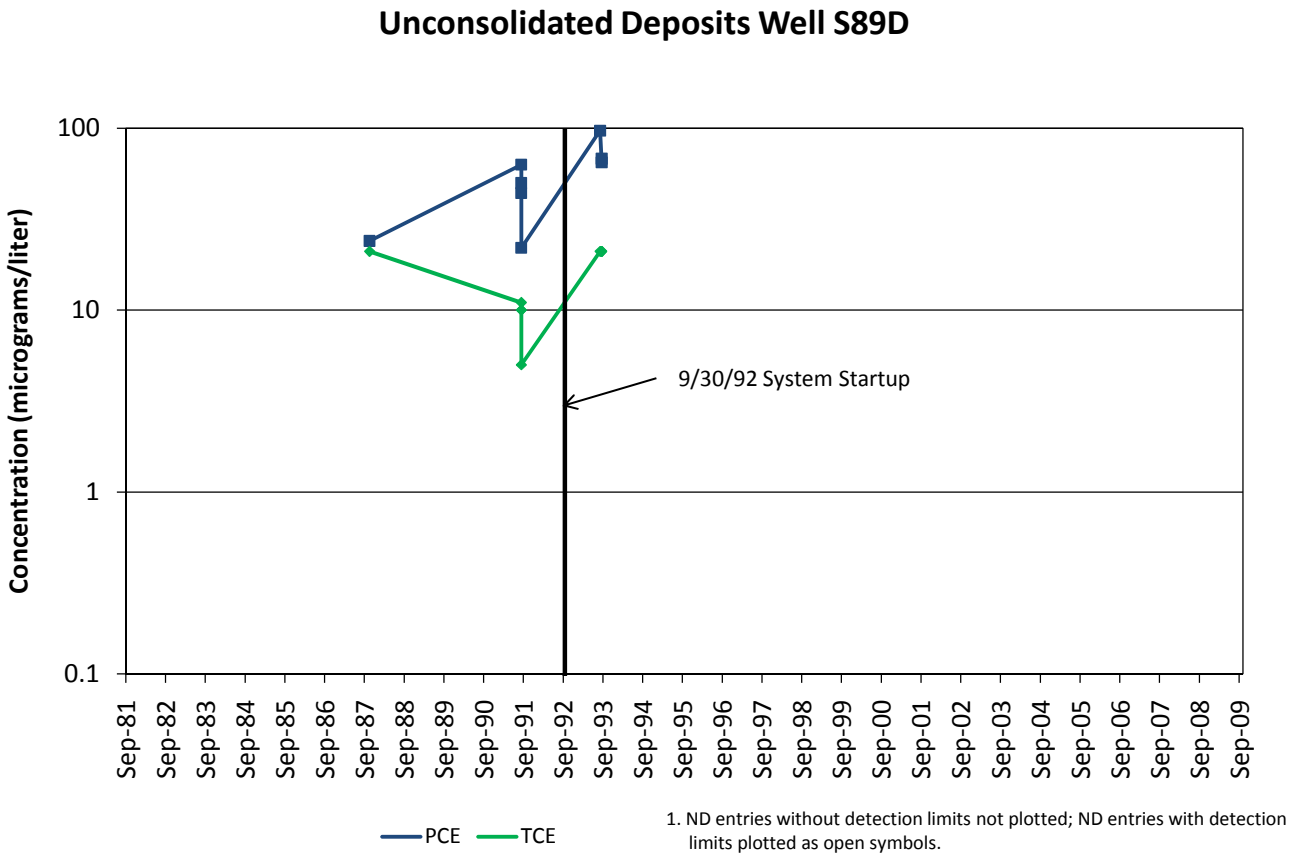
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S88S
Concentration (micrograms/liter)
16
14
12
10
8
6
4
2
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

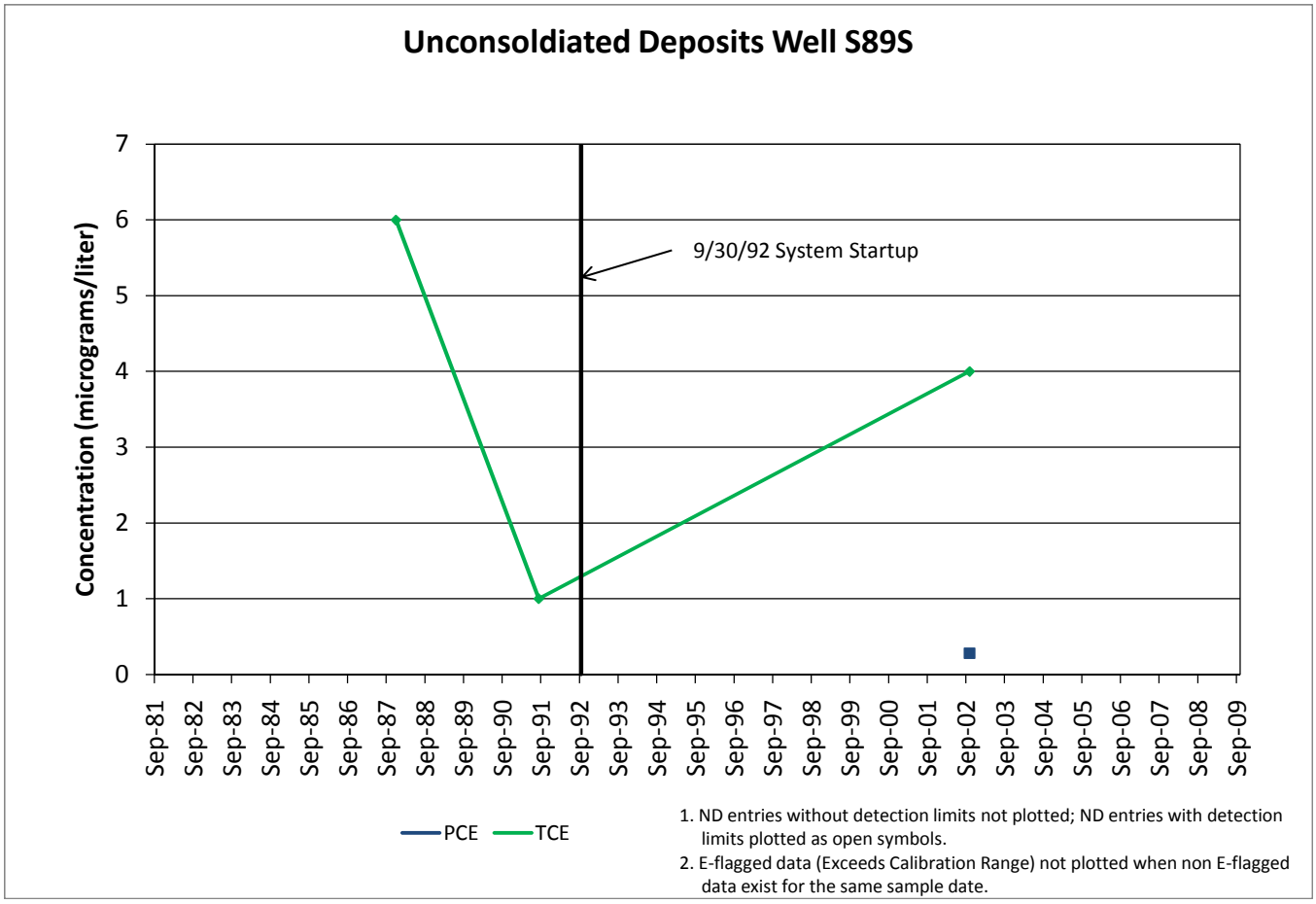

Unconsolidated Deposits Well S88S
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

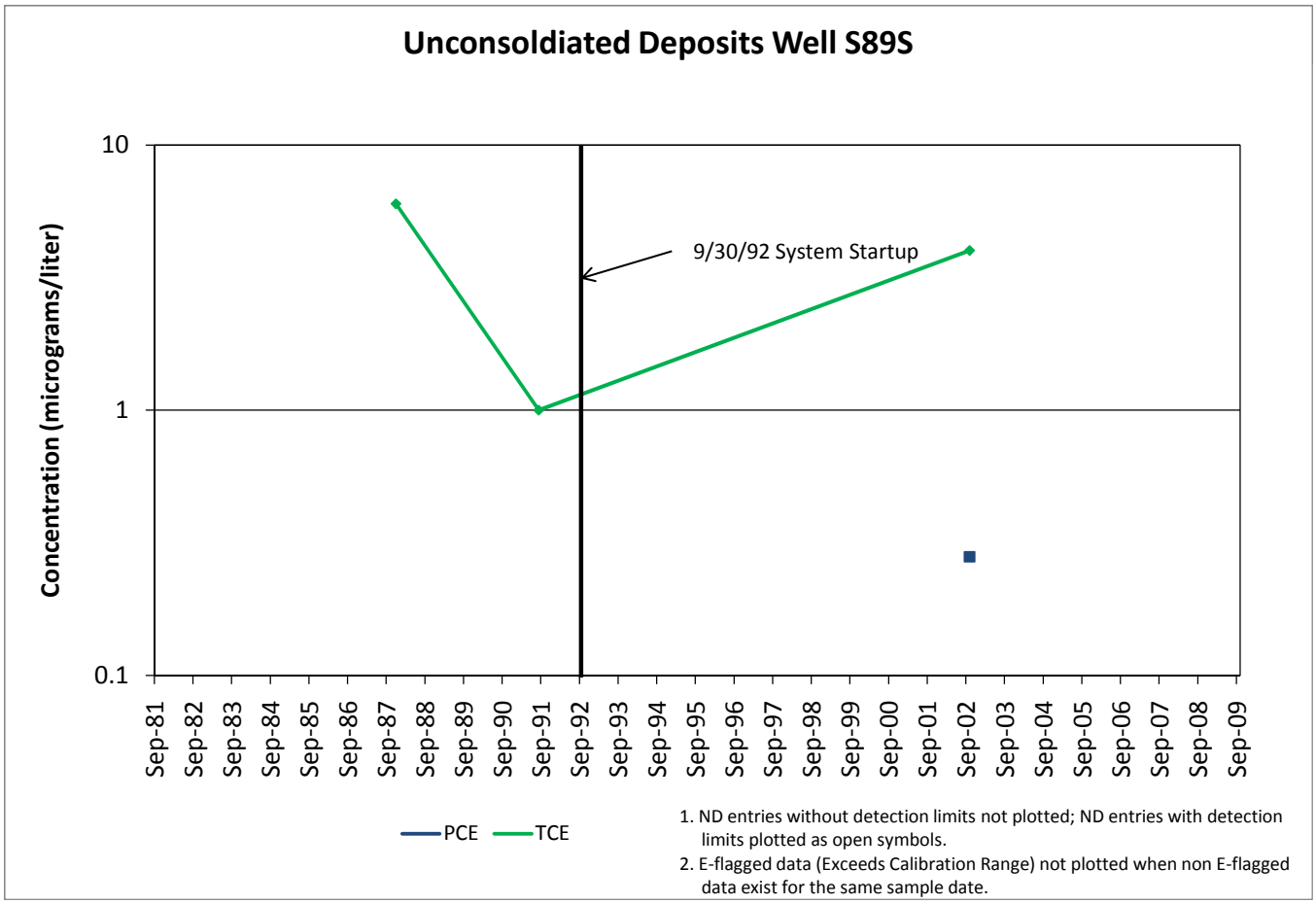


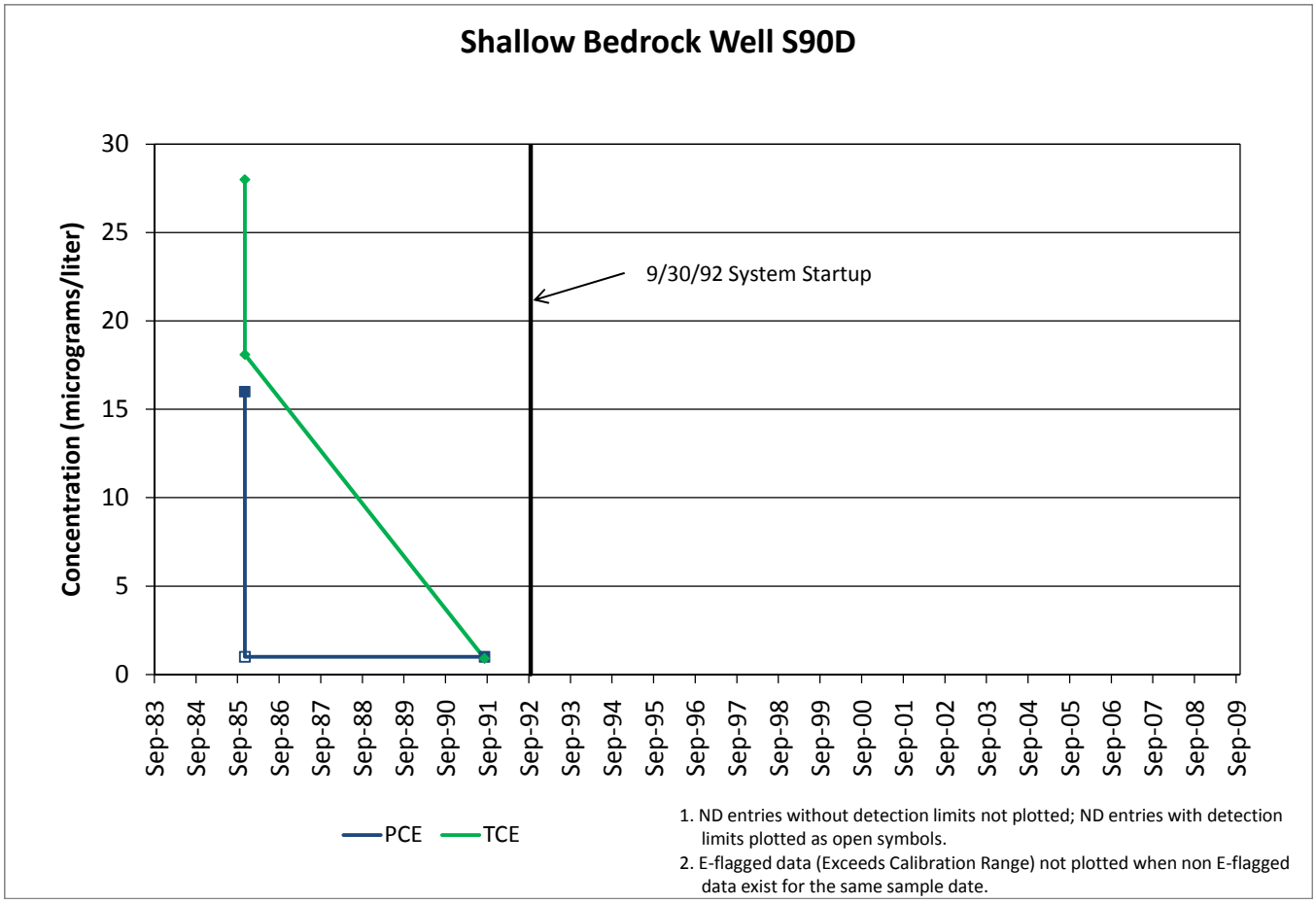
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

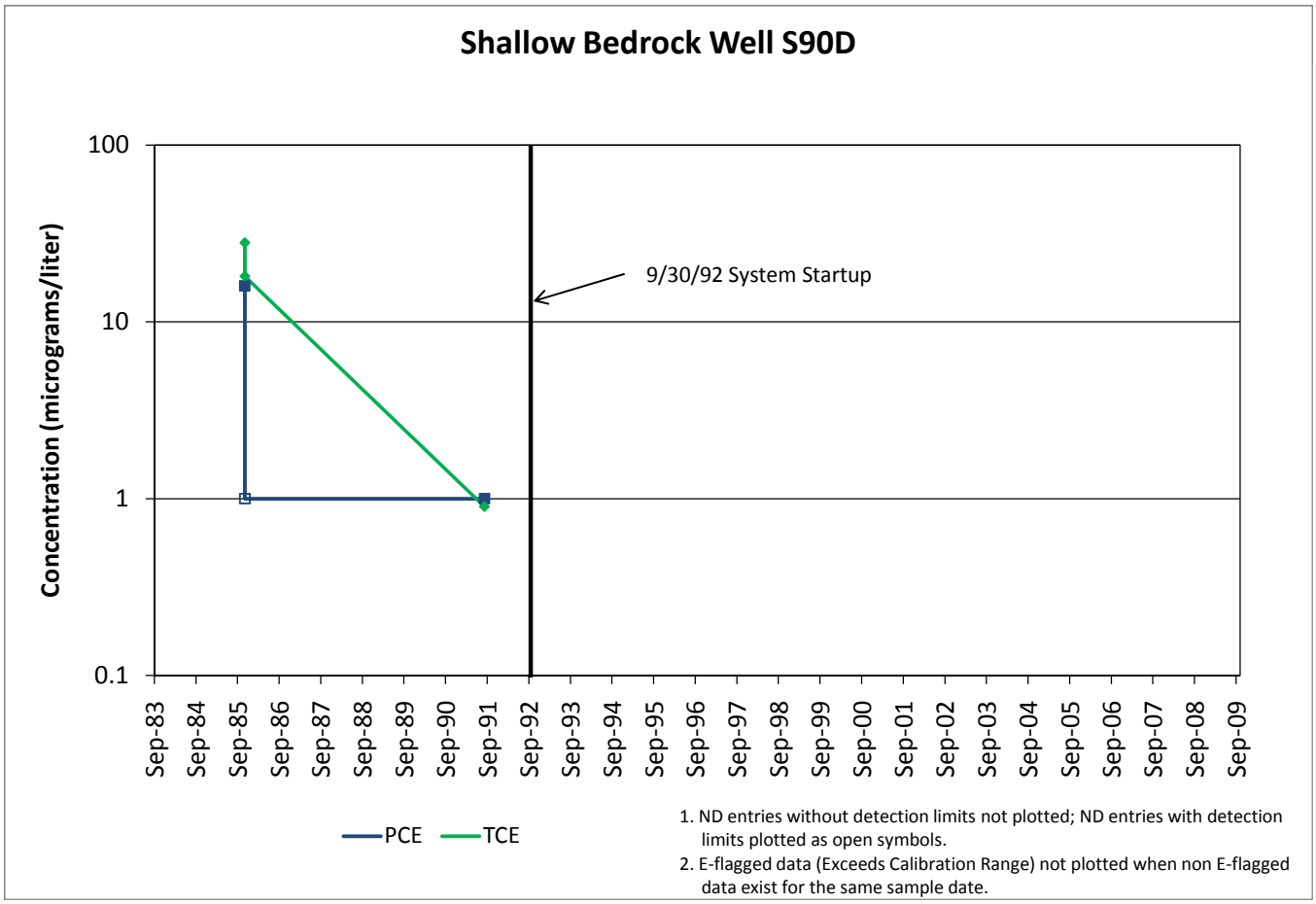


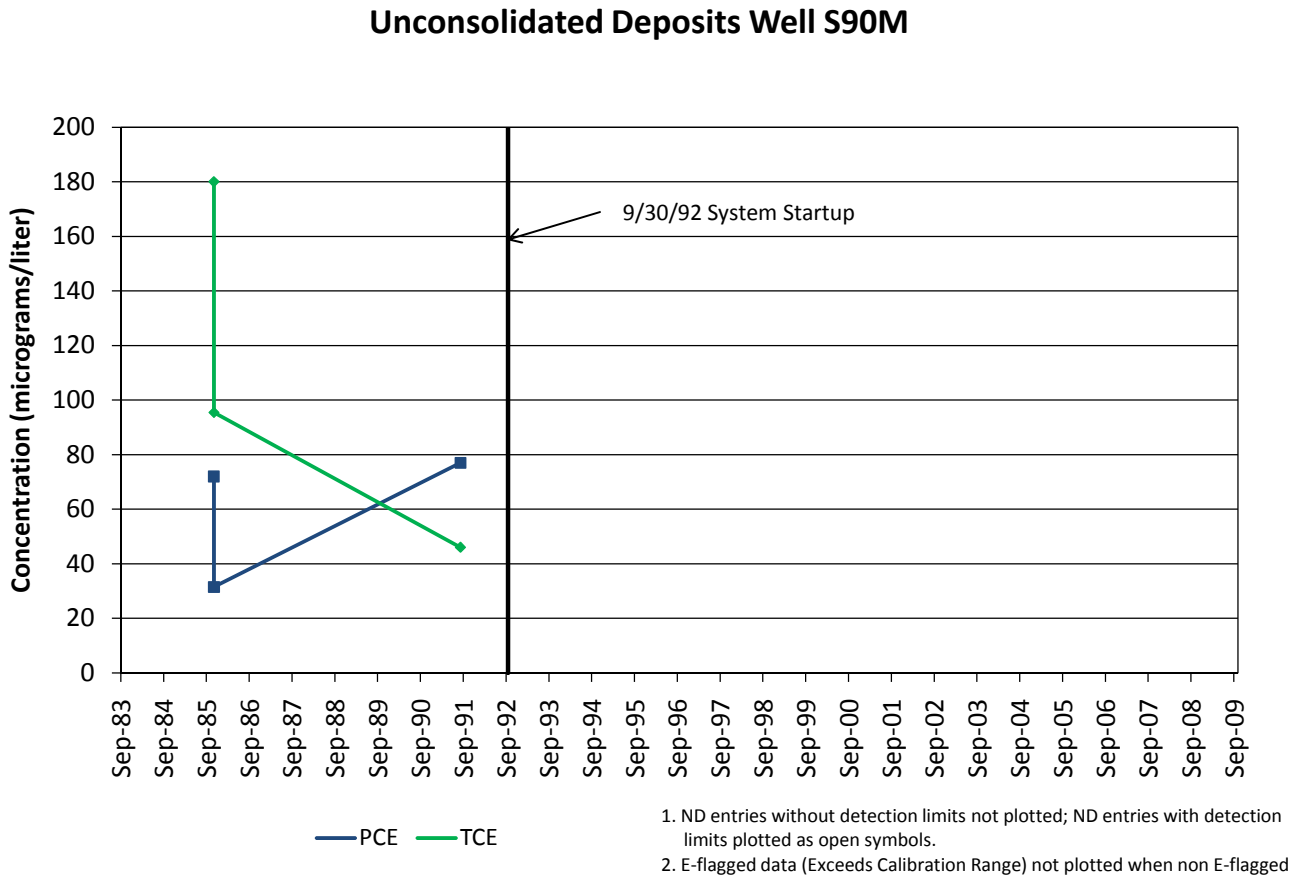
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsoldiated Deposits Well S89S
Concentration (micrograms/liter)
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

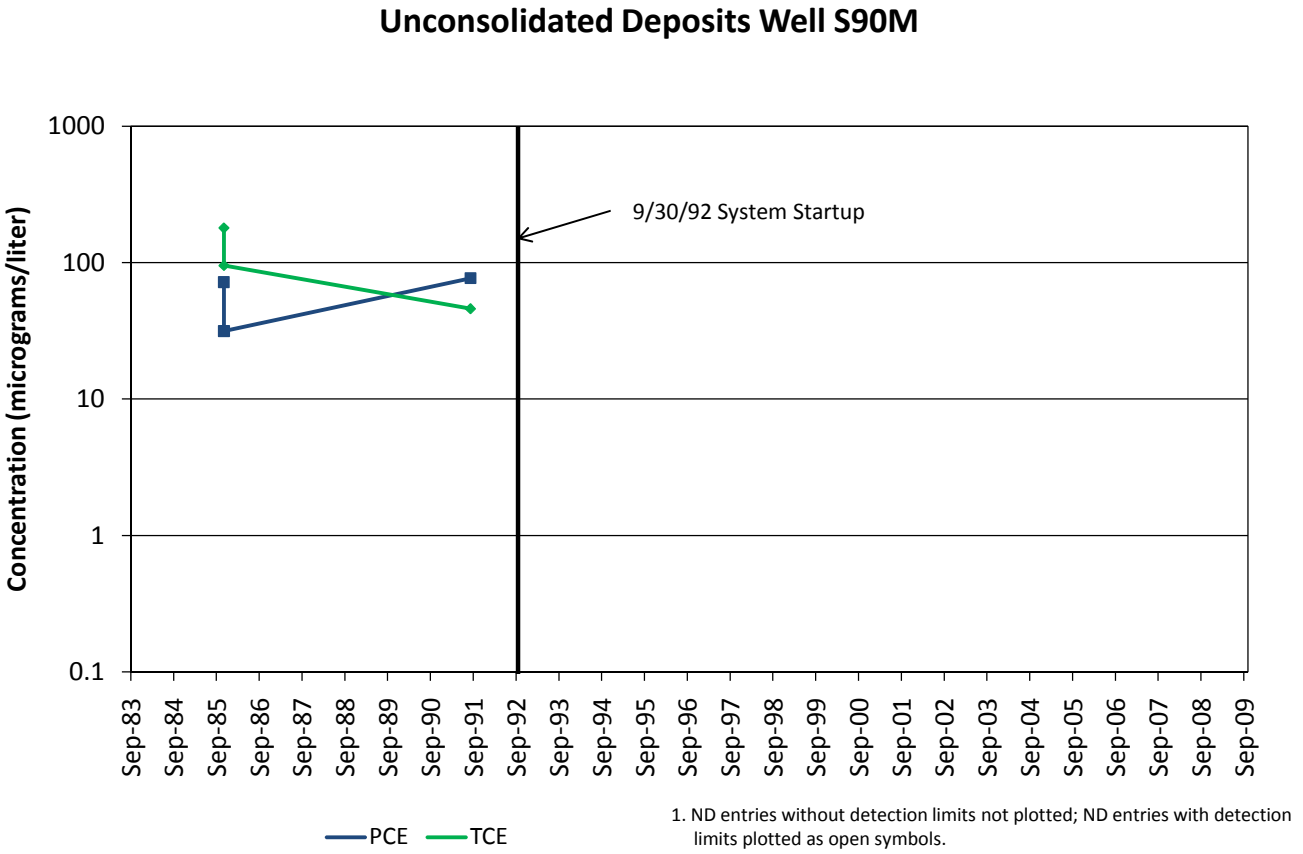

Unconsoldiated Deposits Well S89S
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well S90D
Concentration (micrograms/liter)
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

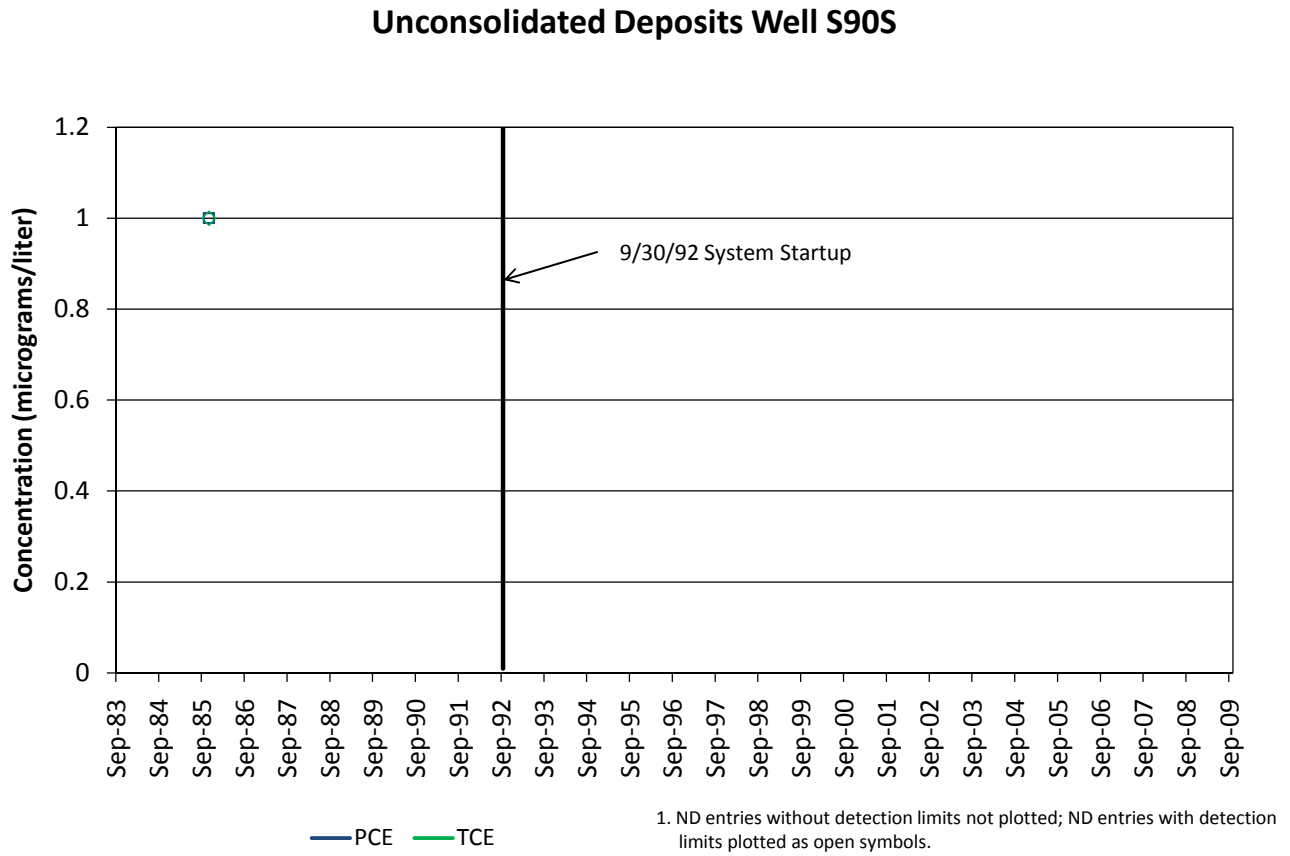

Shallow Bedrock Well S90D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



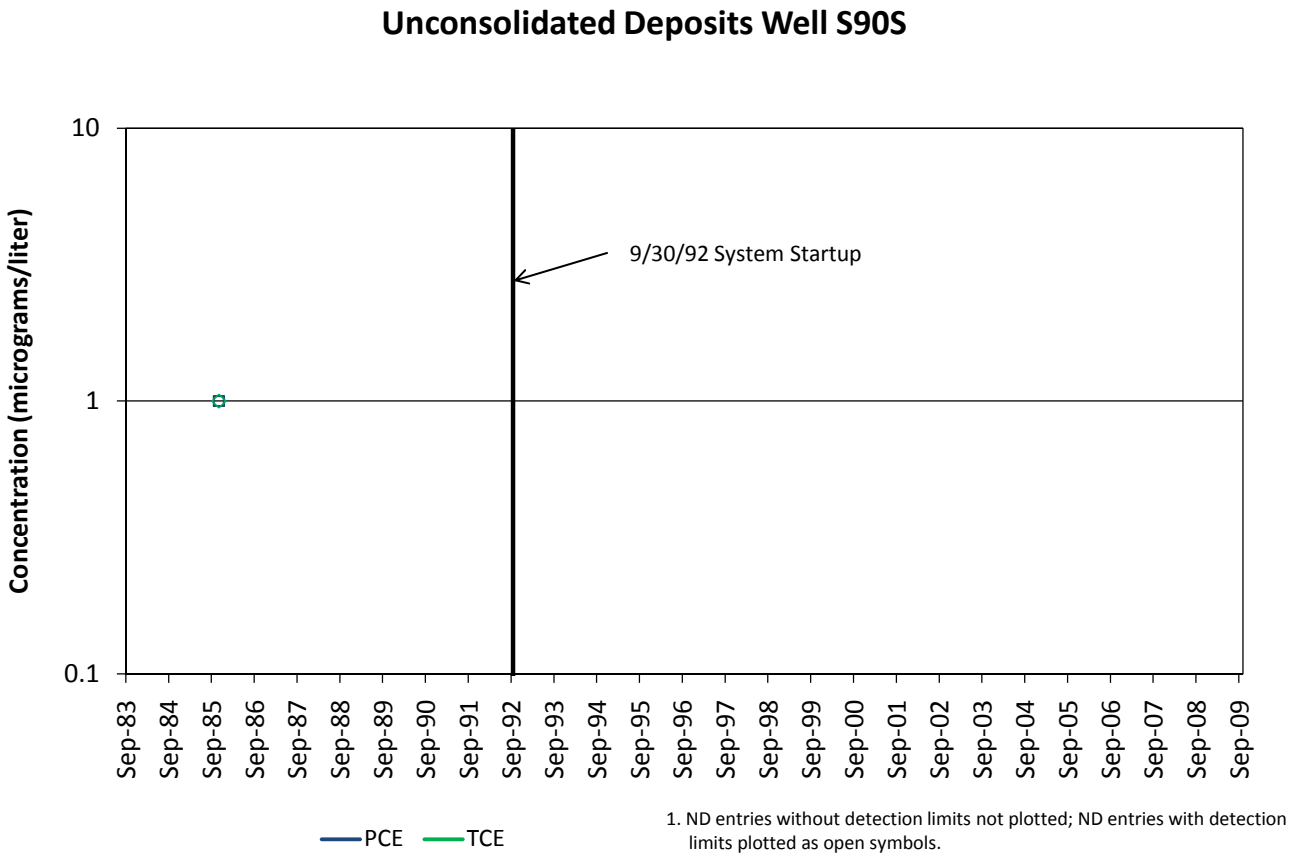
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



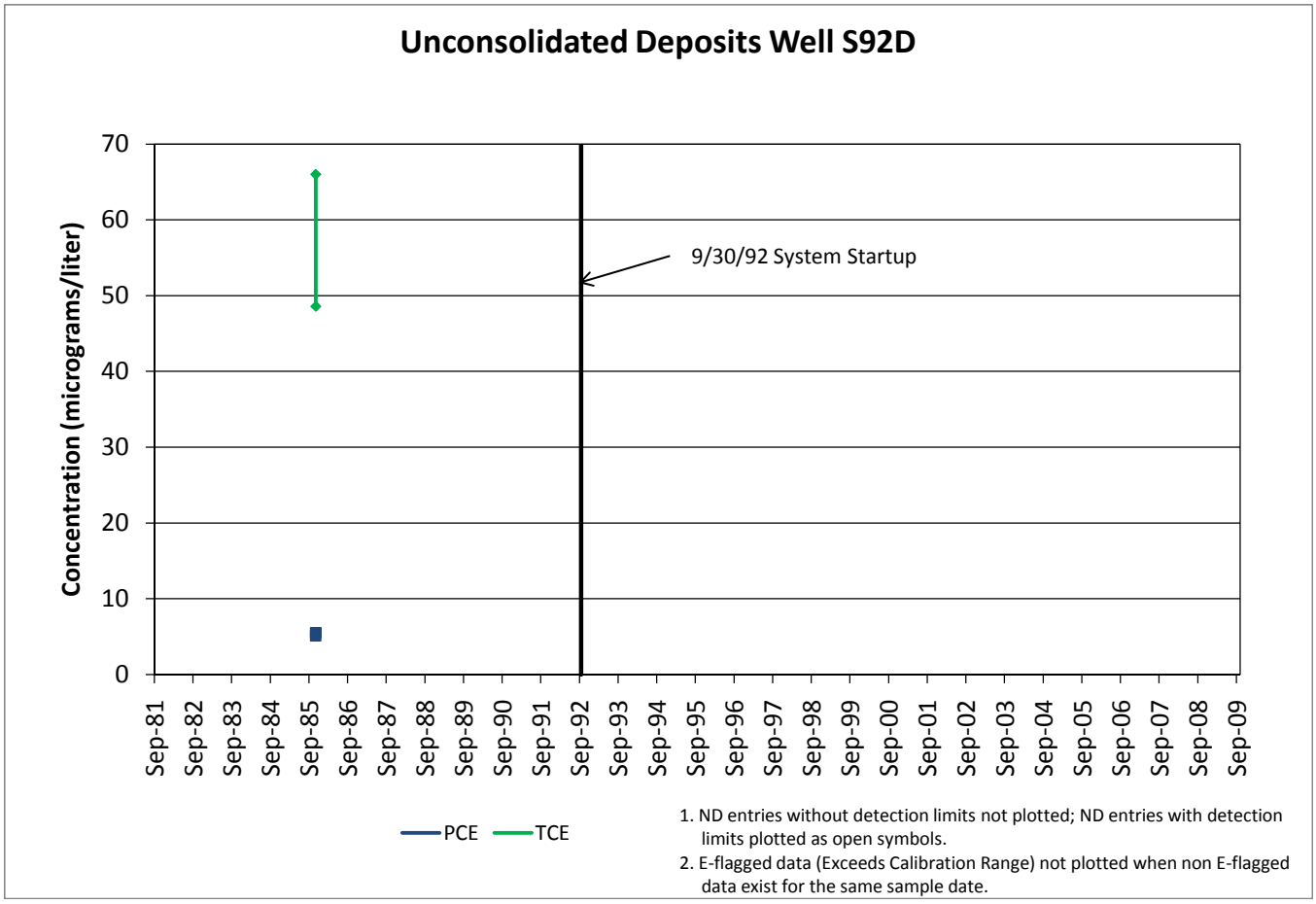
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

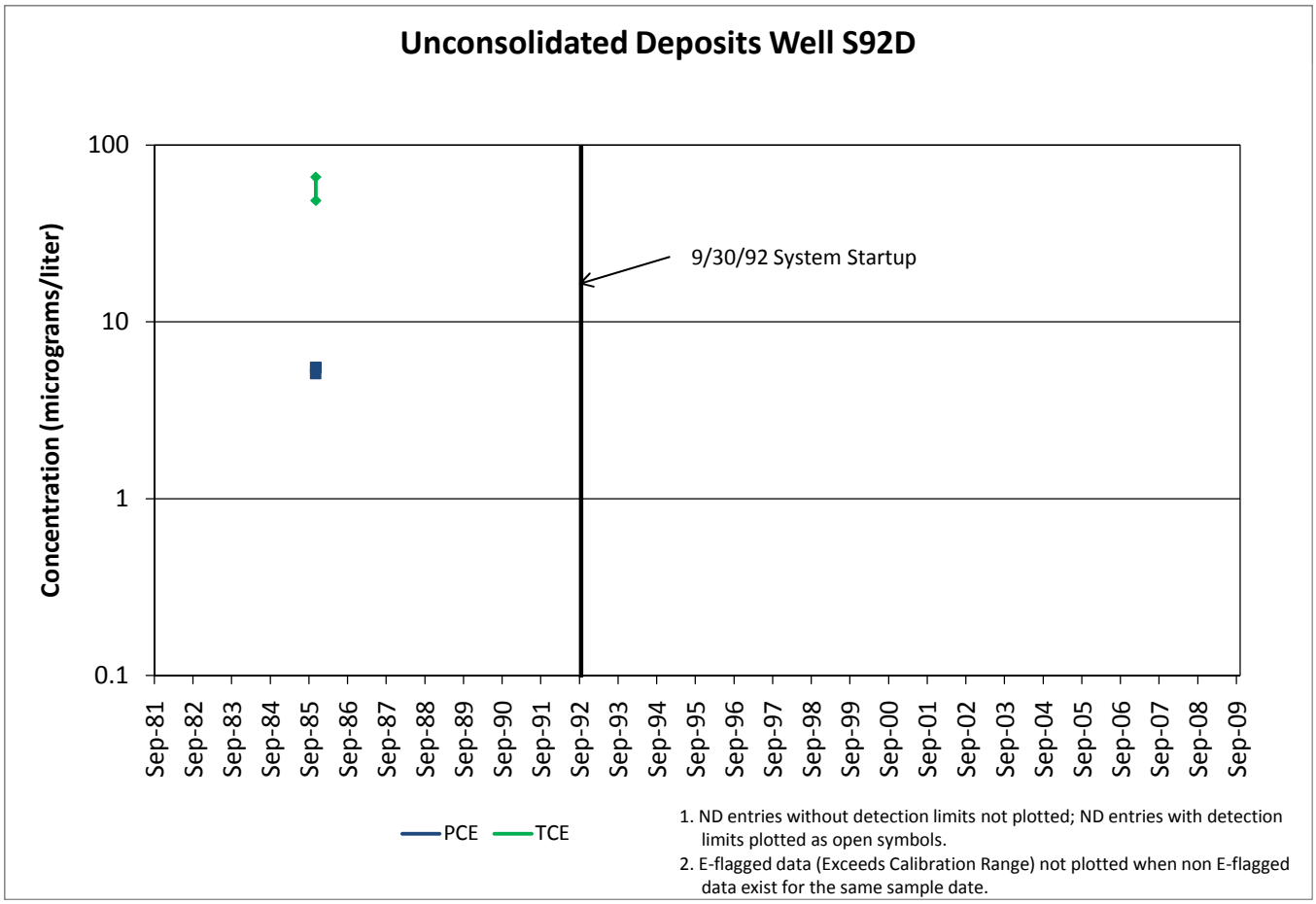


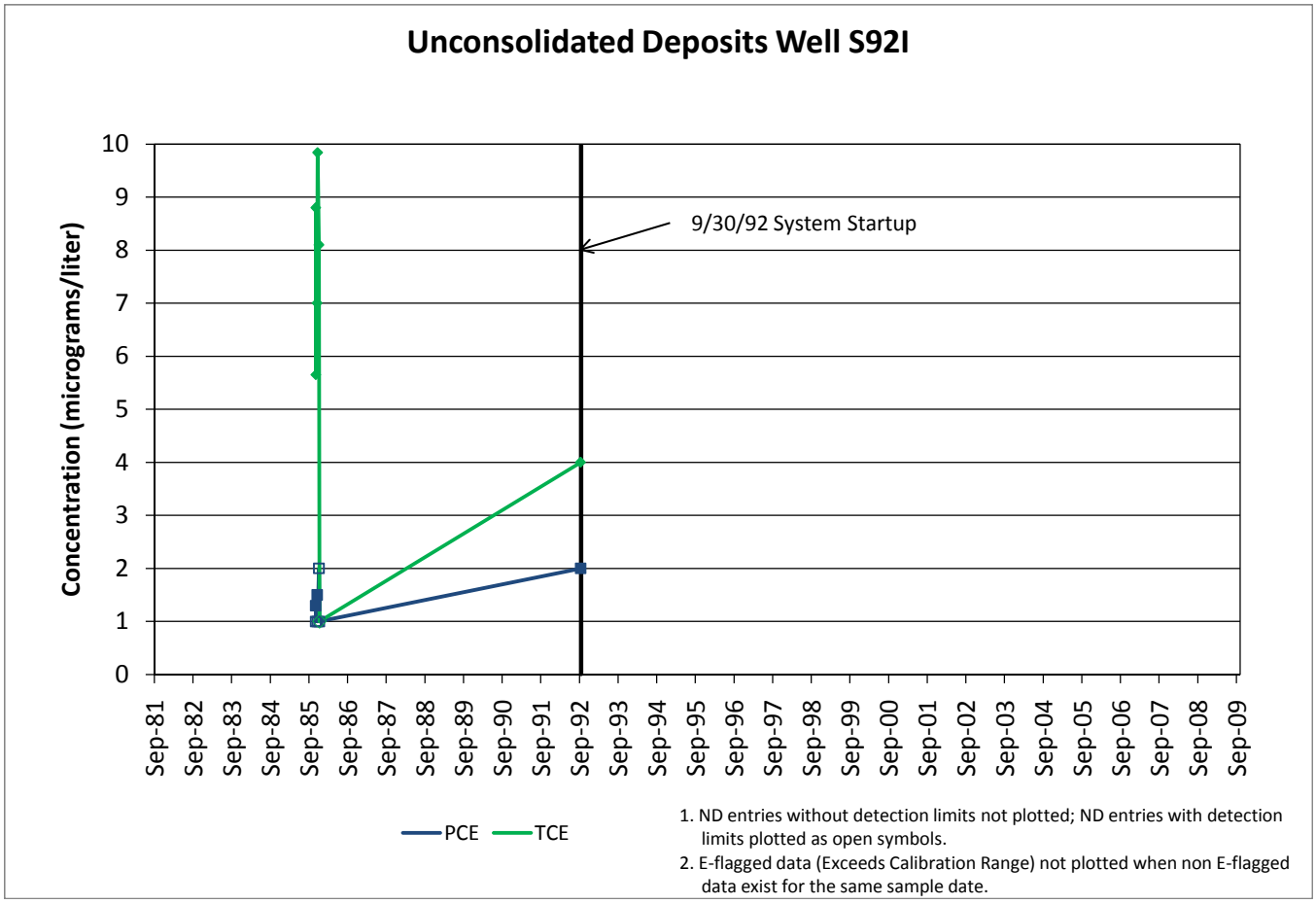
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

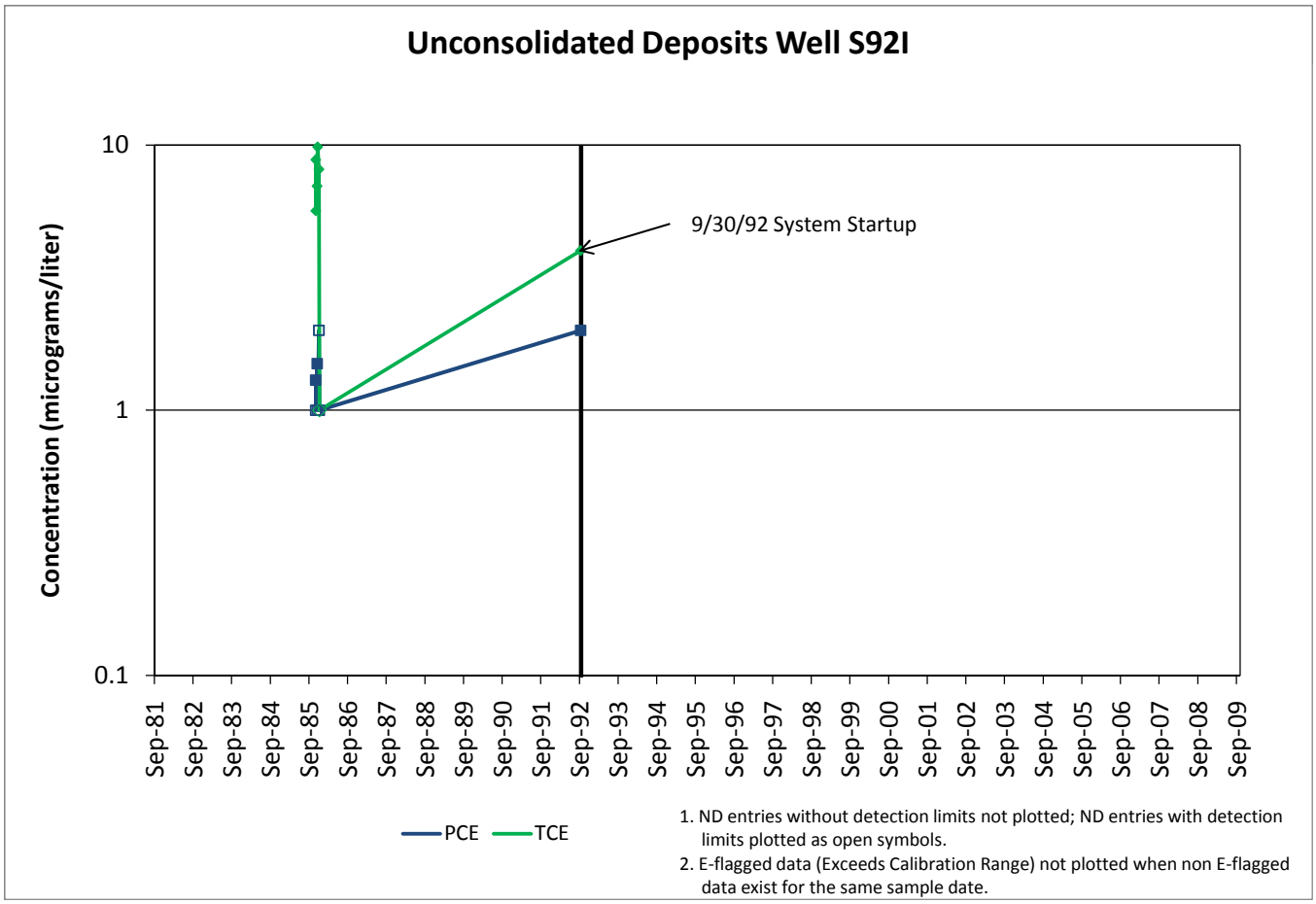


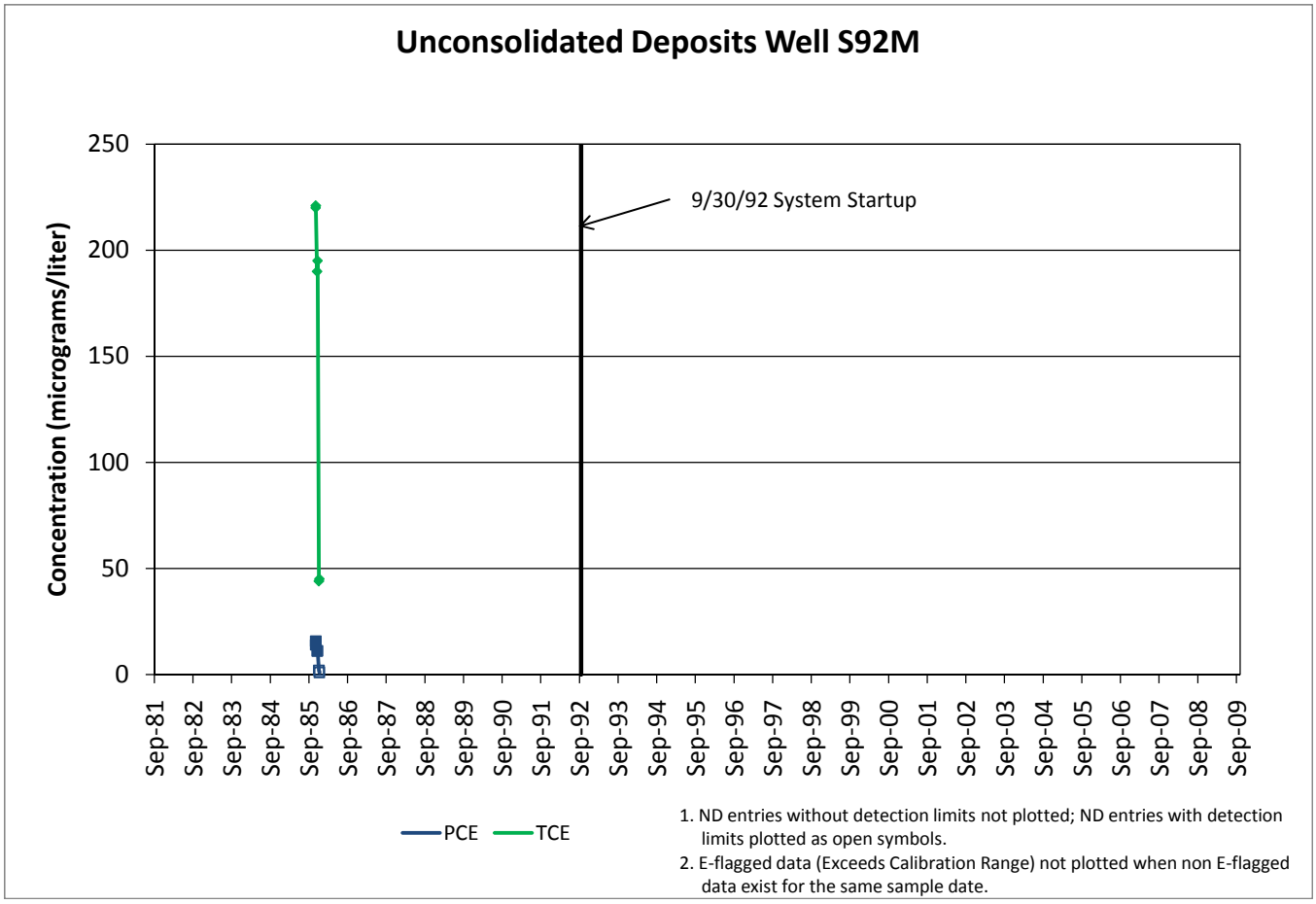
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

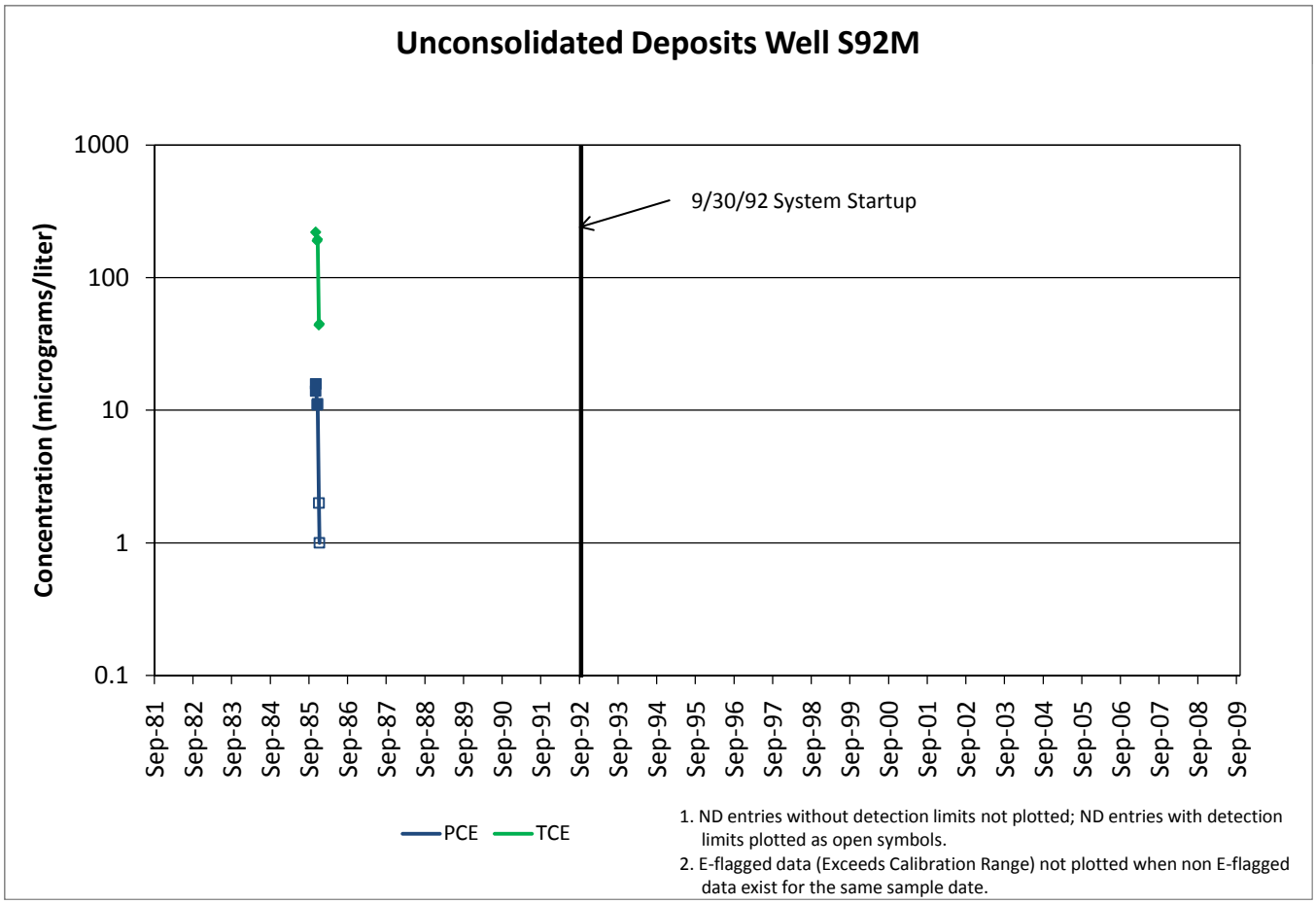

Unconsolidated Deposits Well S92D
Concentration (micrograms/liter)
70
60
50
40
30
20
10
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

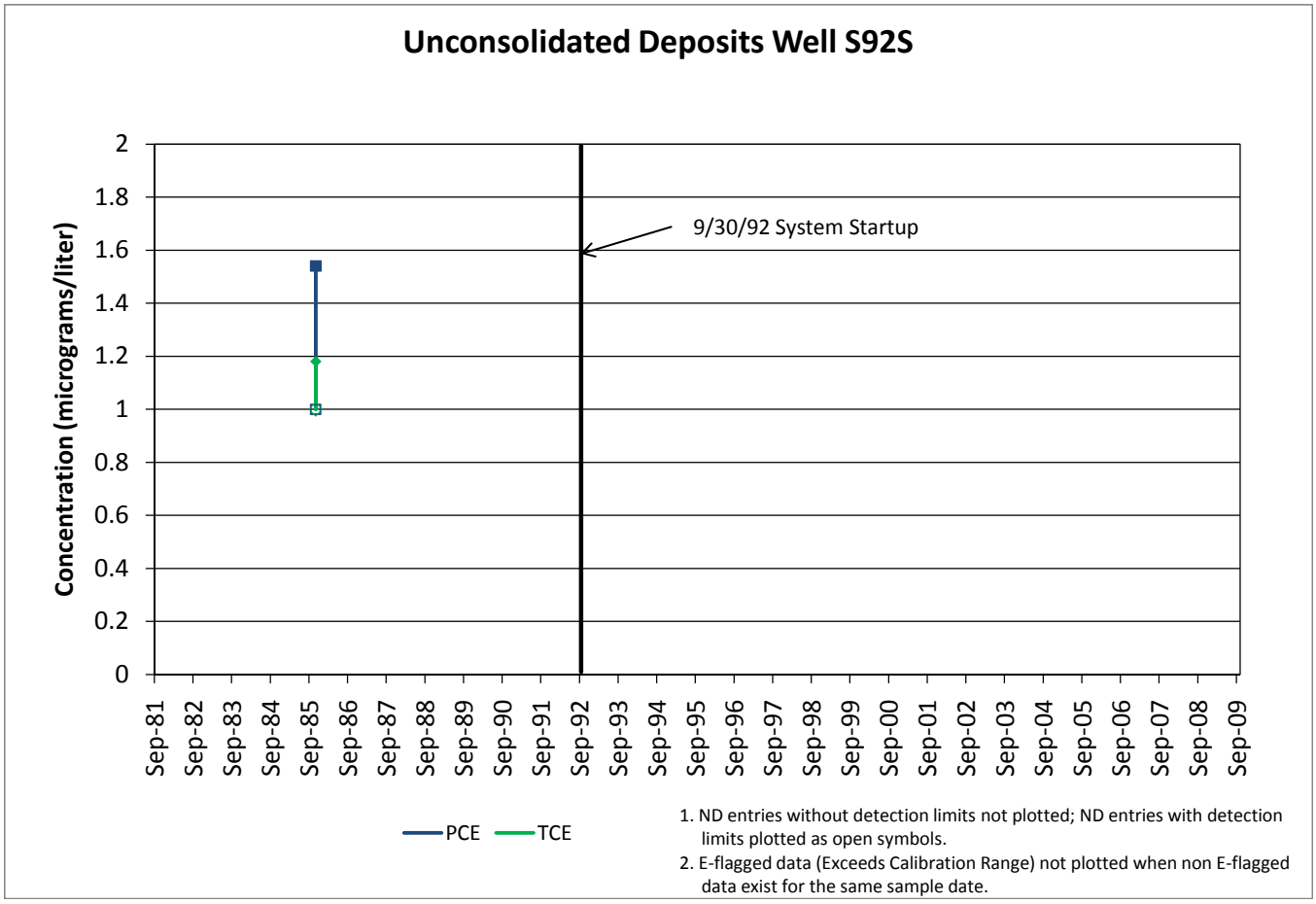

Unconsolidated Deposits Well S92D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

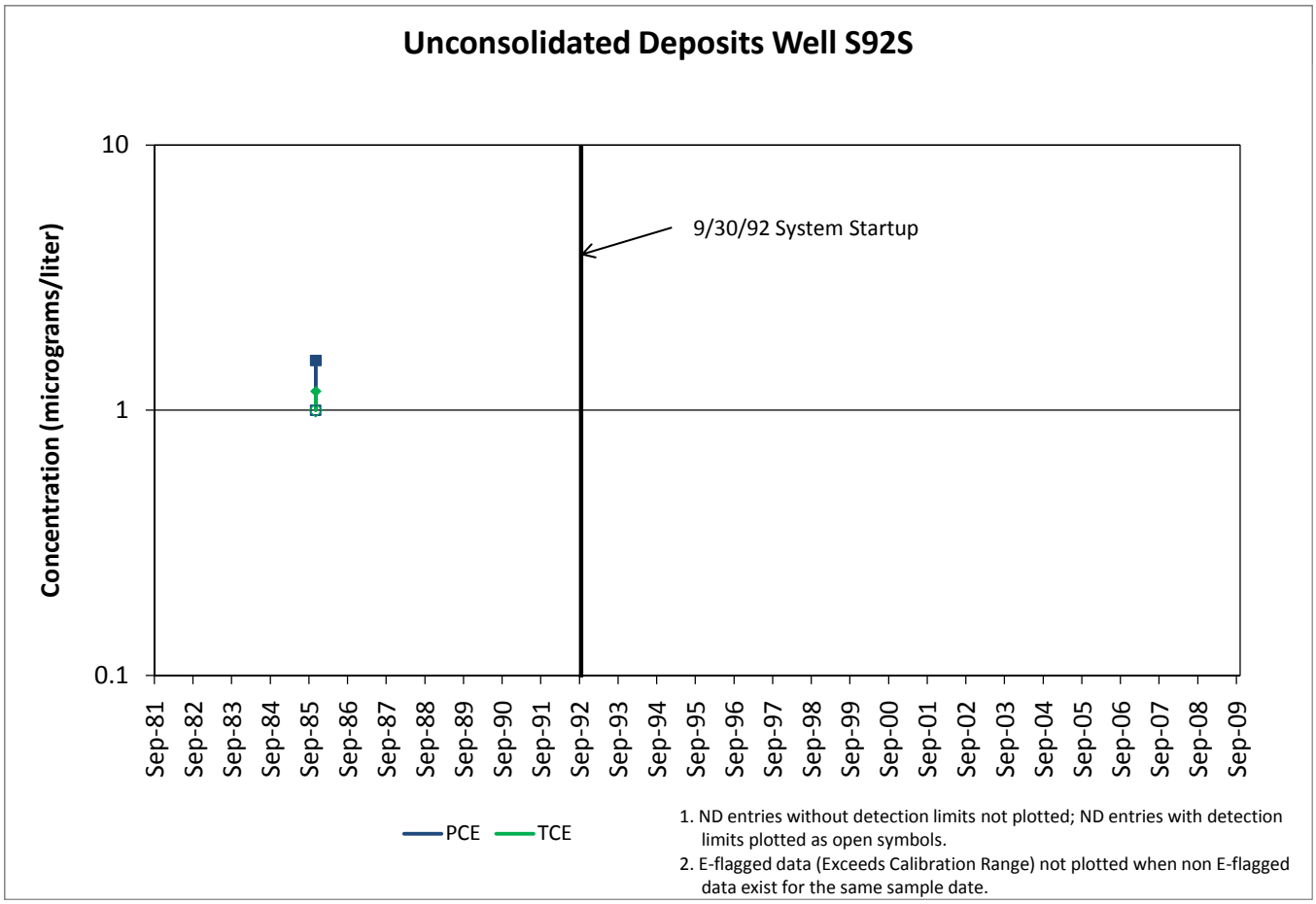

Unconsolidated Deposits Well S92I
Concentration (micrograms/liter)
10
9
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

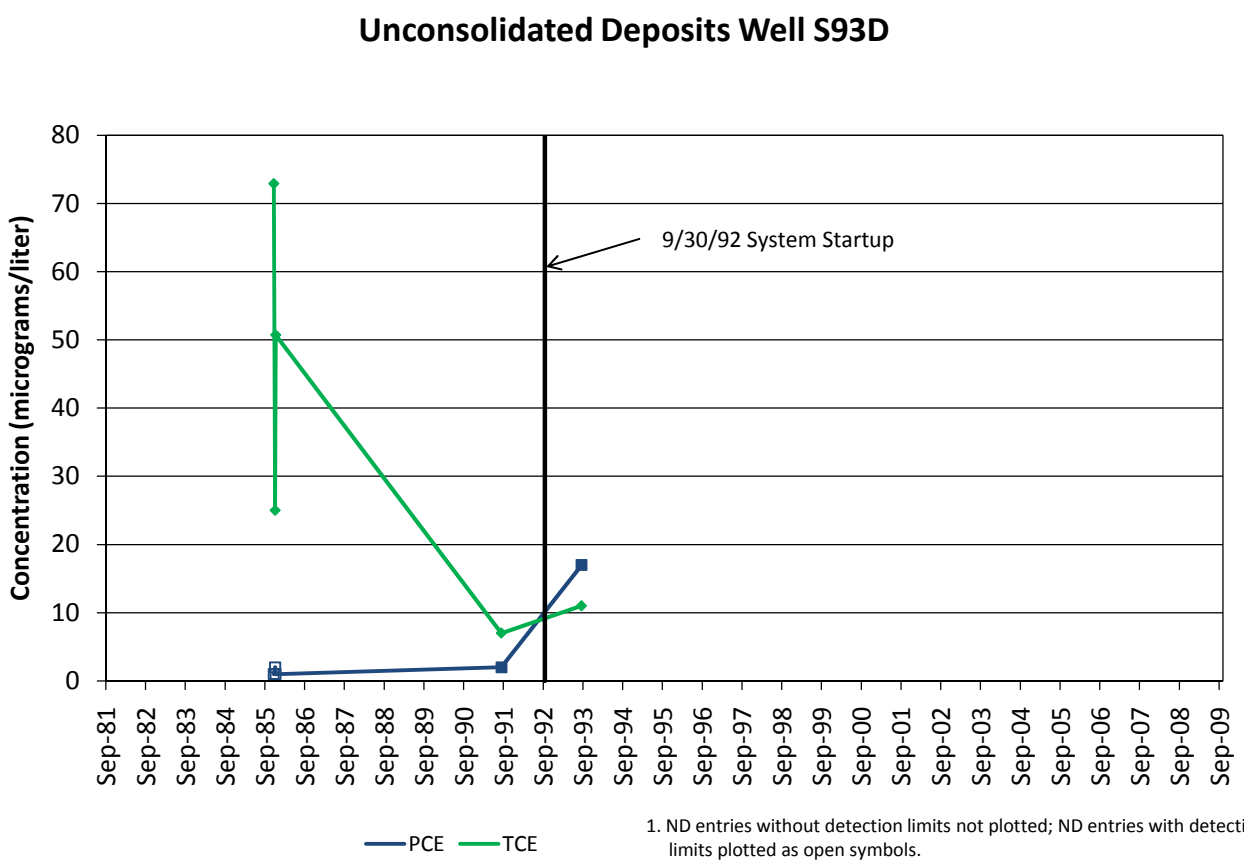

Unconsolidated Deposits Well S92I
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S92M
Concentration (micrograms/liter)
250
200
150
100
50
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

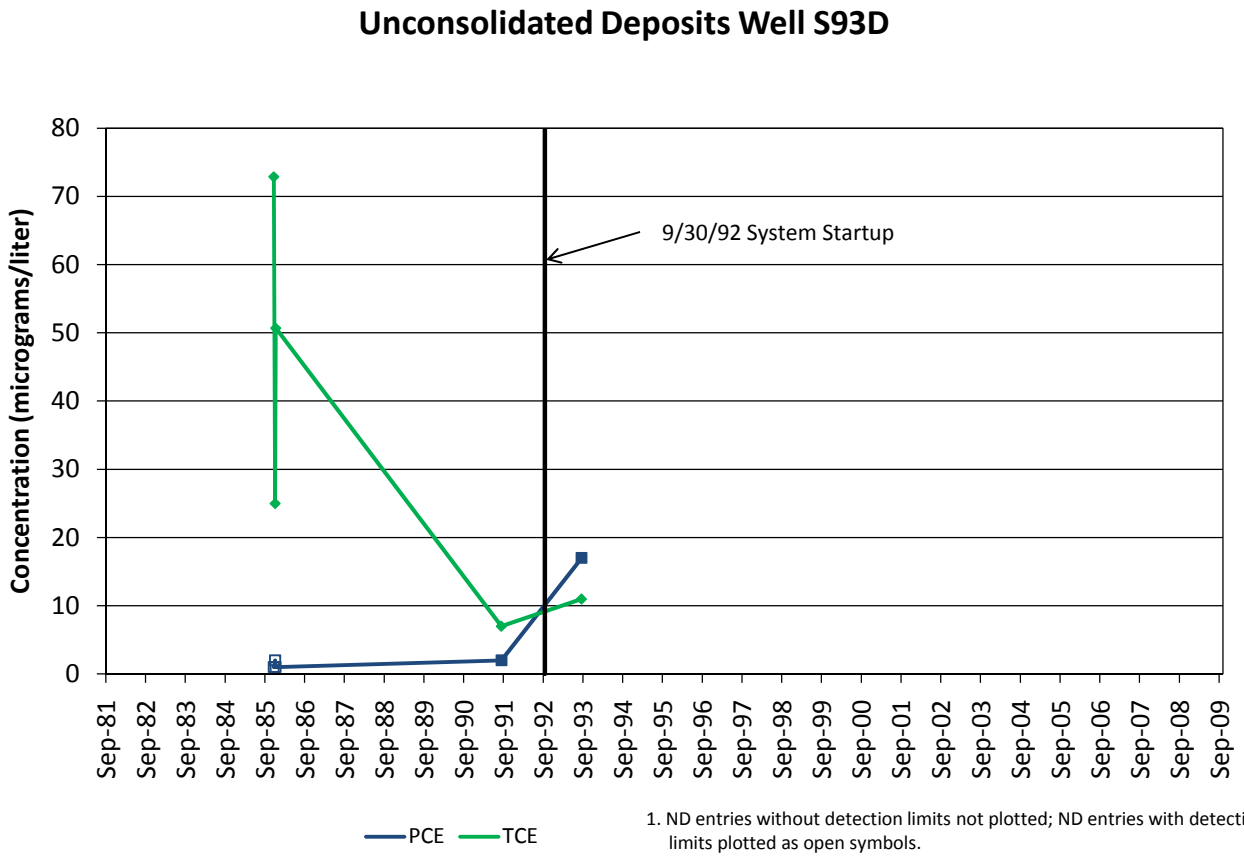

Unconsolidated Deposits Well S92M
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S92S
Concentration (micrograms/liter)
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

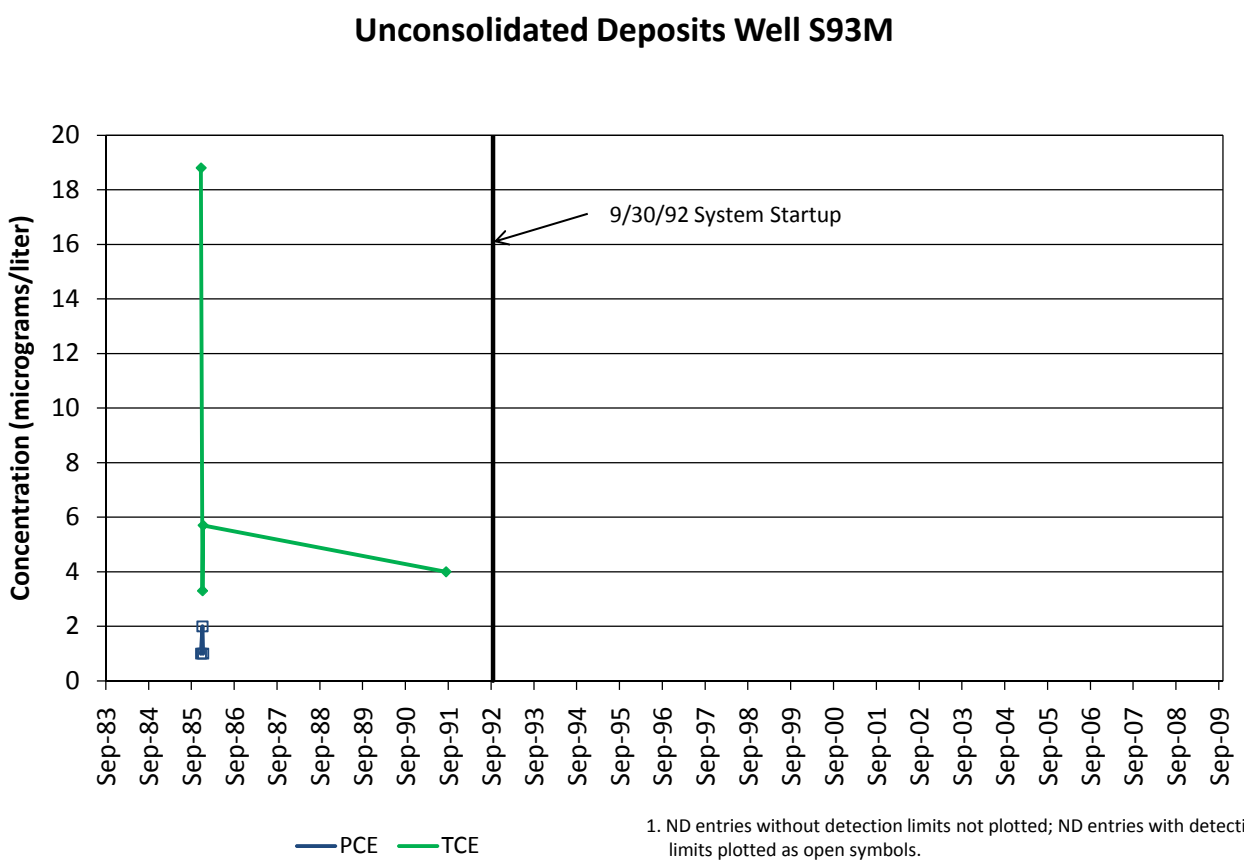

Unconsolidated Deposits Well S92S
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-81
Sep-82
Sep-83
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



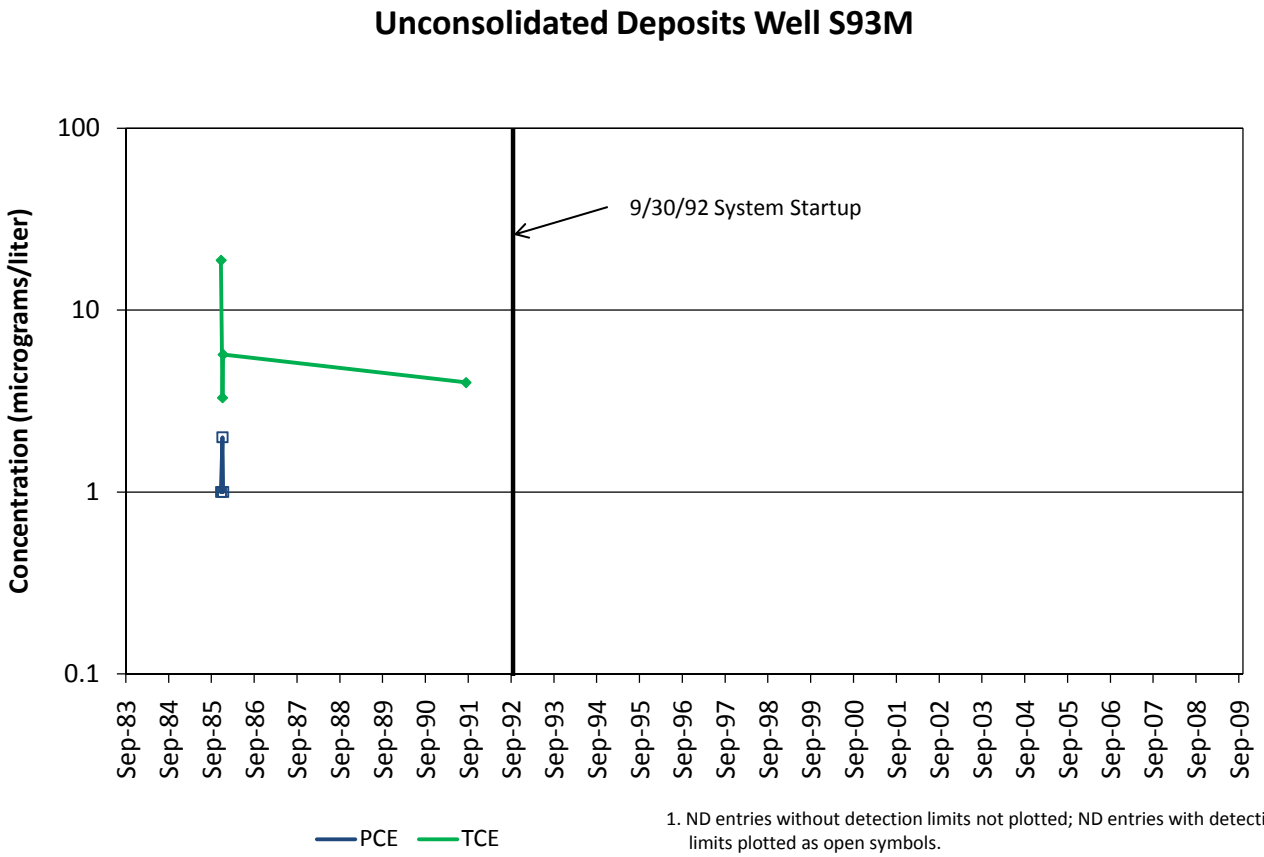
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



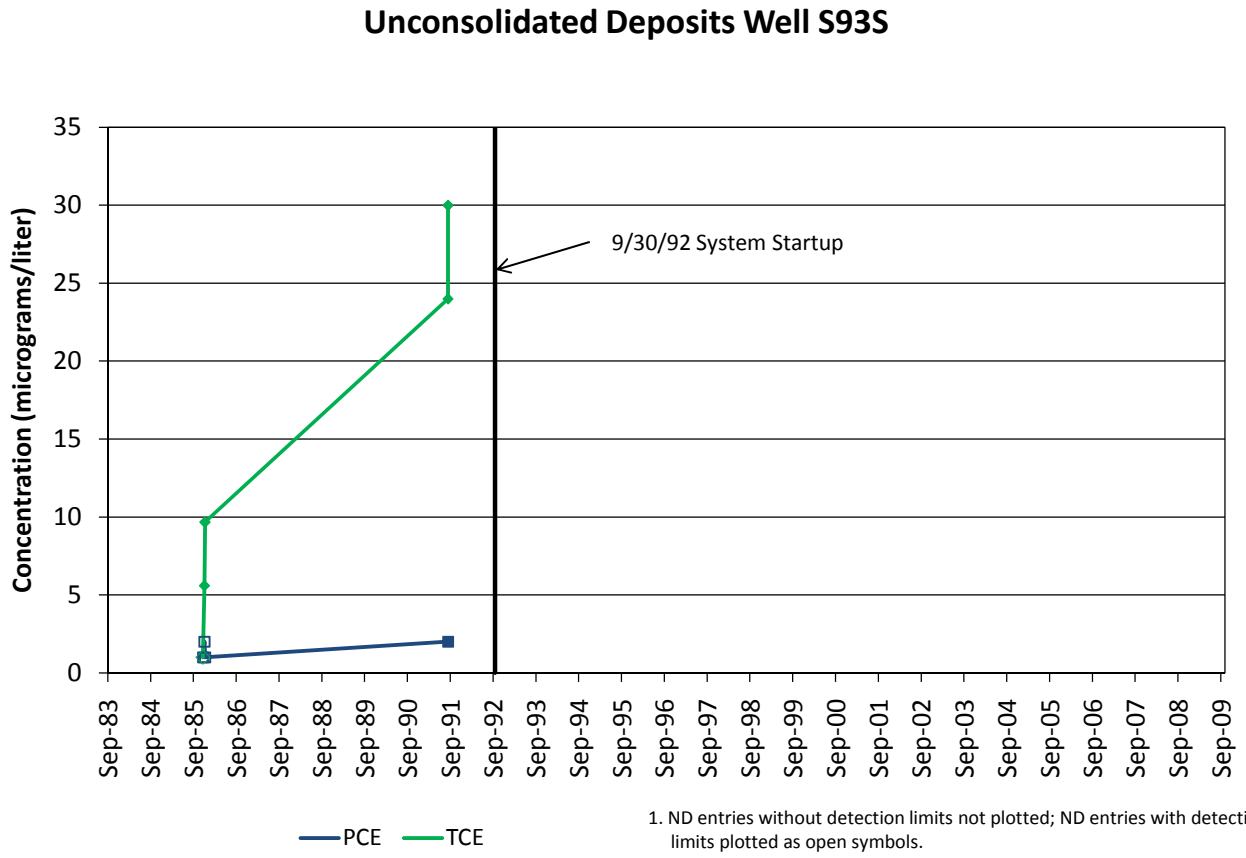
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



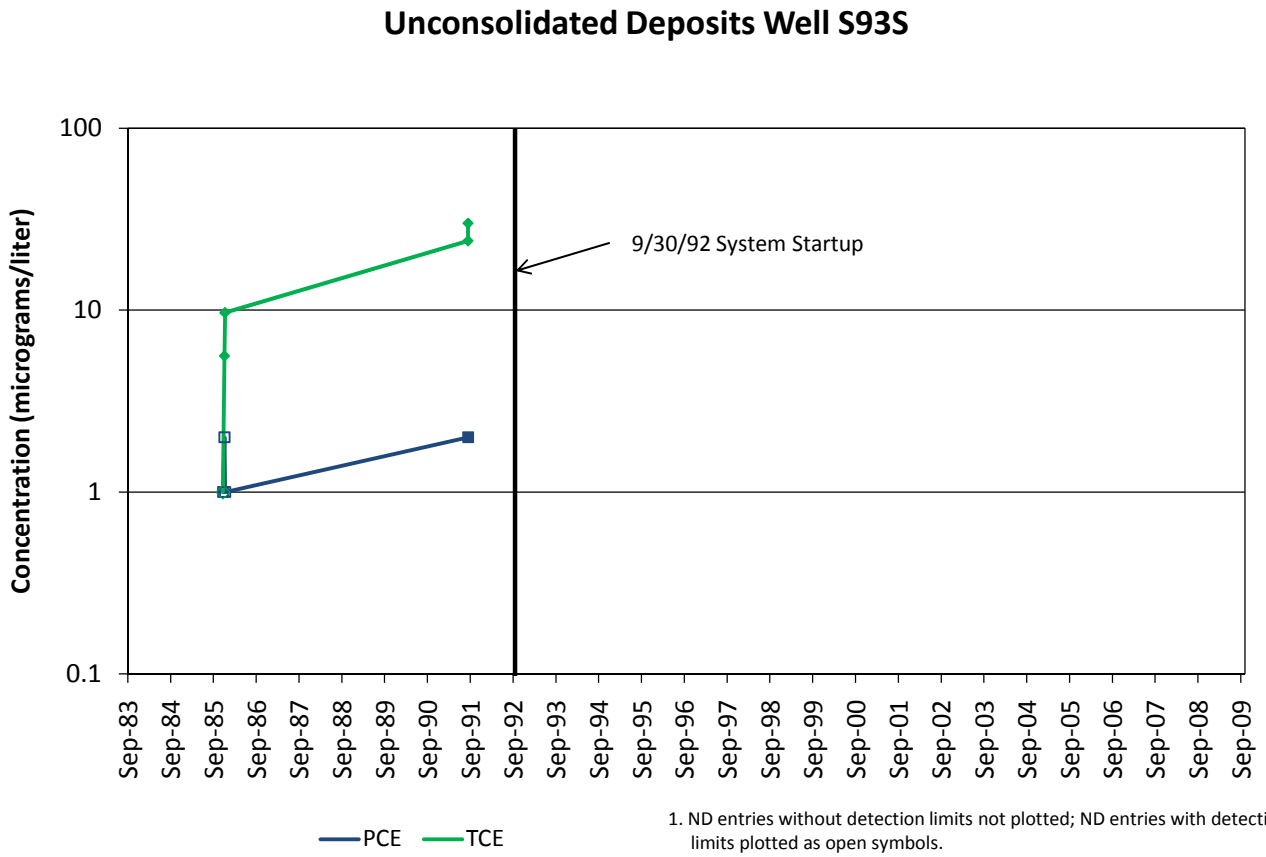
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



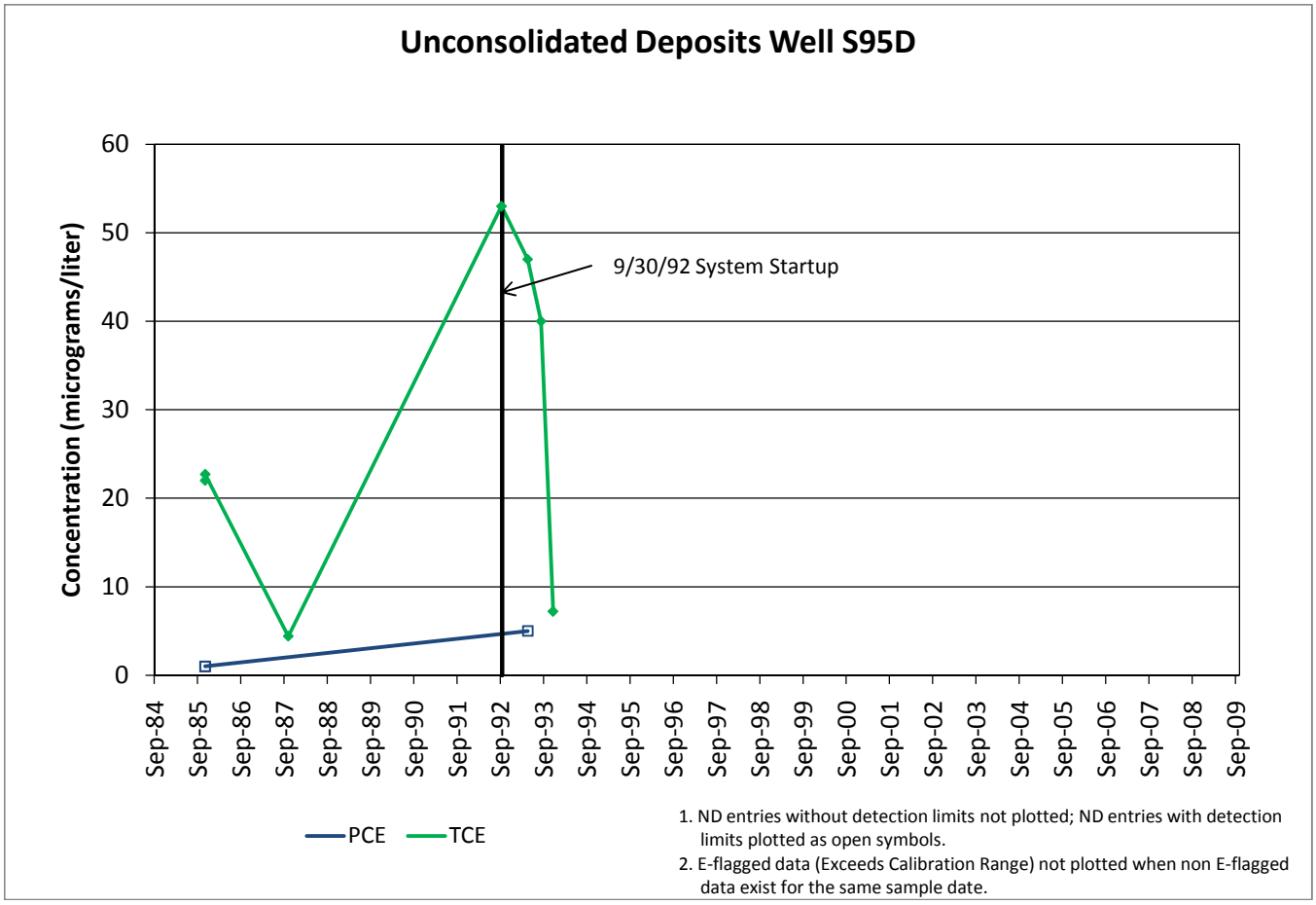
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

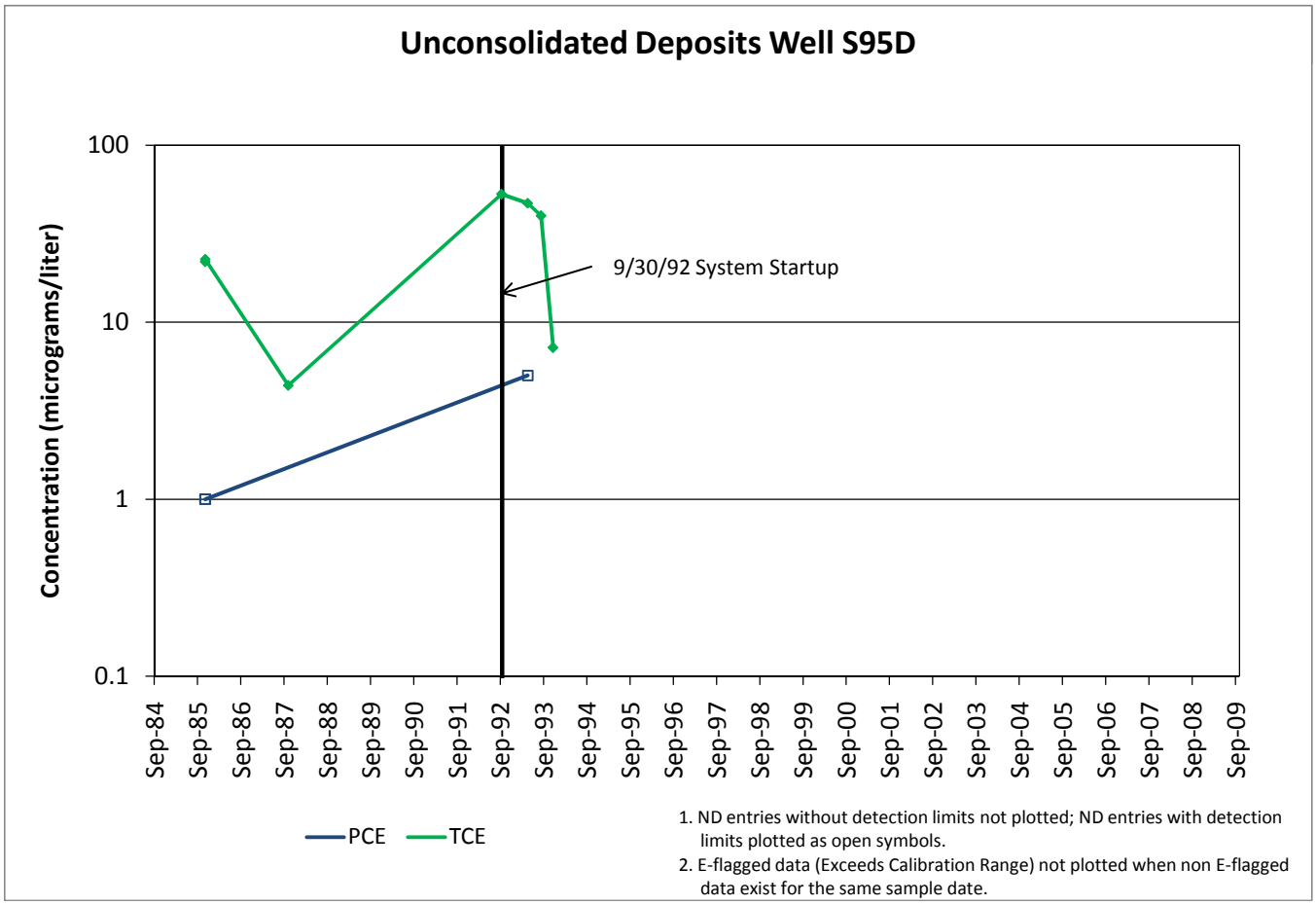


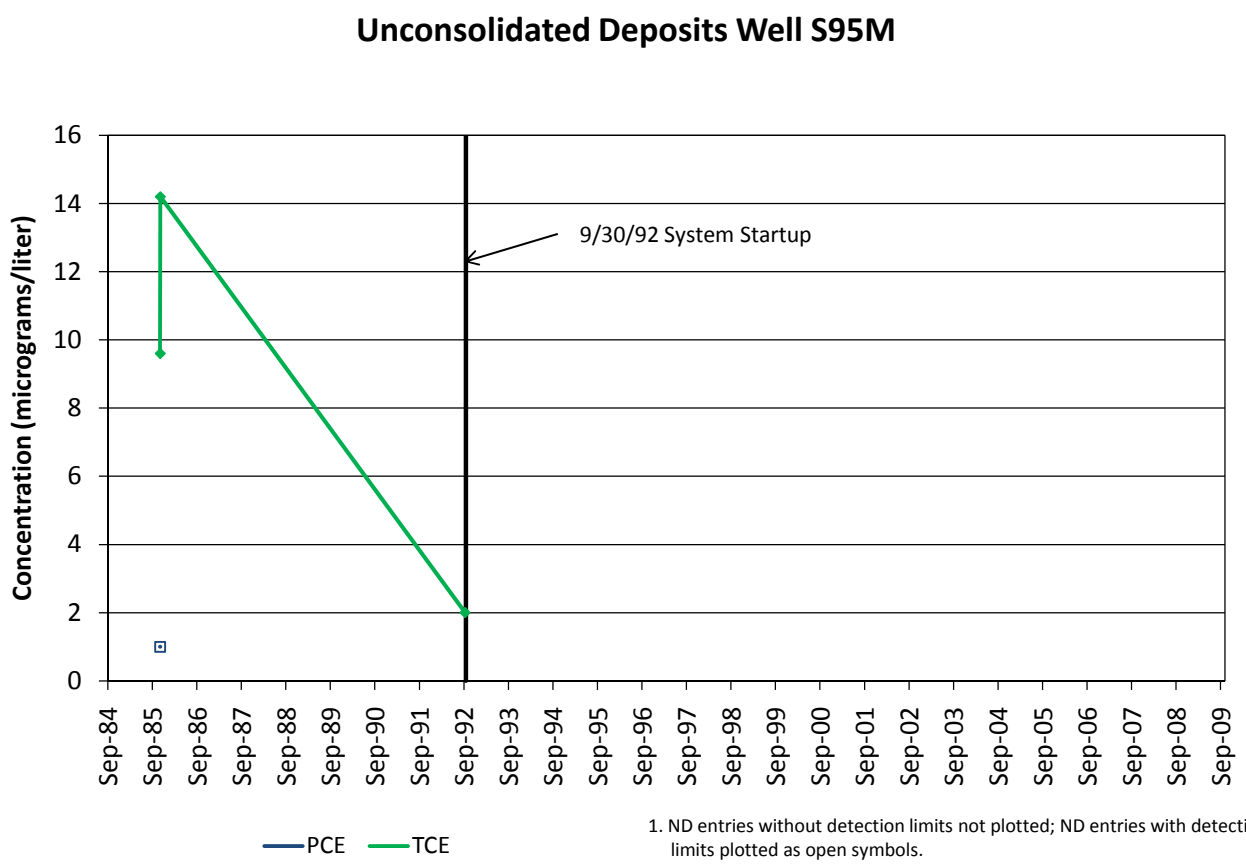
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



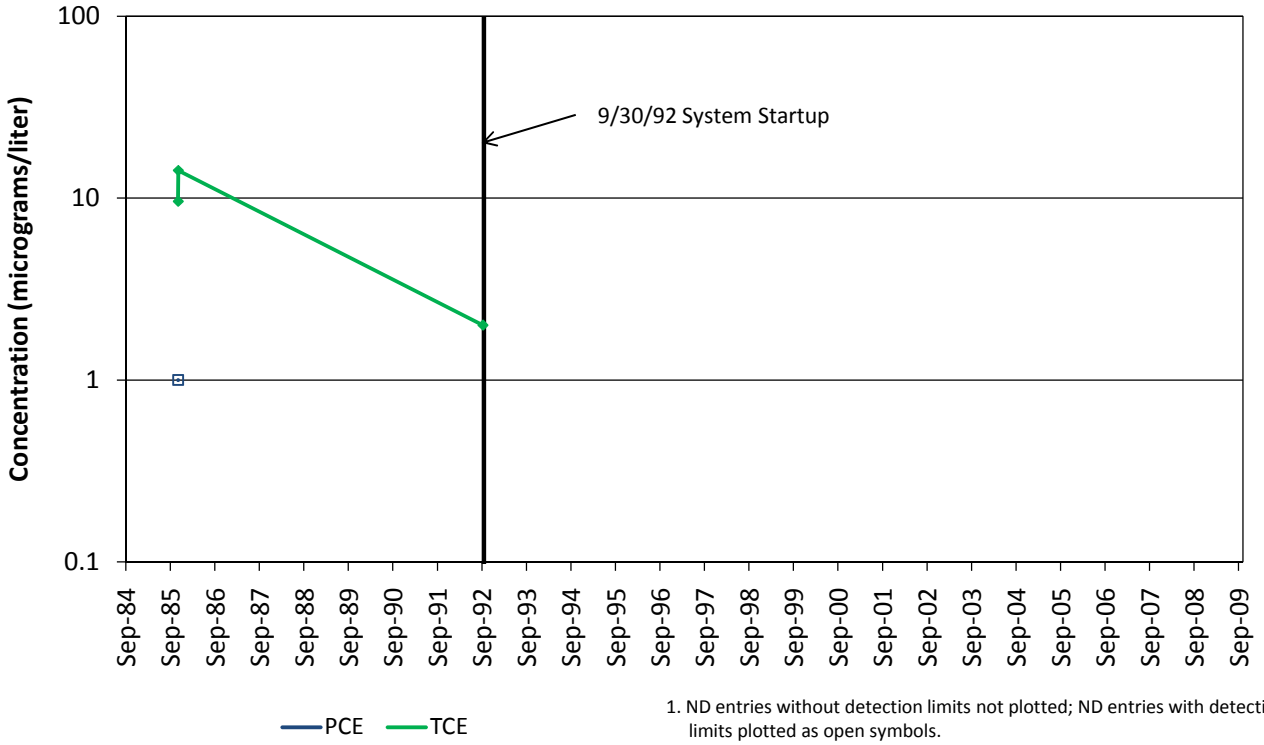
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well S95D
Concentration (micrograms/liter)
60
50
40
30
20
10
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

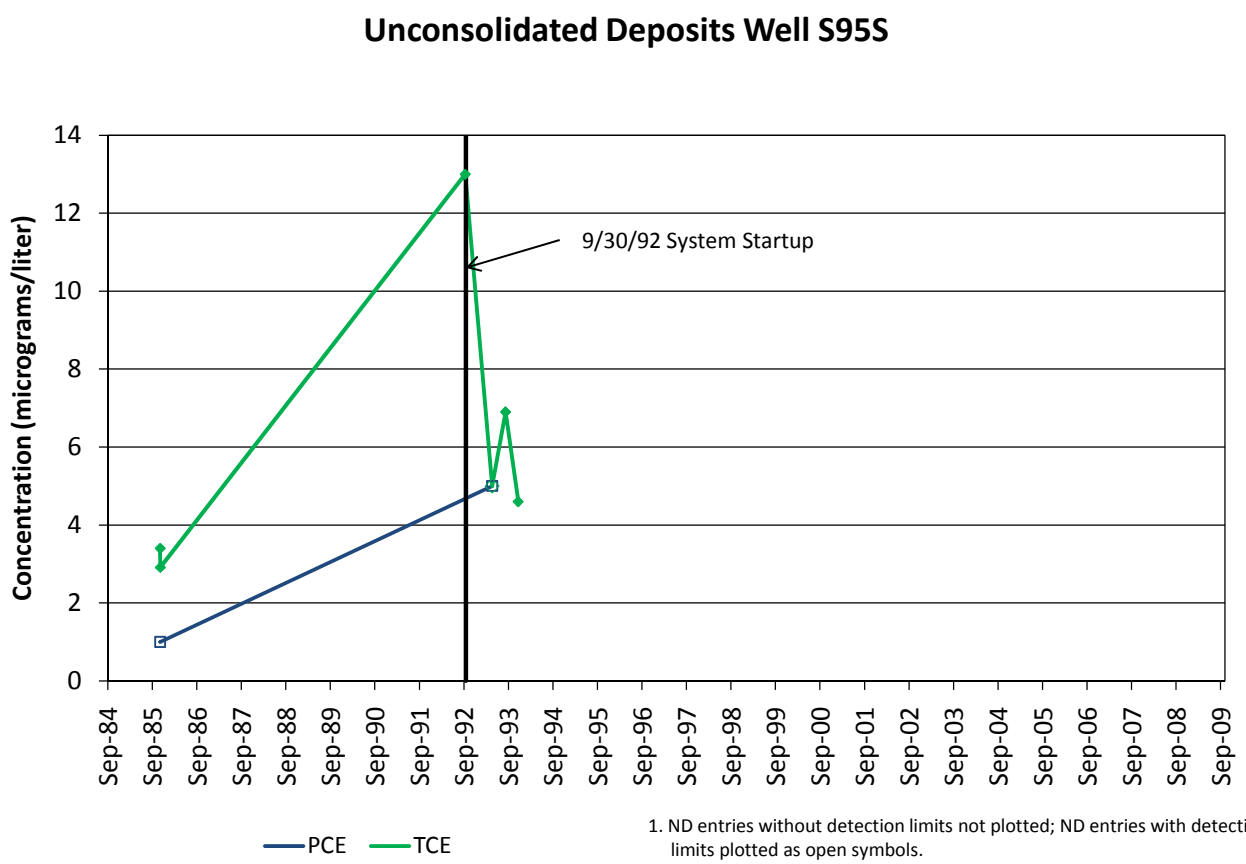

Unconsolidated Deposits Well S95D
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



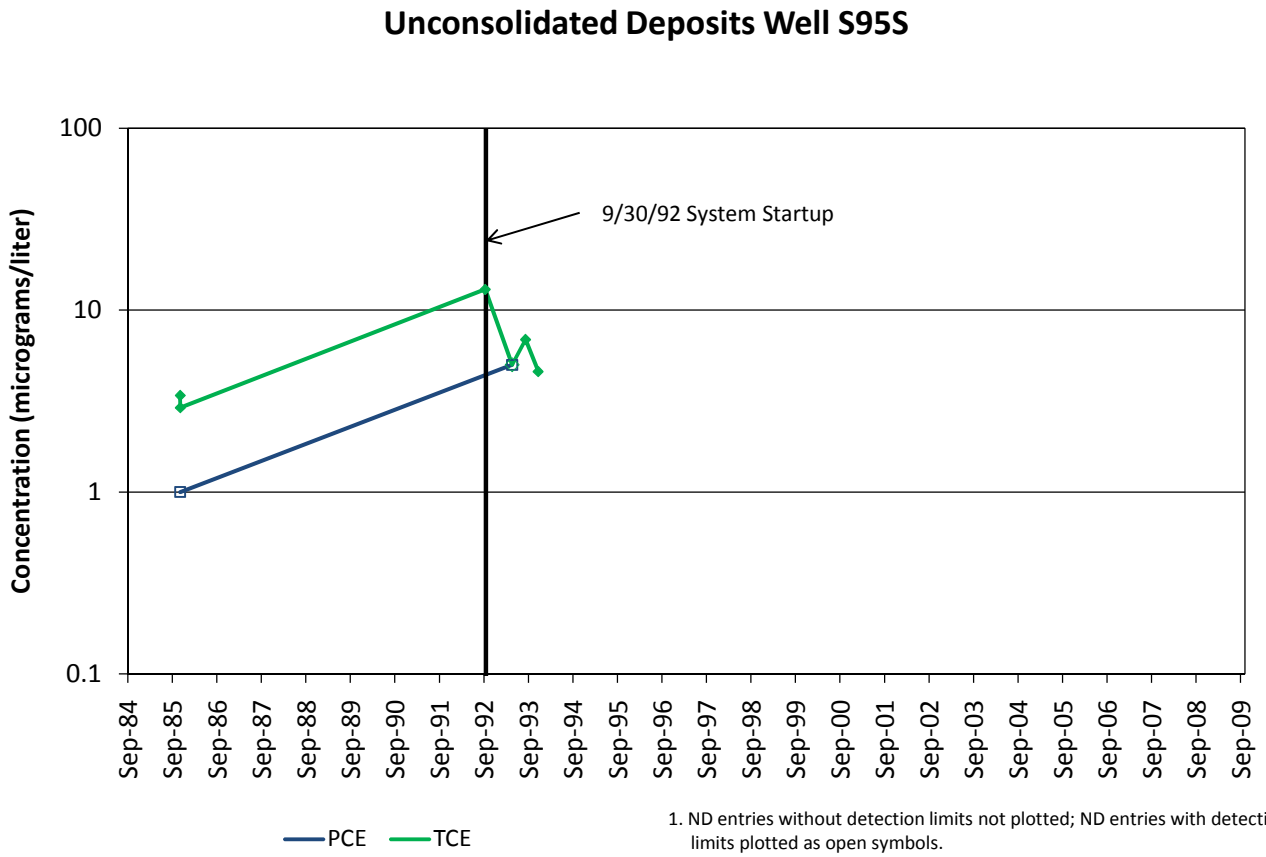
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



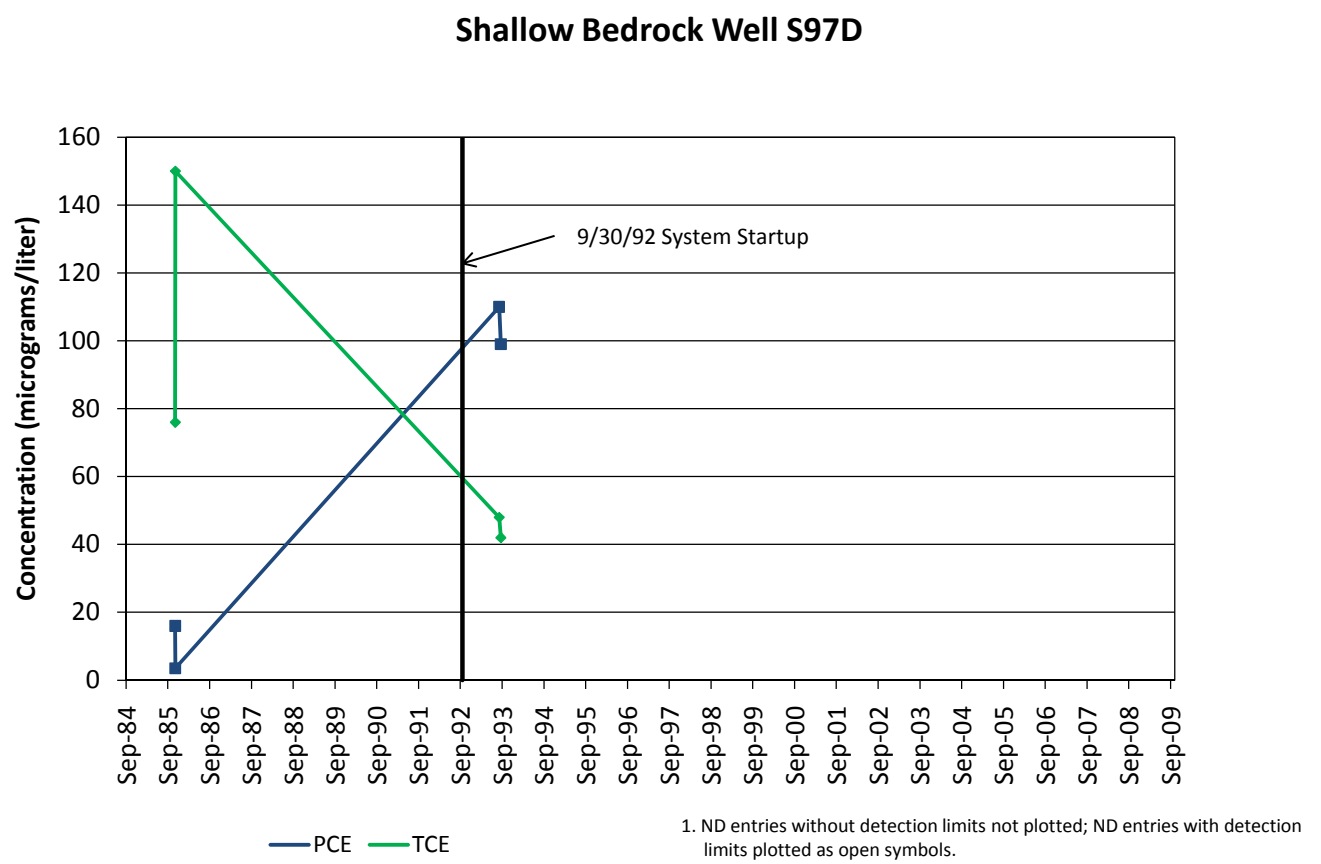
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



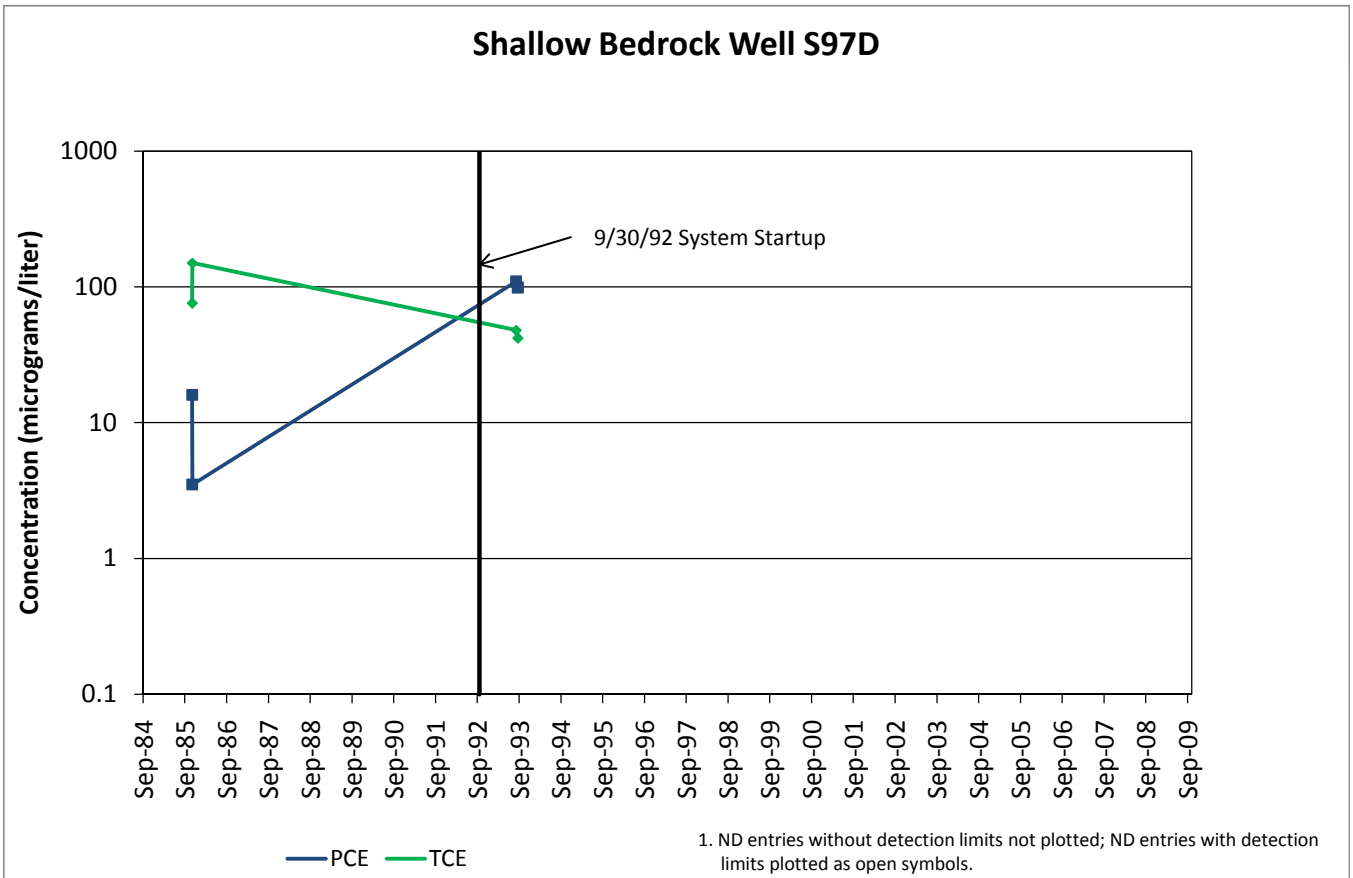
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



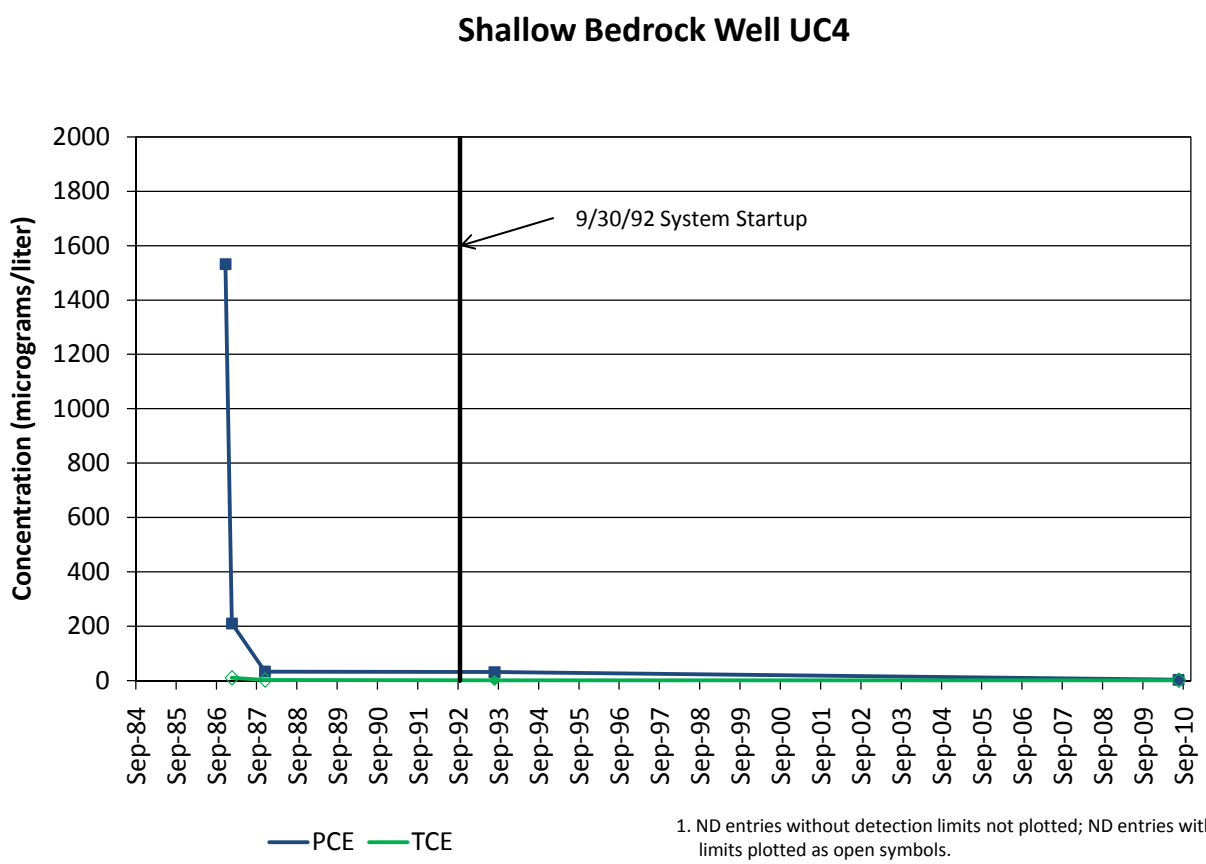
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



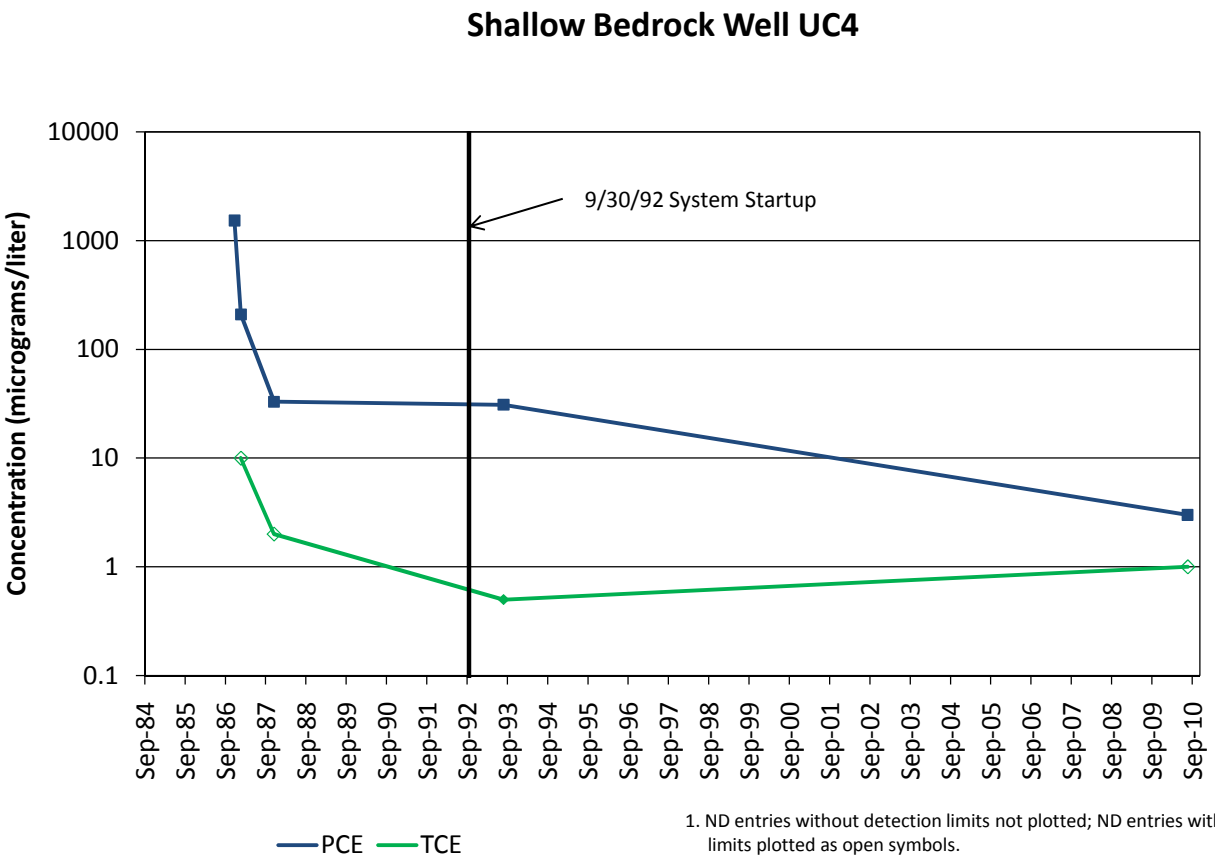
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



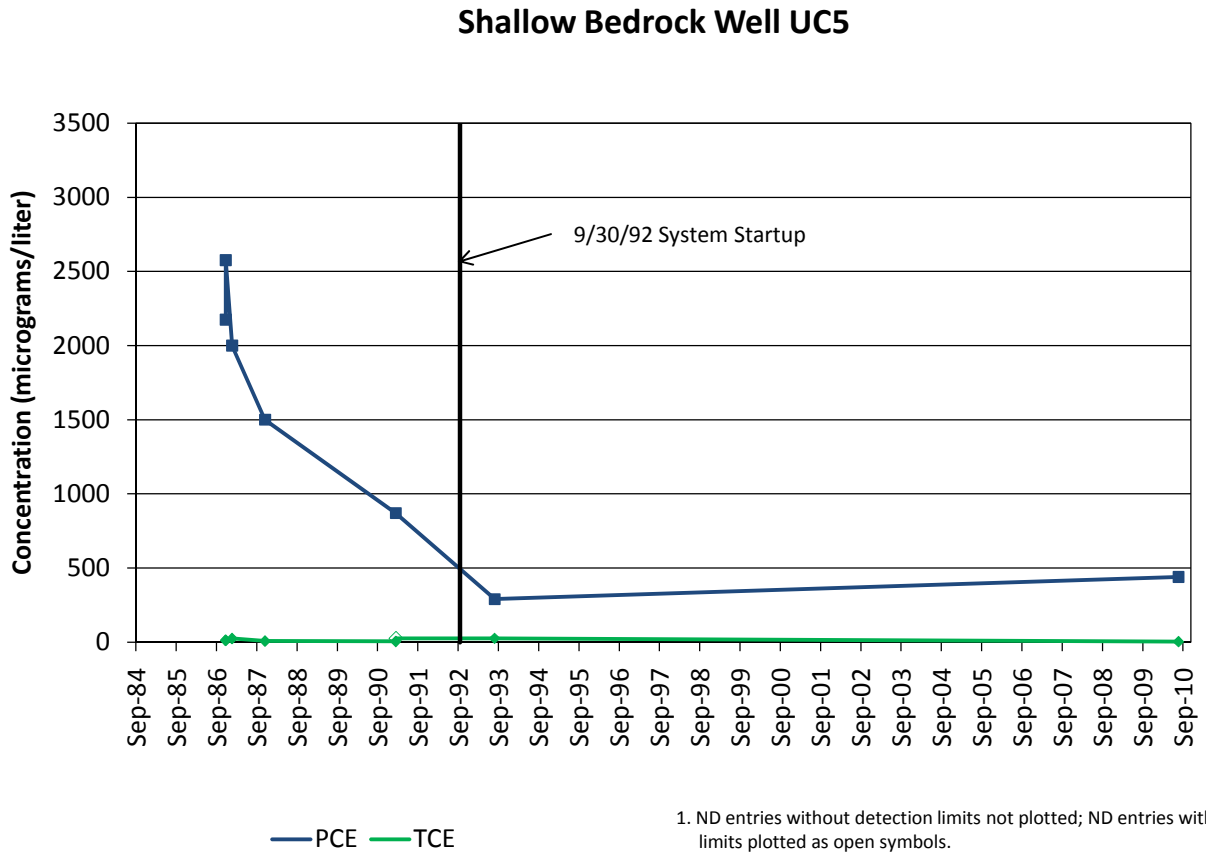
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



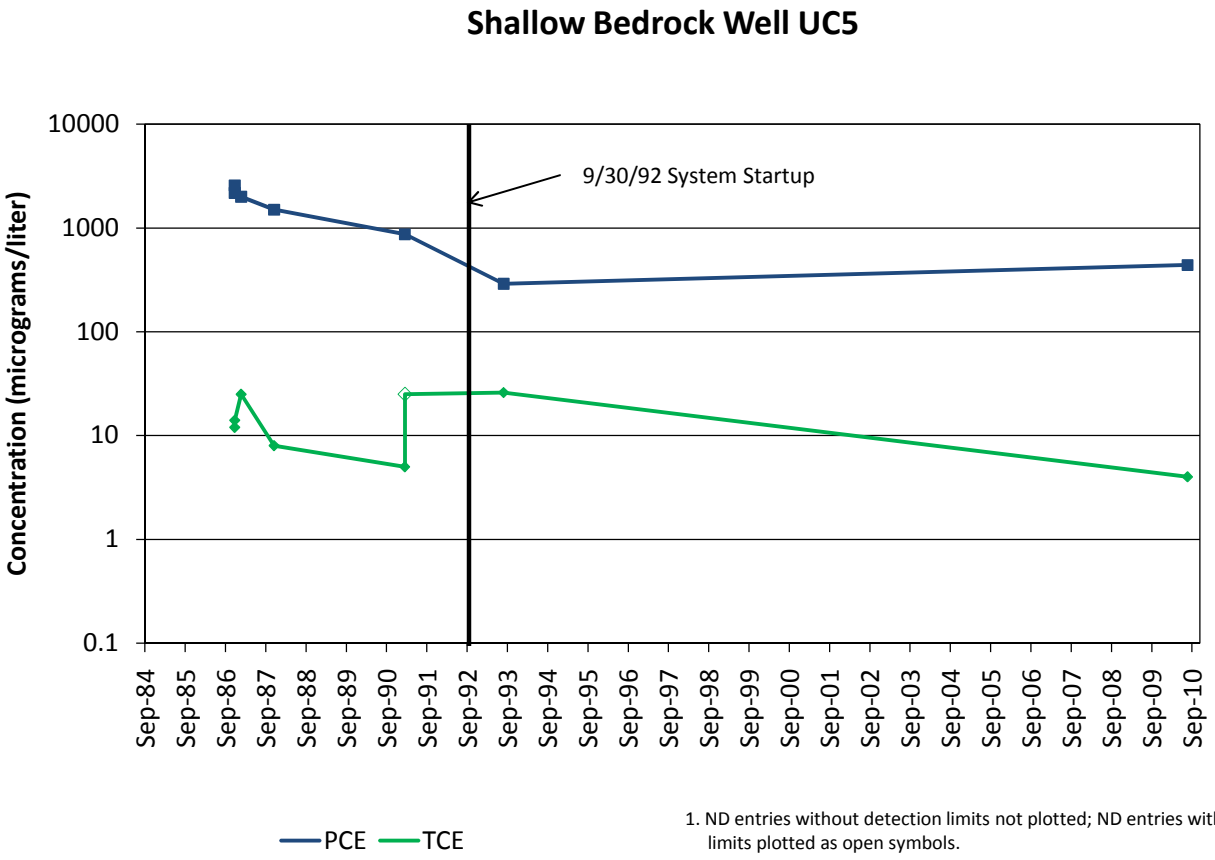
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



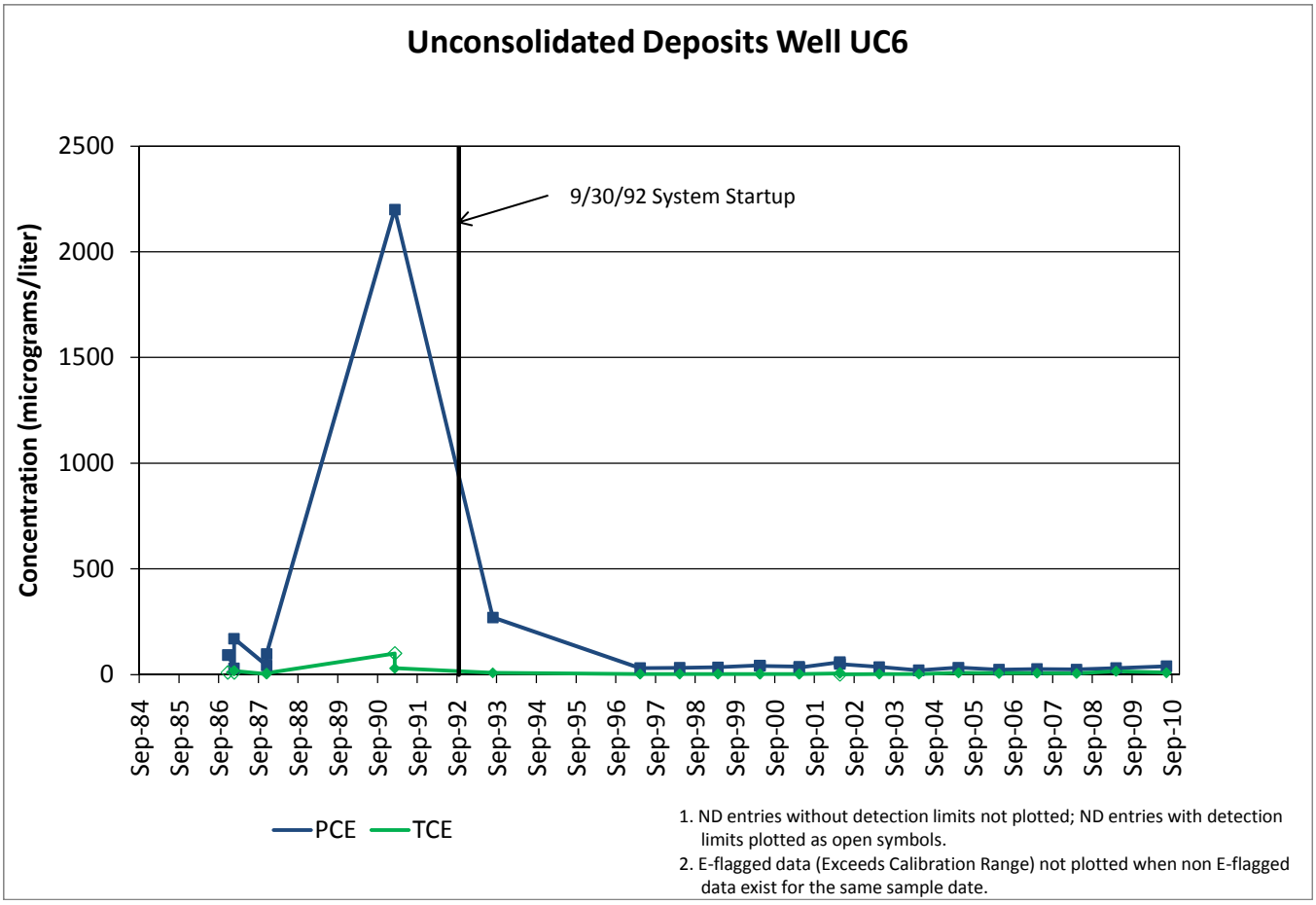
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

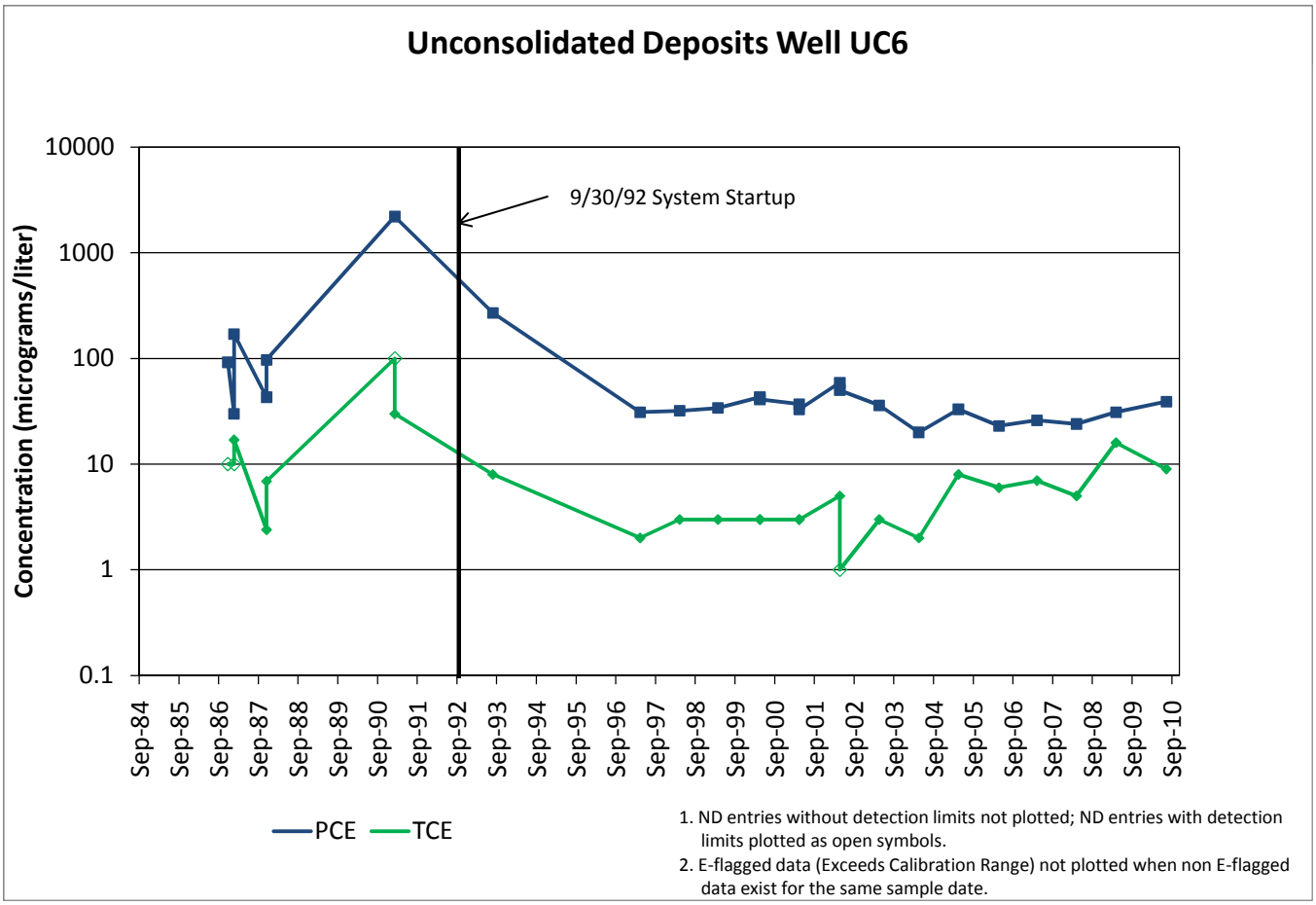


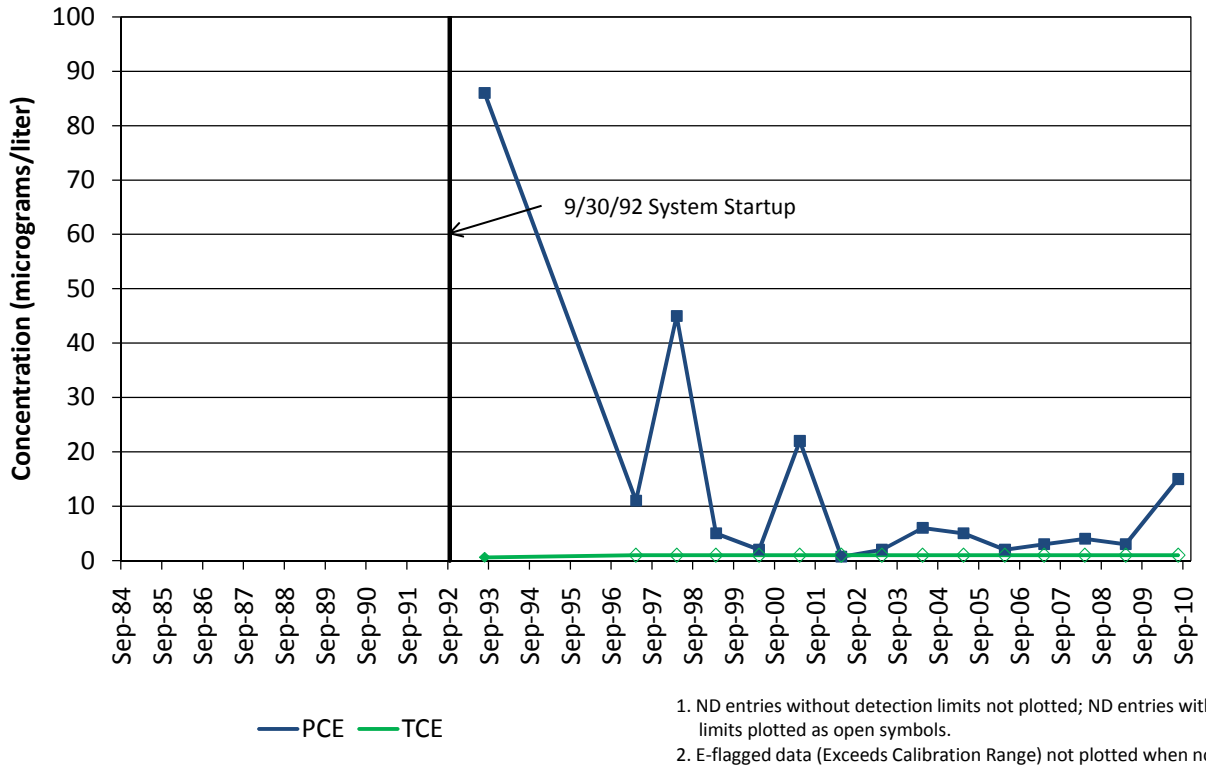
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



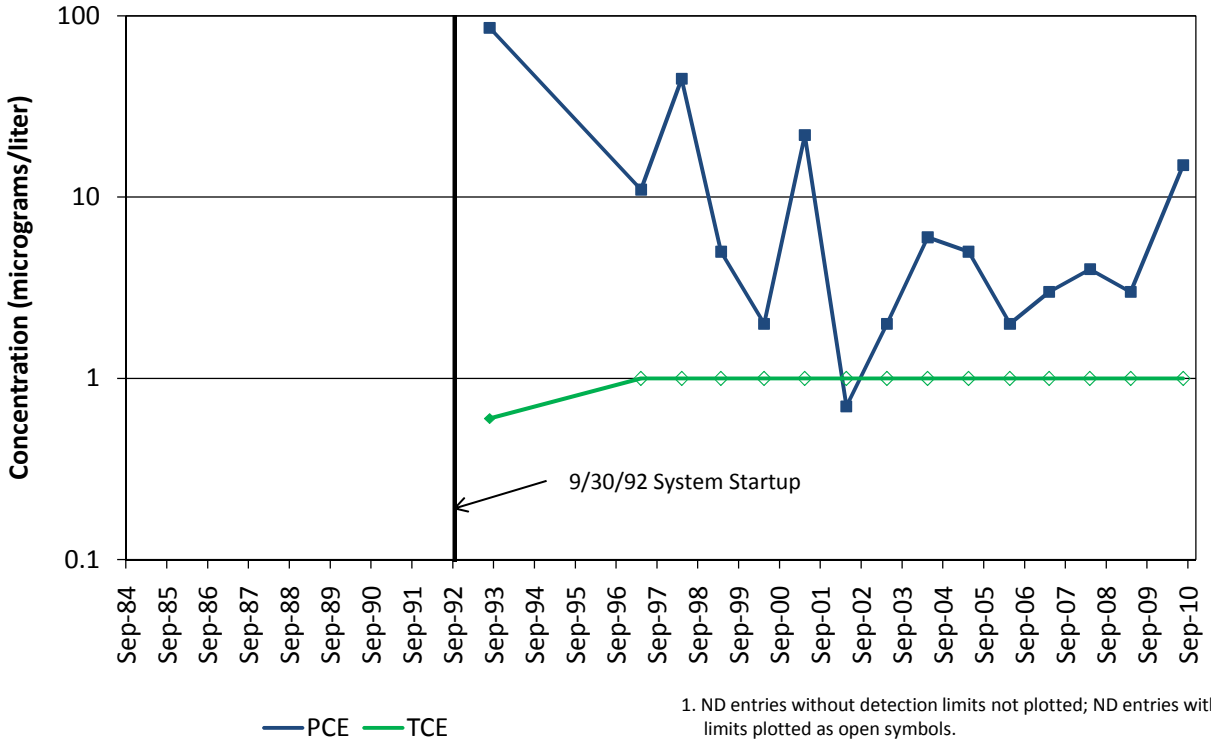
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well UC6
Concentration (micrograms/liter)
2500
2000
1500
1000
500
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well UC6
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

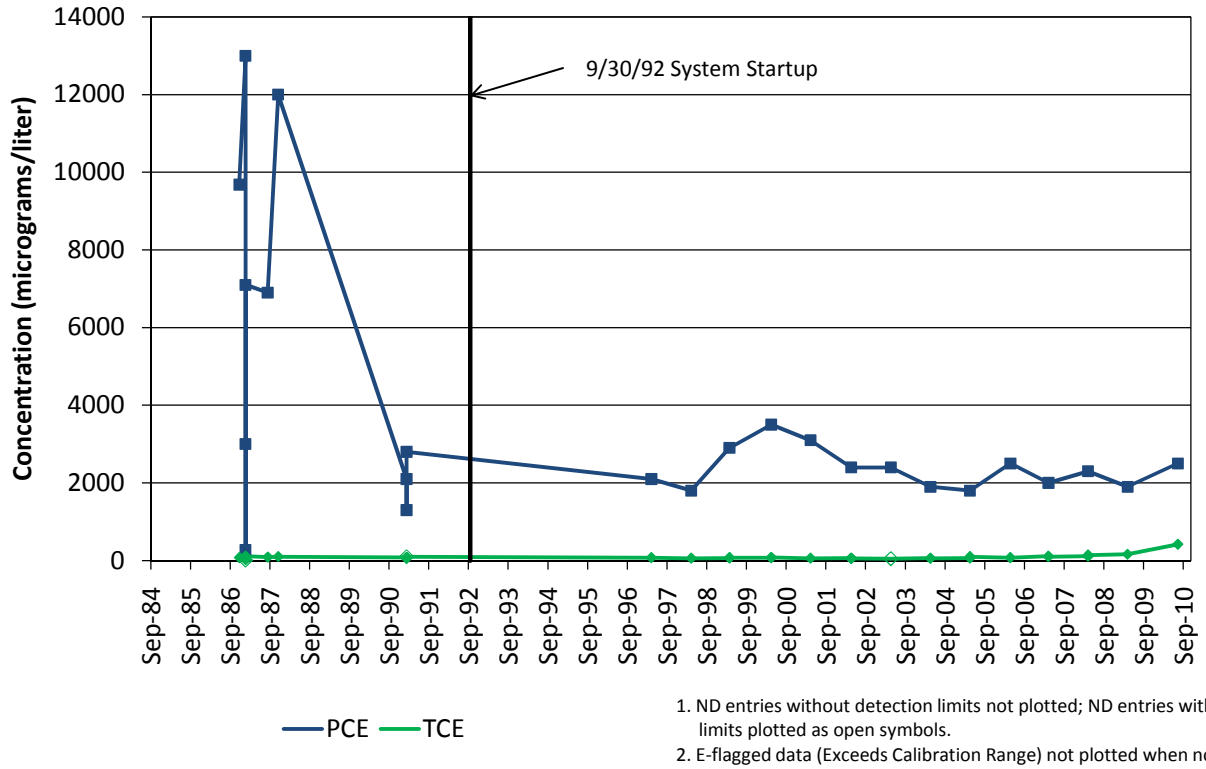


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



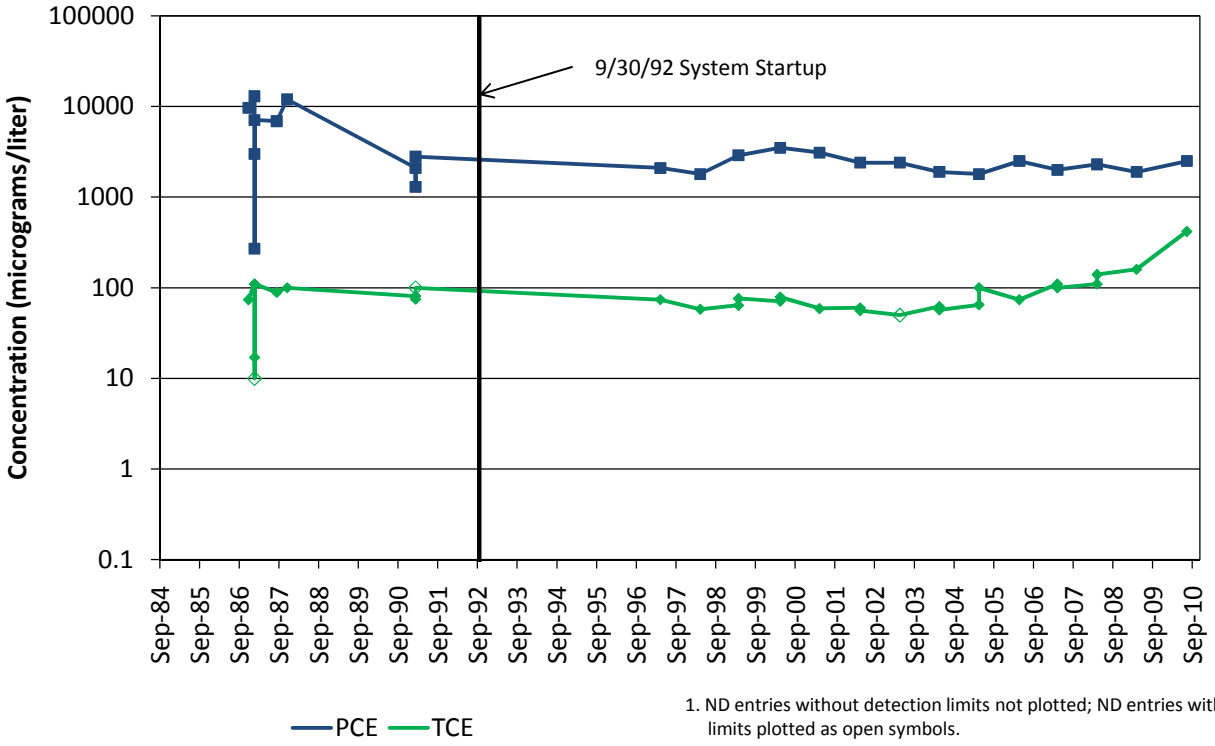
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Deep Bedrock Wells UC7A-1/UC7-1



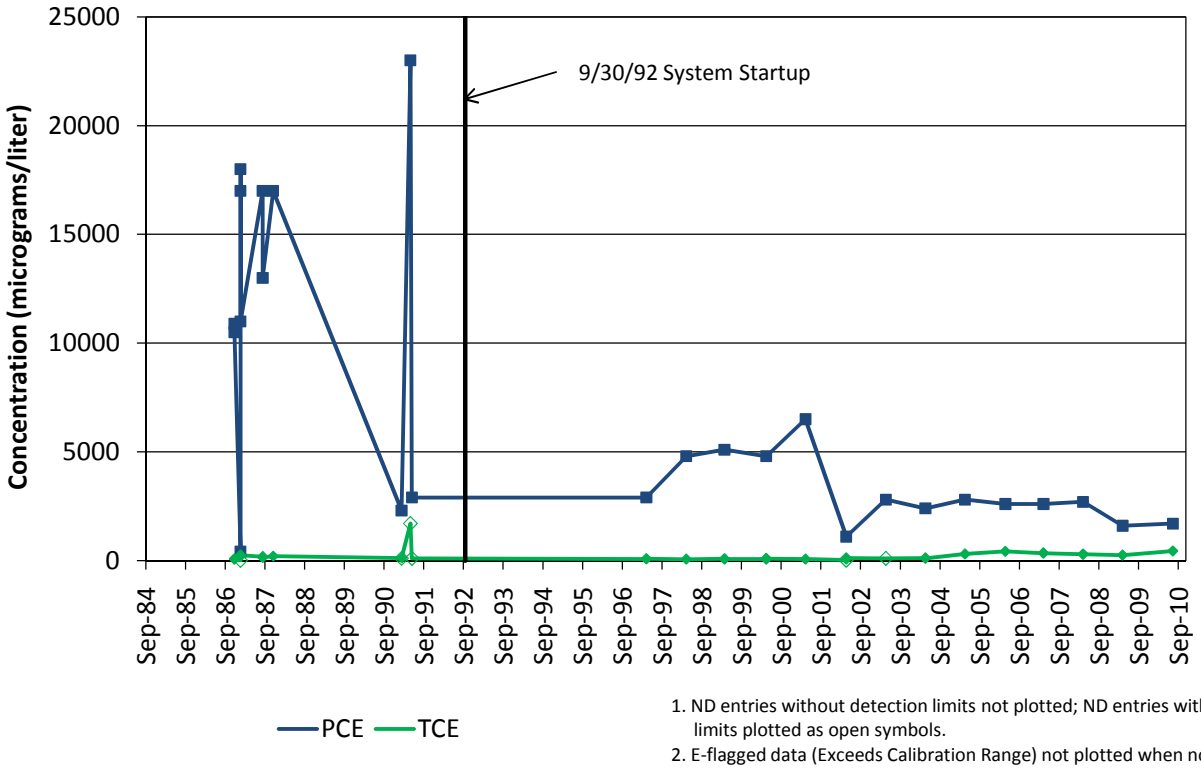
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Deep Bedrock Wells UC7A-1/UC7-1



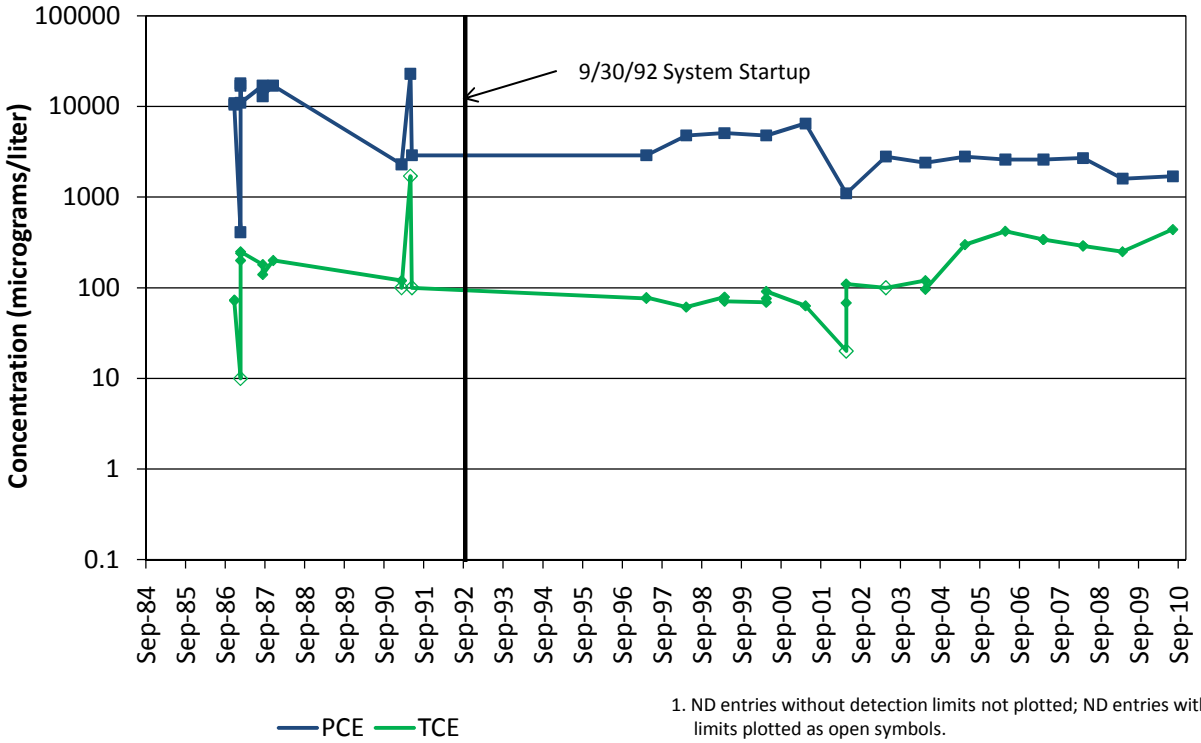
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Shallow Bedrock Well UC7A-2 / Deep Bedrock Well UC7-2

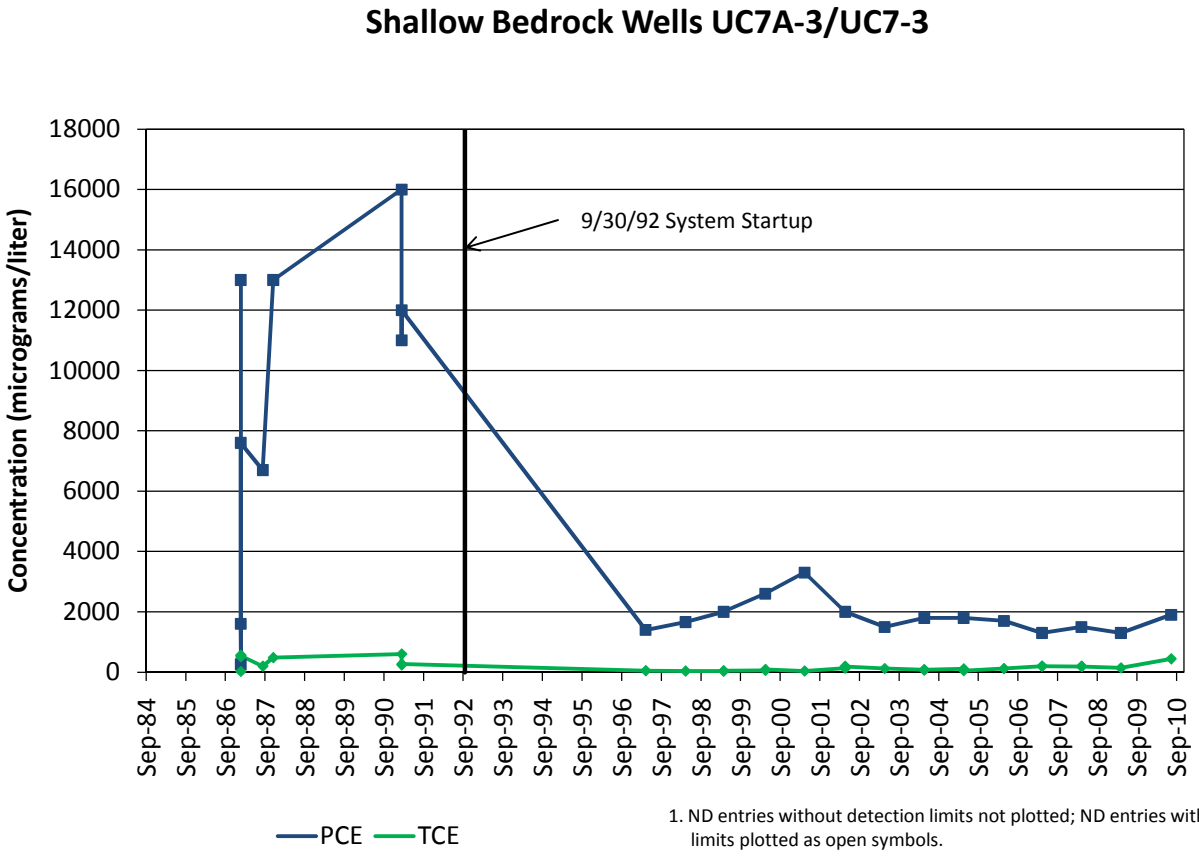


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

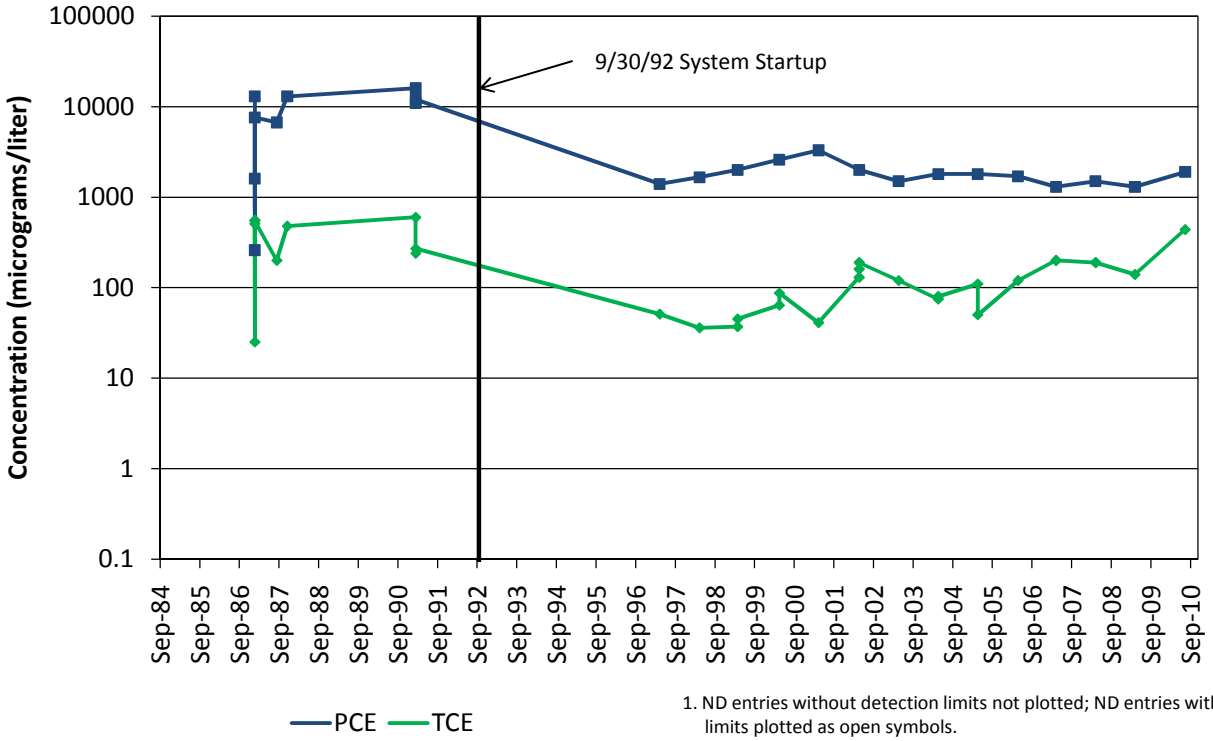
Shallow Bedrock Well UC7A-2 / Deep Bedrock Well UC7-2



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

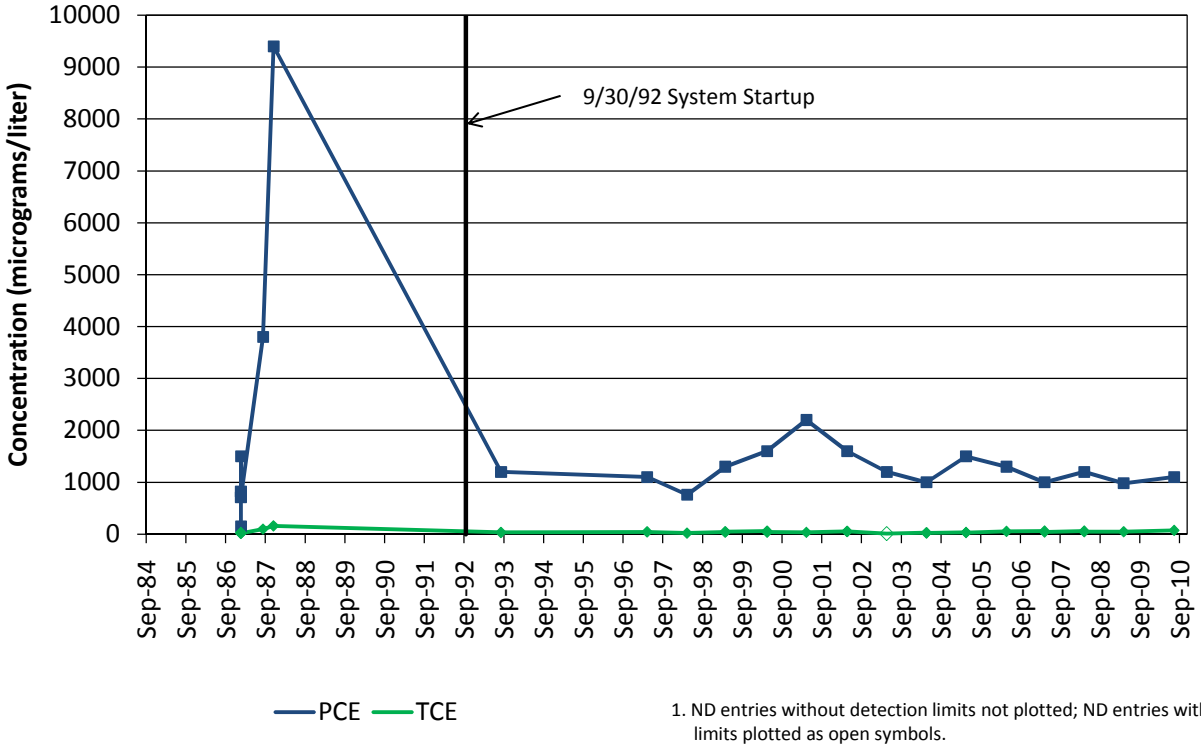


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



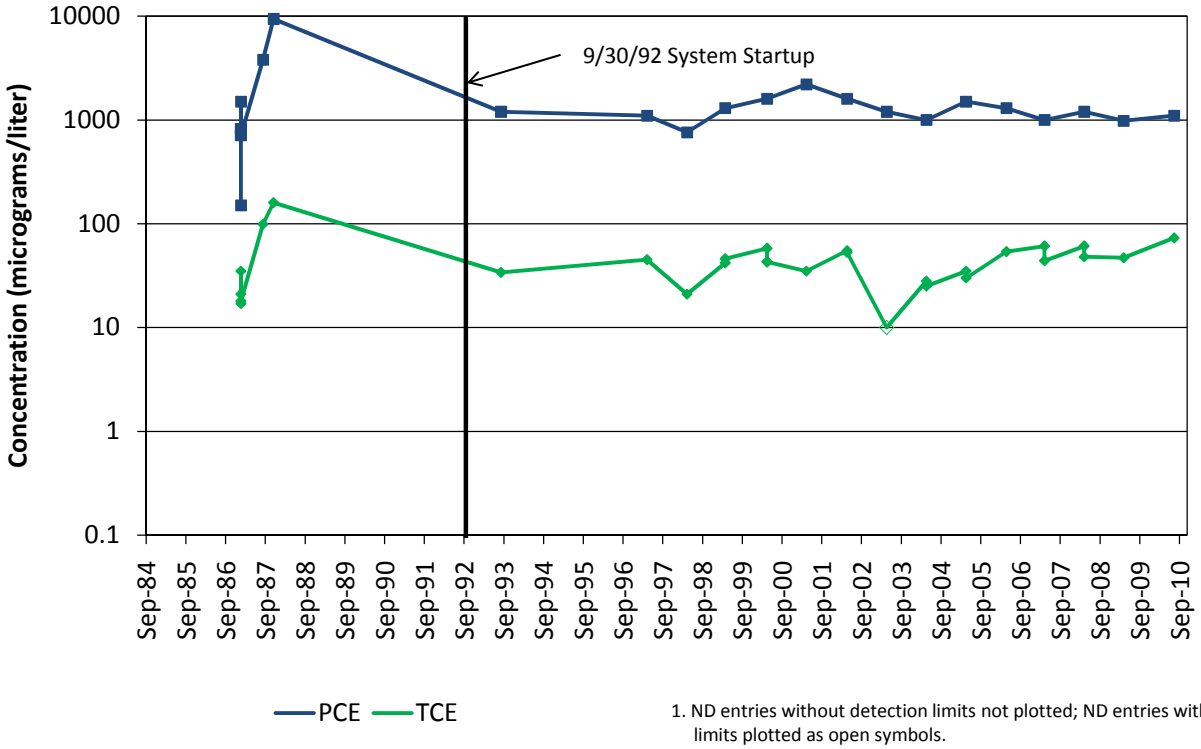
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Shallow Bedrock Wells UC7A-4/UC7-4

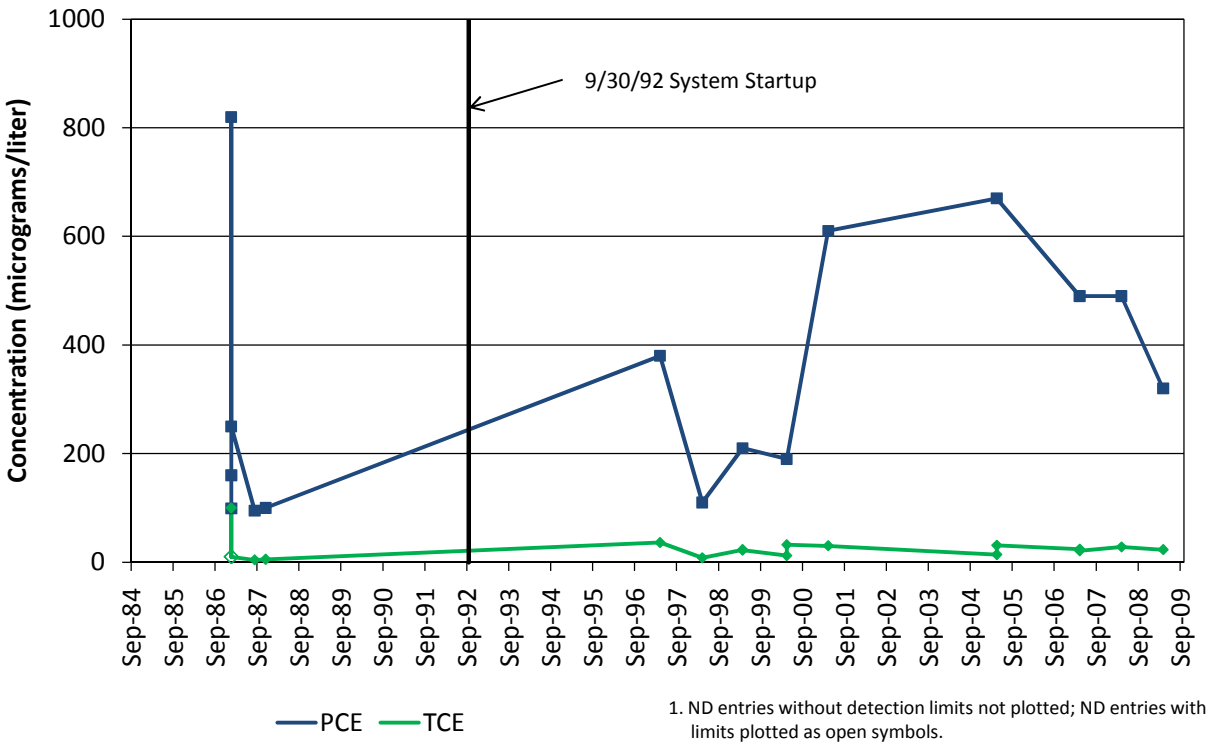


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

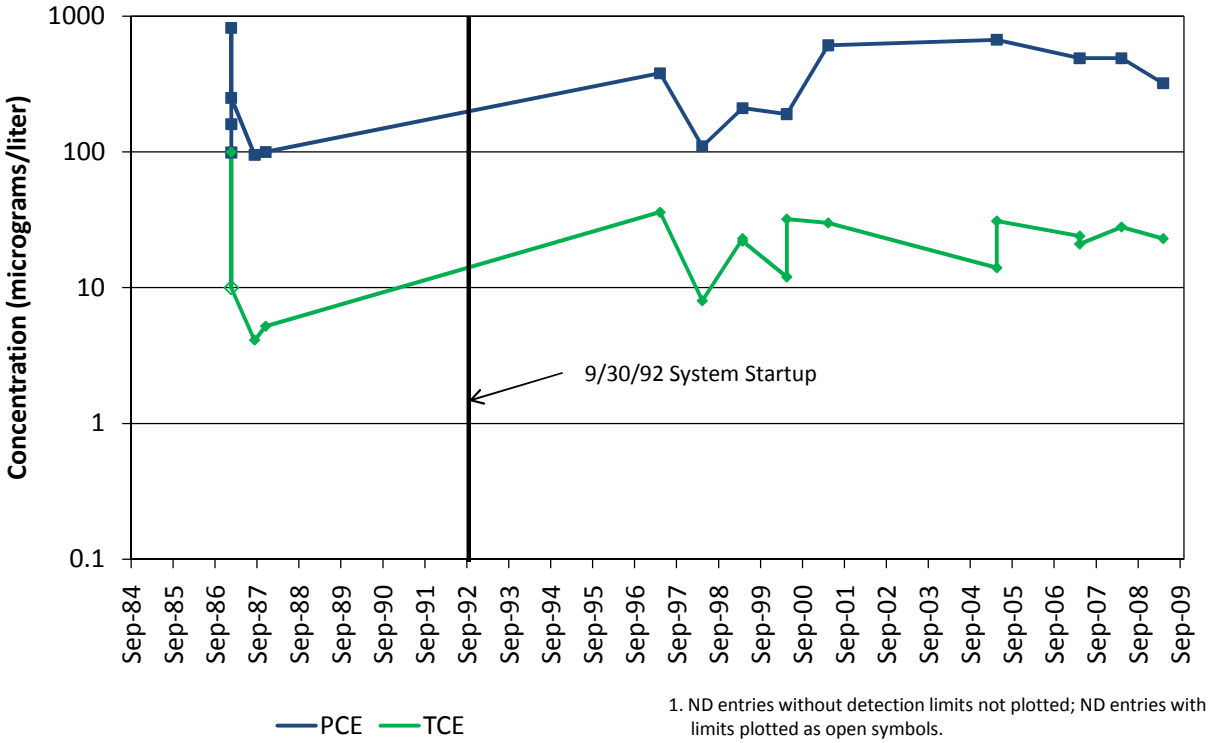
Shallow Bedrock Wells UC7A-4/UC7-4



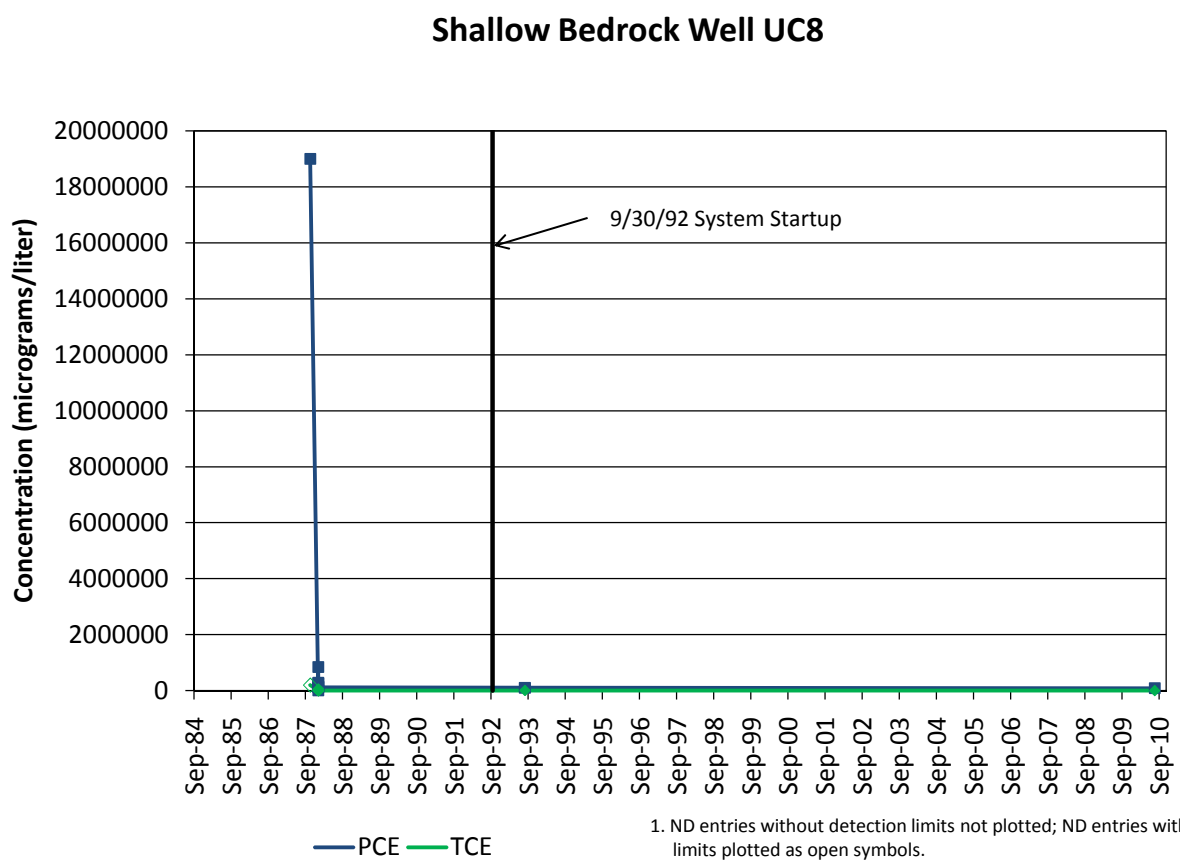
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



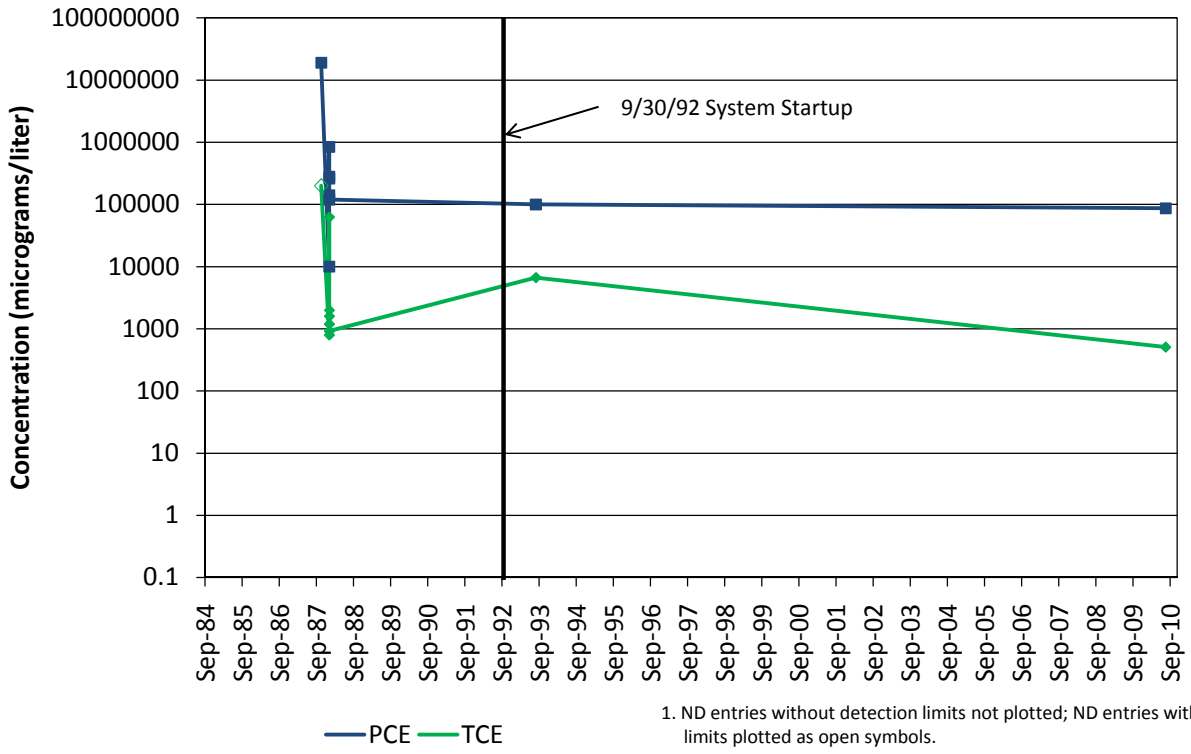
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



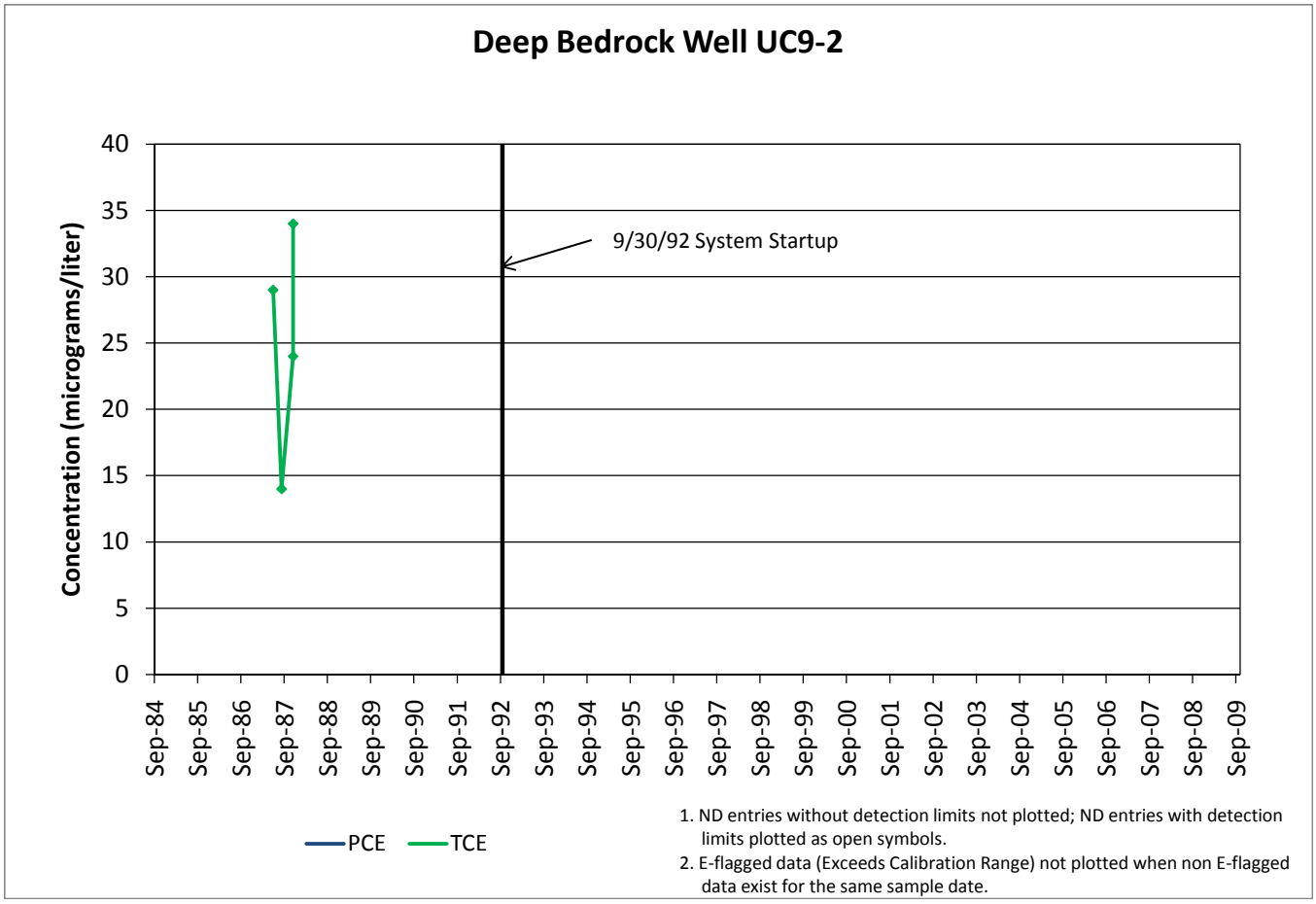
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

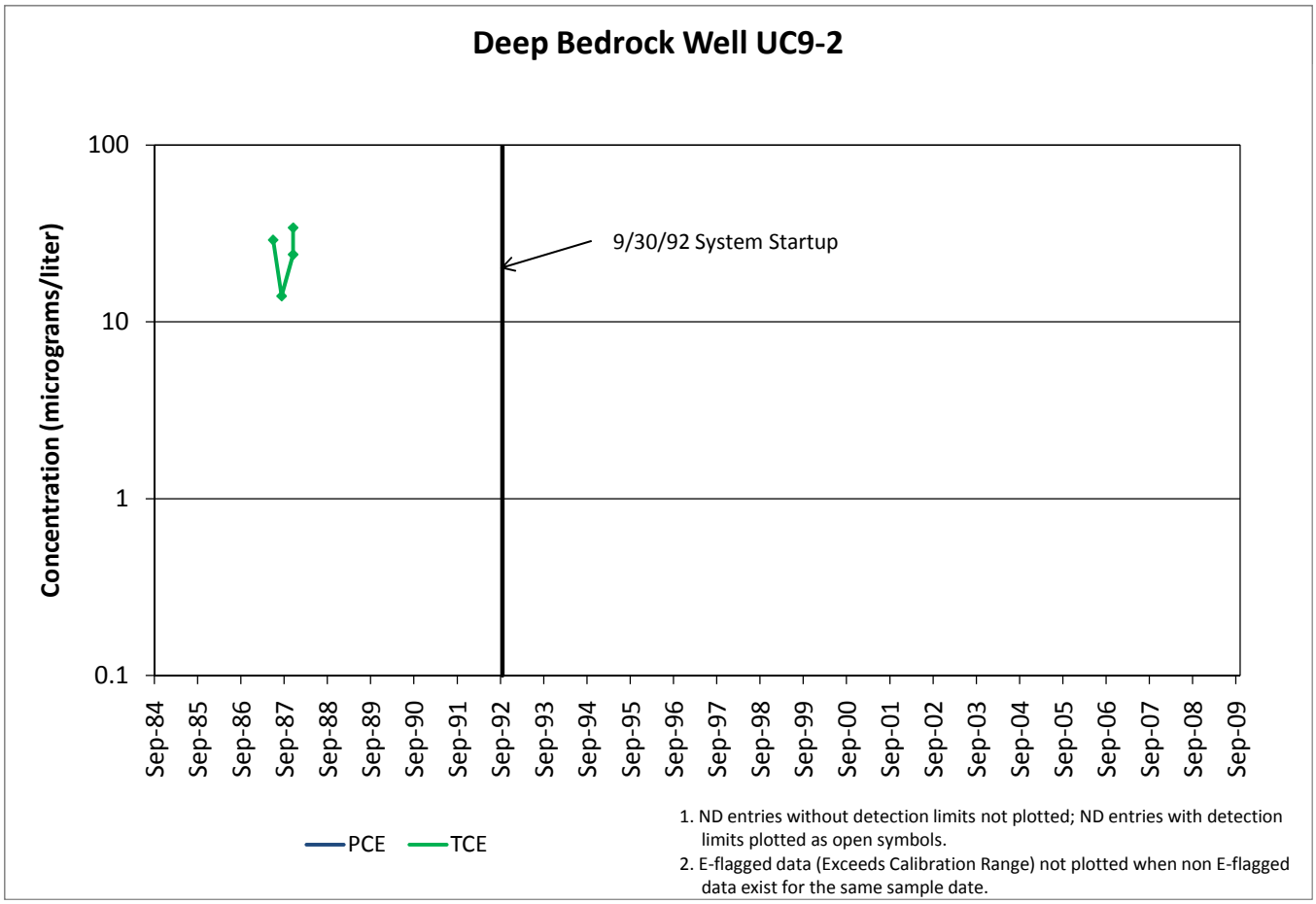


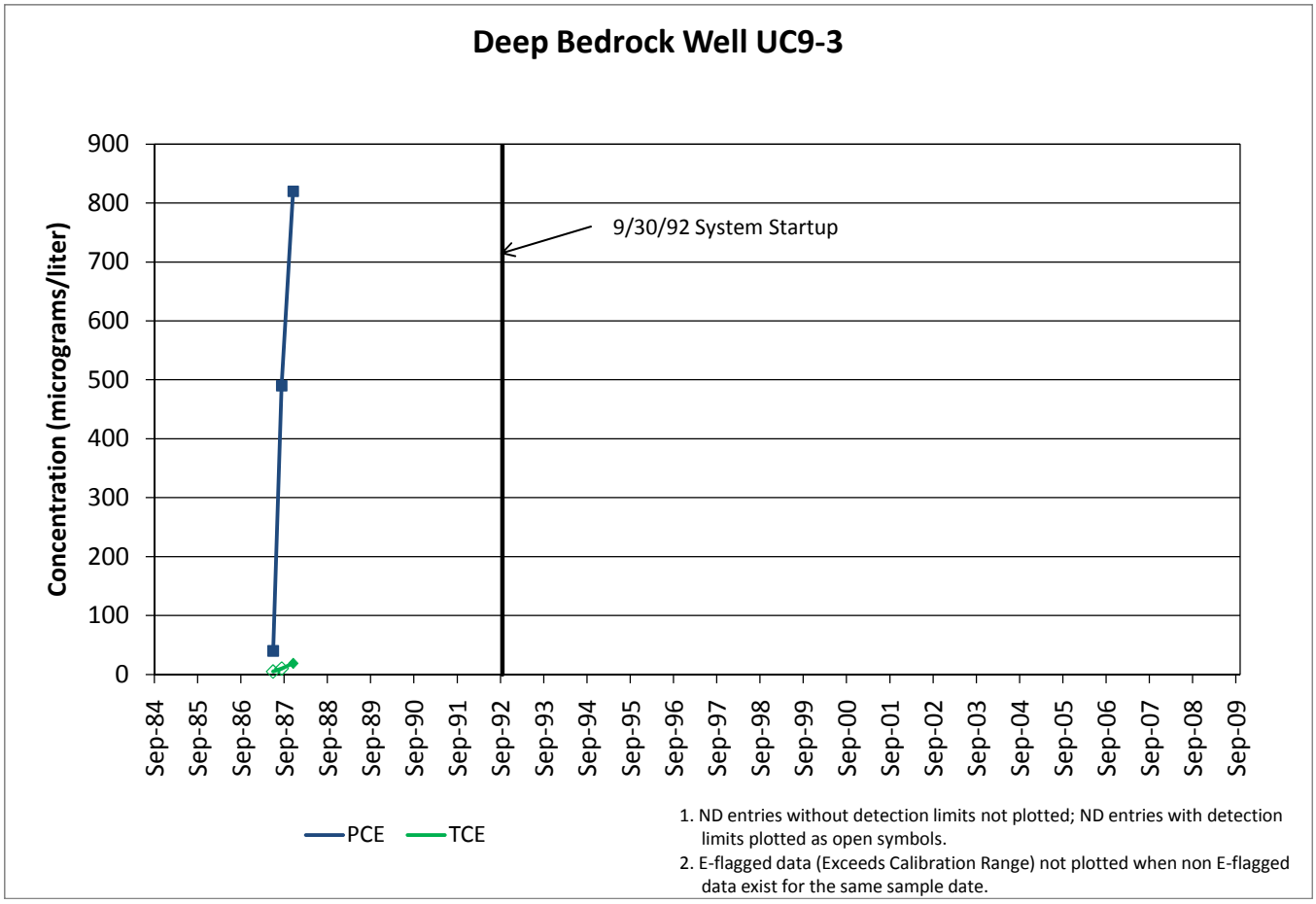
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

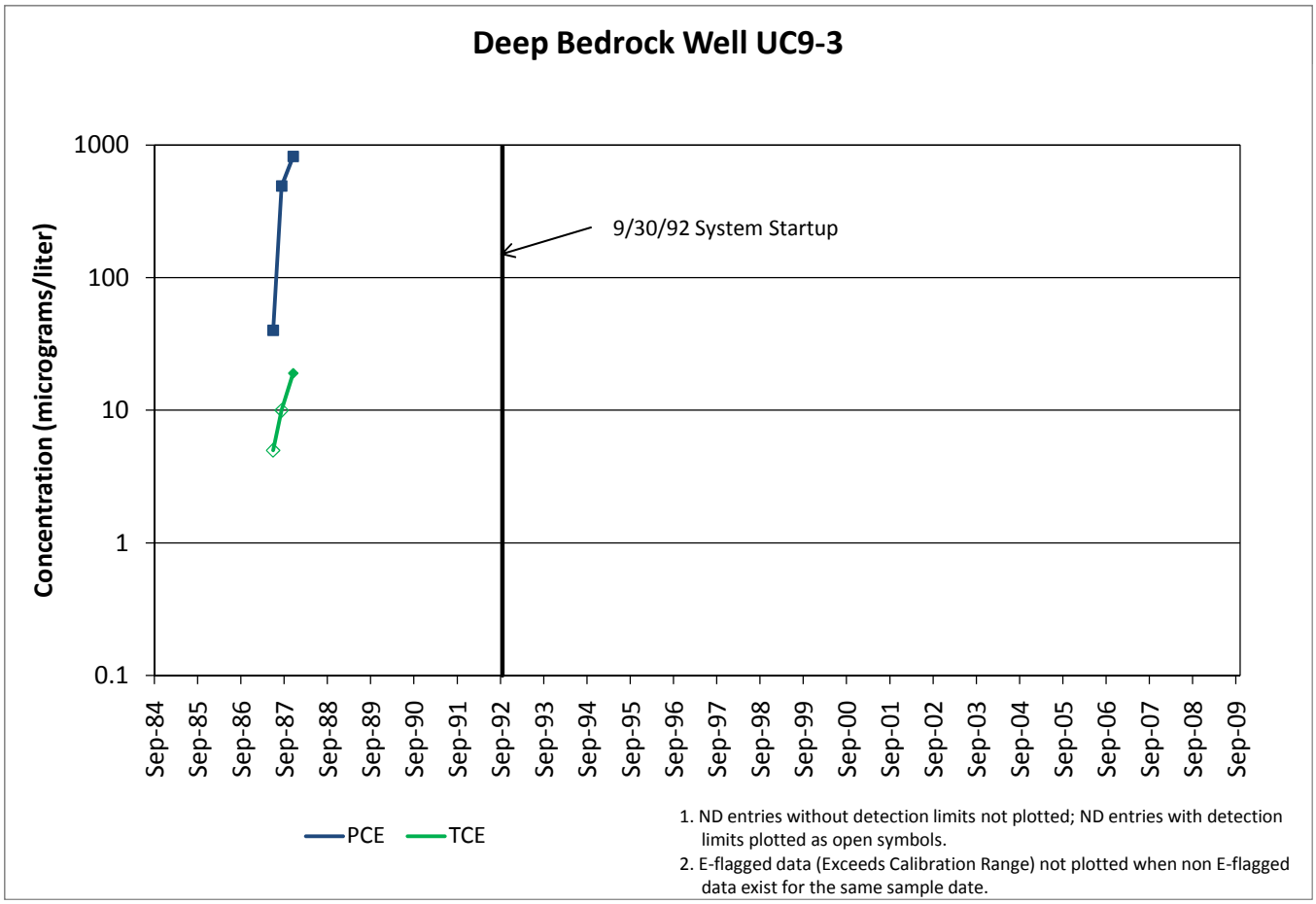


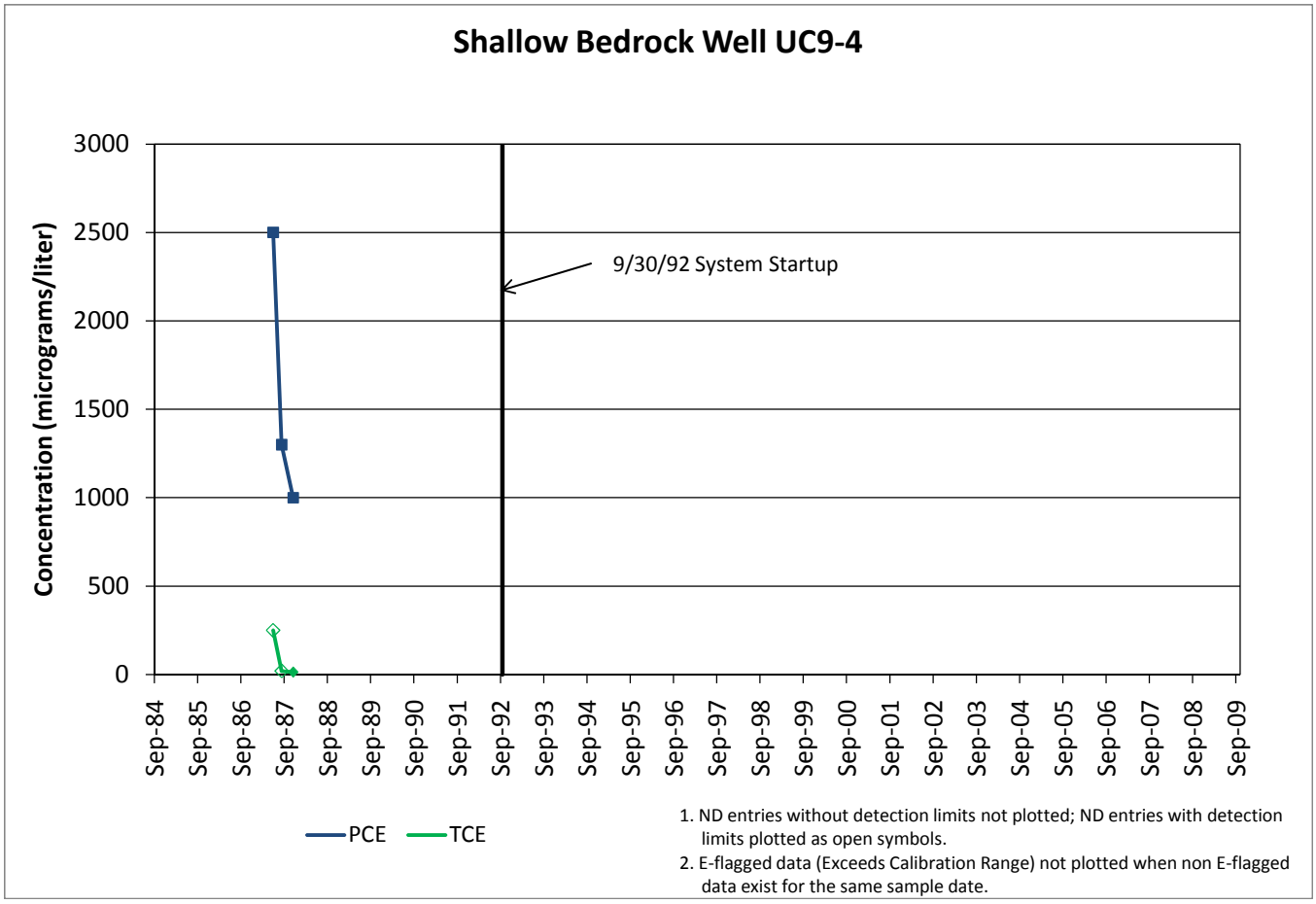
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

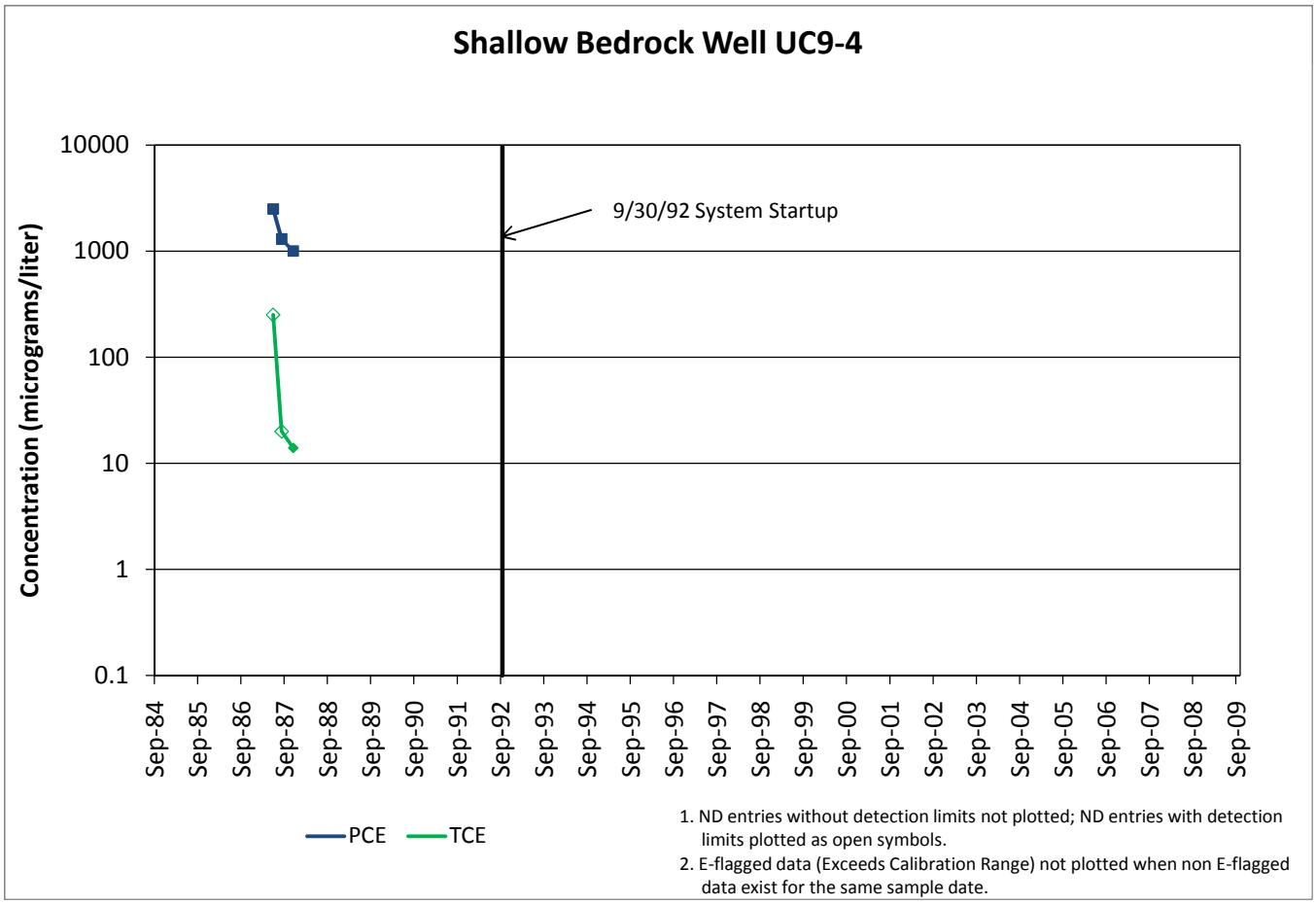

Deep Bedrock Well UC9-2
Concentration (micrograms/liter)
40
35
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

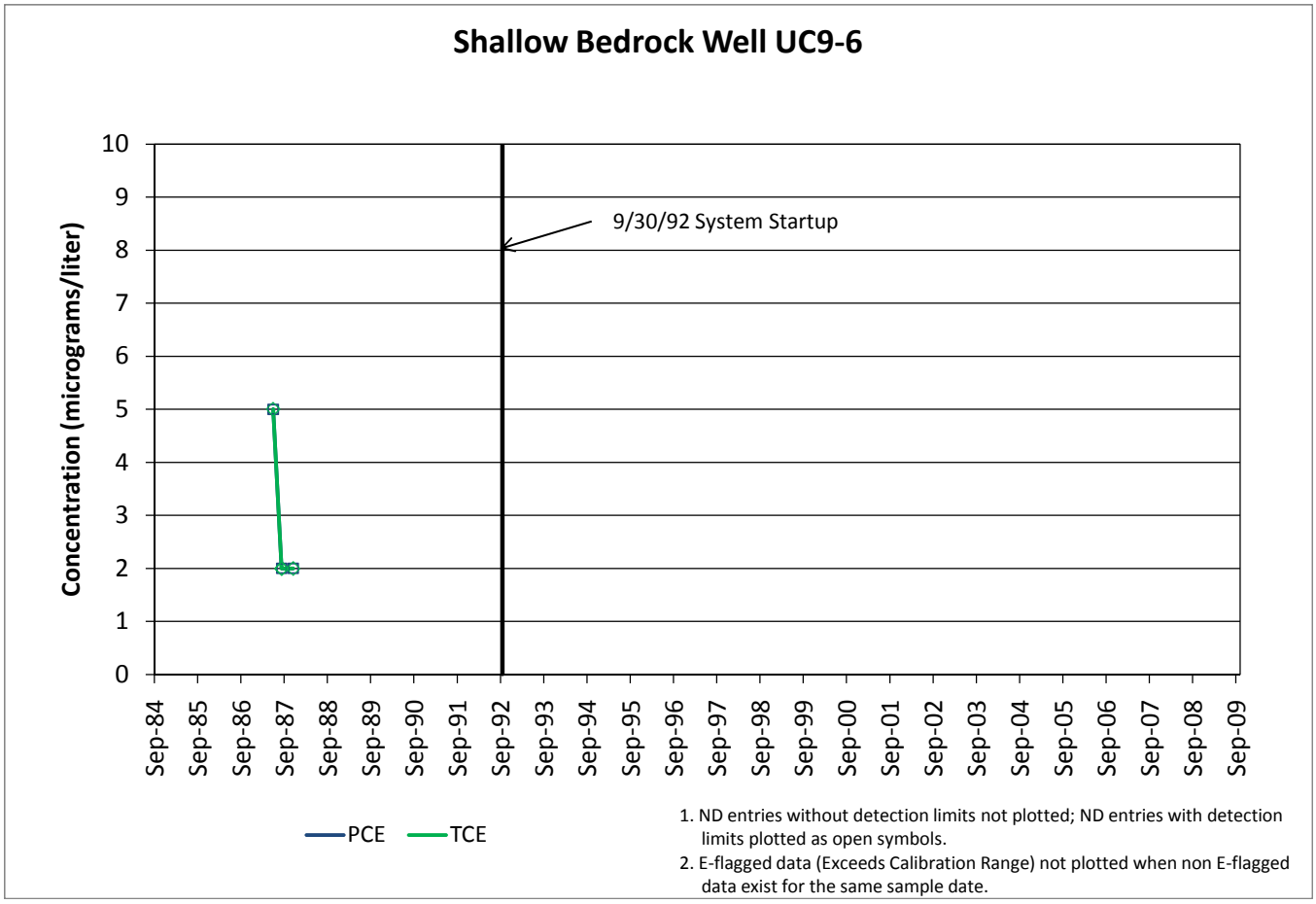

Deep Bedrock Well UC9-2
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

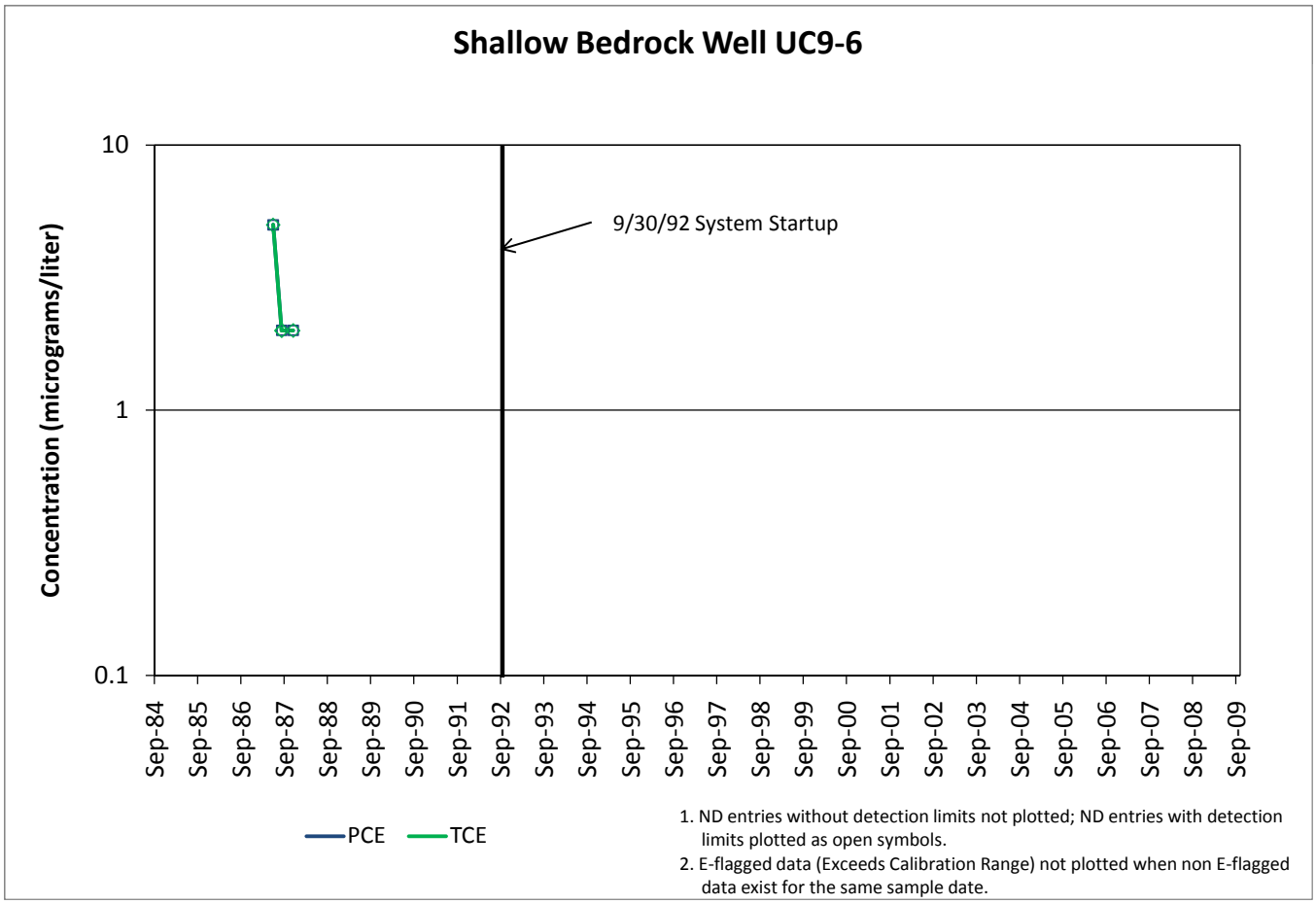

Deep Bedrock Well UC9-3
Concentration (micrograms/liter)
900
800
700
600
500
400
300
200
100
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

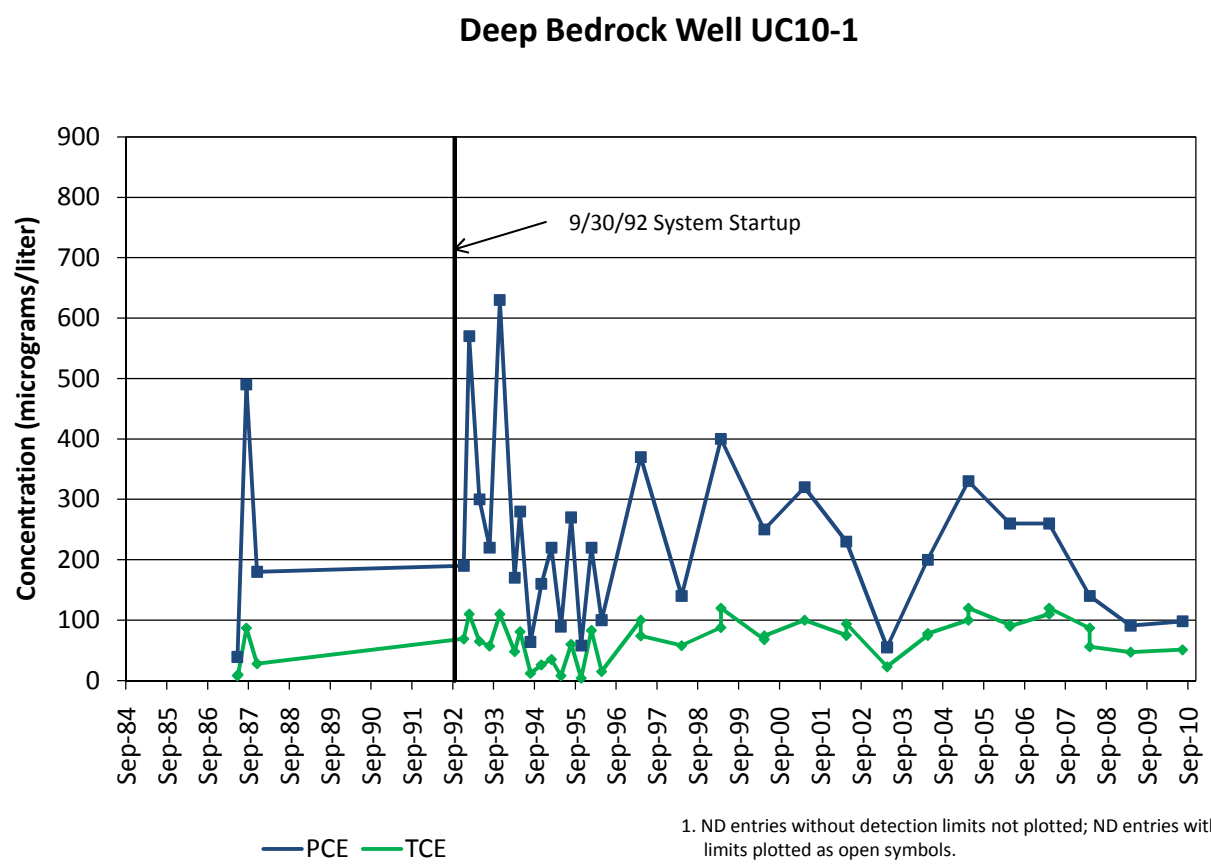

Deep Bedrock Well UC9-3
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well UC9-4
Concentration (micrograms/liter)
3000
2500
2000
1500
1000
500
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

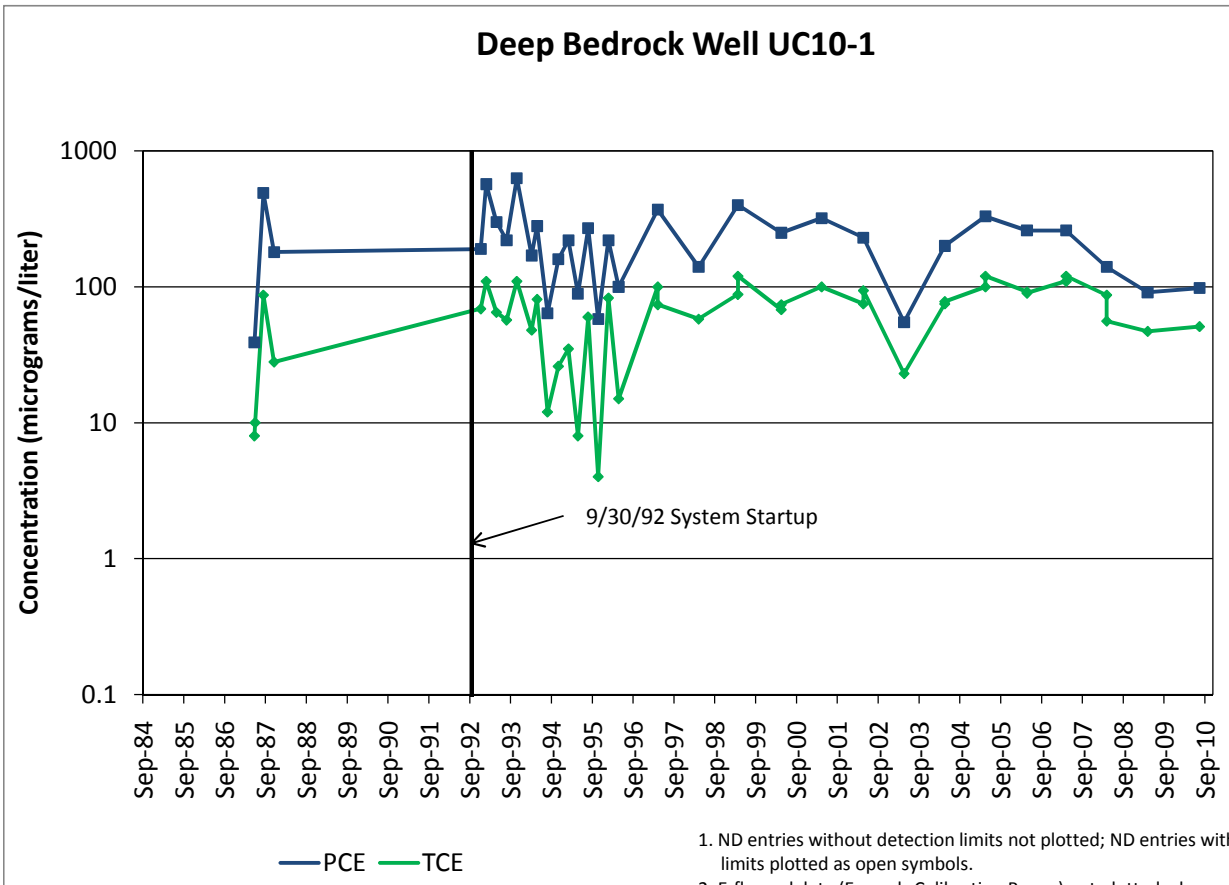

Shallow Bedrock Well UC9-4
Concentration (micrograms/liter)
10000
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well UC9-6
Concentration (micrograms/liter)
10
9
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

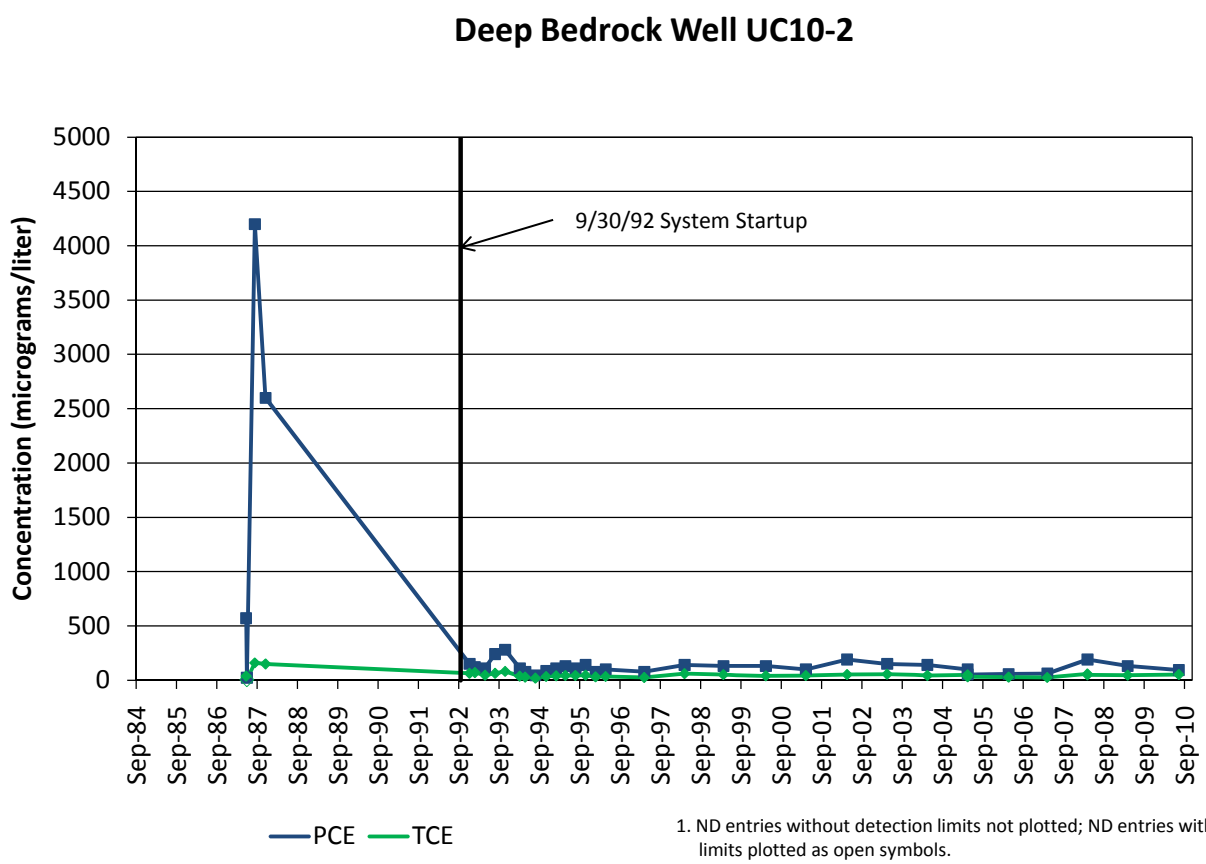

Shallow Bedrock Well UC9-6
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



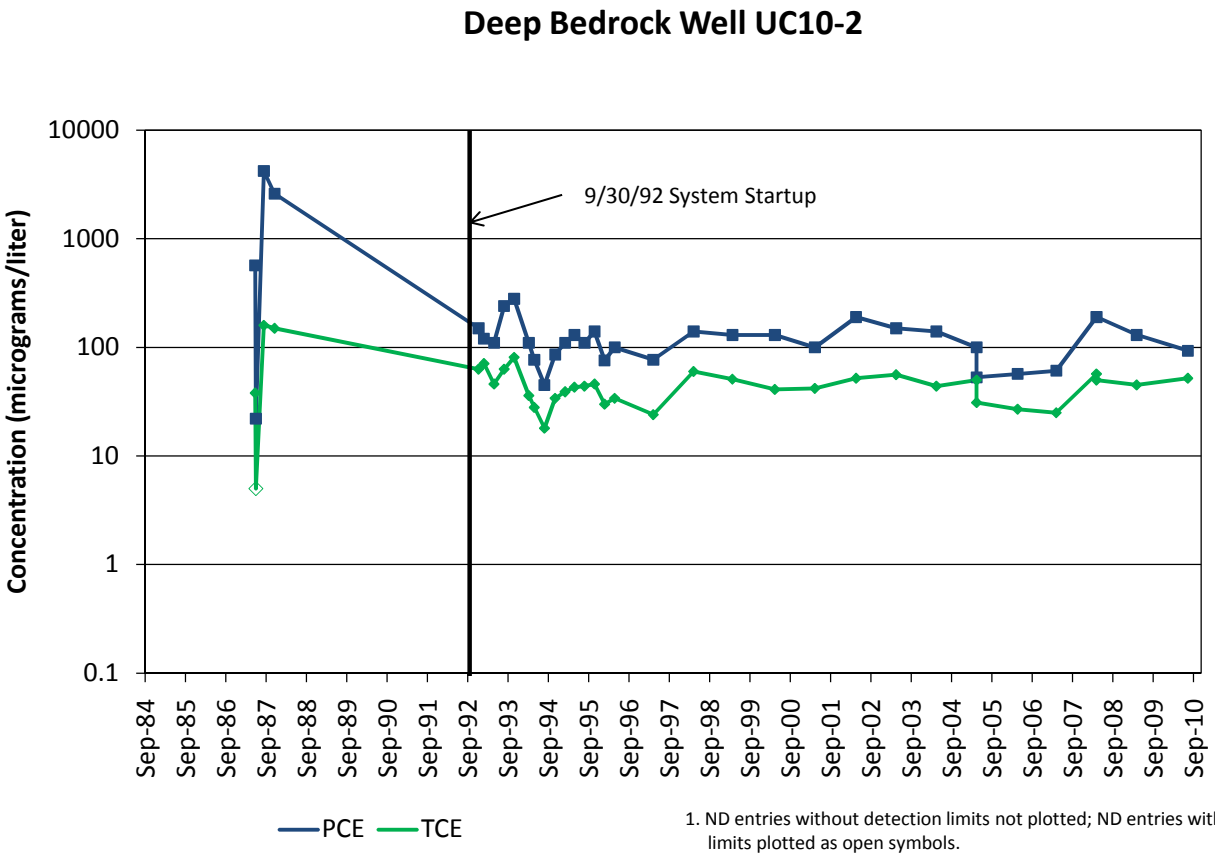
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



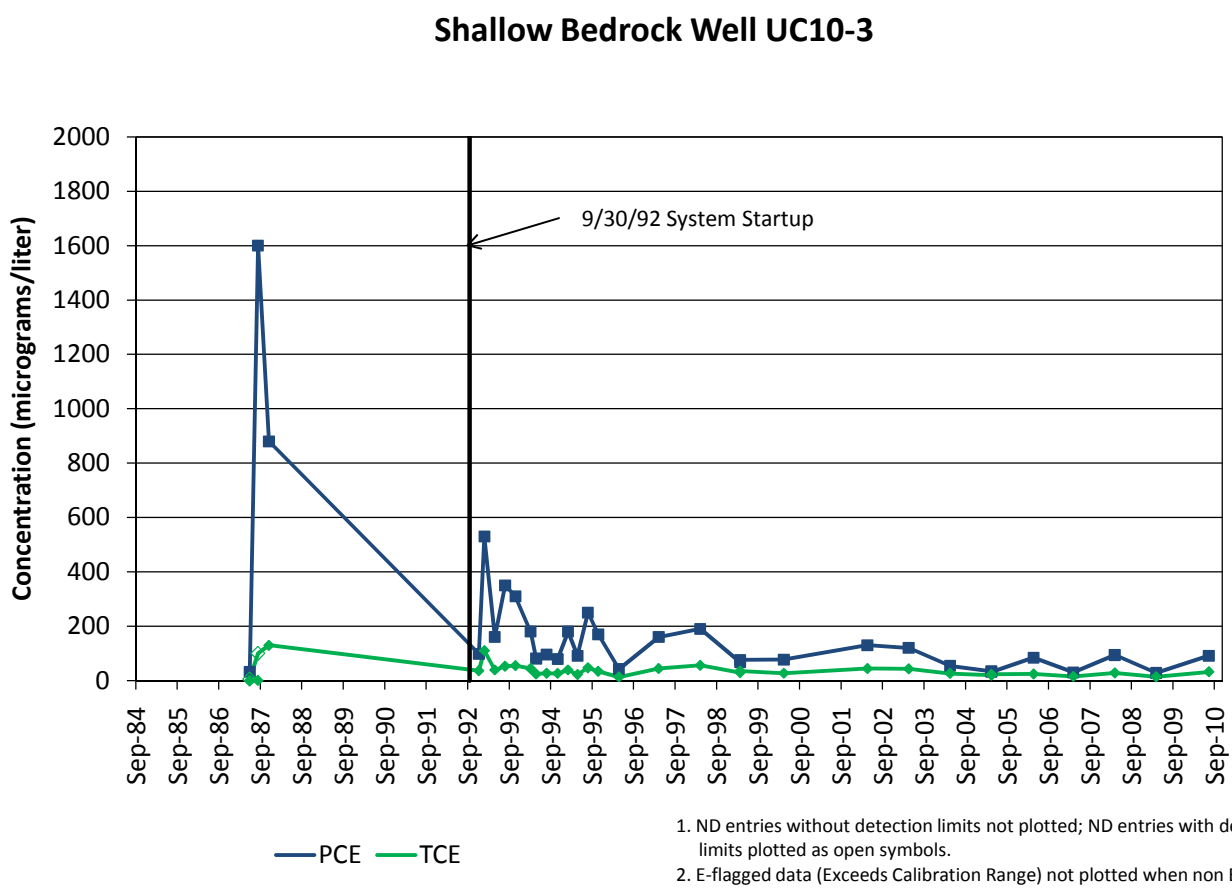
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



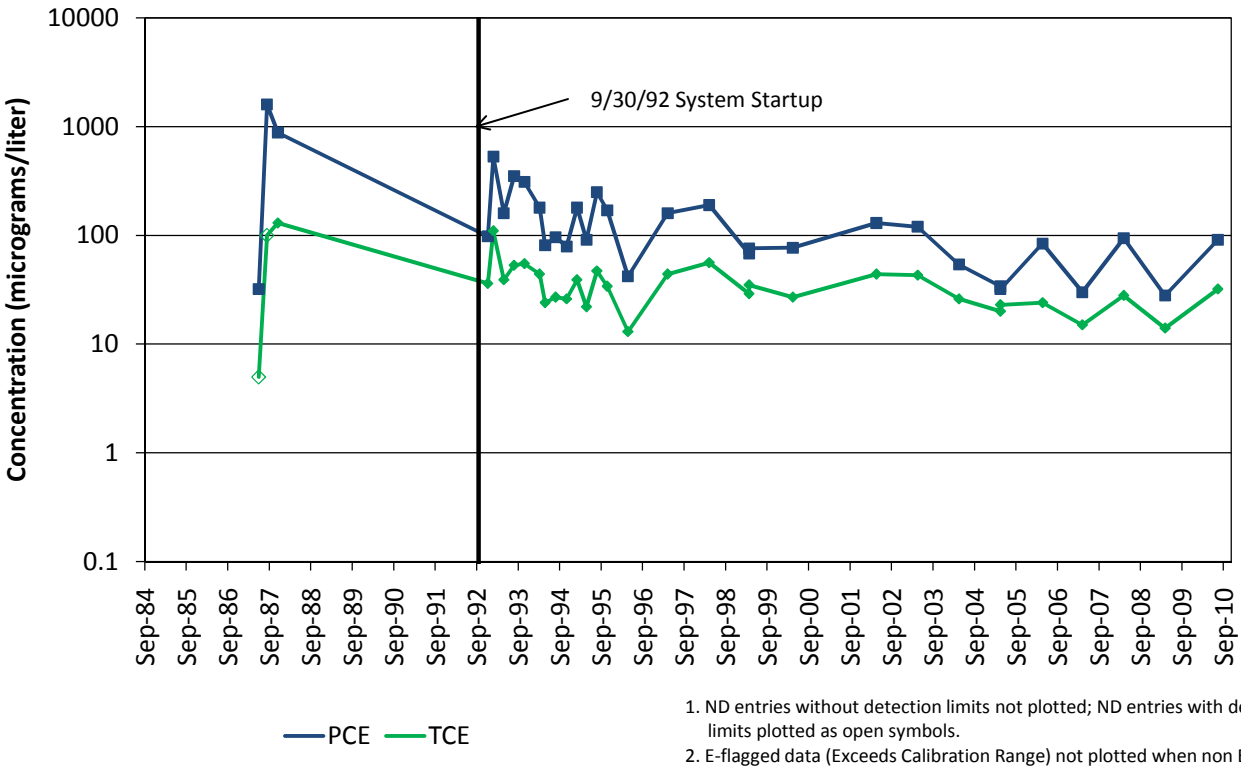
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



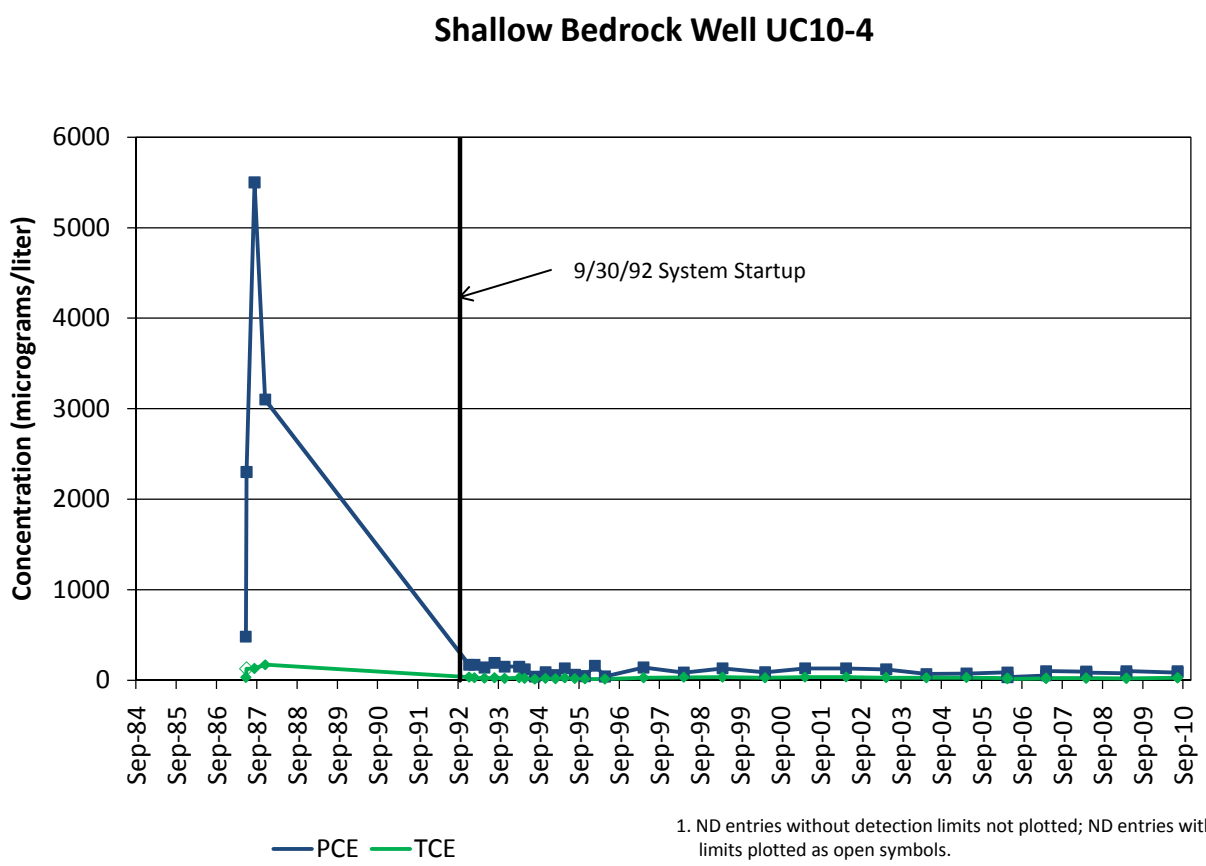
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



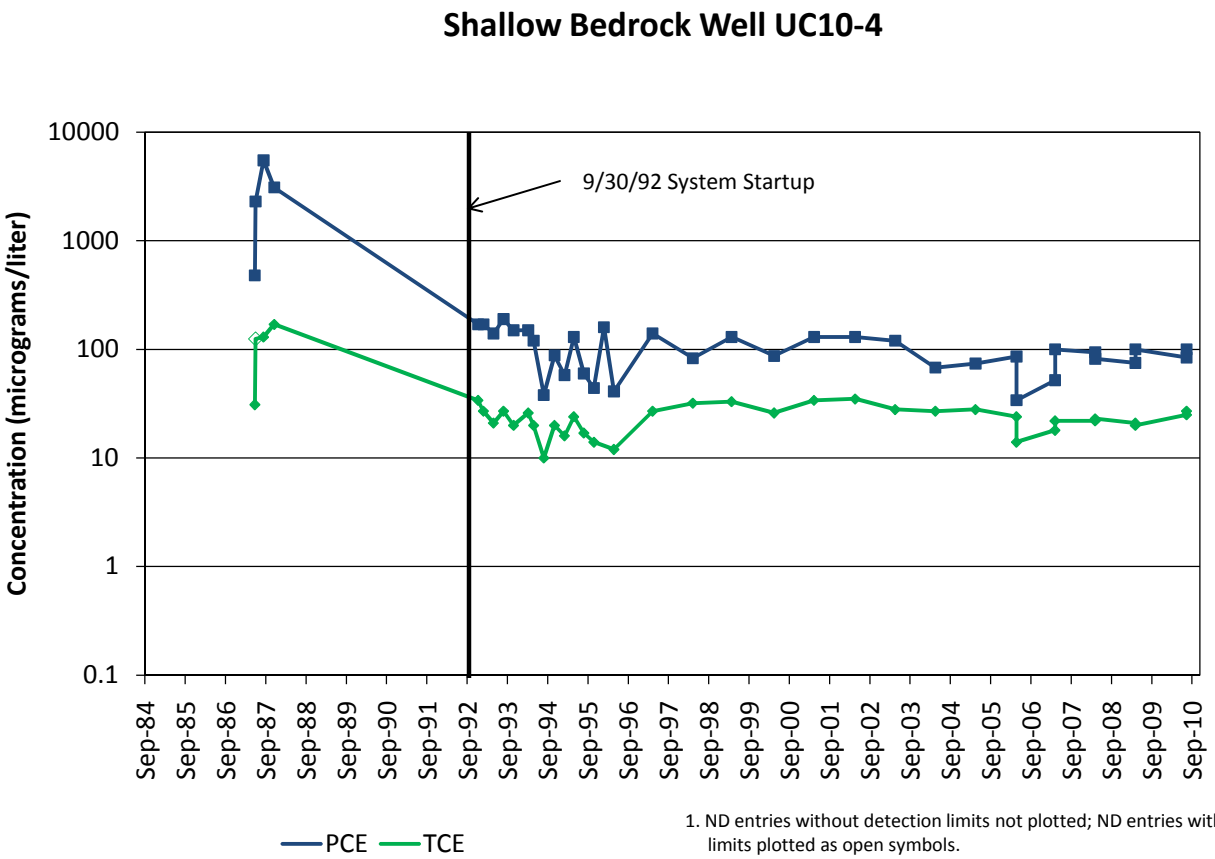
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



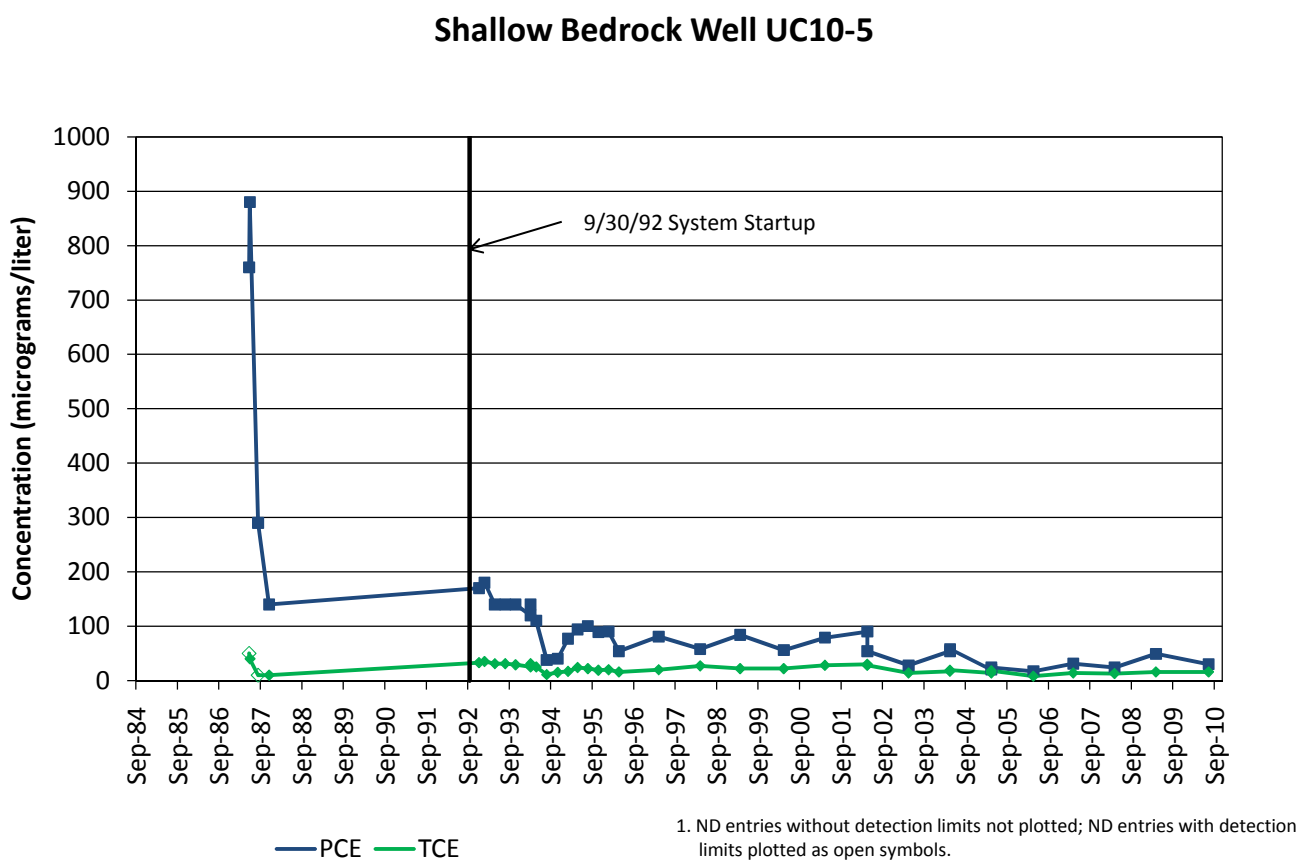
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



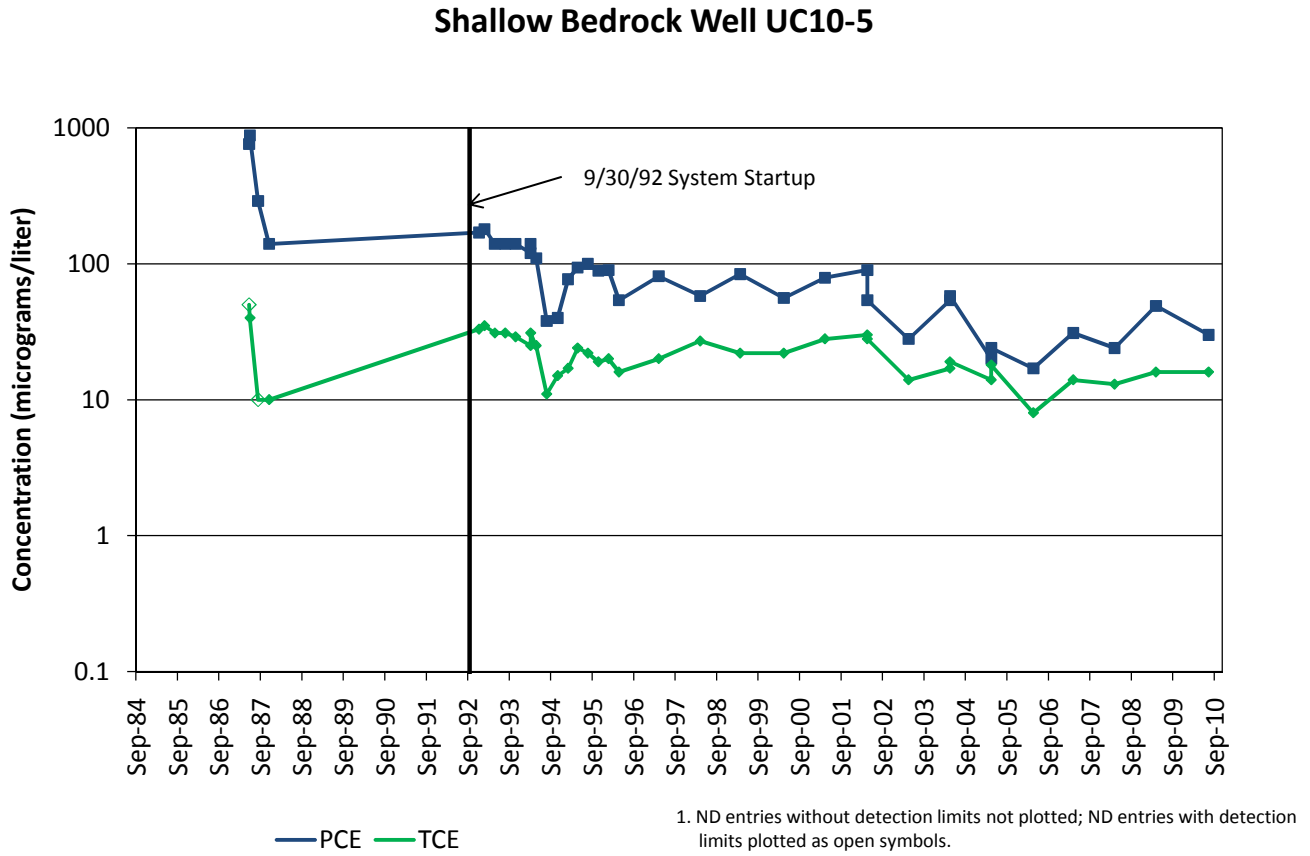
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



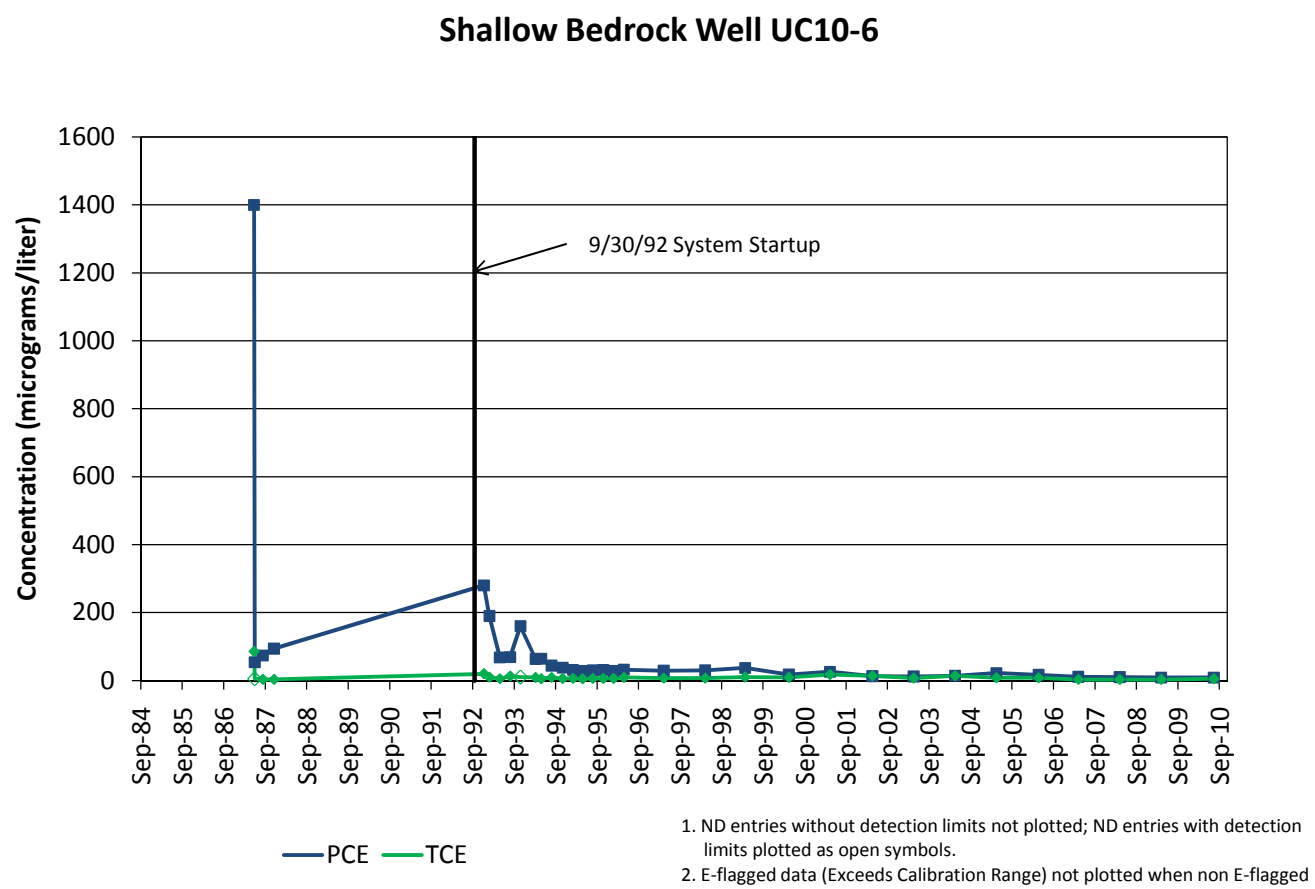
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



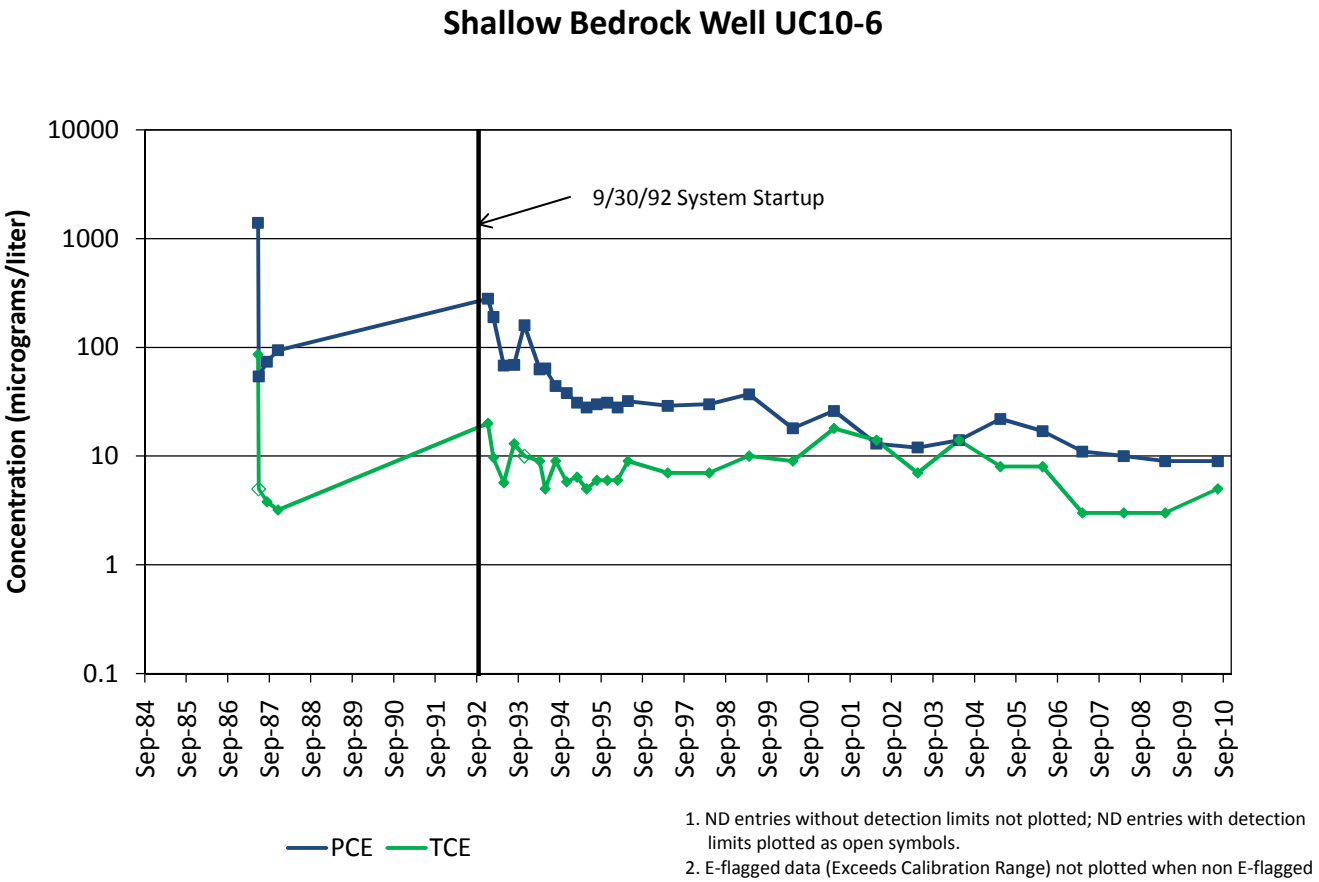
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



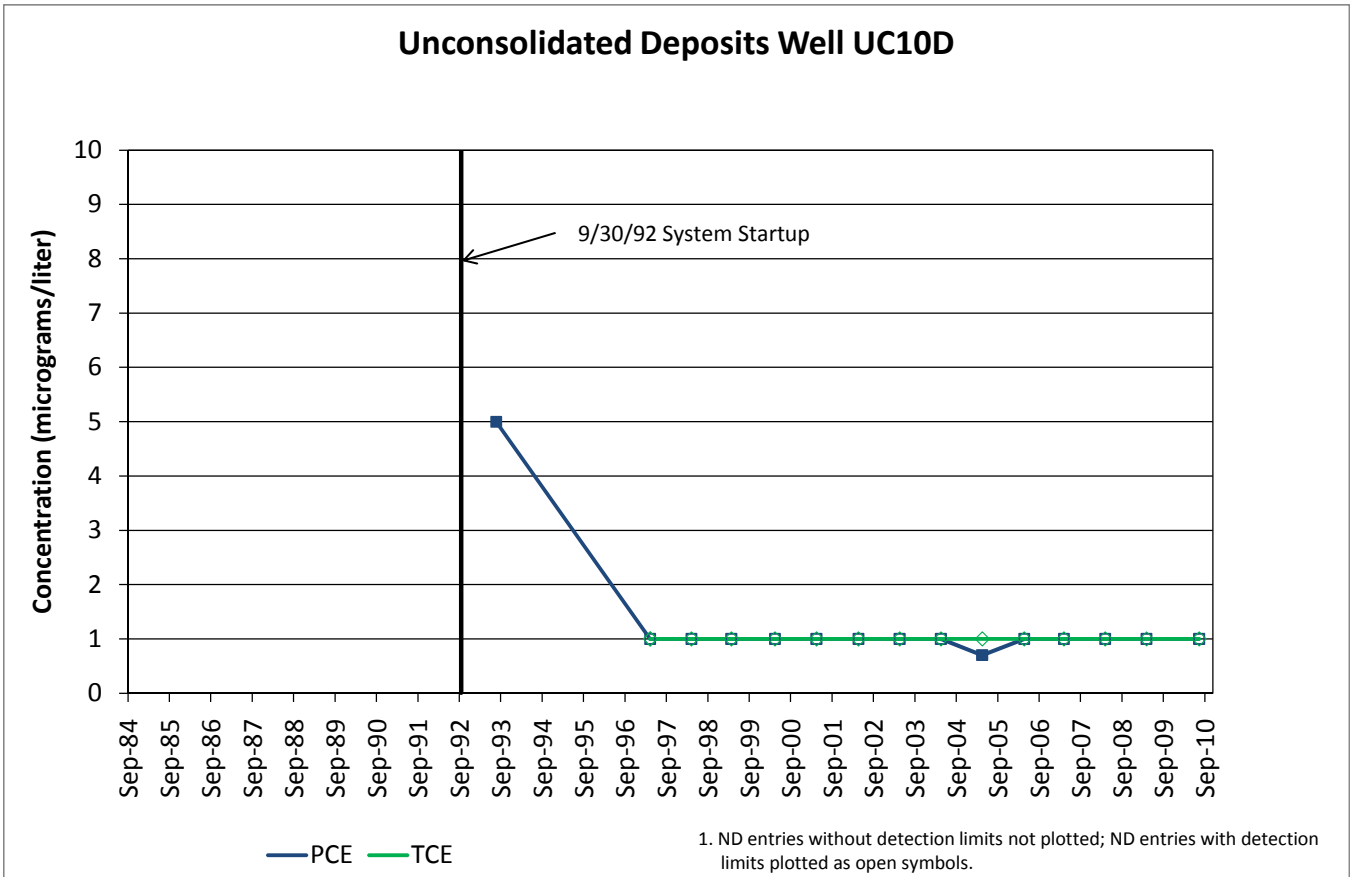
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



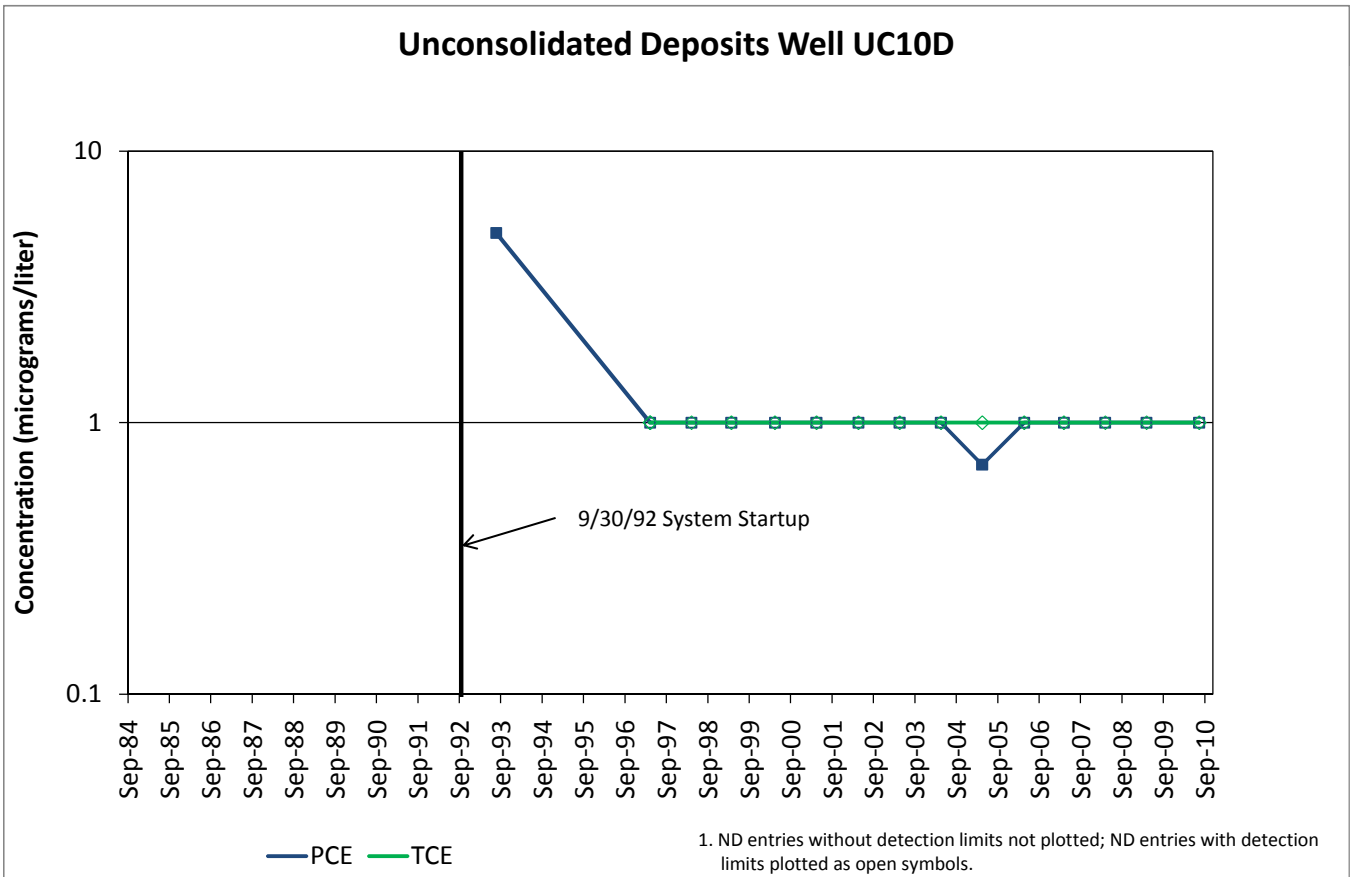
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



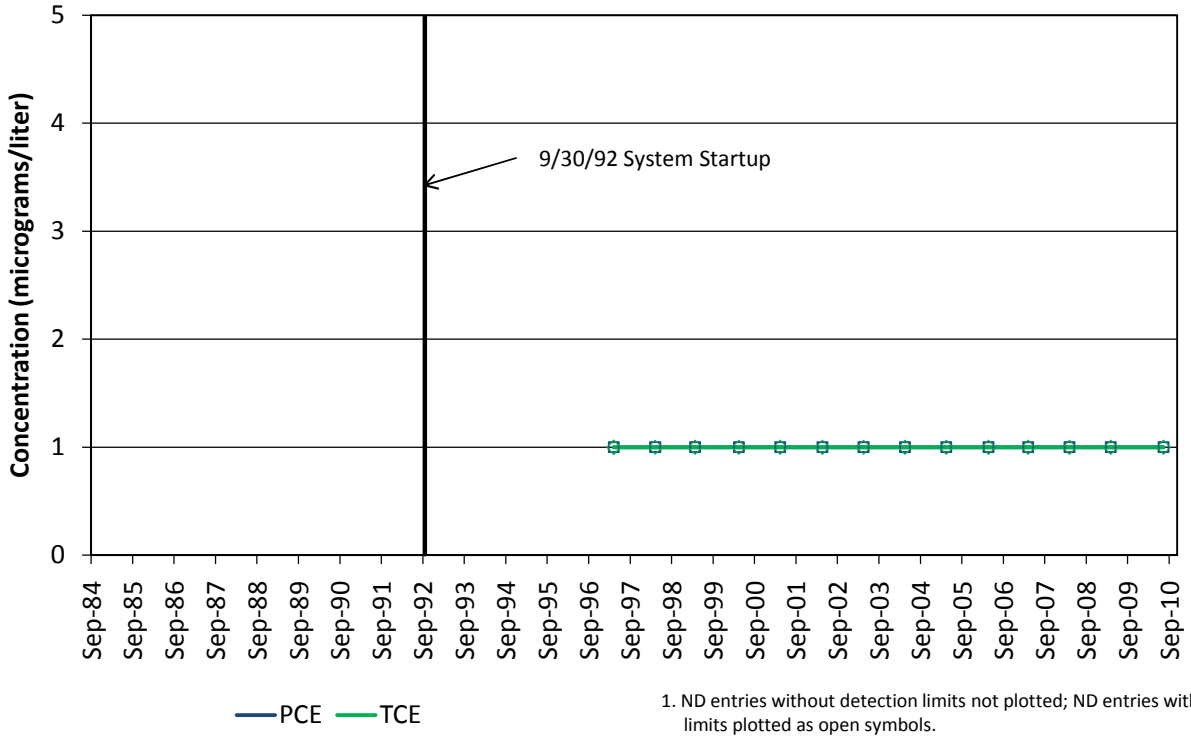
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



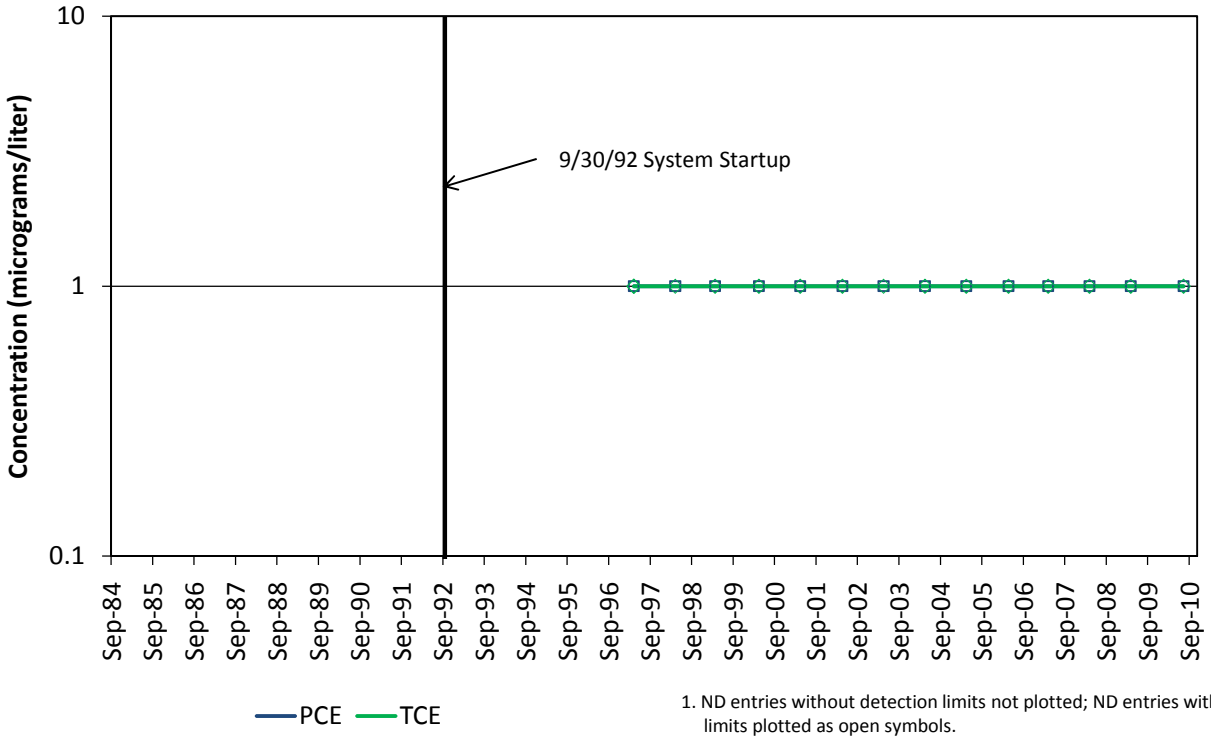
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



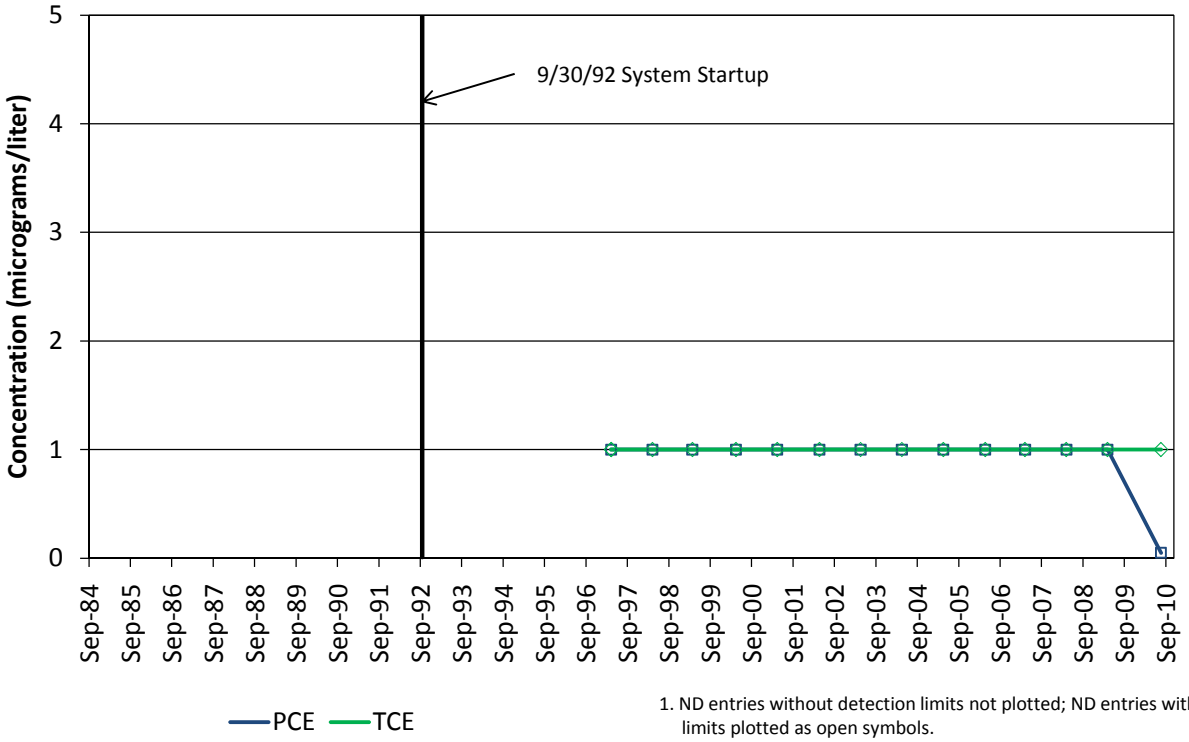
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



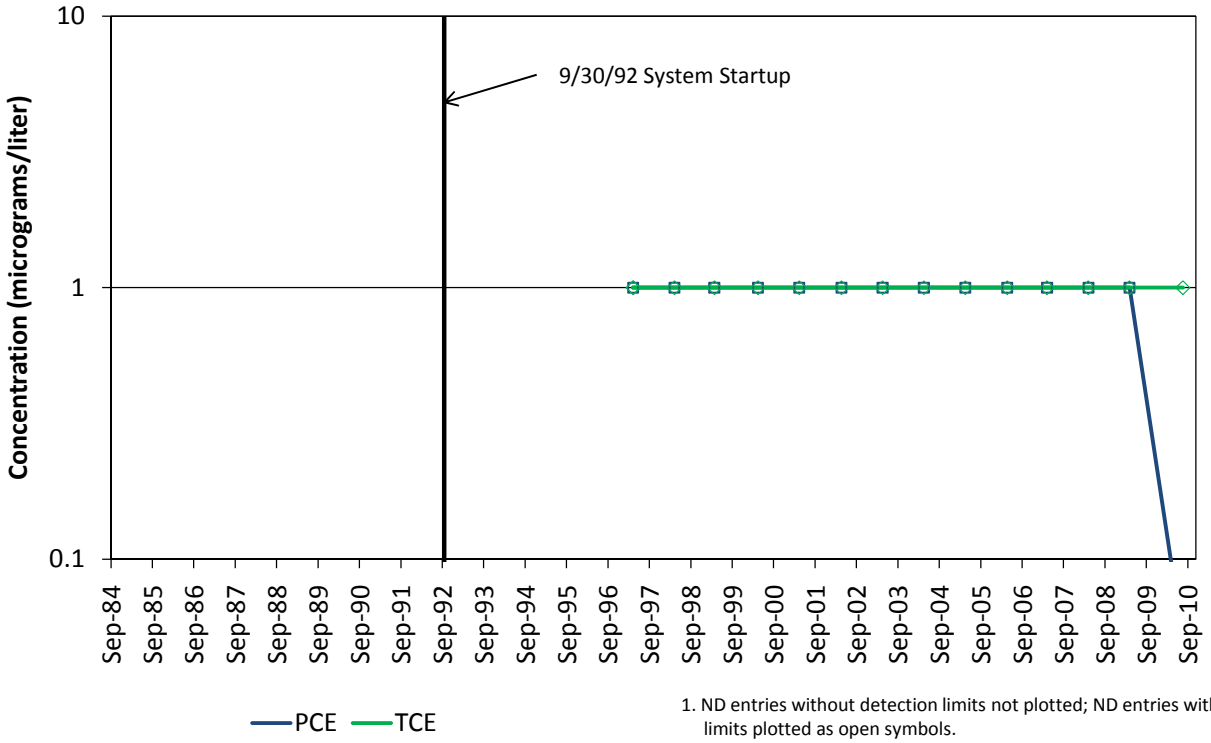
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



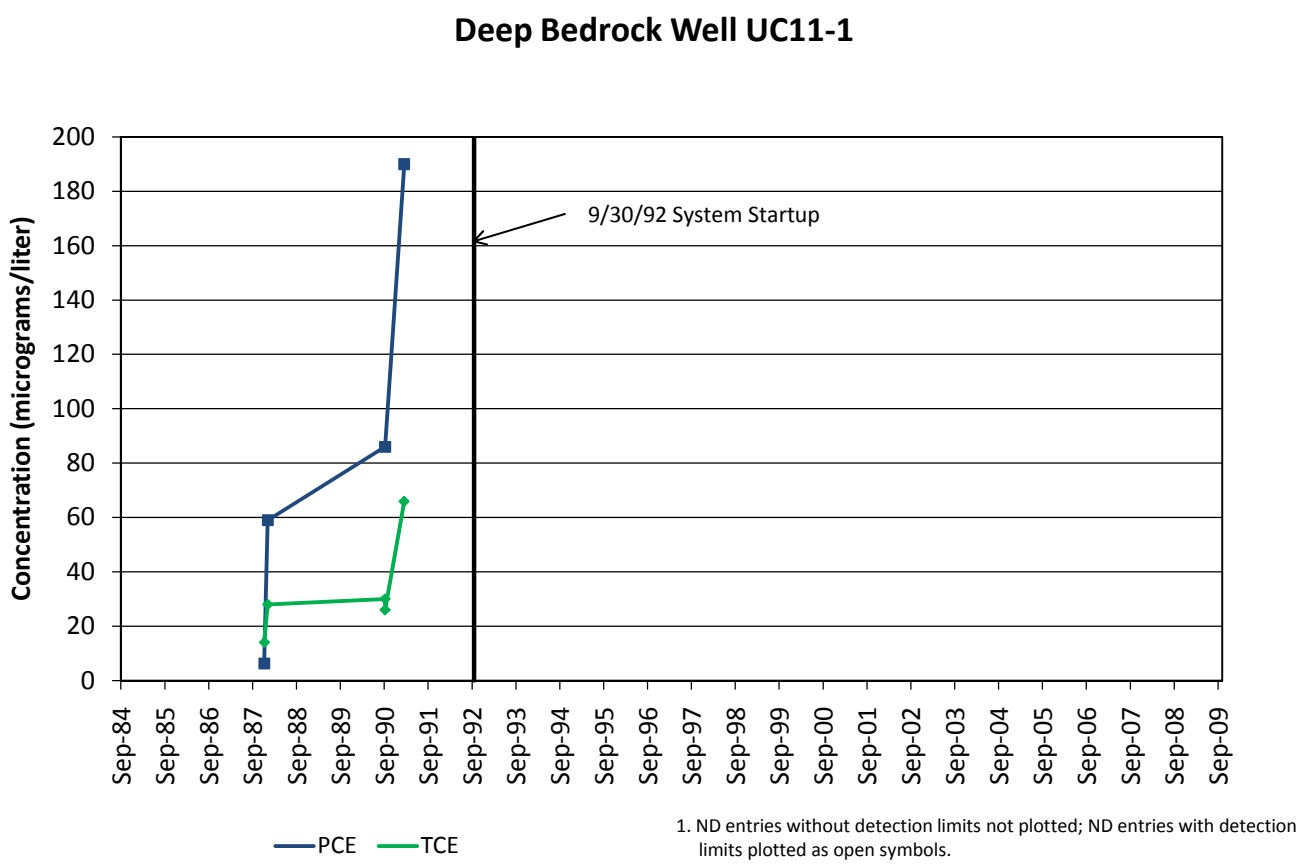
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



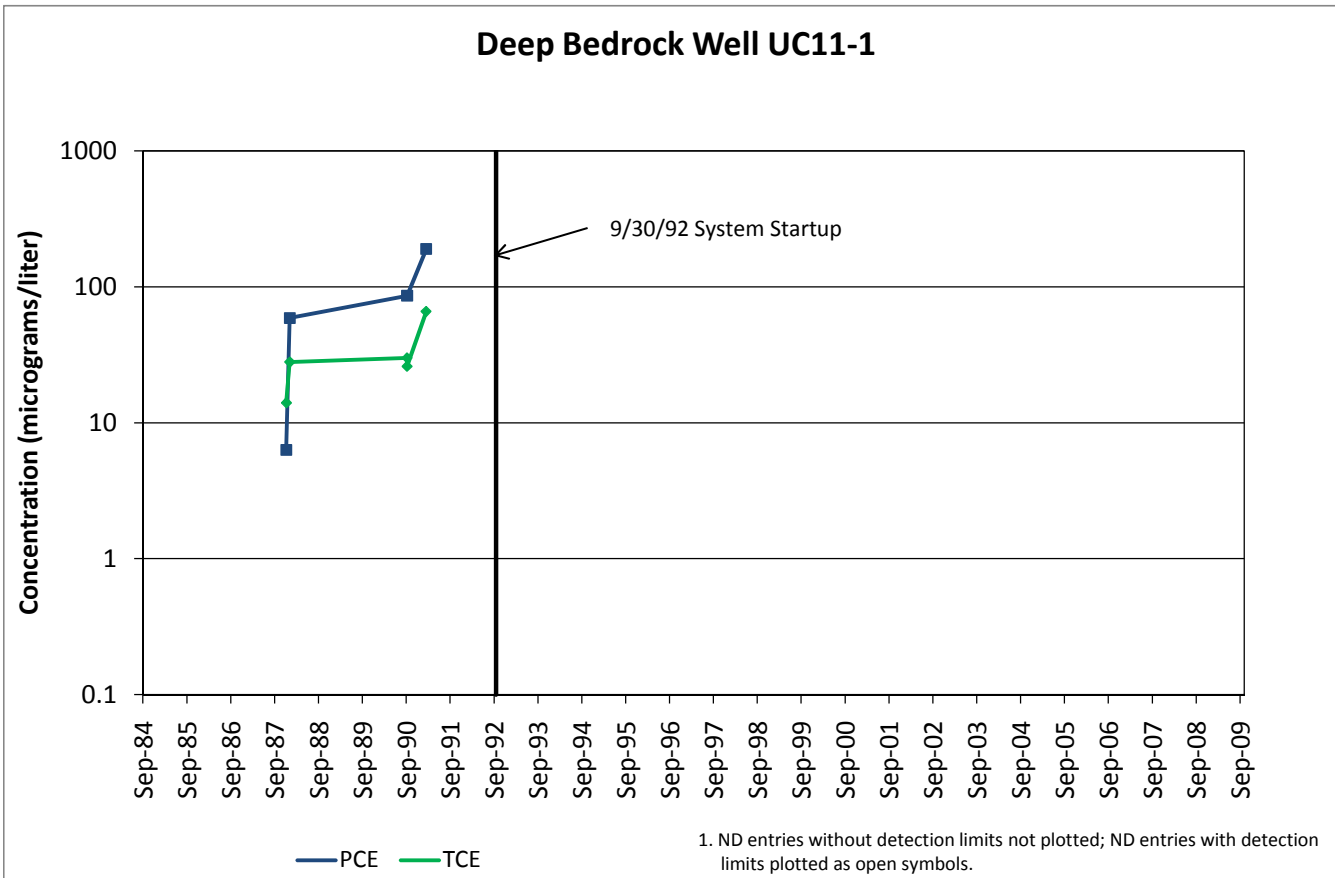
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



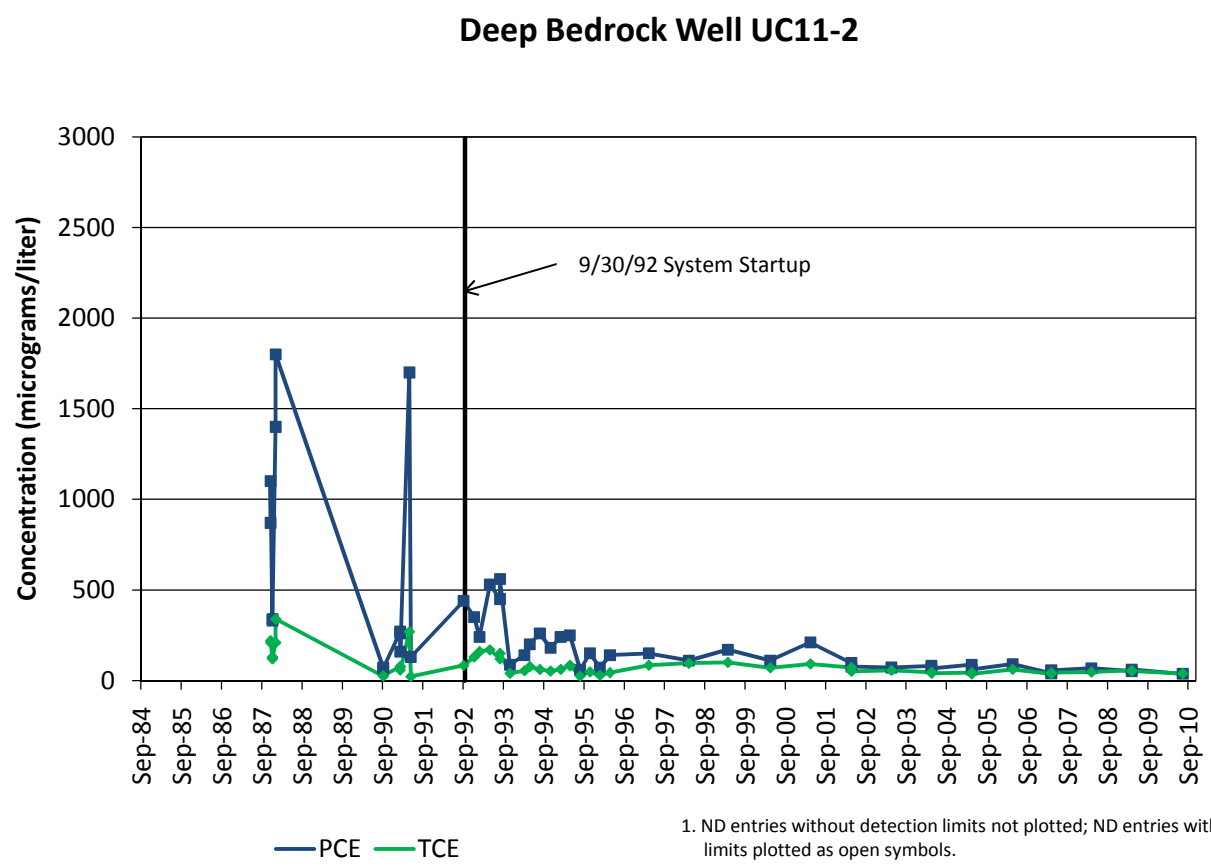
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



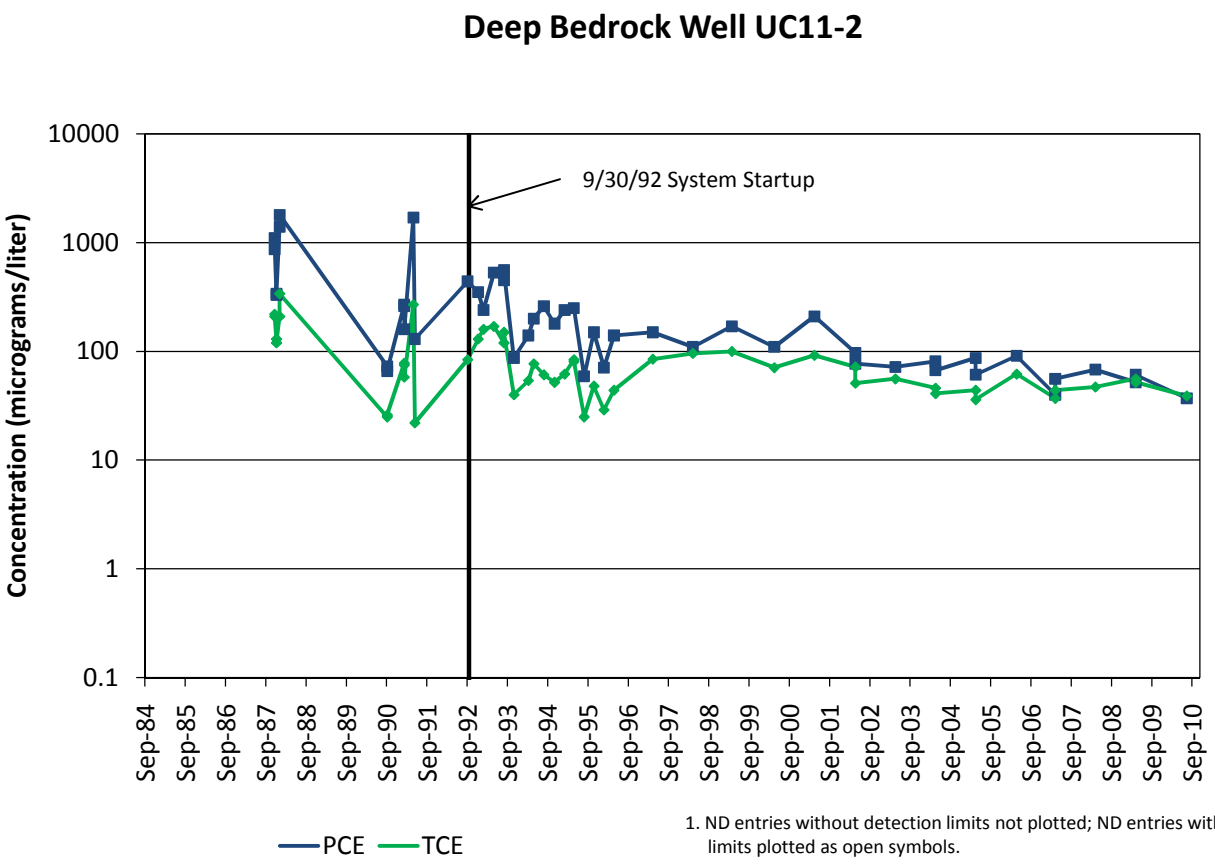
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



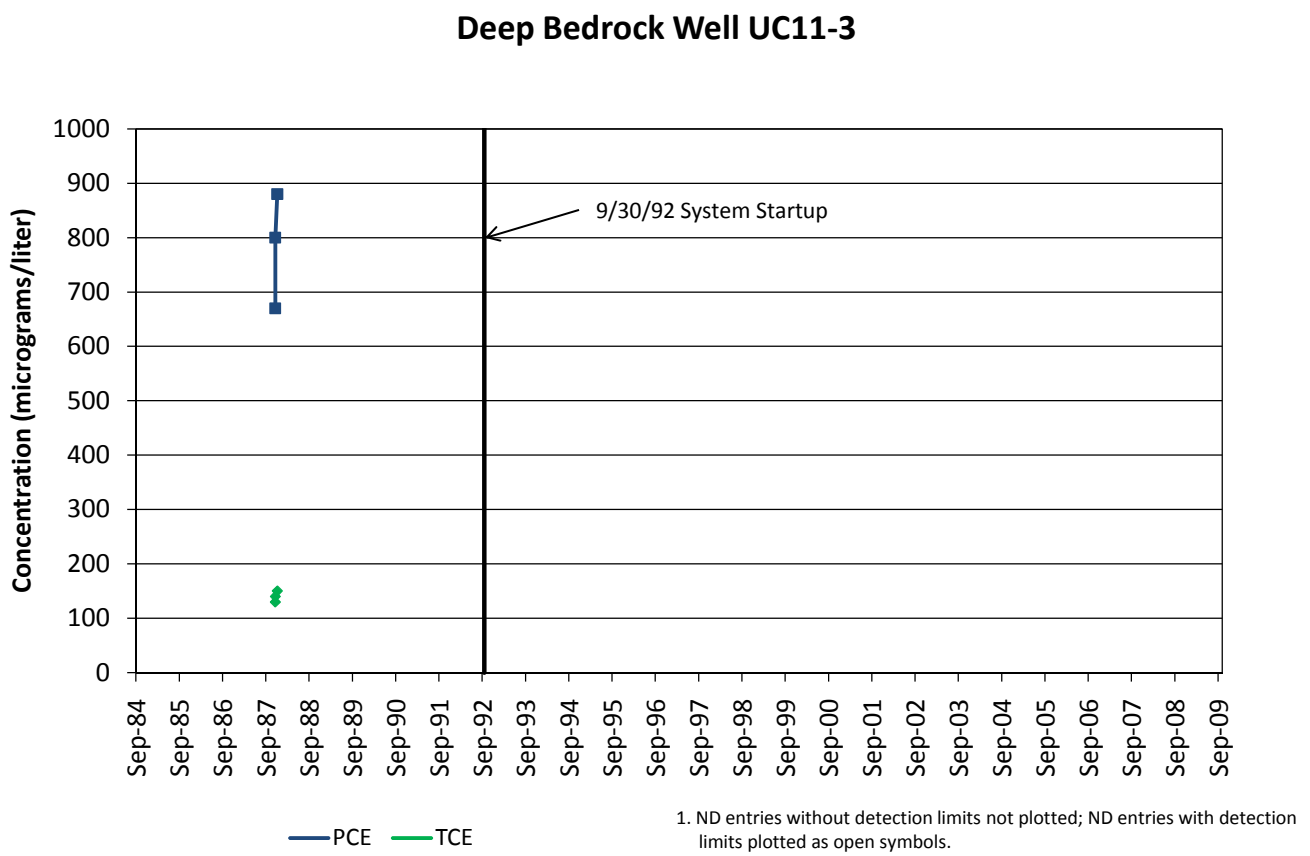
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



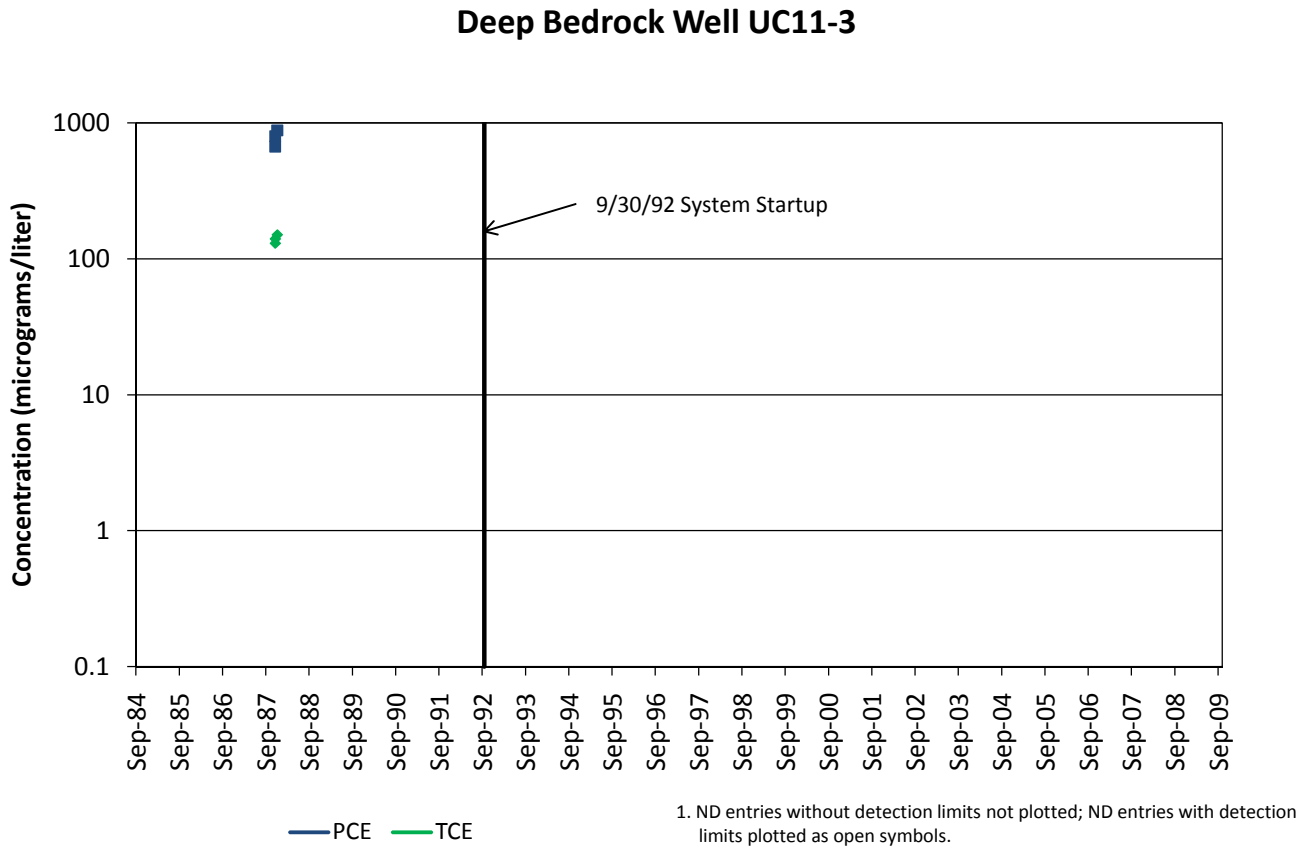
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



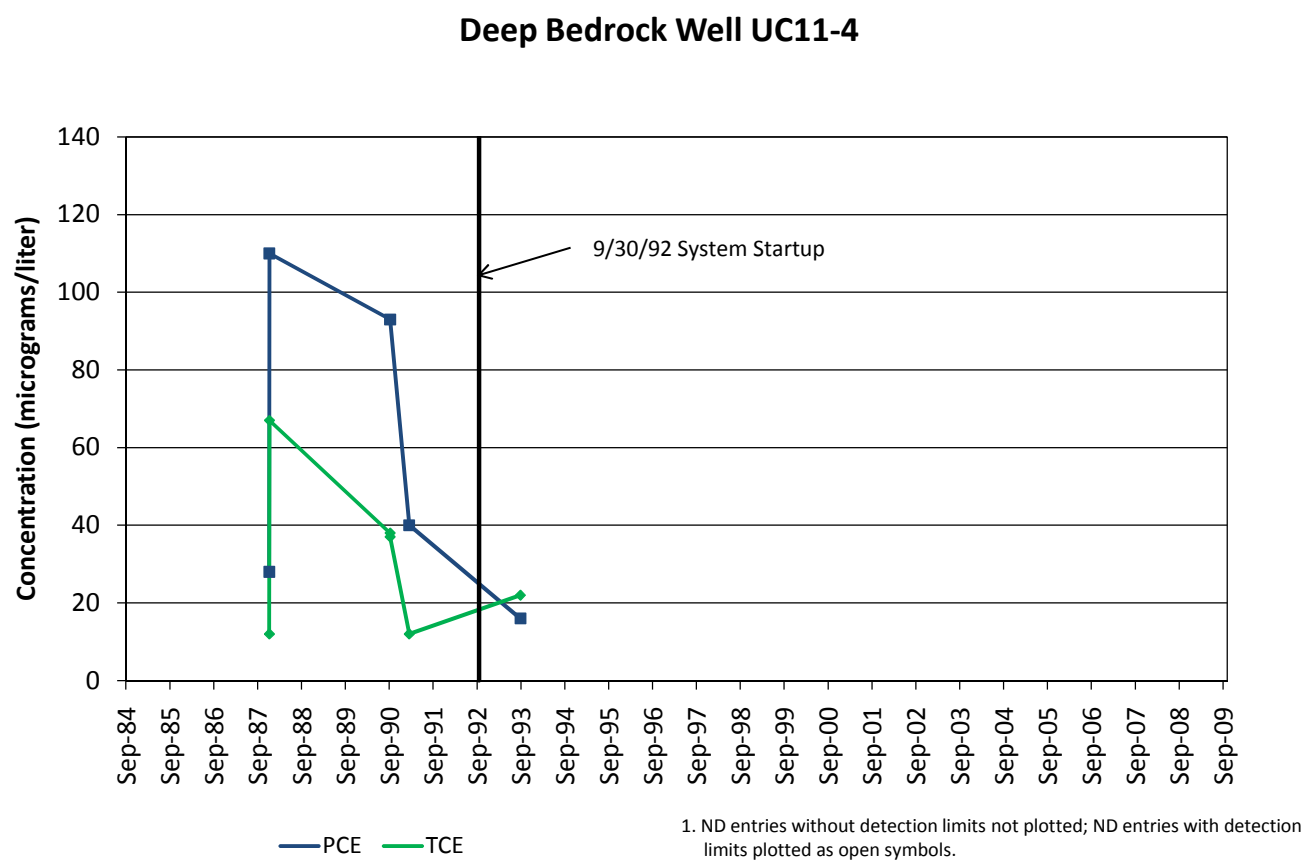
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



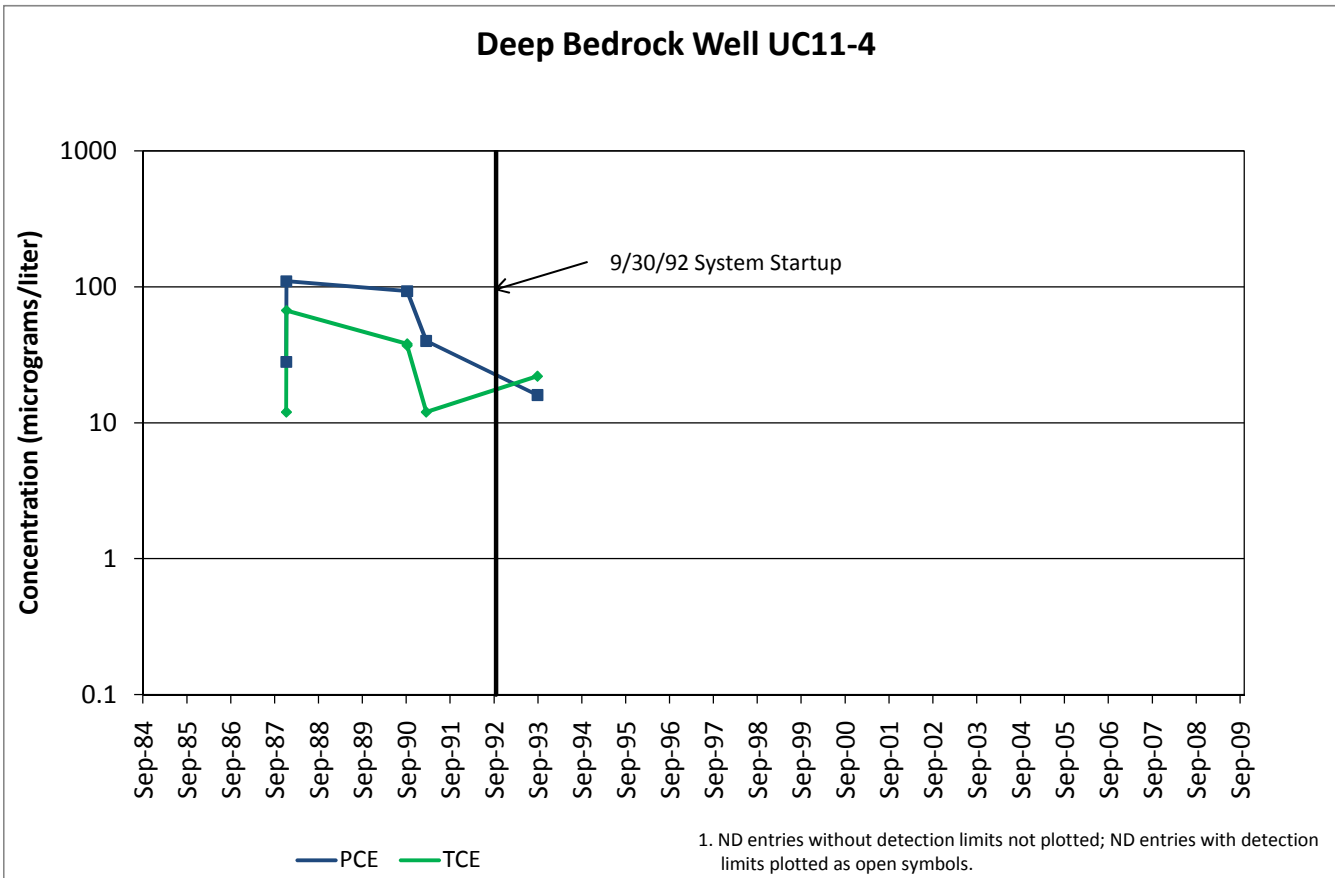
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



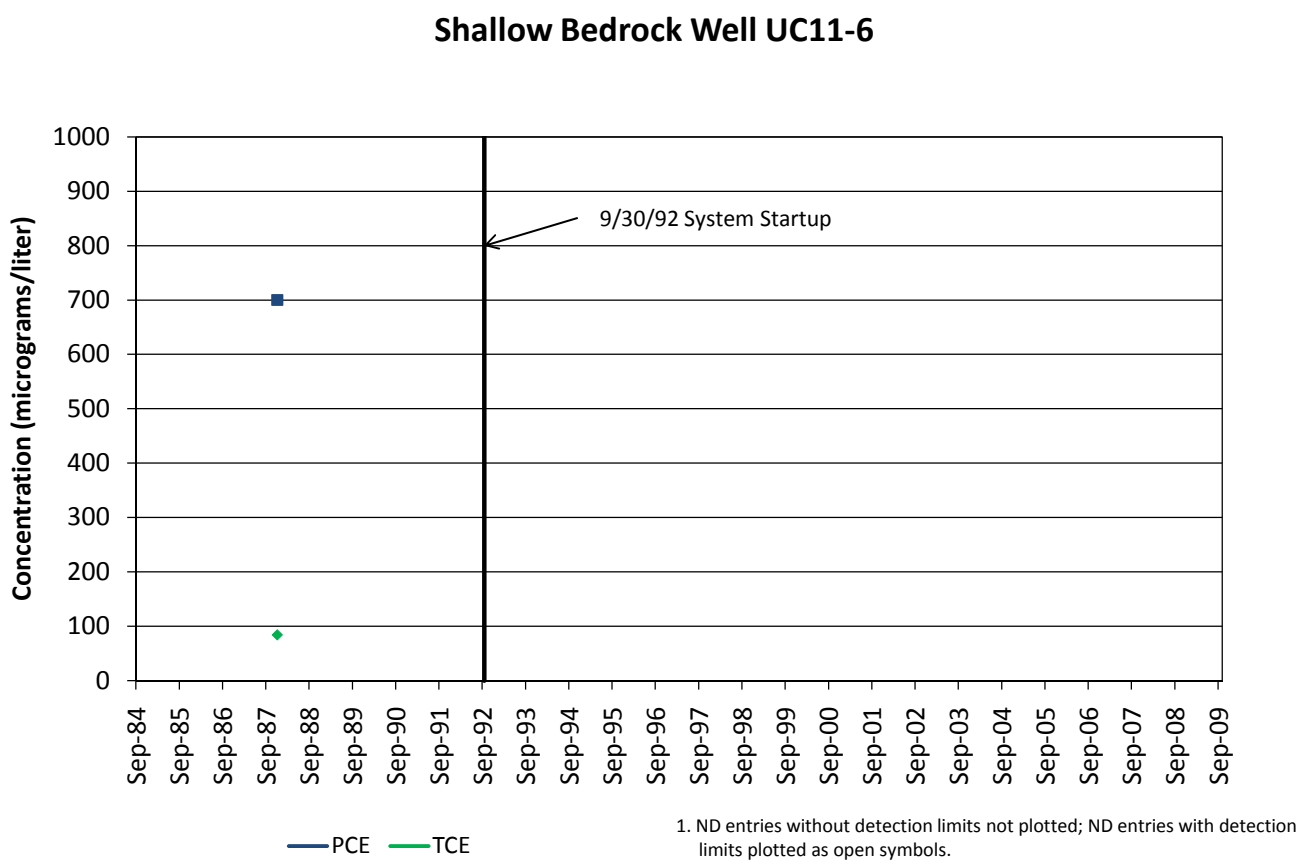
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



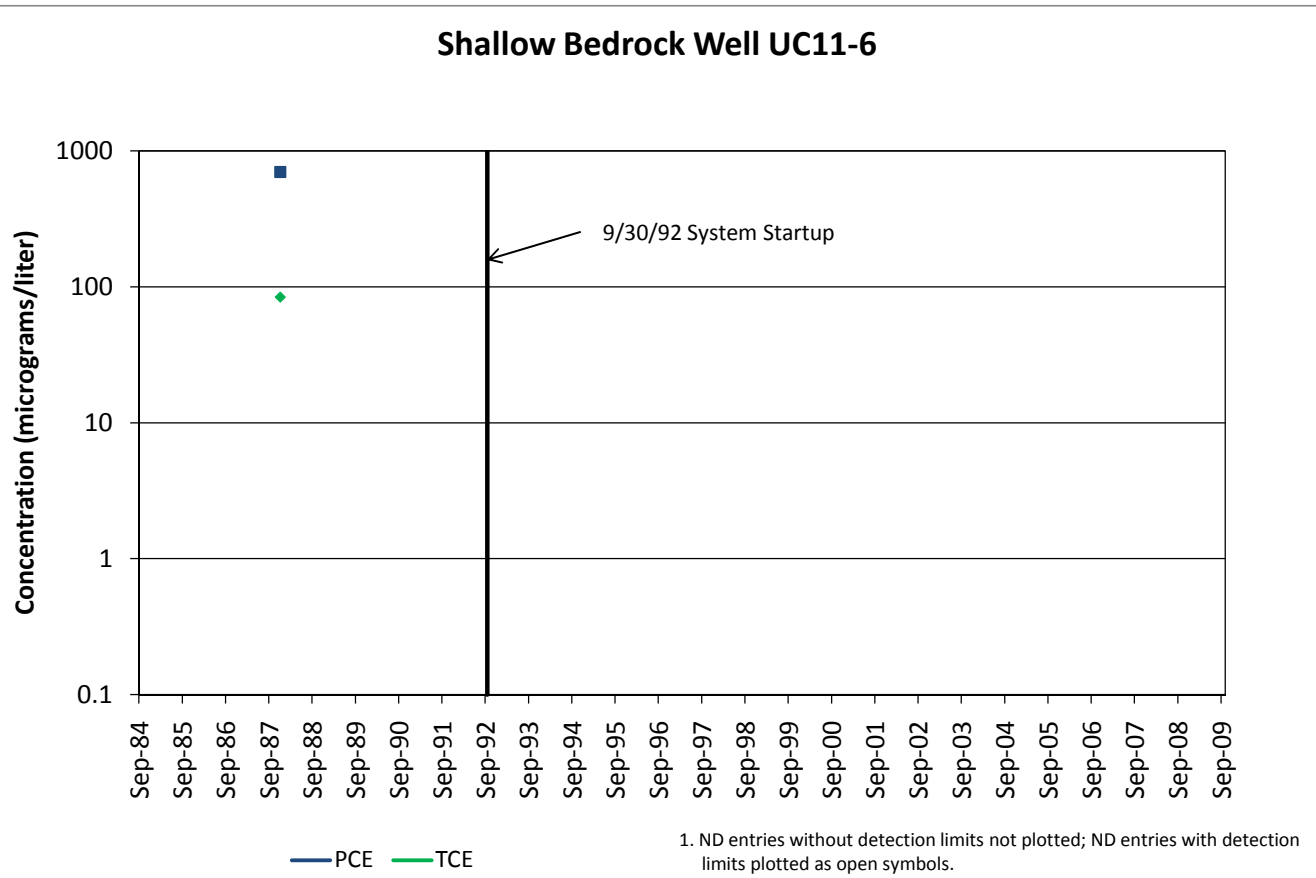
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



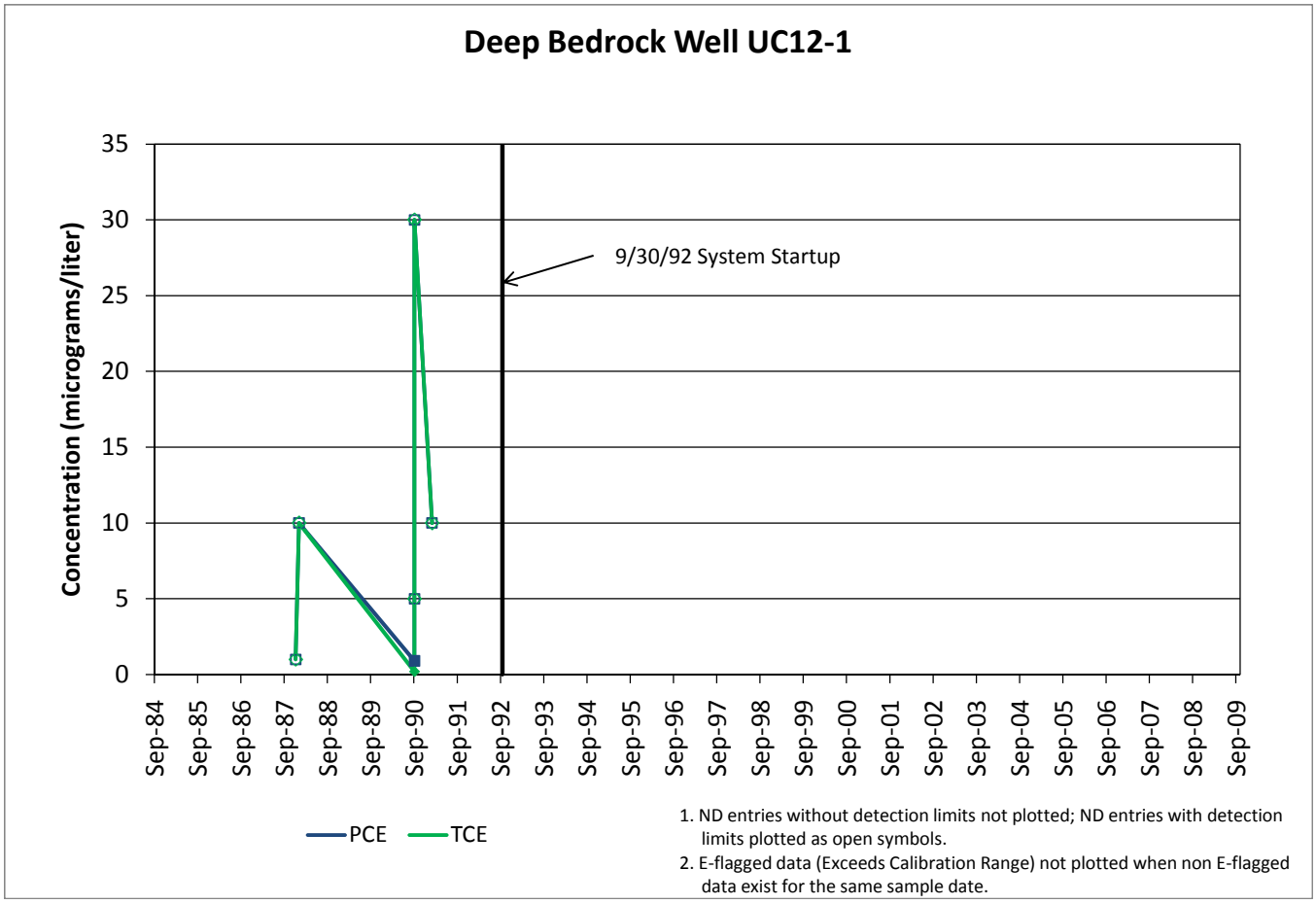
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

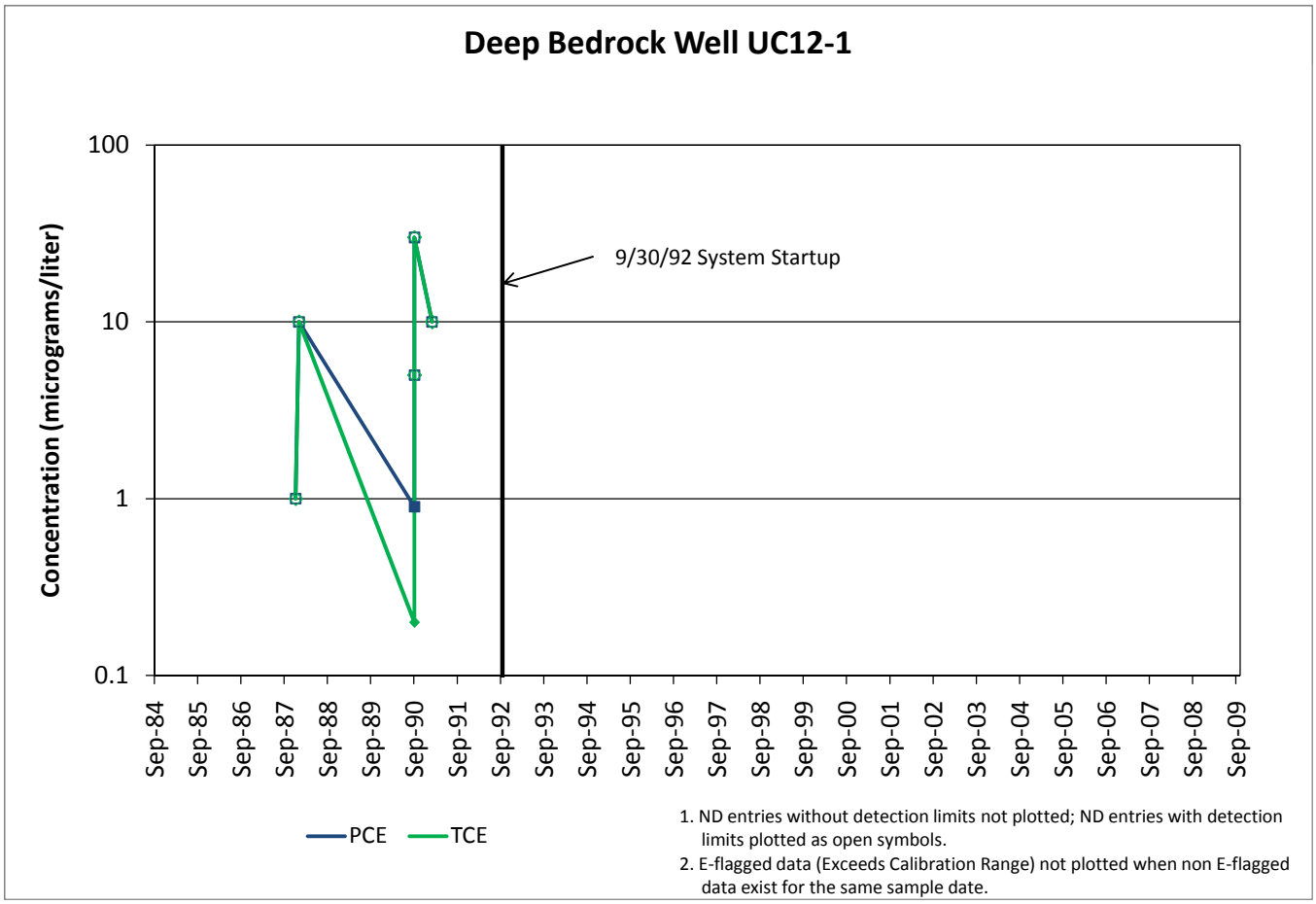


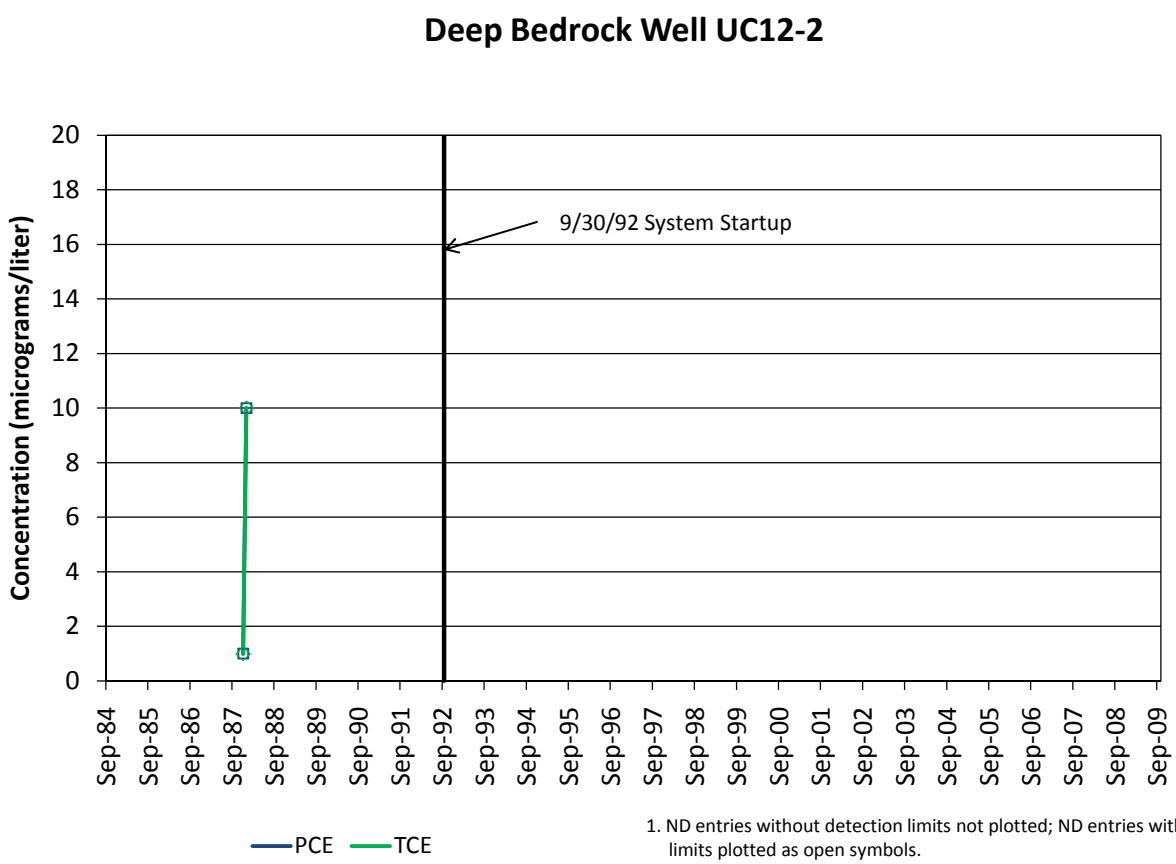
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



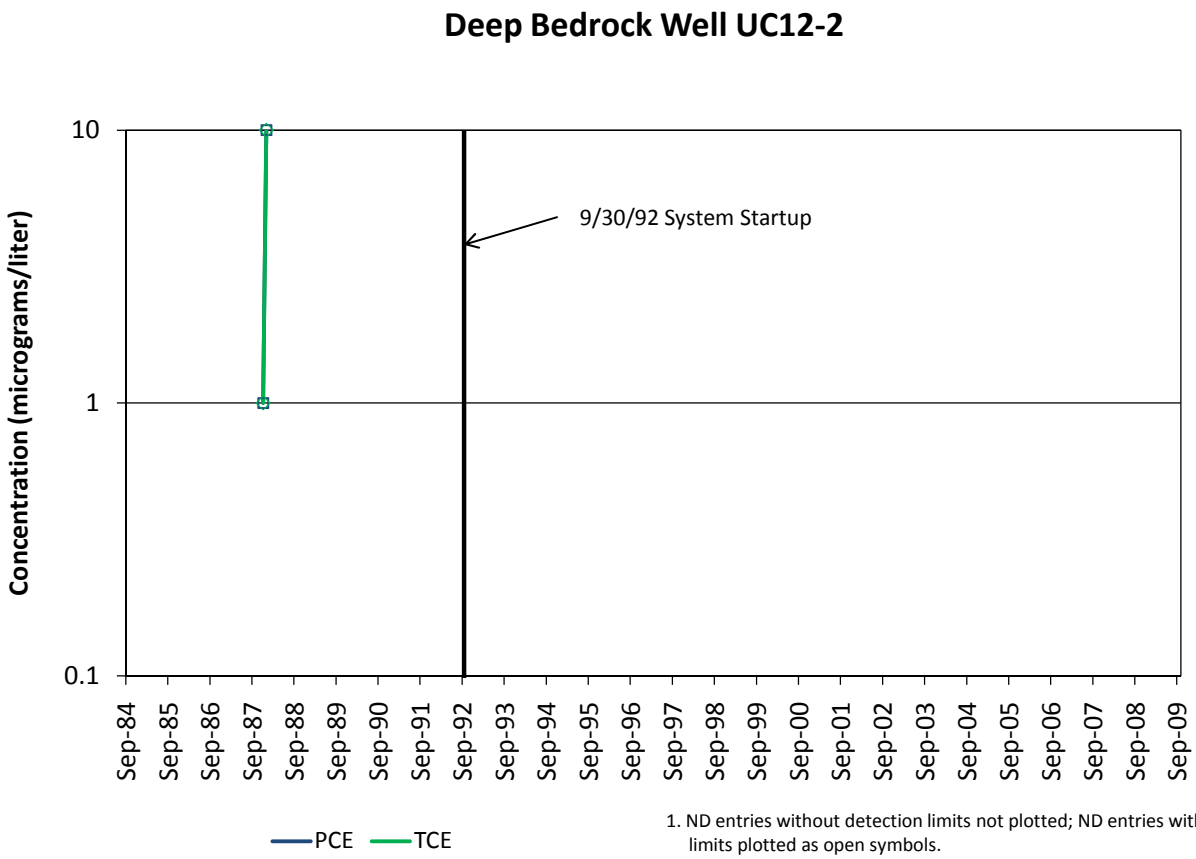
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Deep Bedrock Well UC12-1
Concentration (micrograms/liter)
35
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

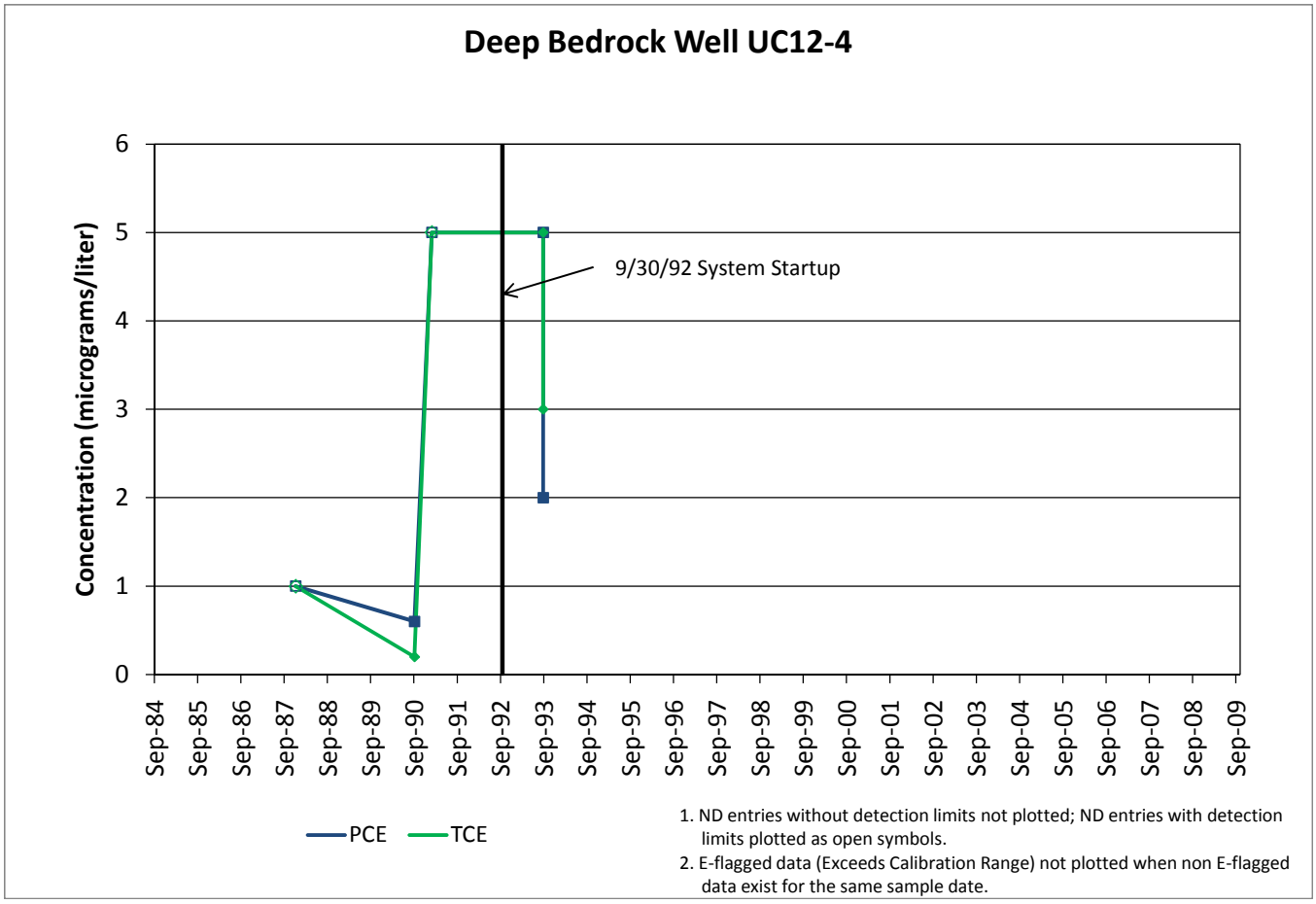

Deep Bedrock Well UC12-1
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

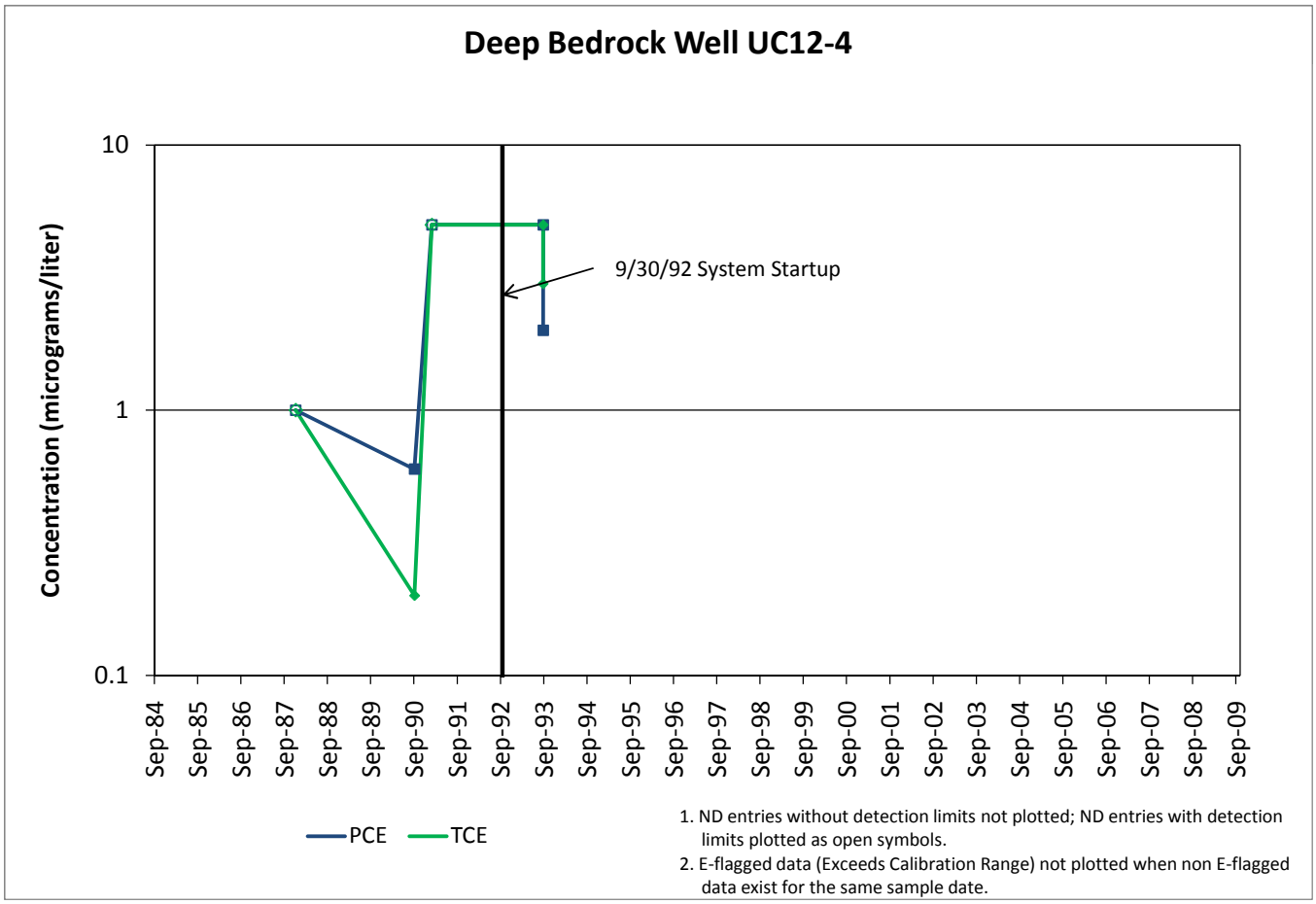


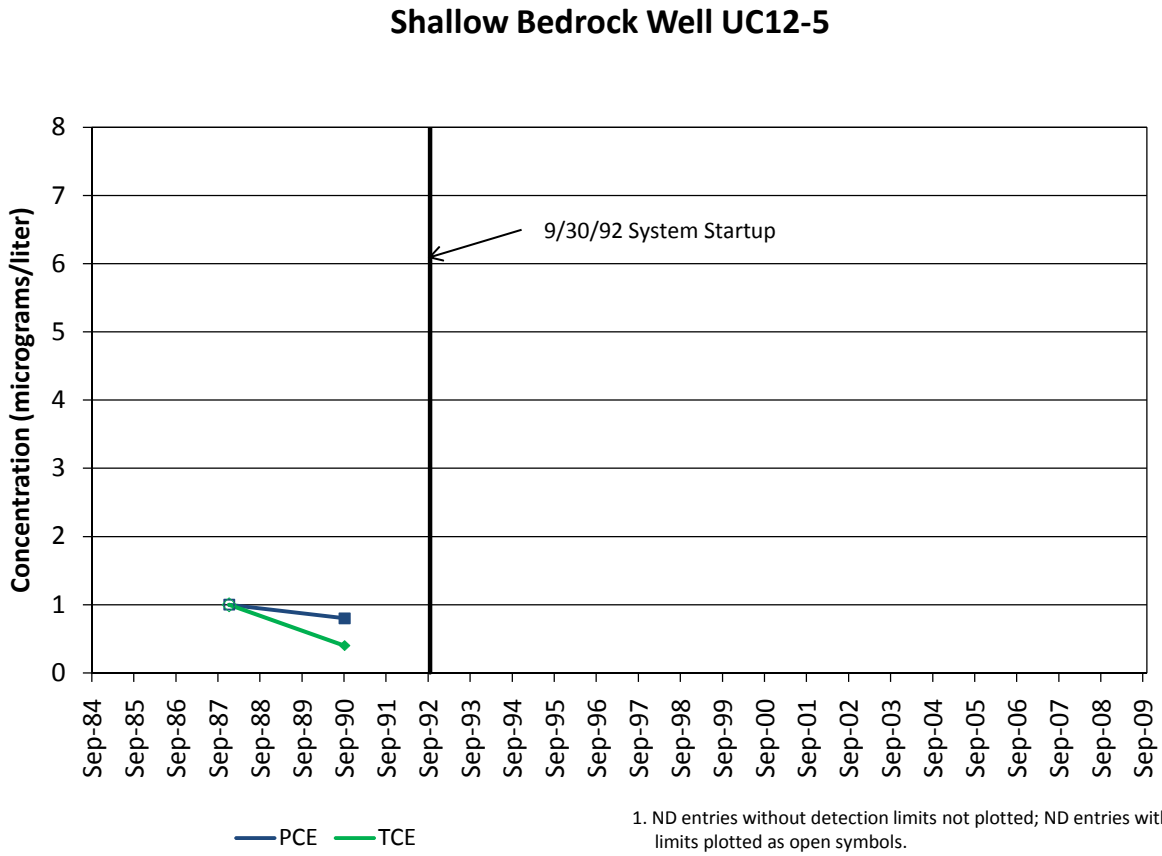
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



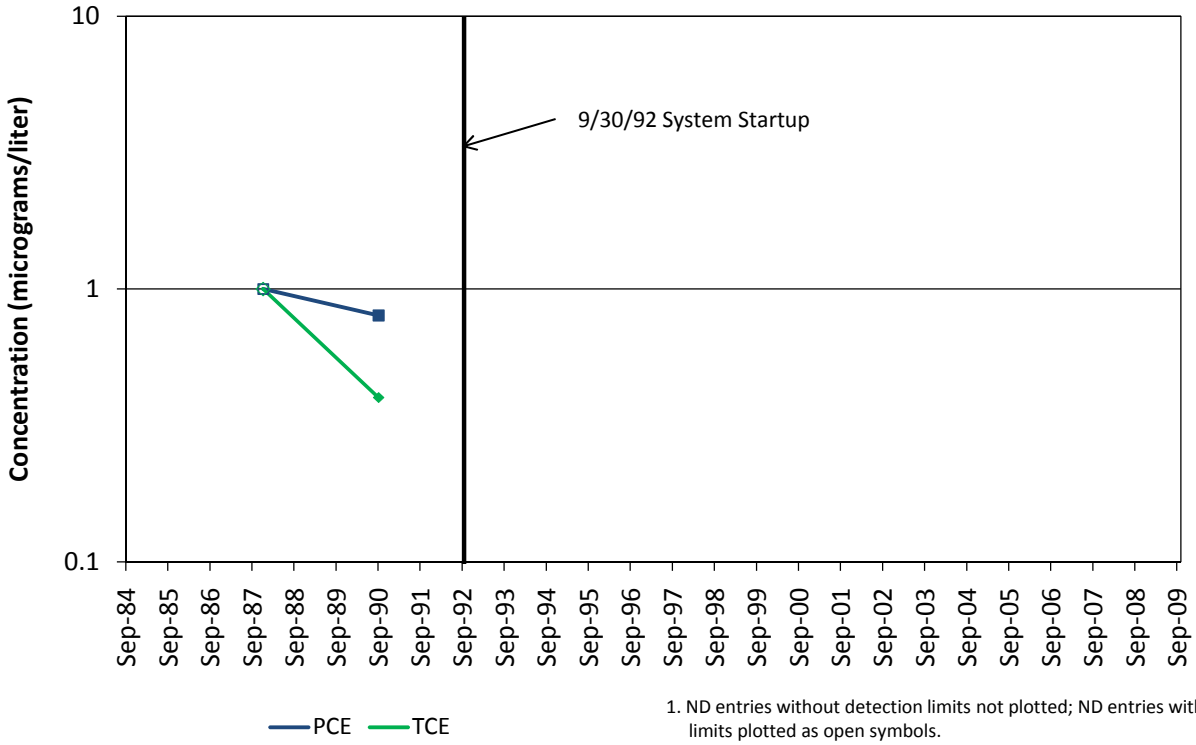
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Deep Bedrock Well UC12-4
Concentration (micrograms/liter)
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

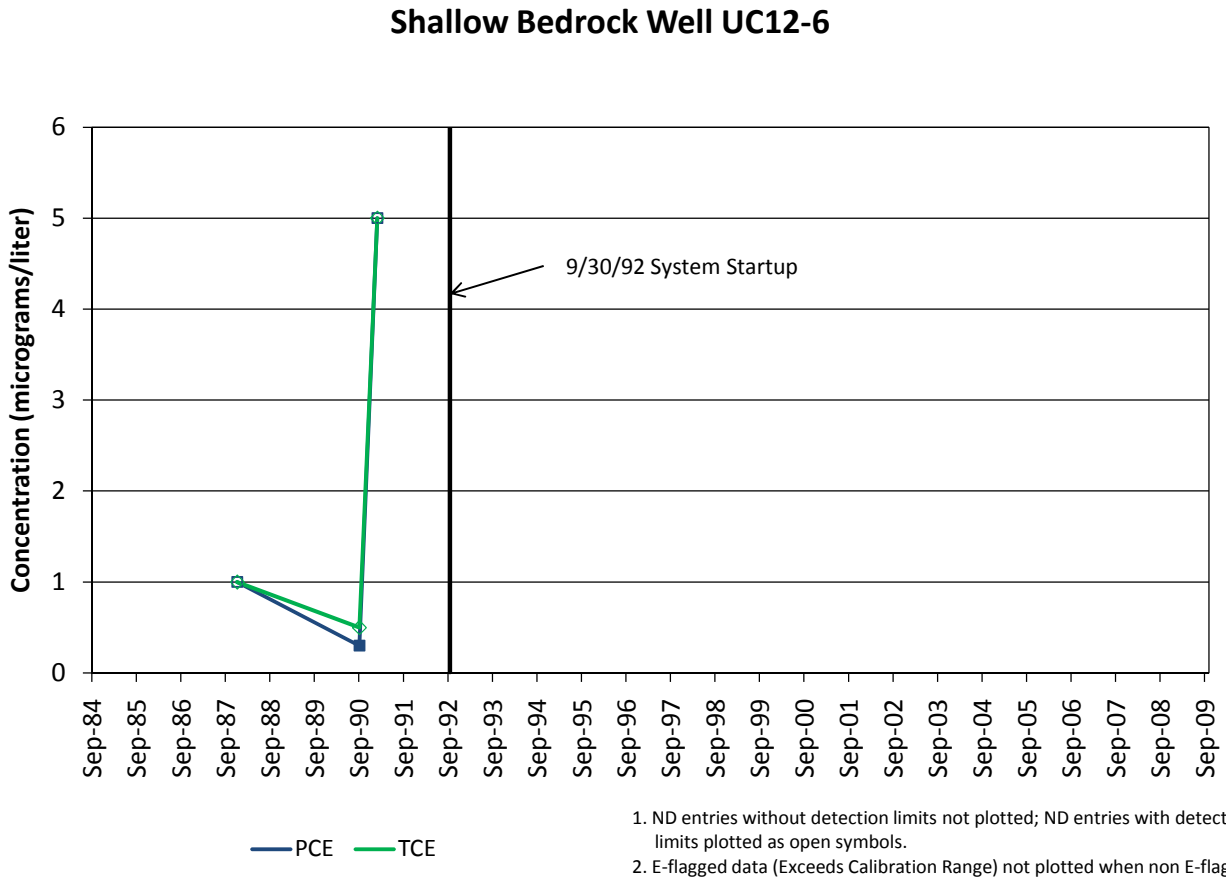

Deep Bedrock Well UC12-4
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



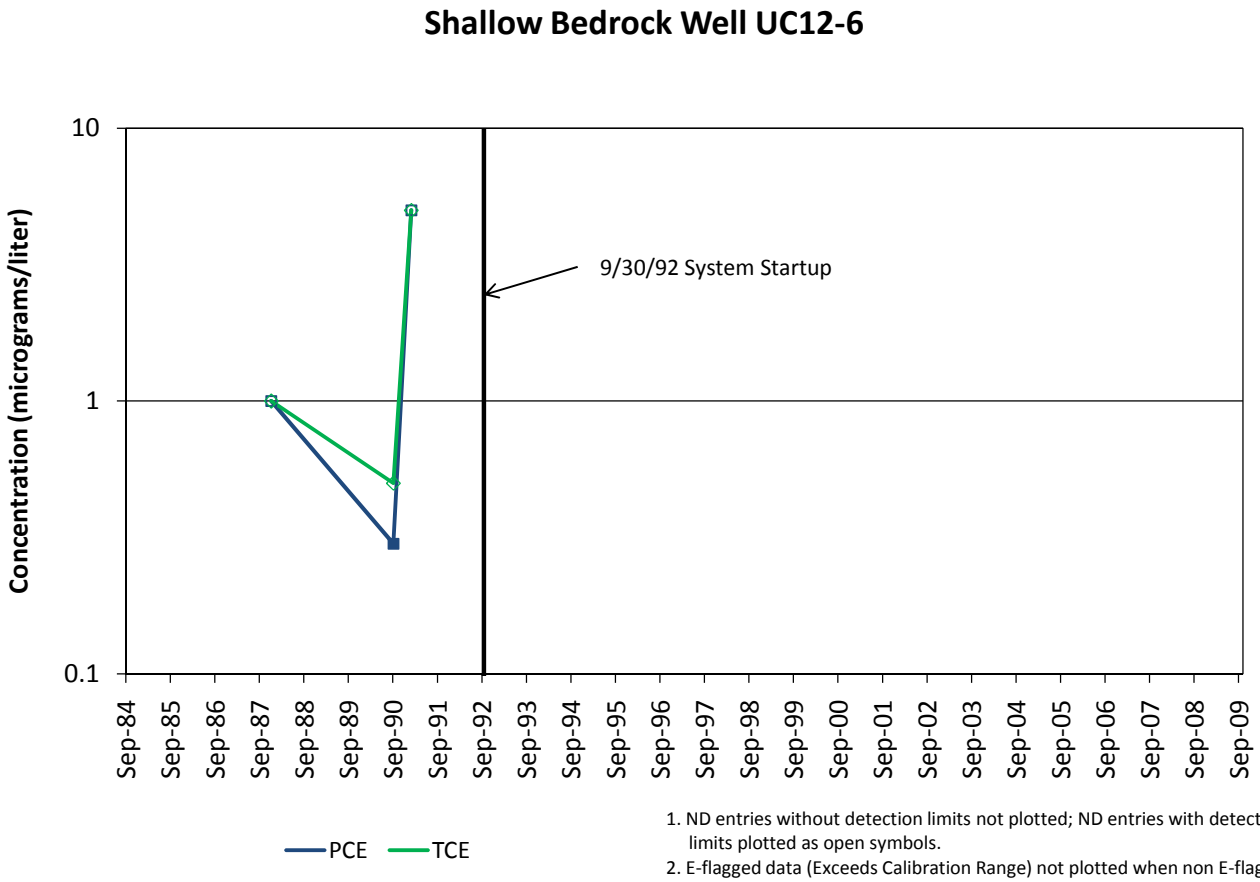
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



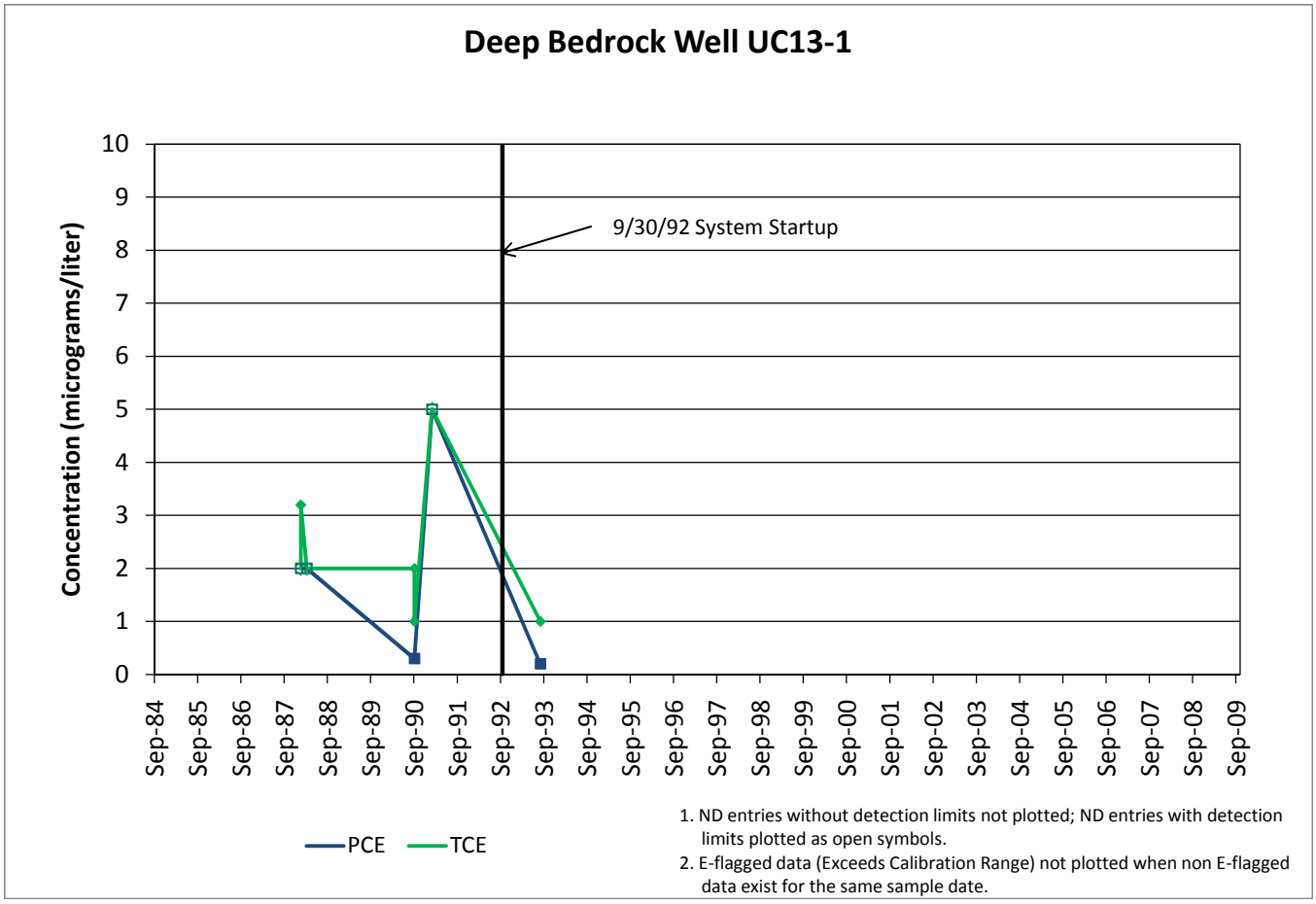
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

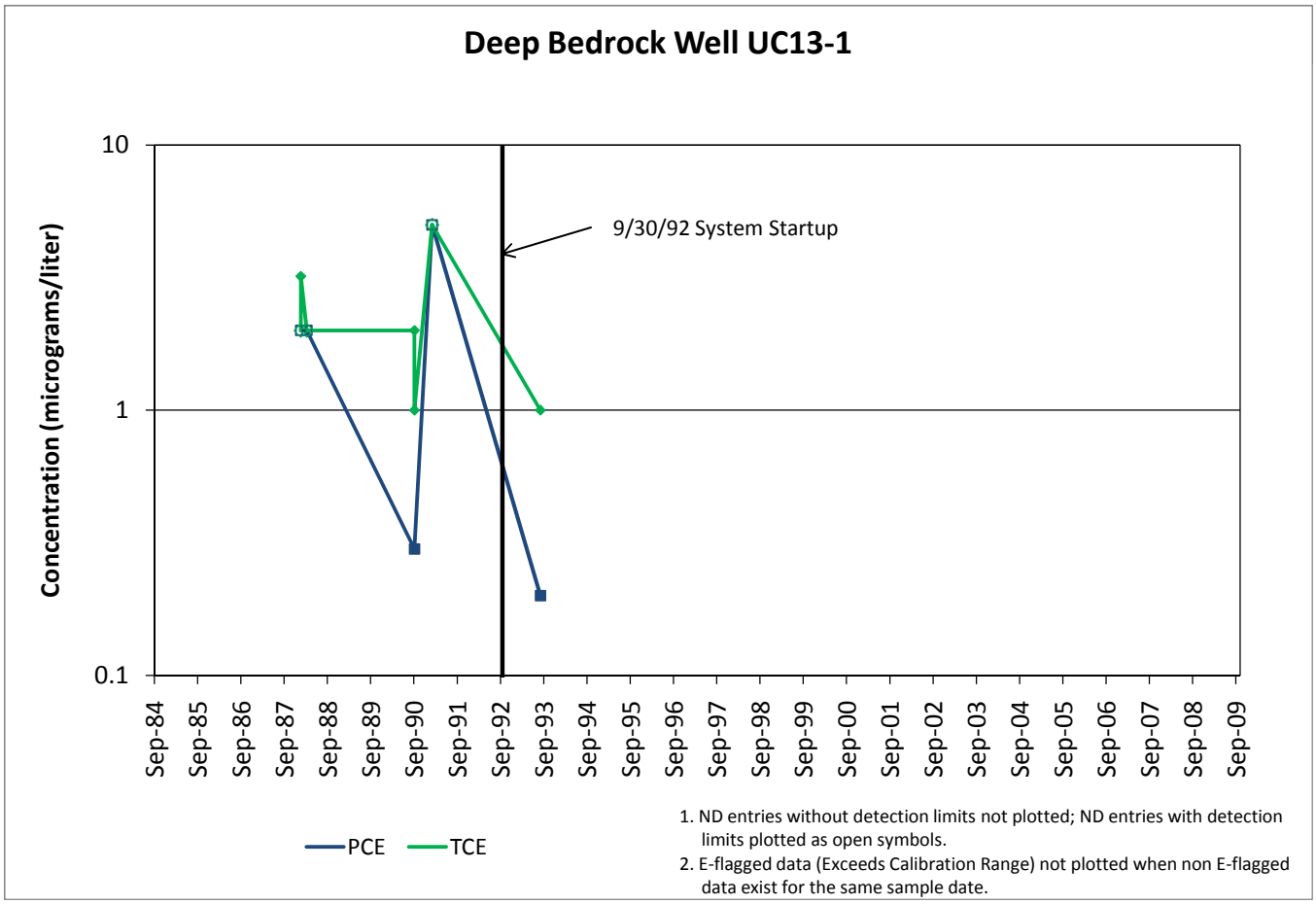


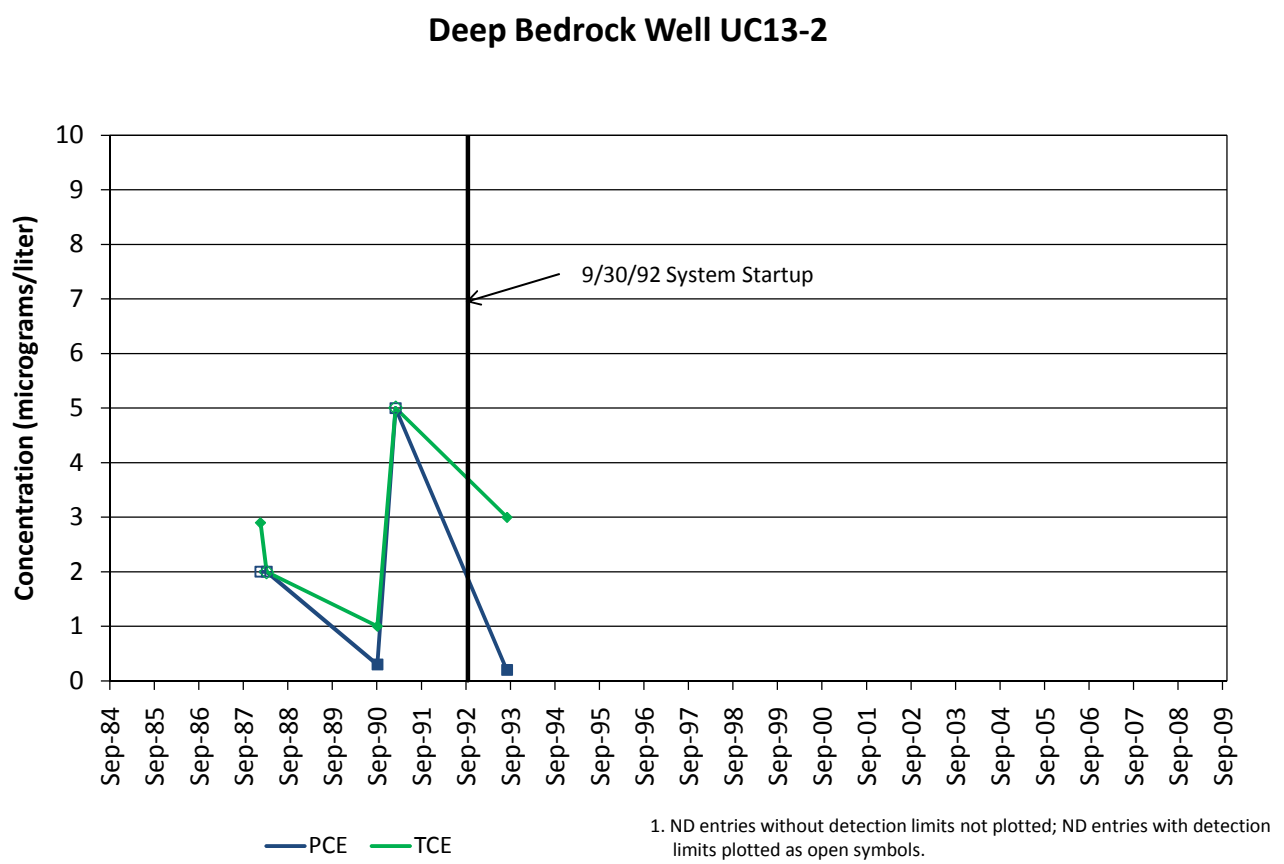
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



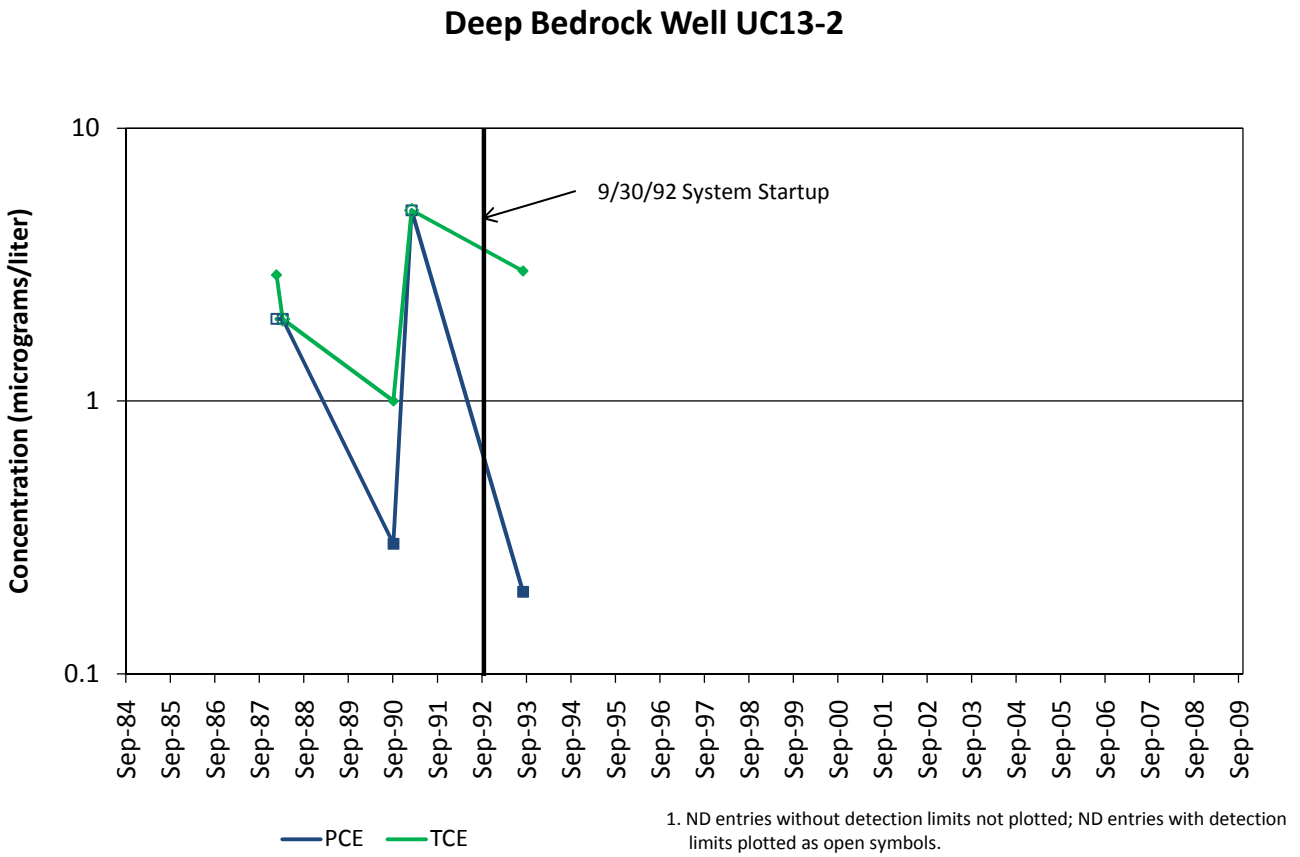
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Deep Bedrock Well UC13-1
Concentration (micrograms/liter)
10
9
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

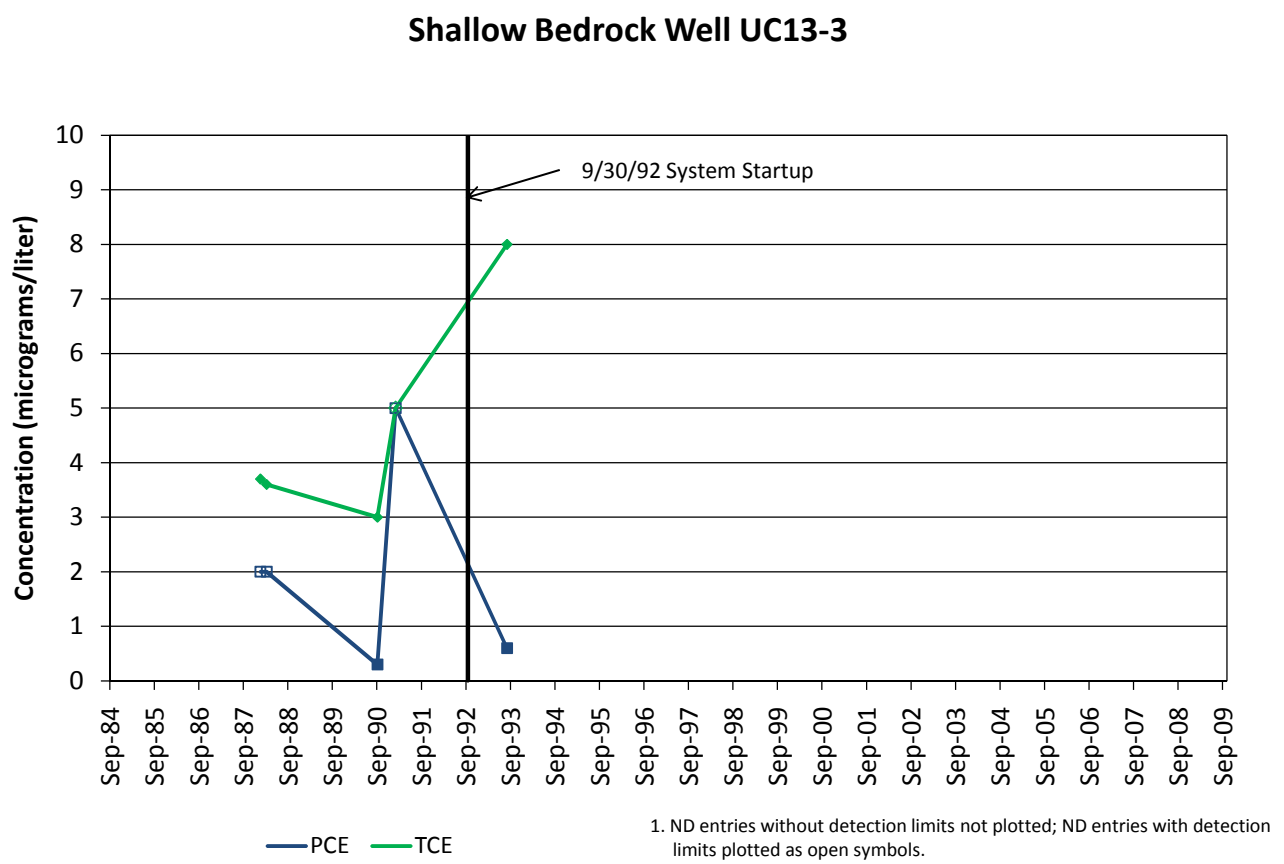

Deep Bedrock Well UC13-1
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



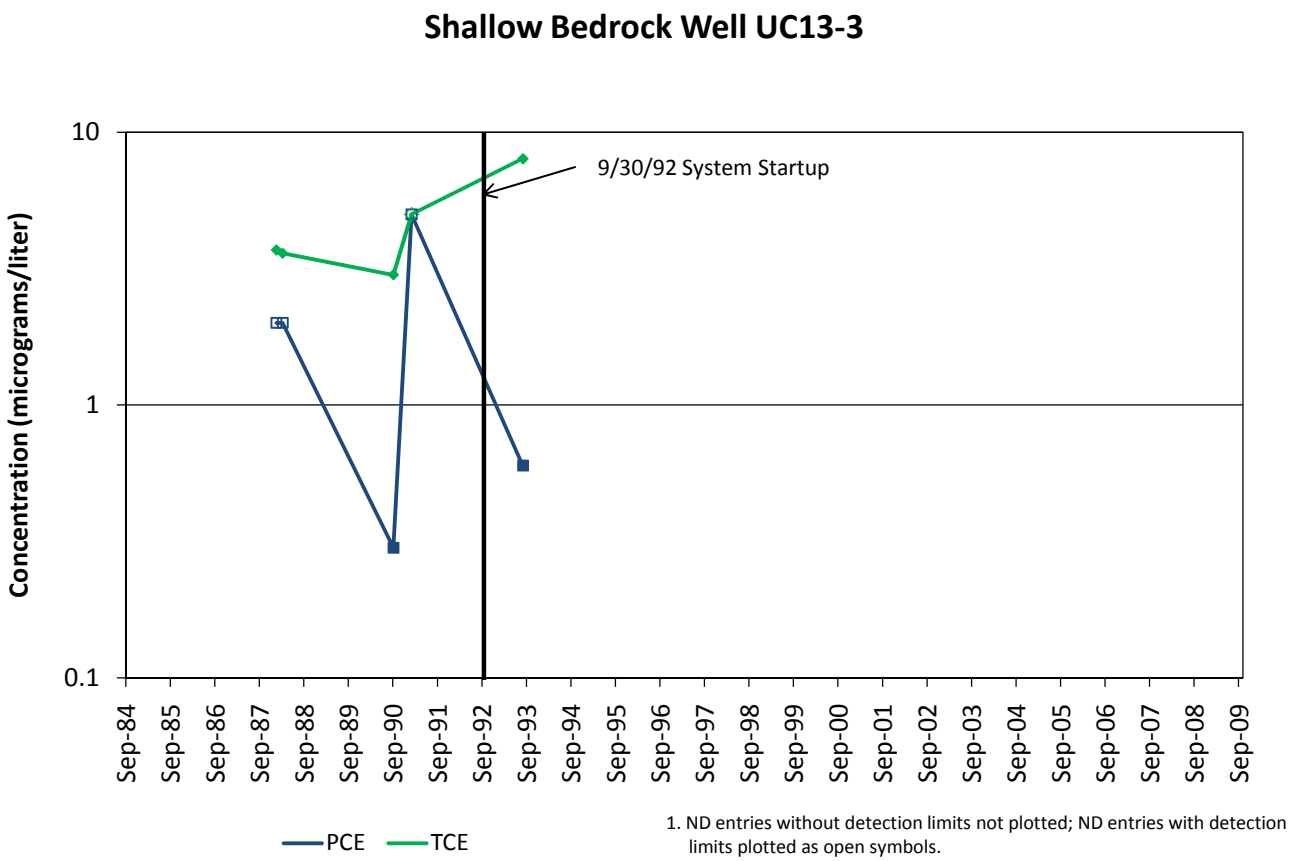
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



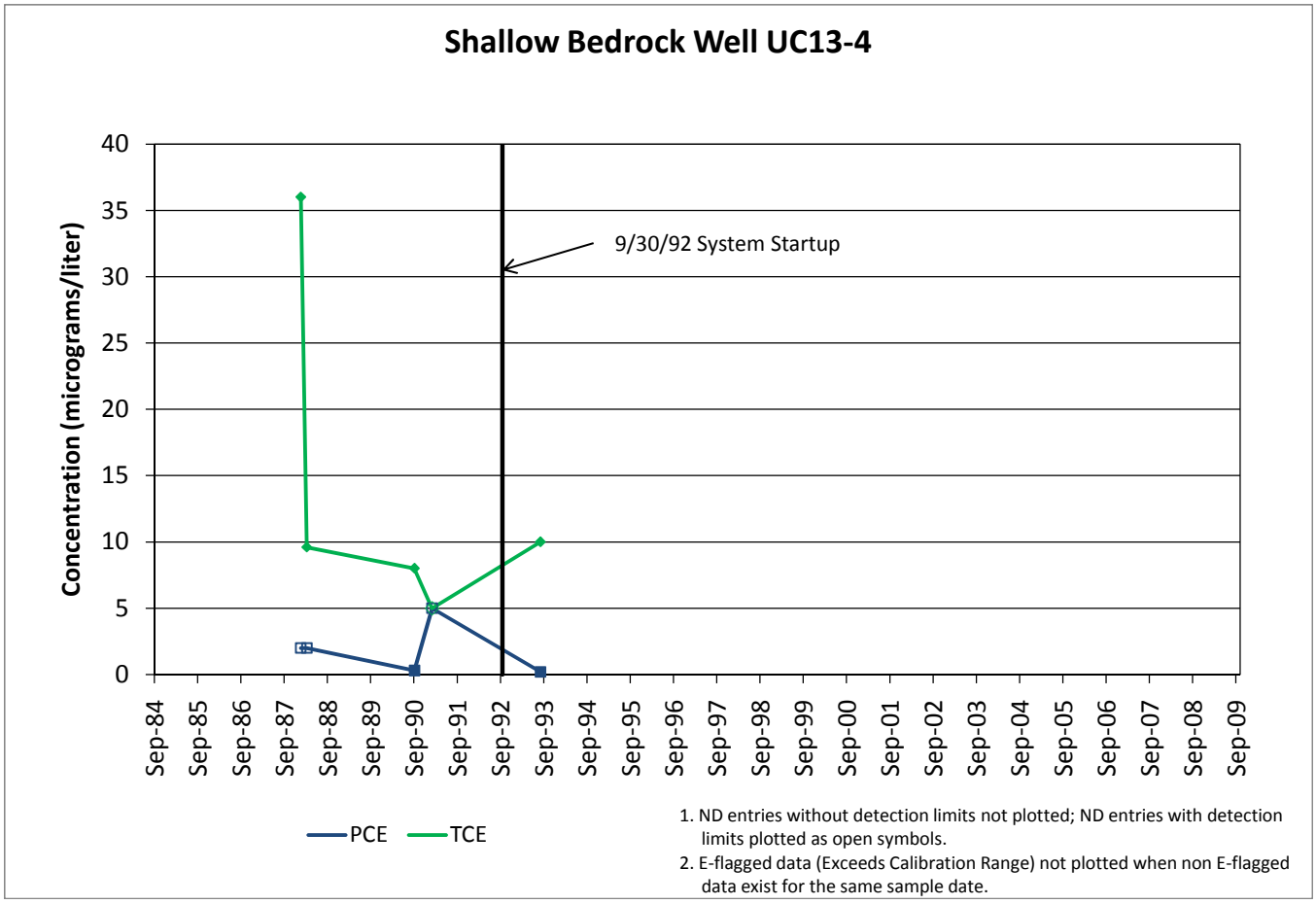
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

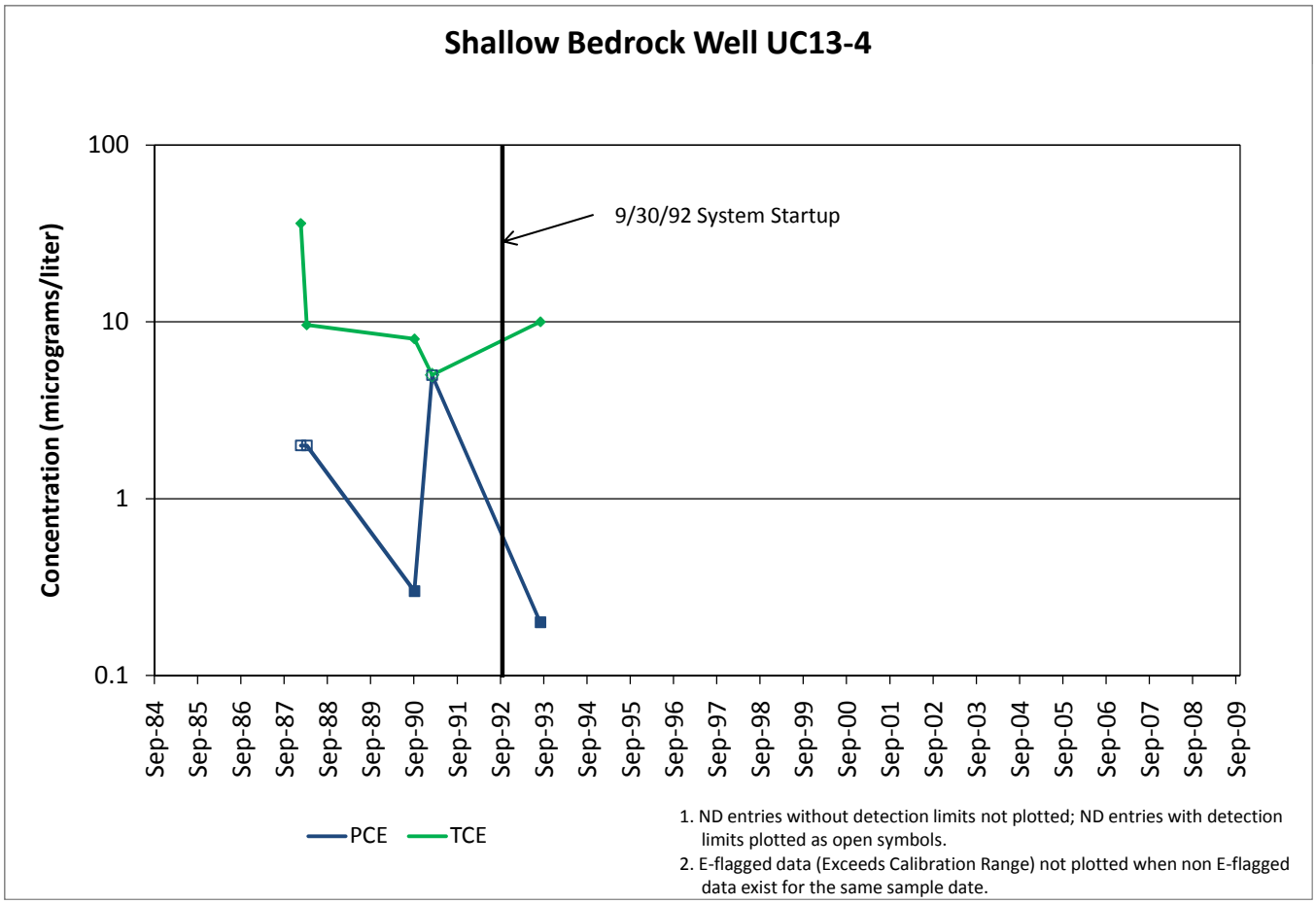


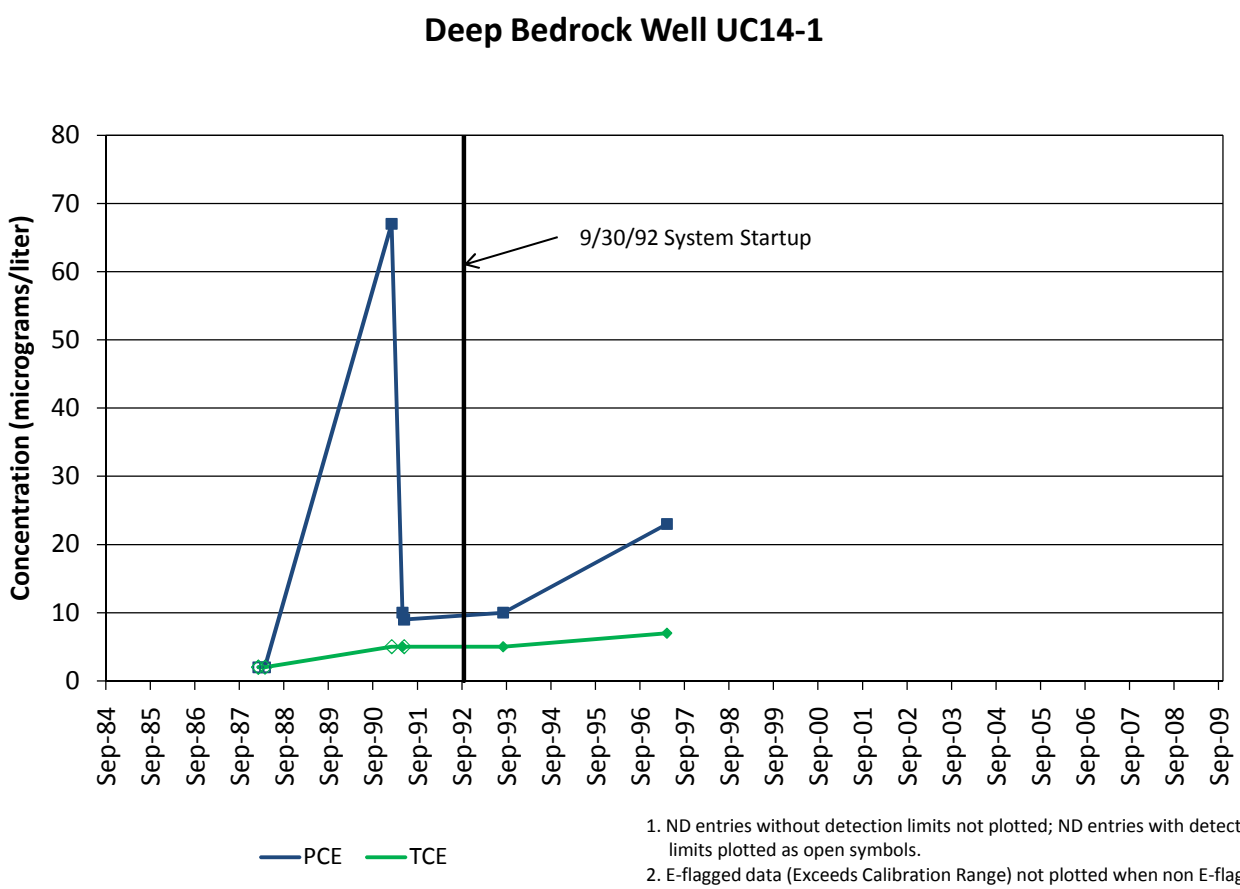
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



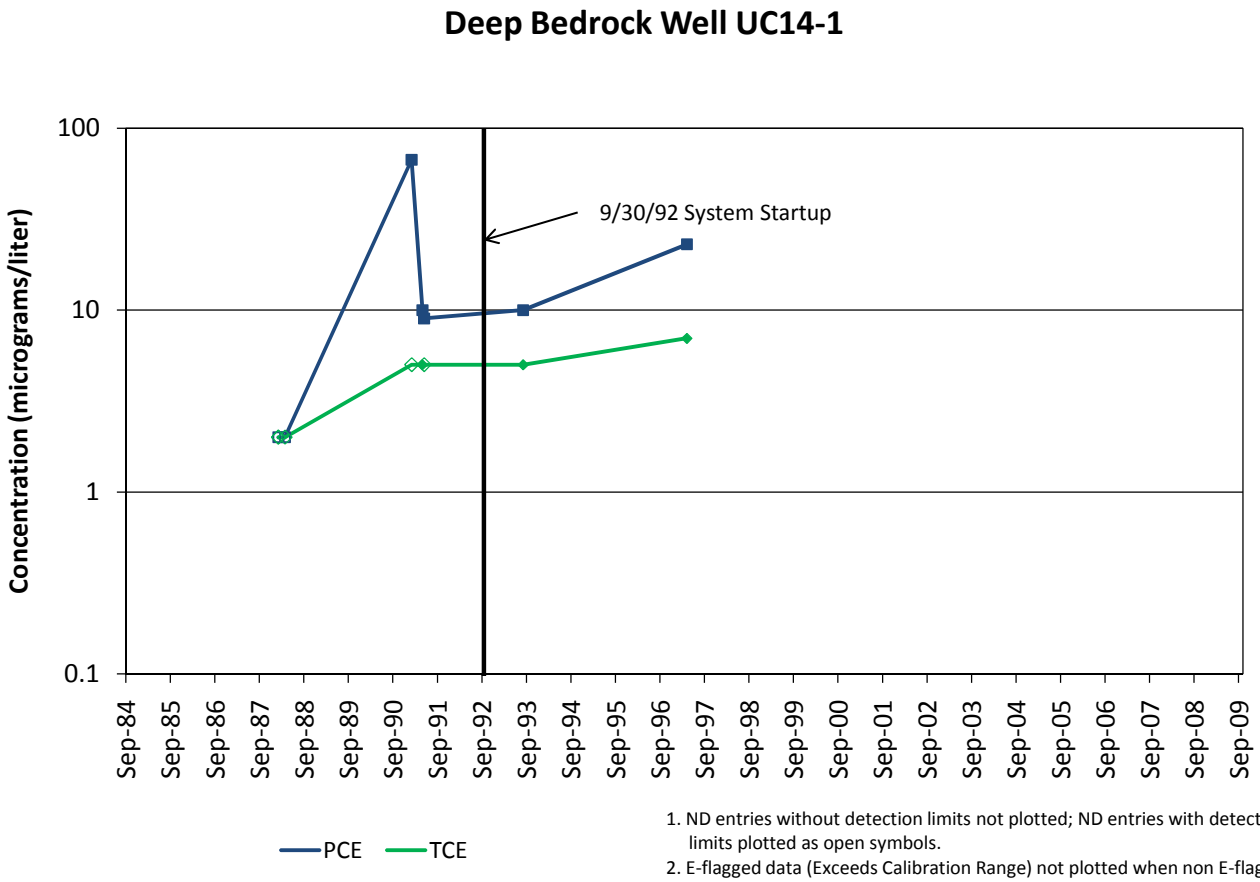
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Shallow Bedrock Well UC13-4
Concentration (micrograms/liter)
40
35
30
25
20
15
10
5
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

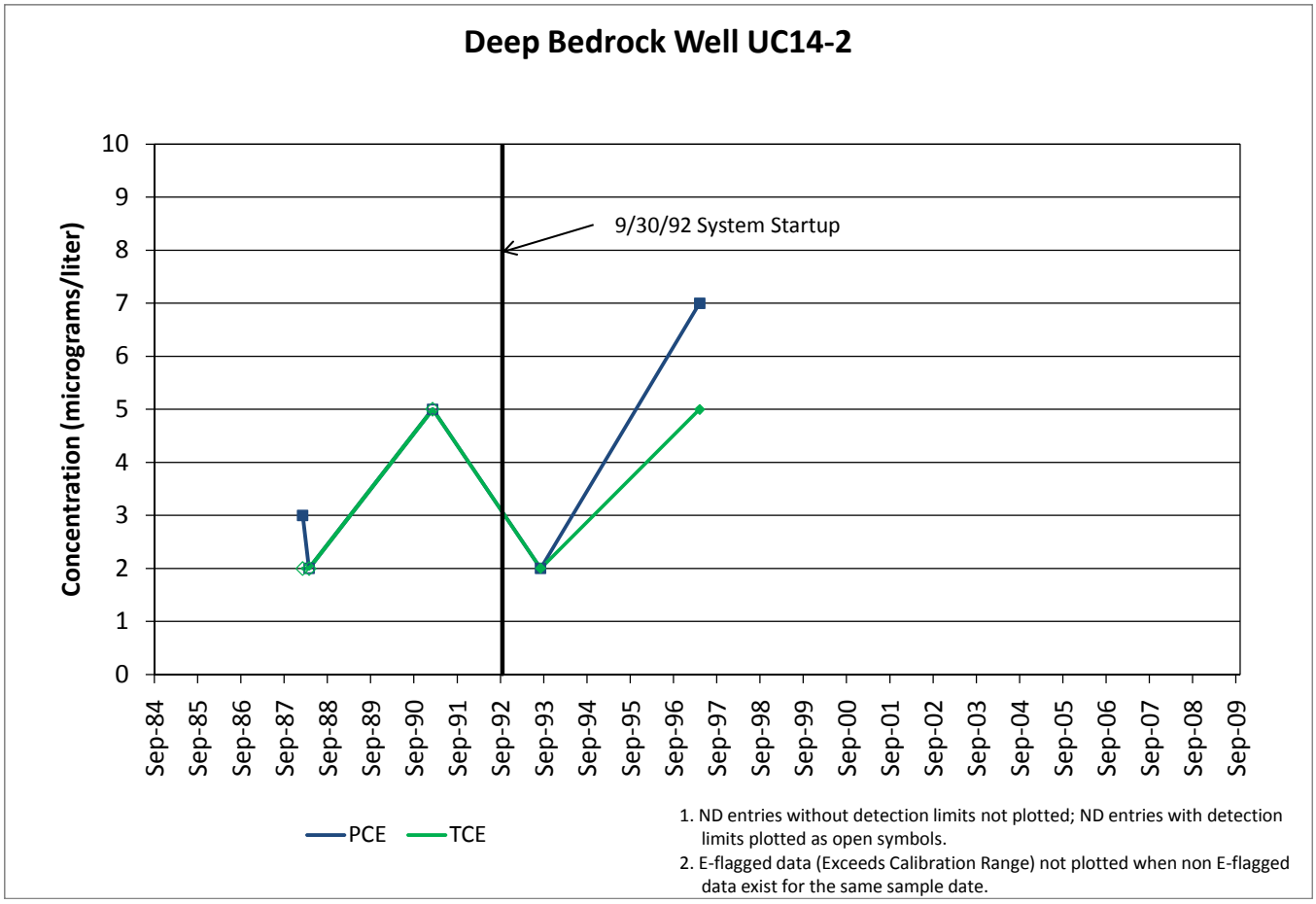

Shallow Bedrock Well UC13-4
Concentration (micrograms/liter)
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

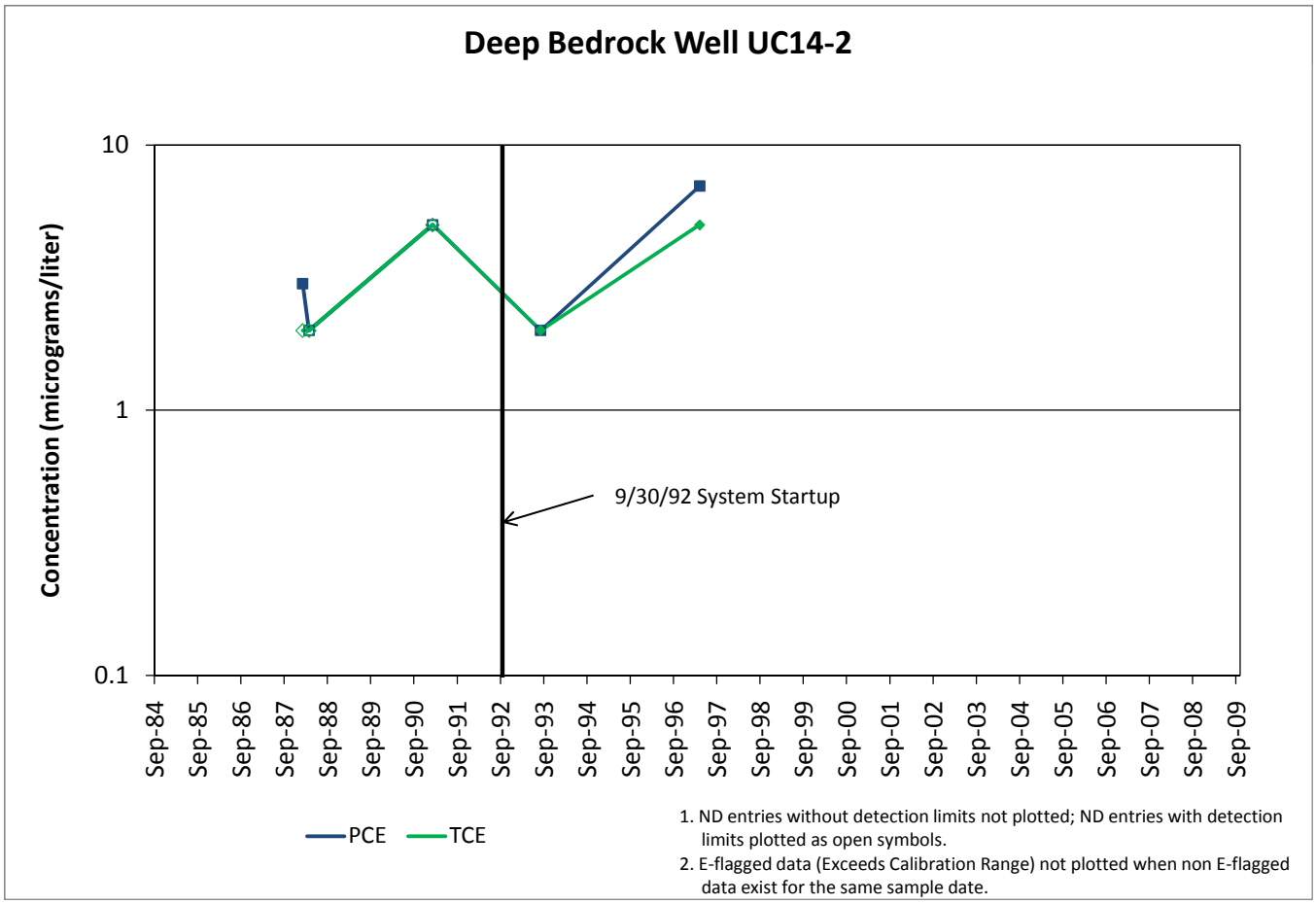


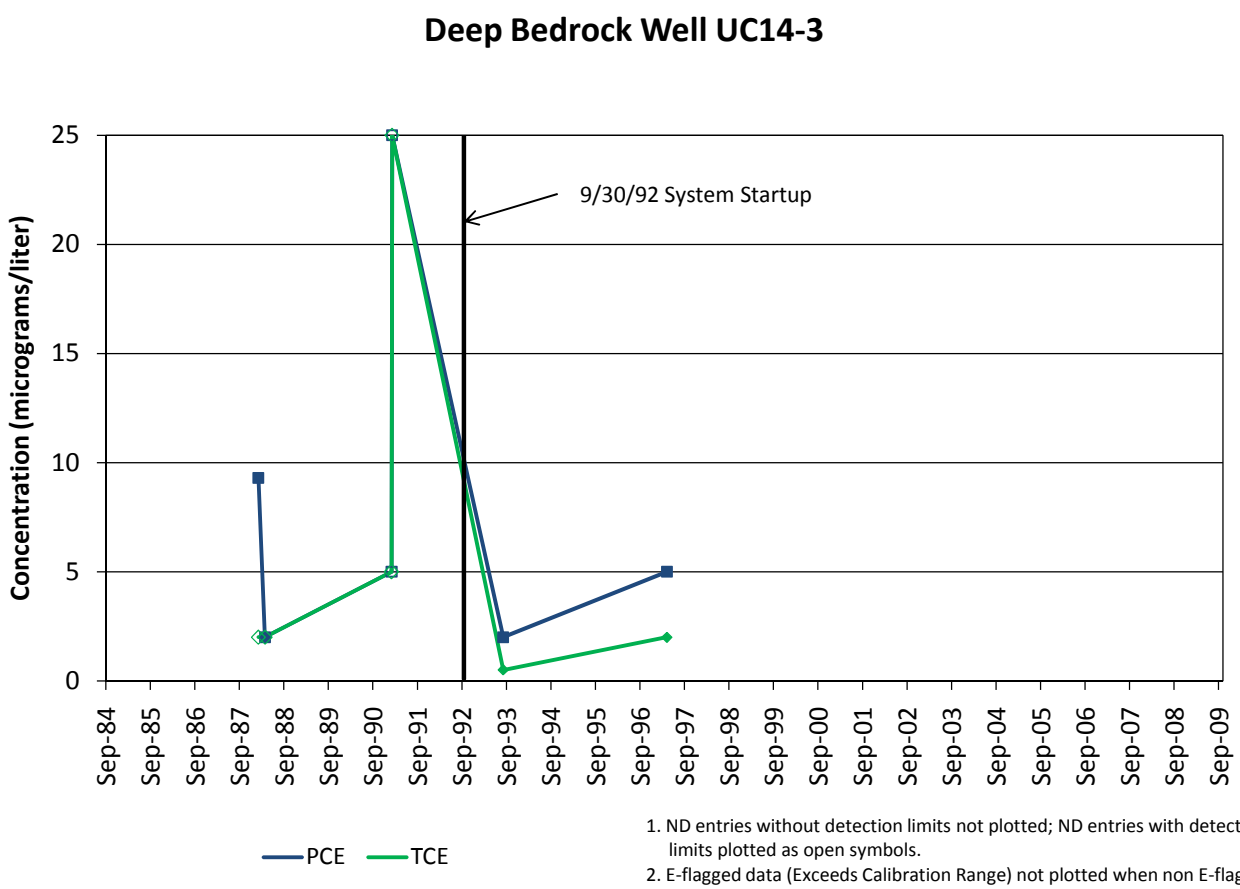
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



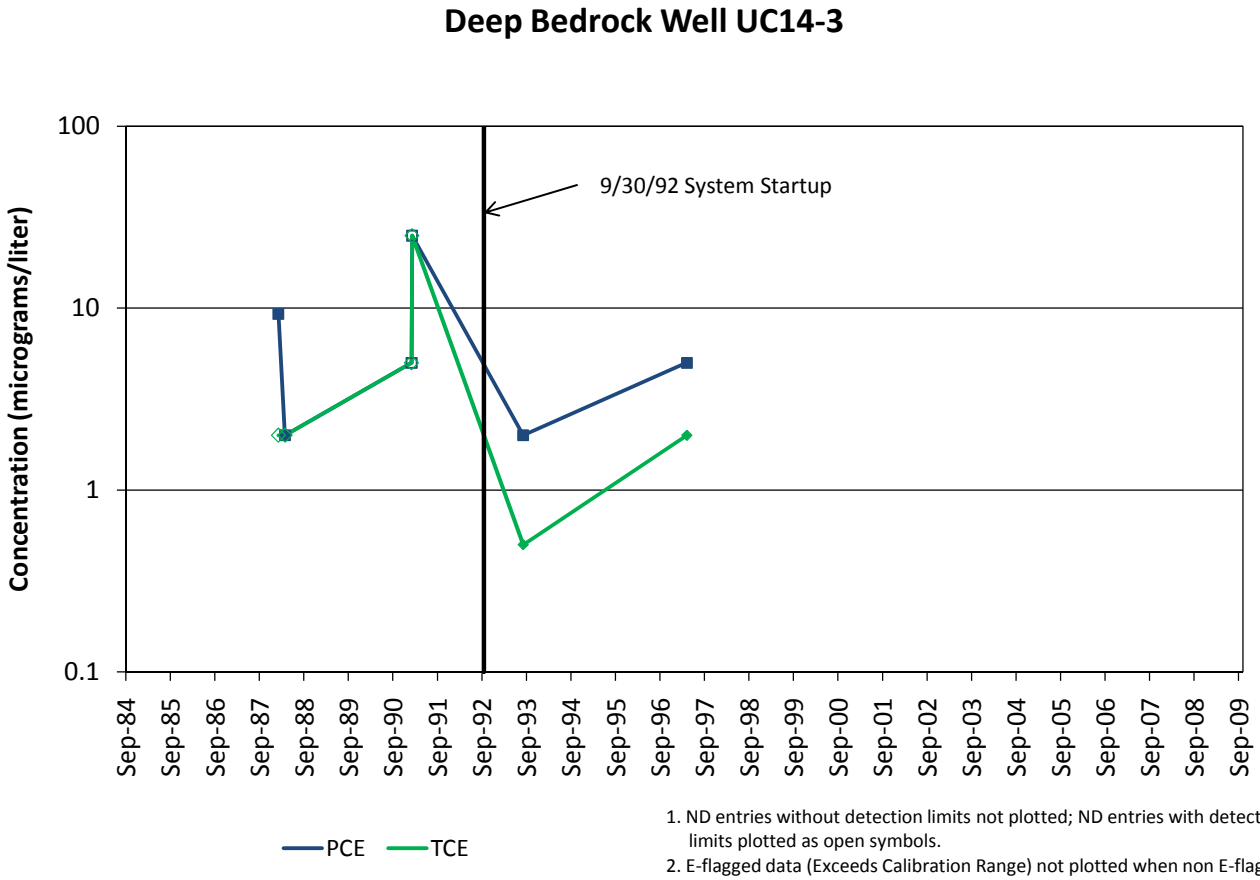
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Deep Bedrock Well UC14-2
Concentration (micrograms/liter)
10
9
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

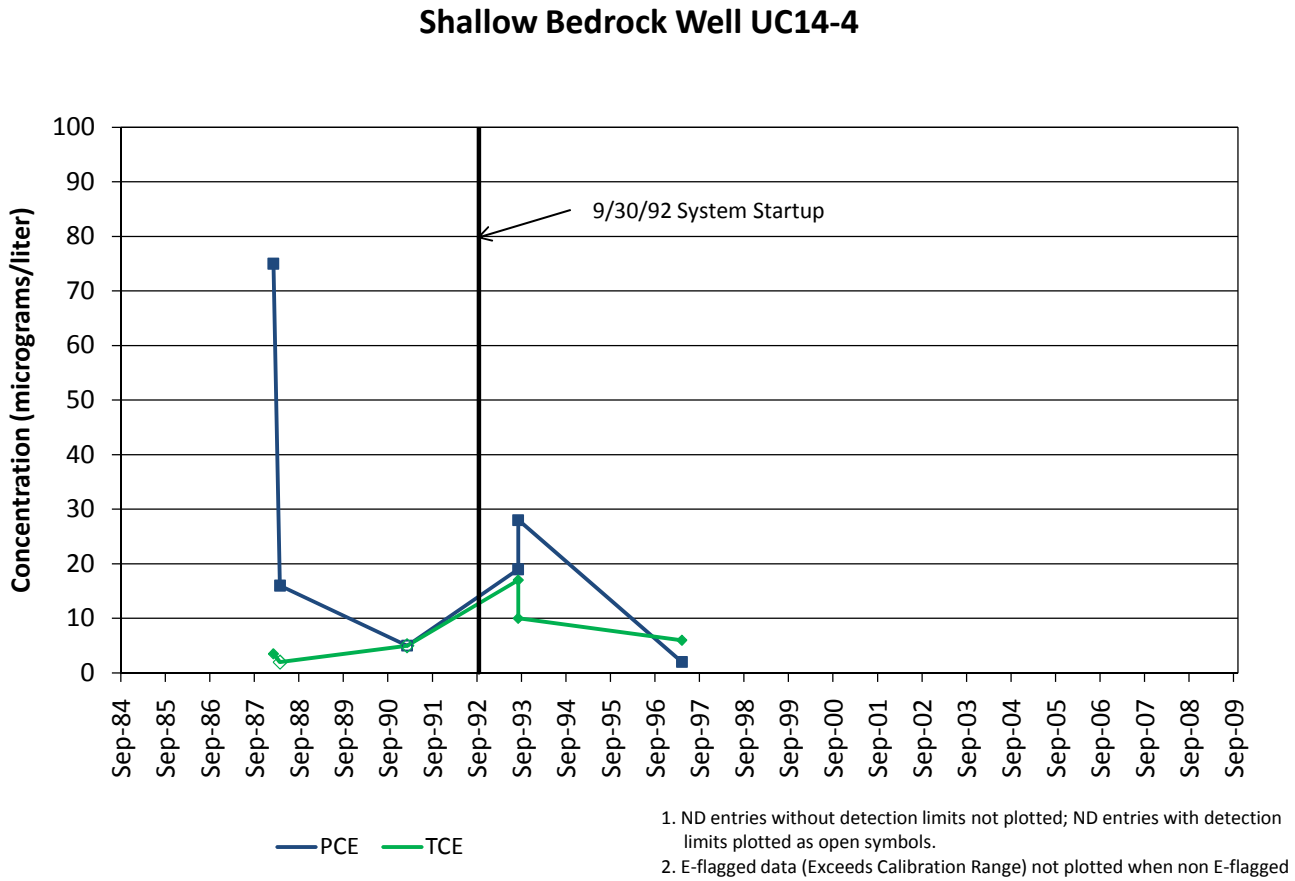

Deep Bedrock Well UC14-2
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



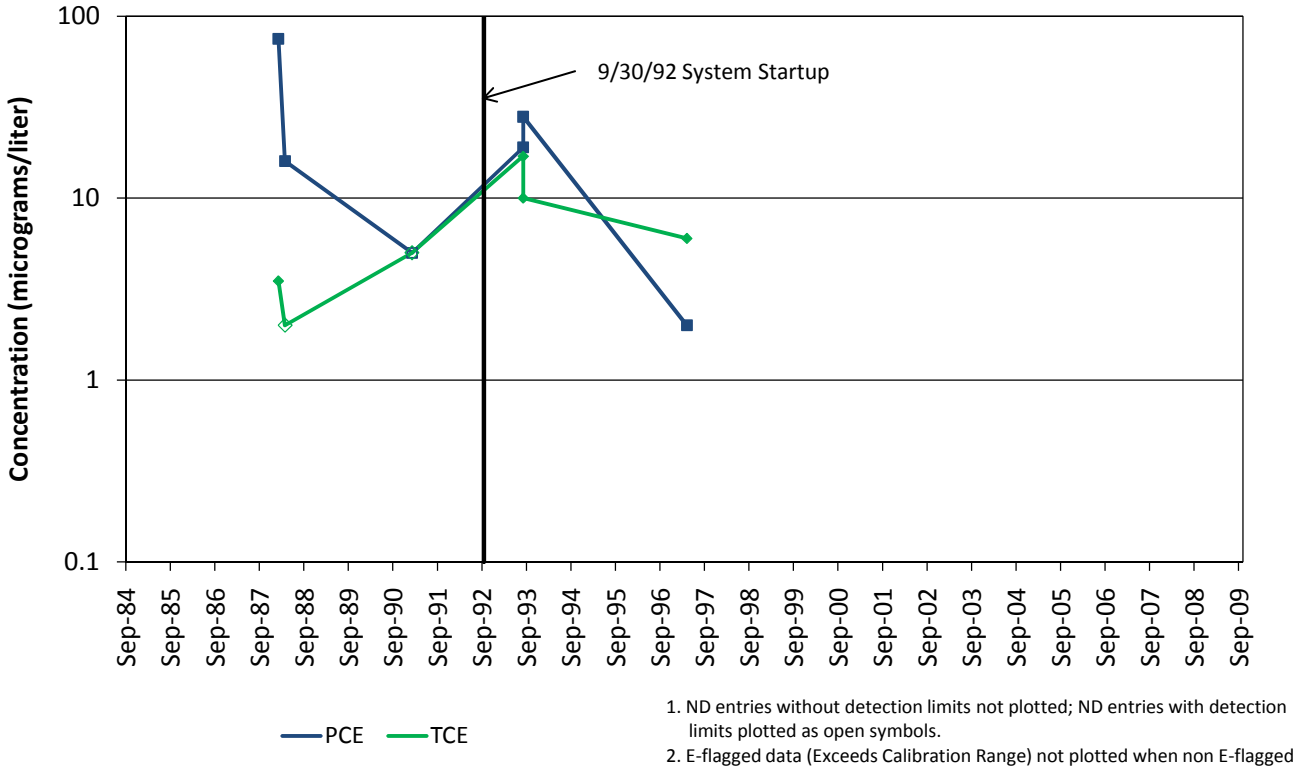
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



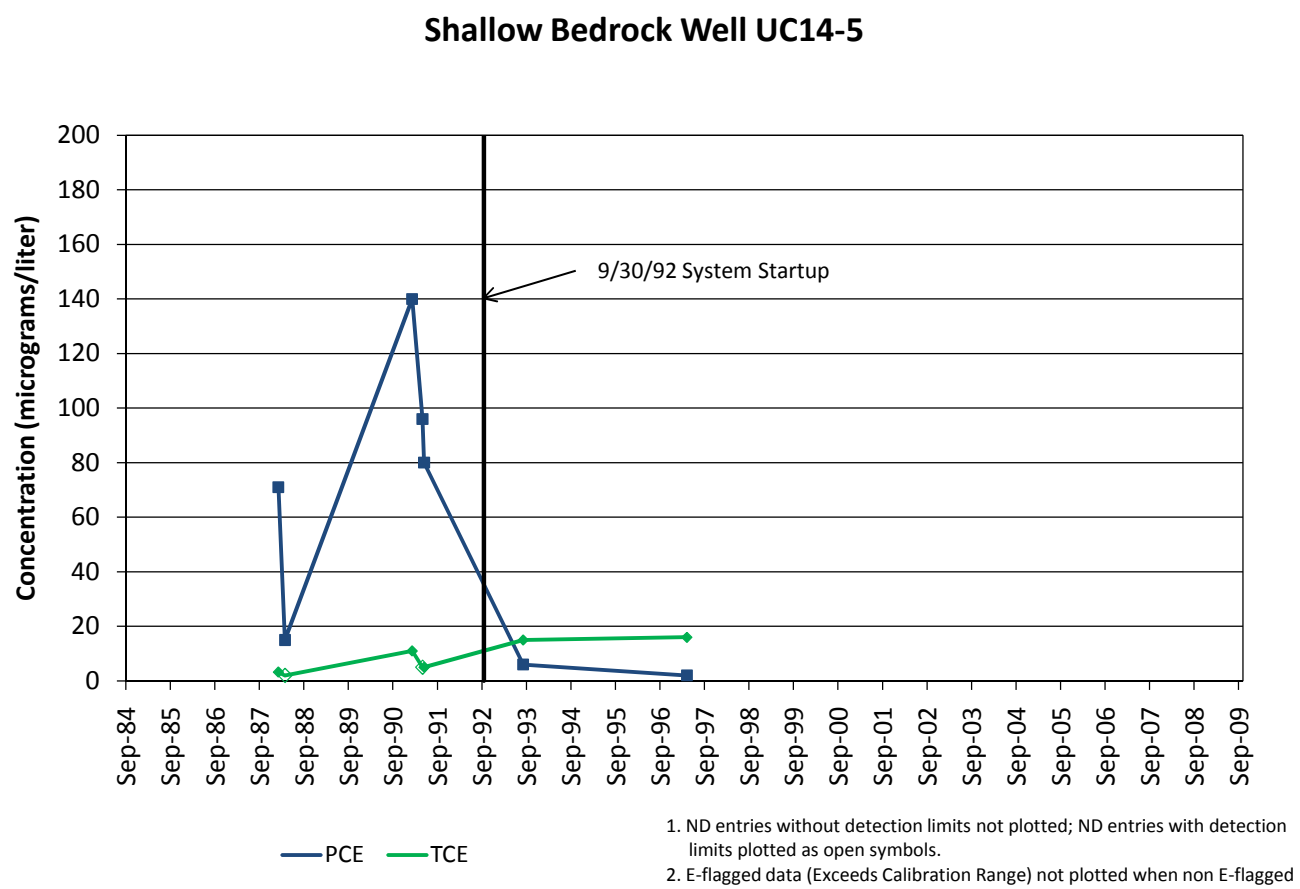
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



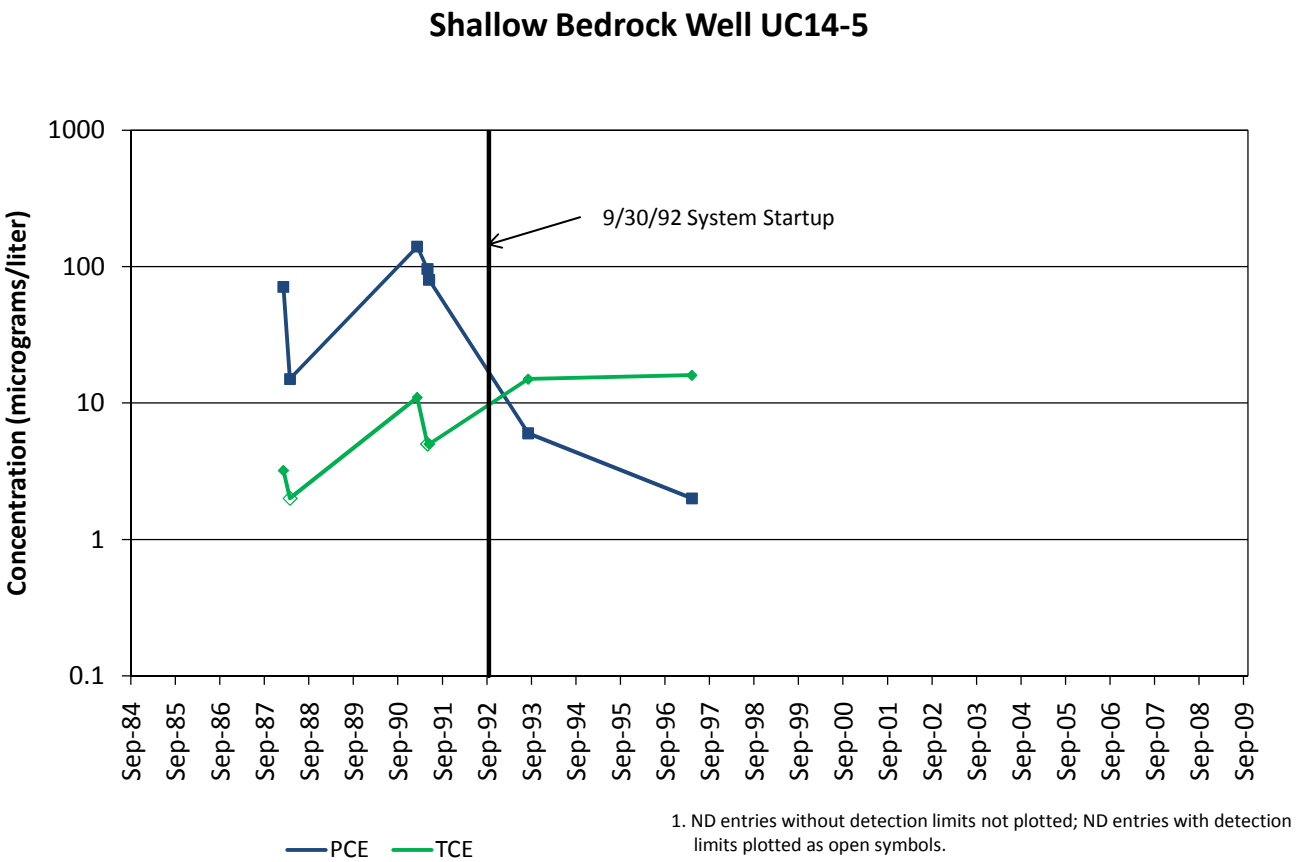
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



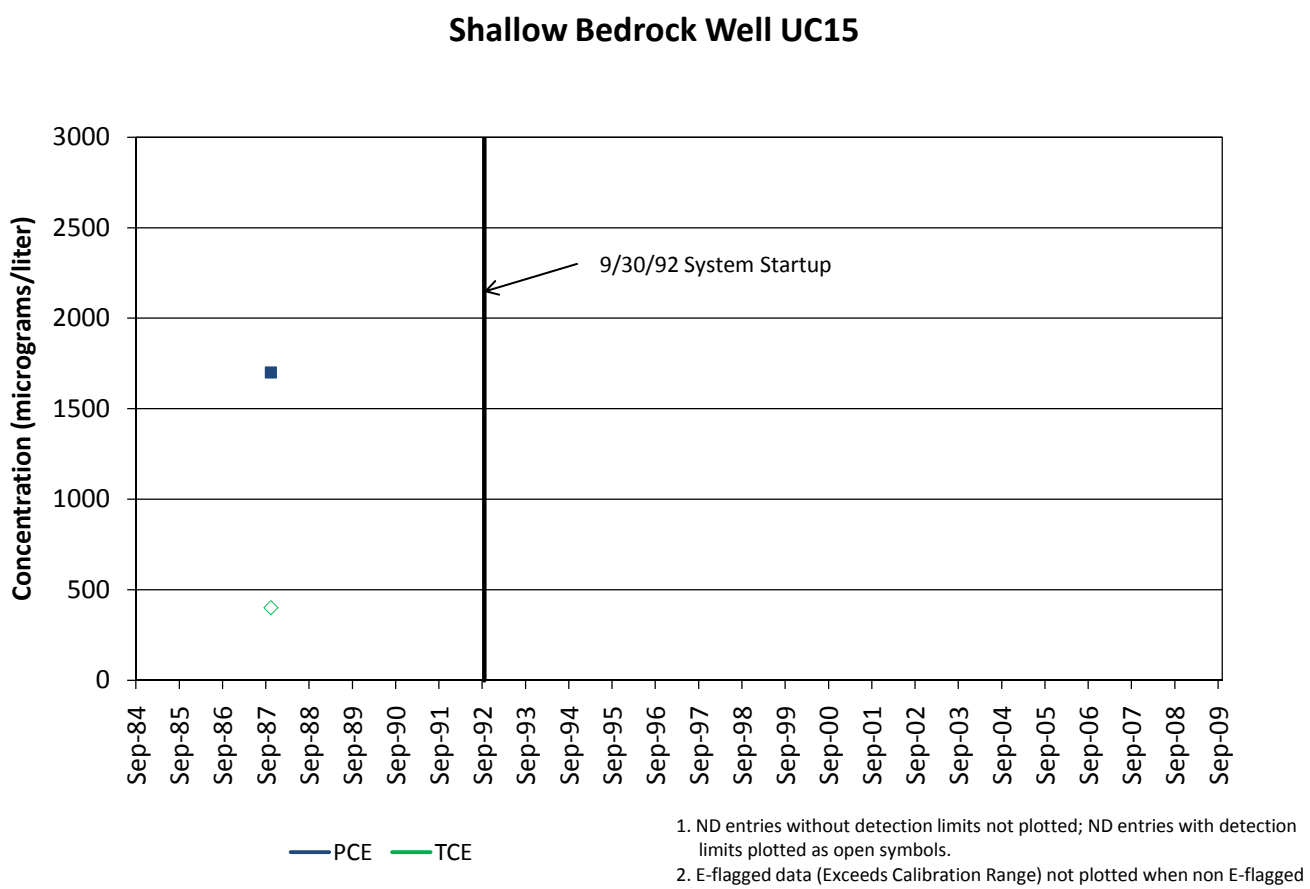
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



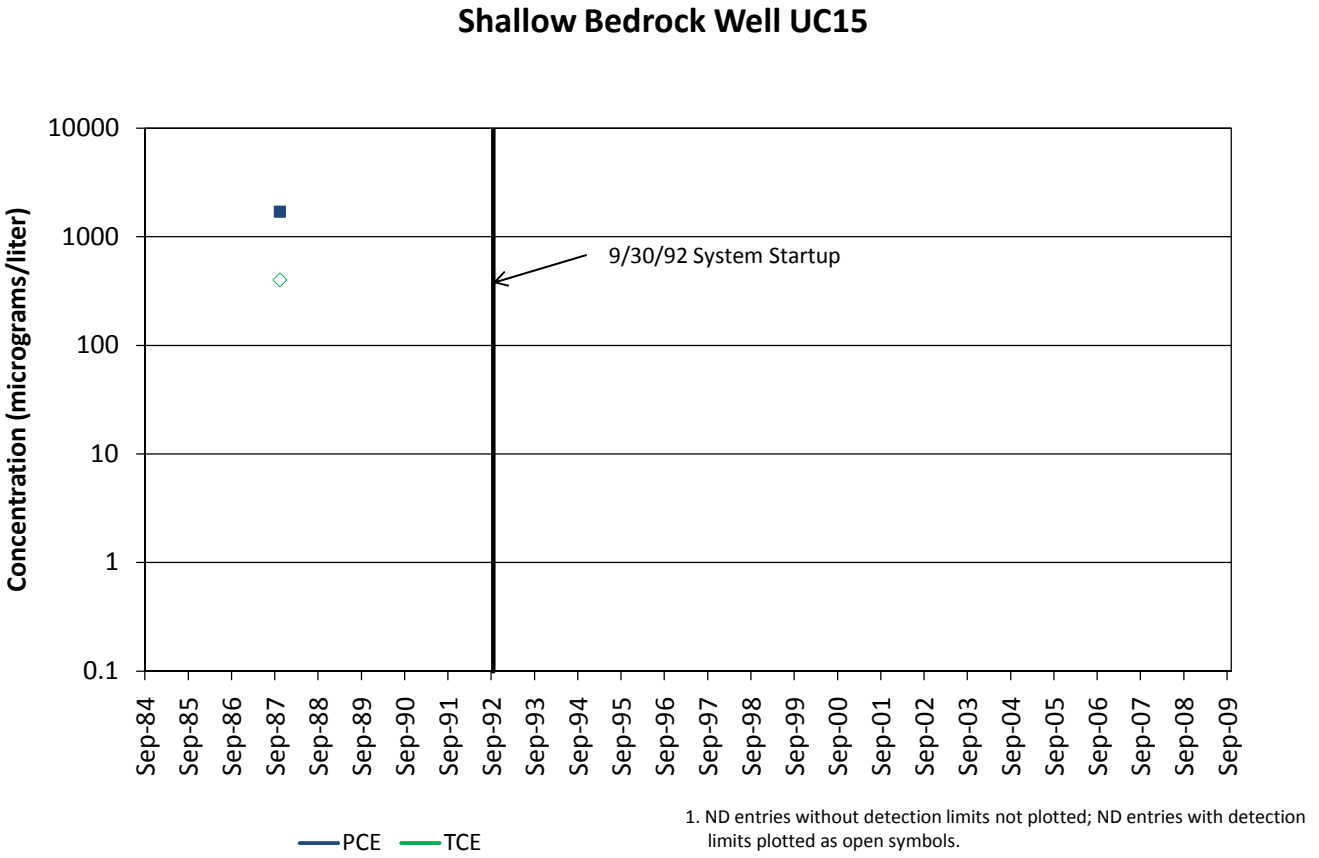
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



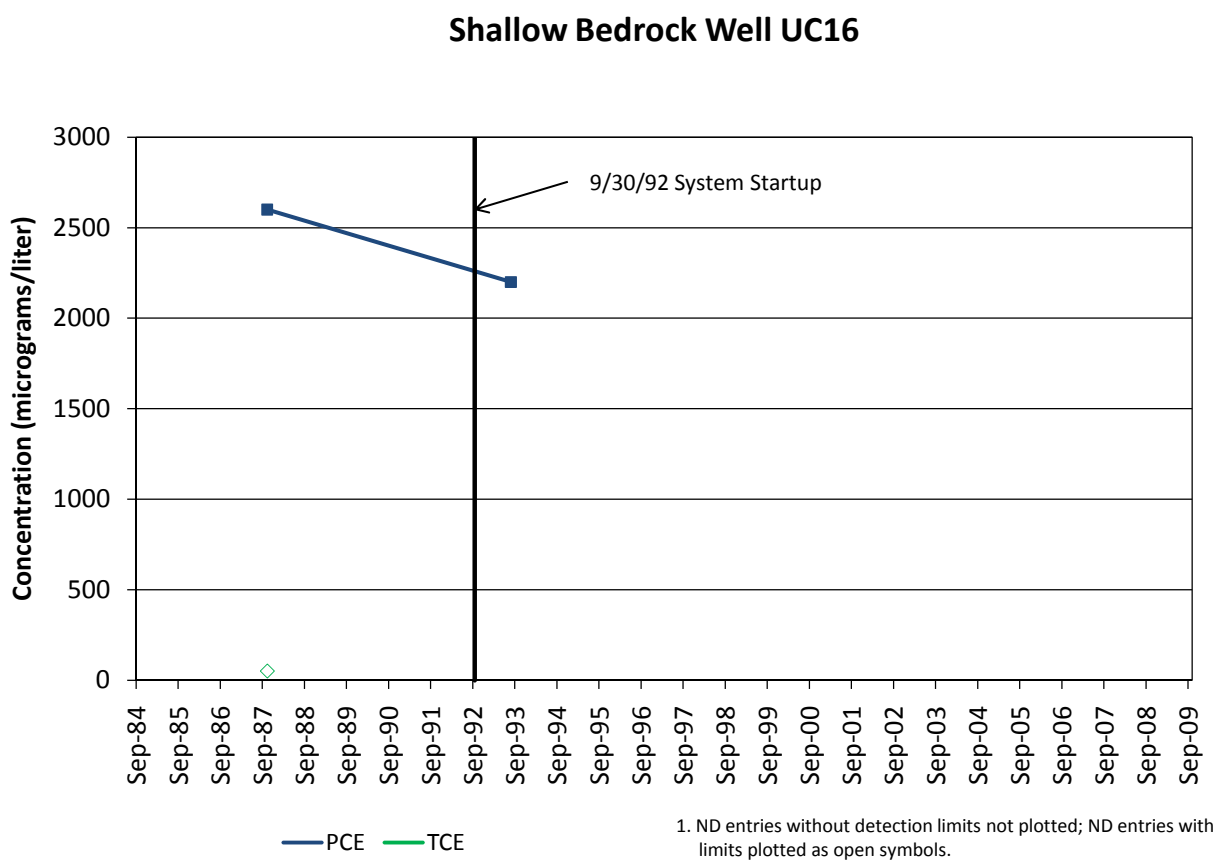
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



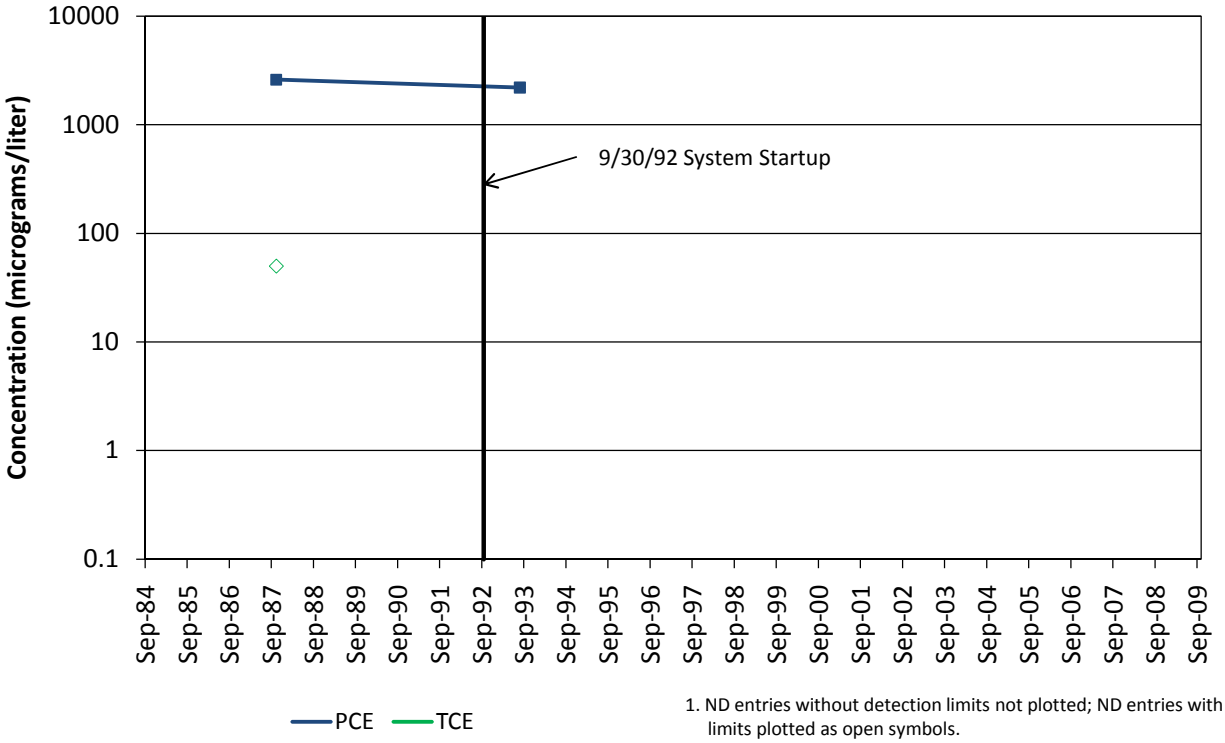
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



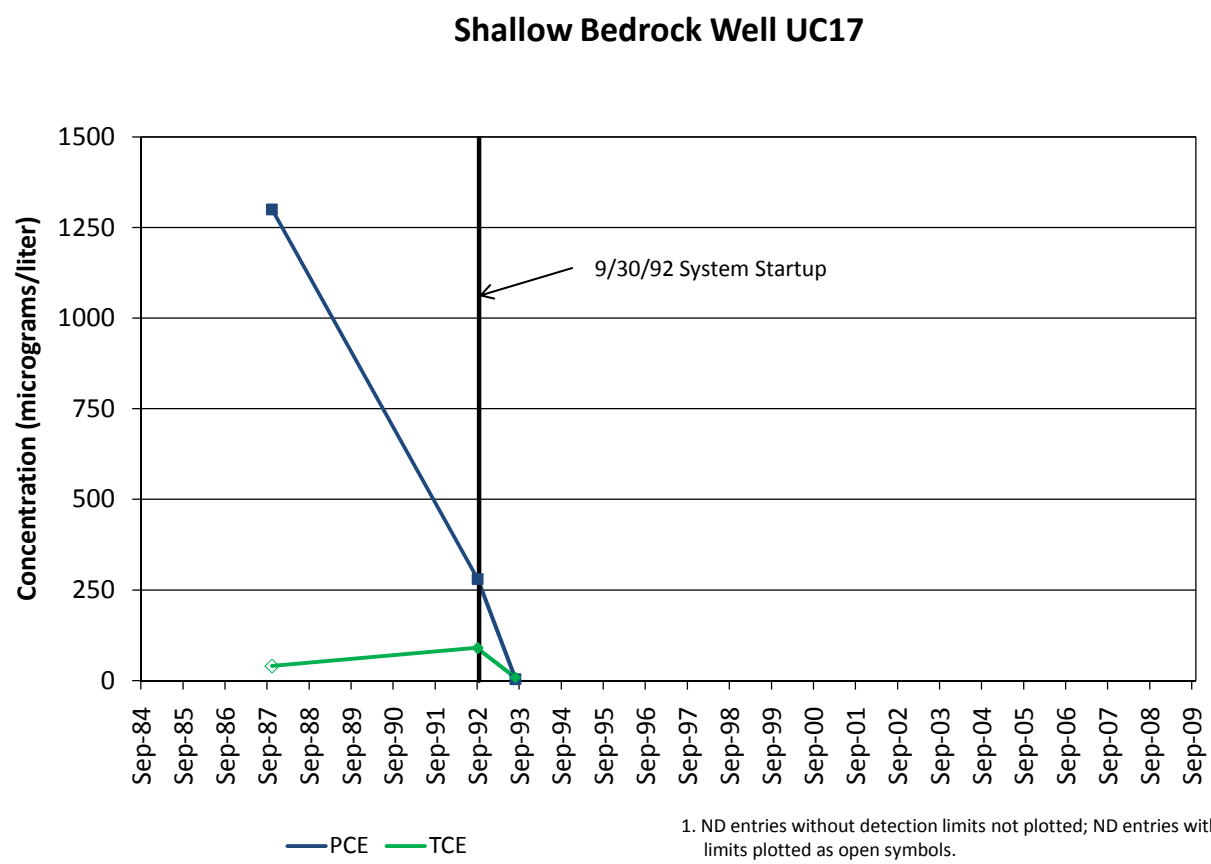
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



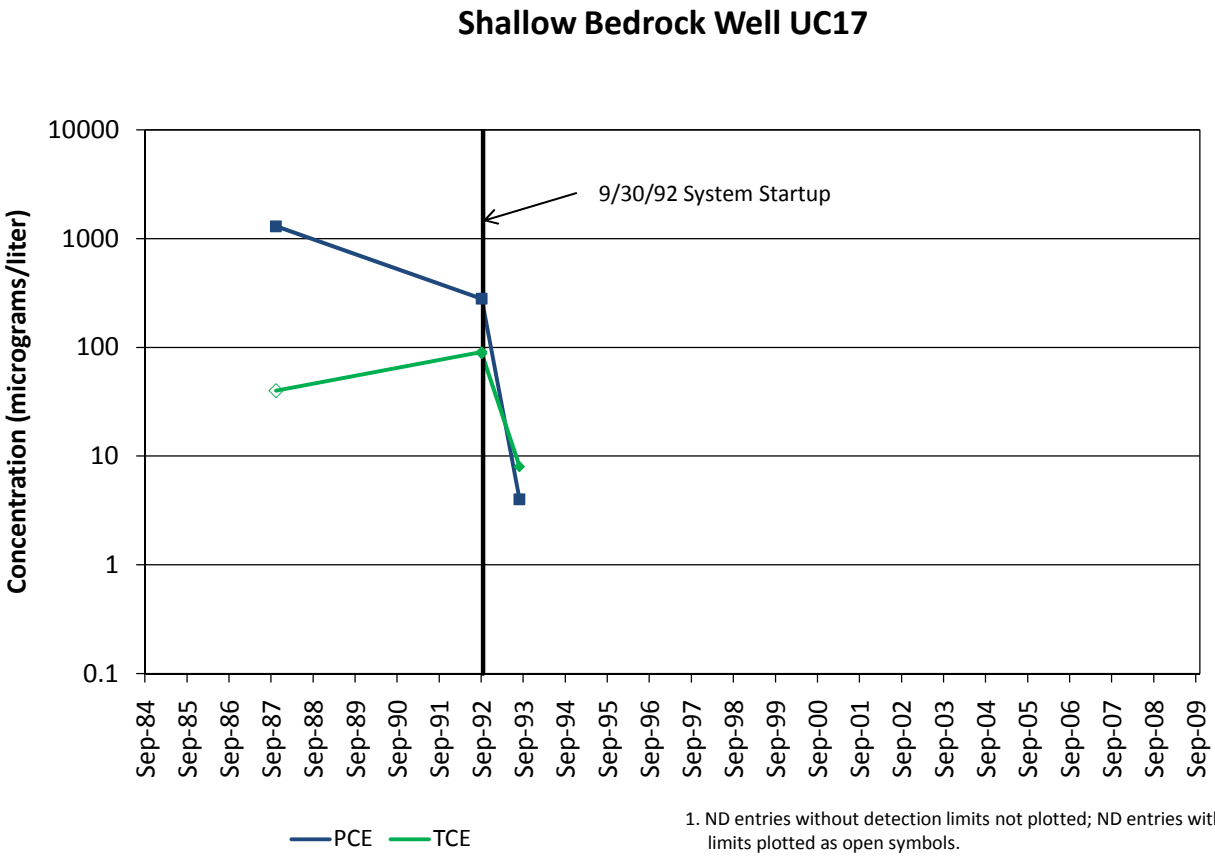
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



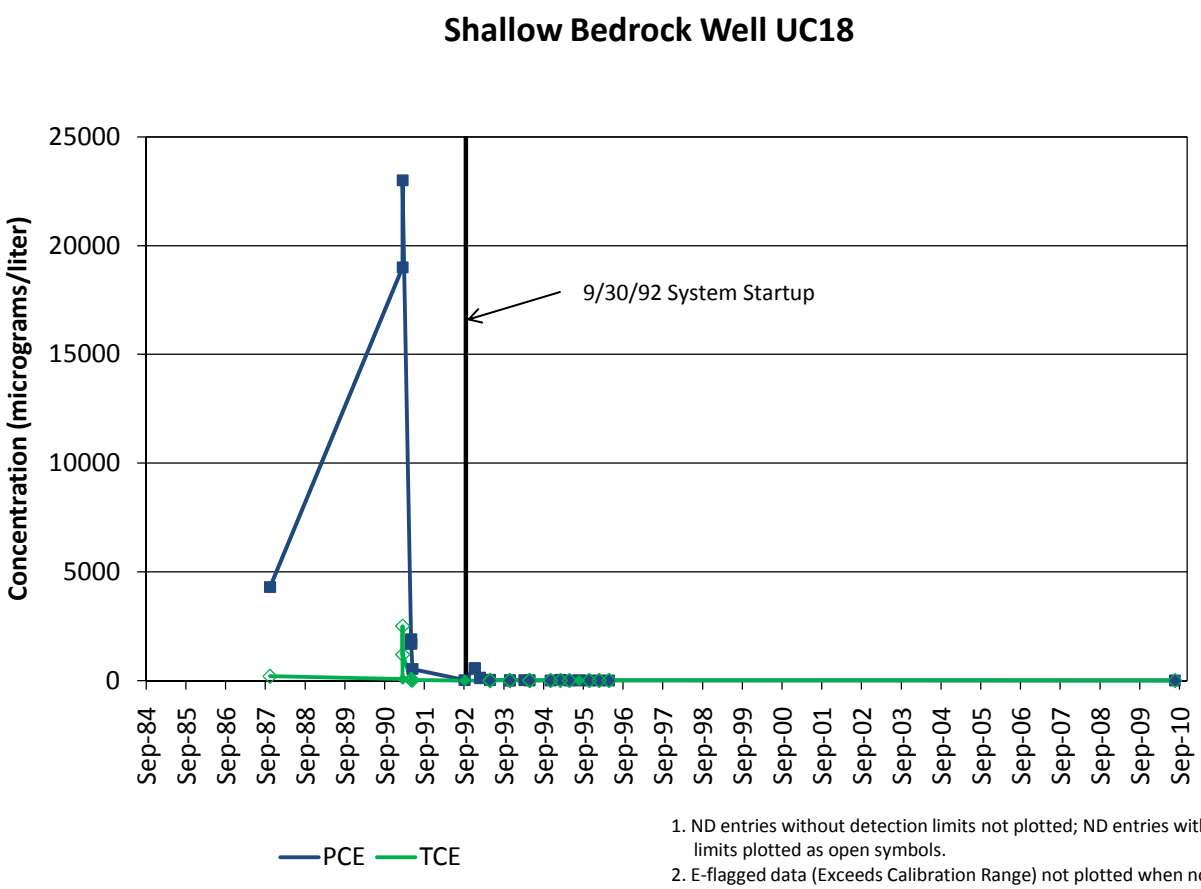
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



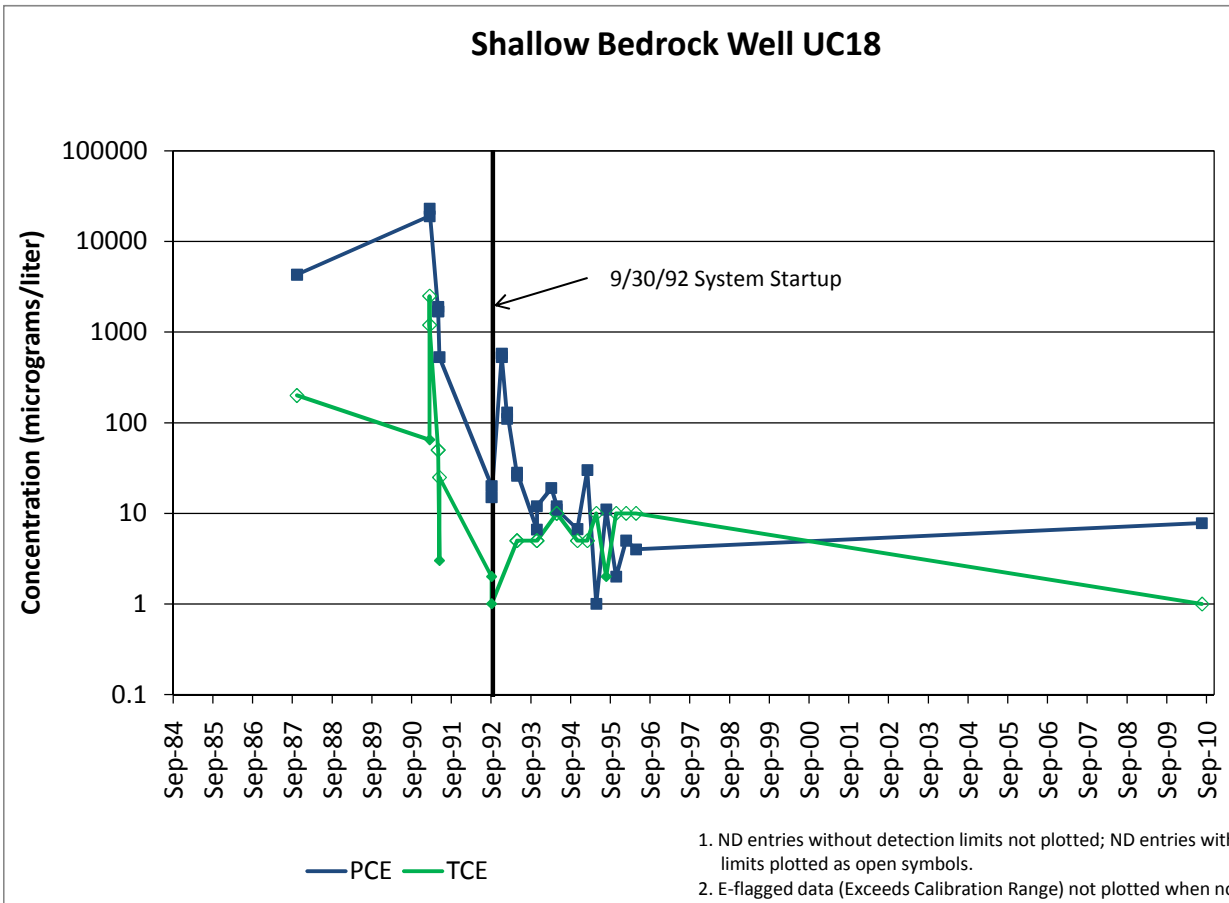
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



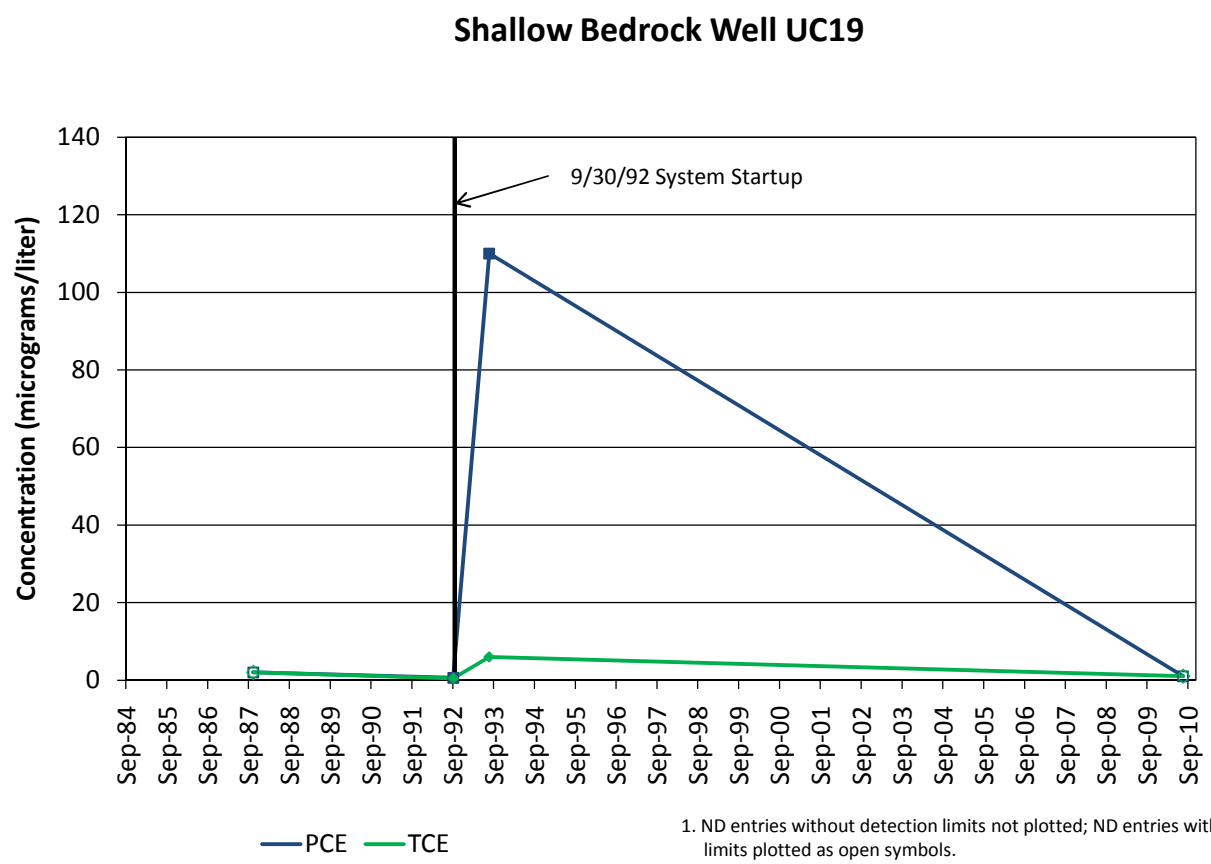
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



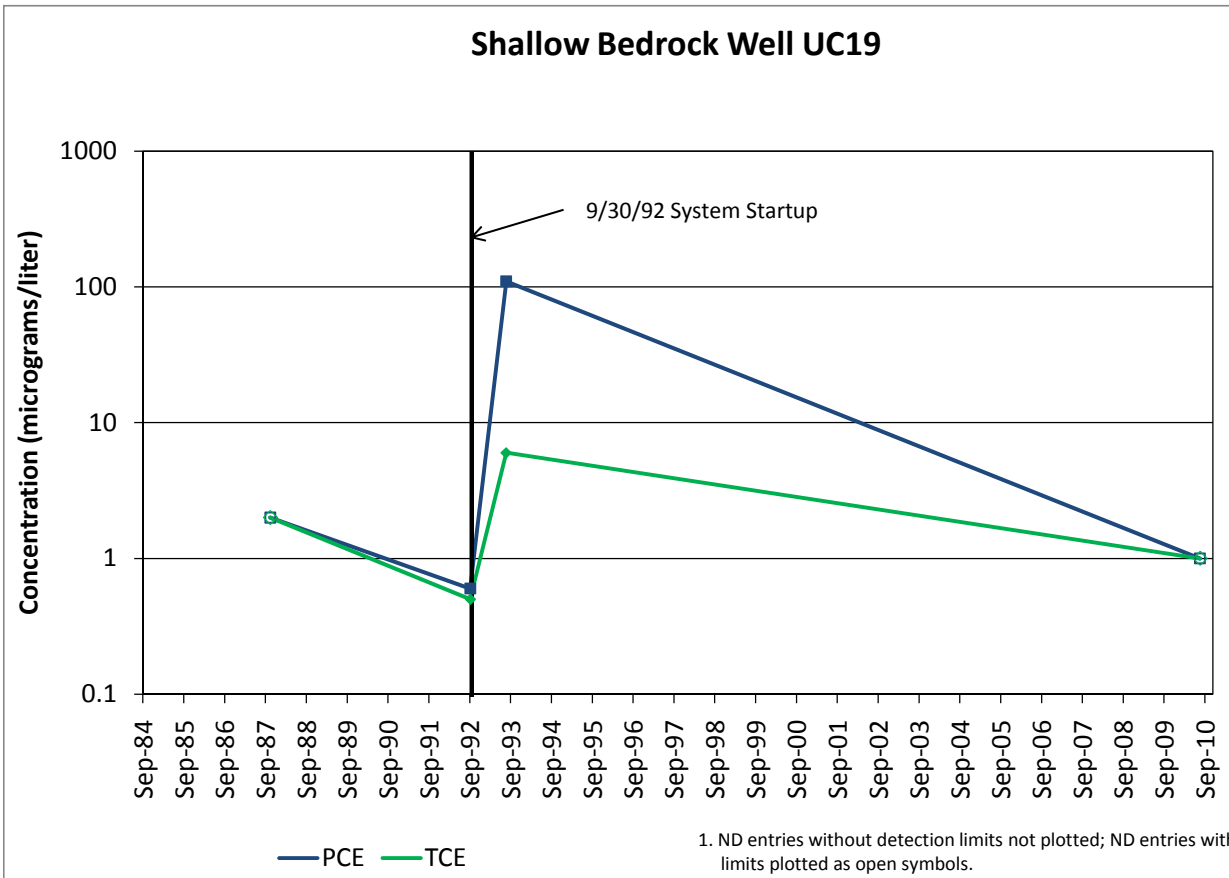
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



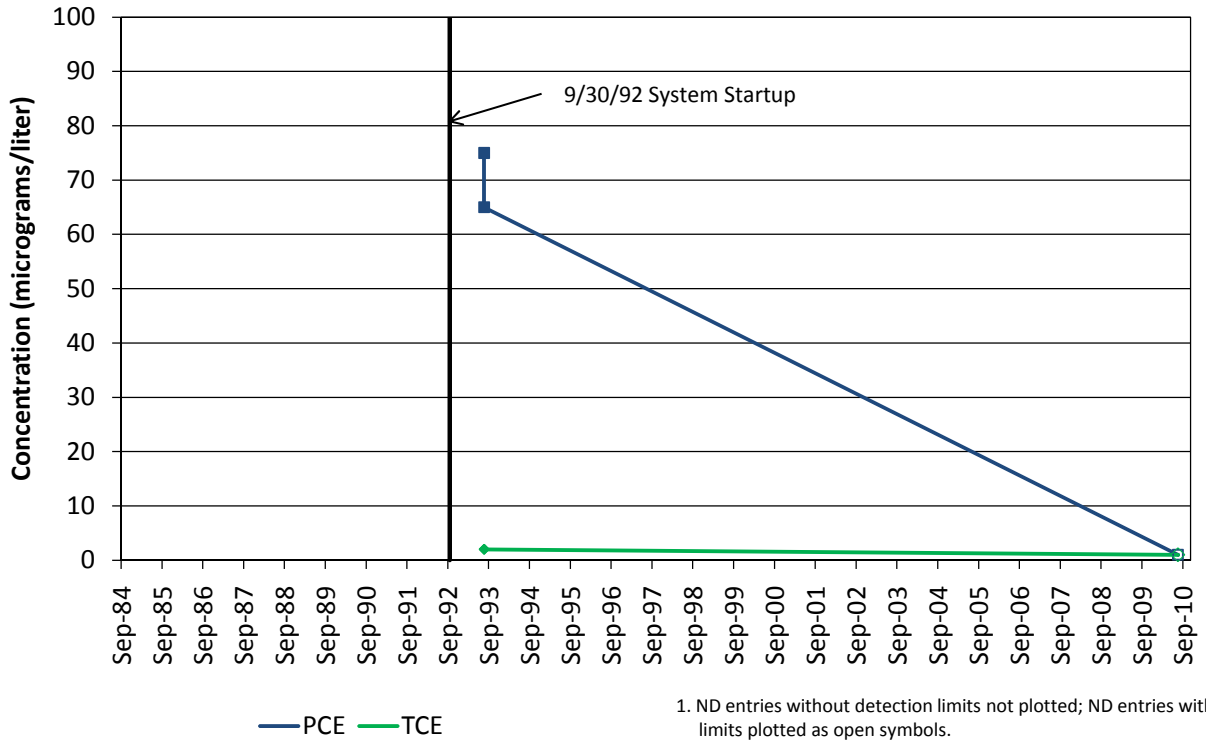
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



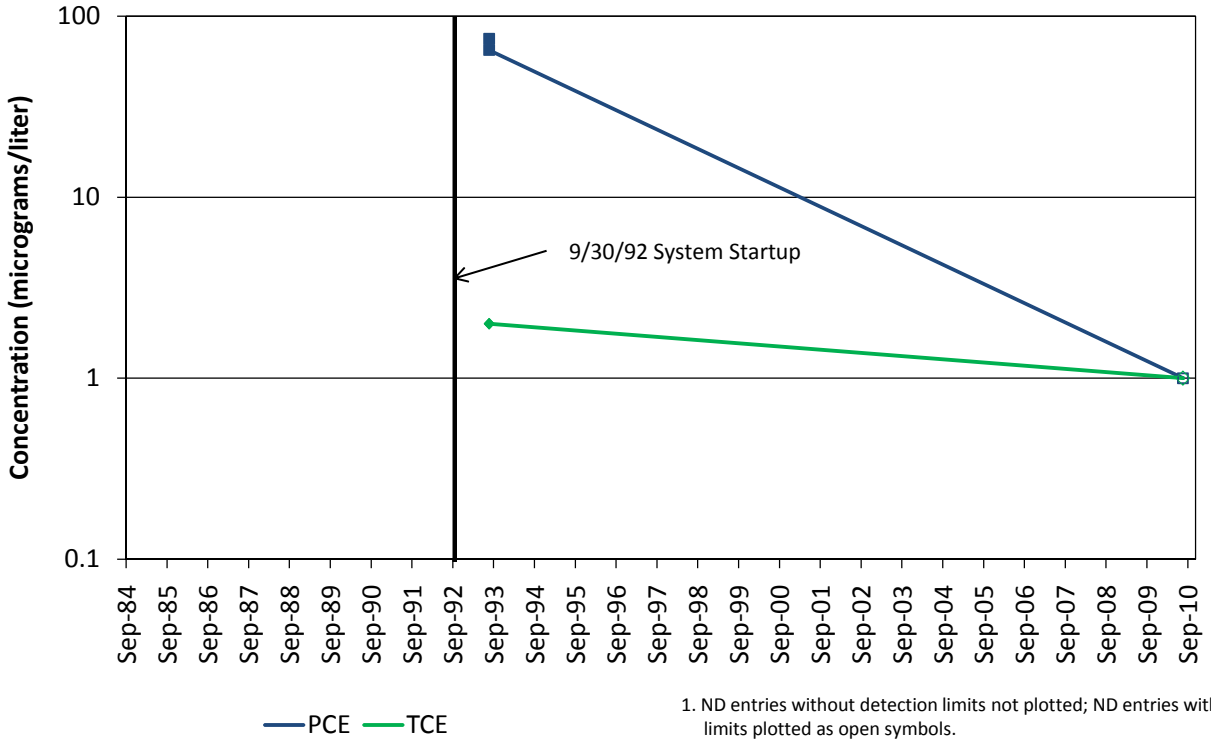
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



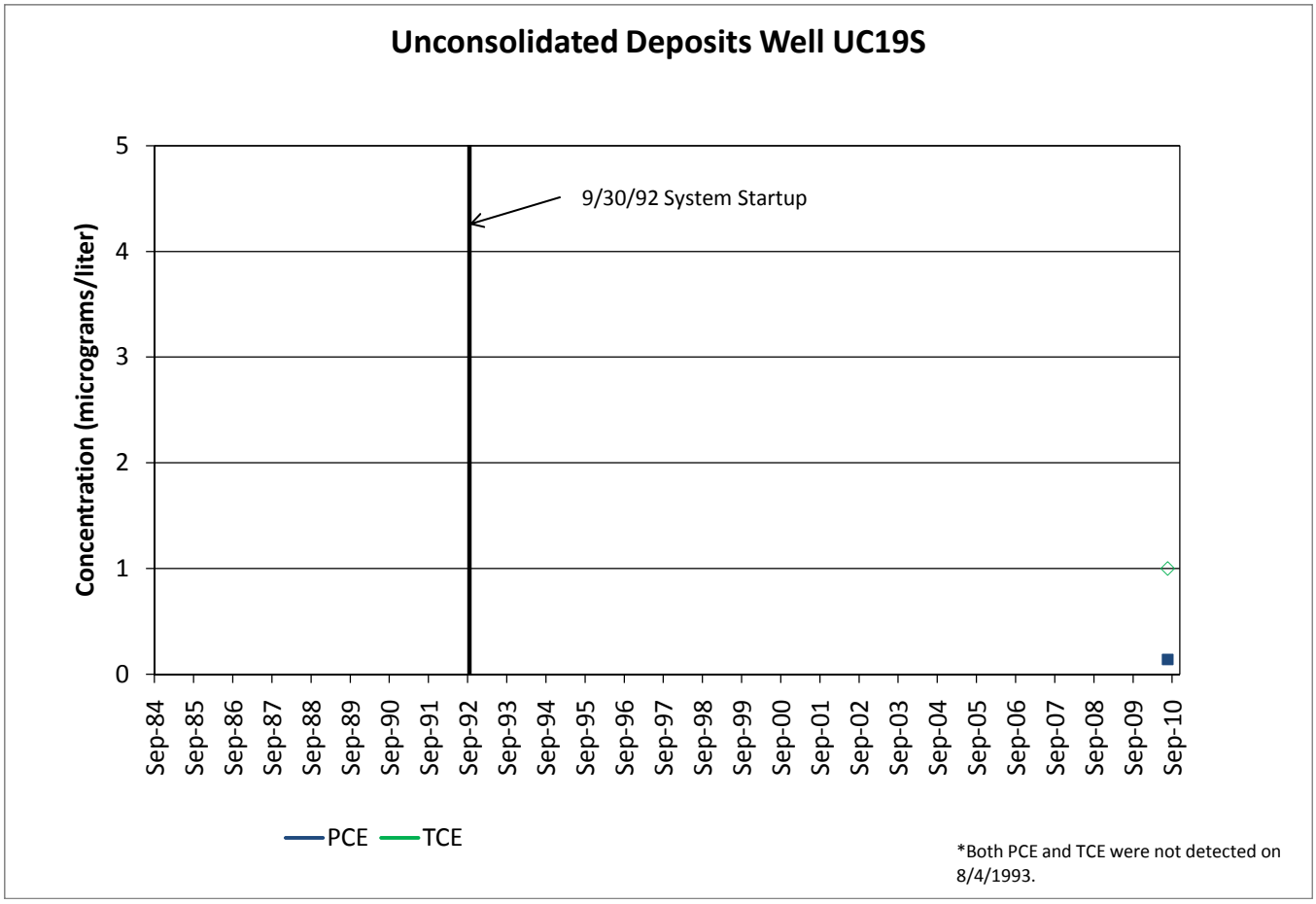
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

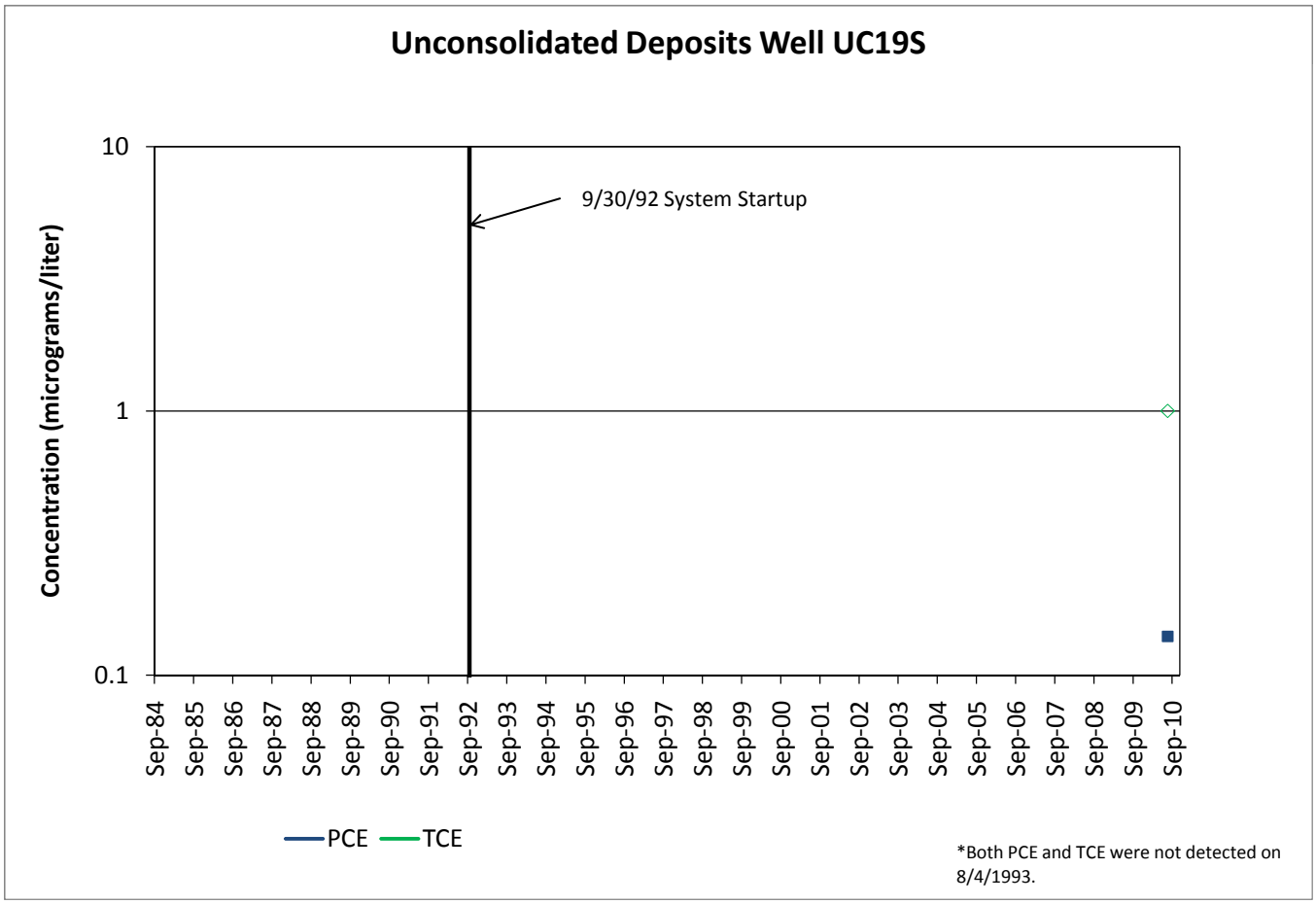


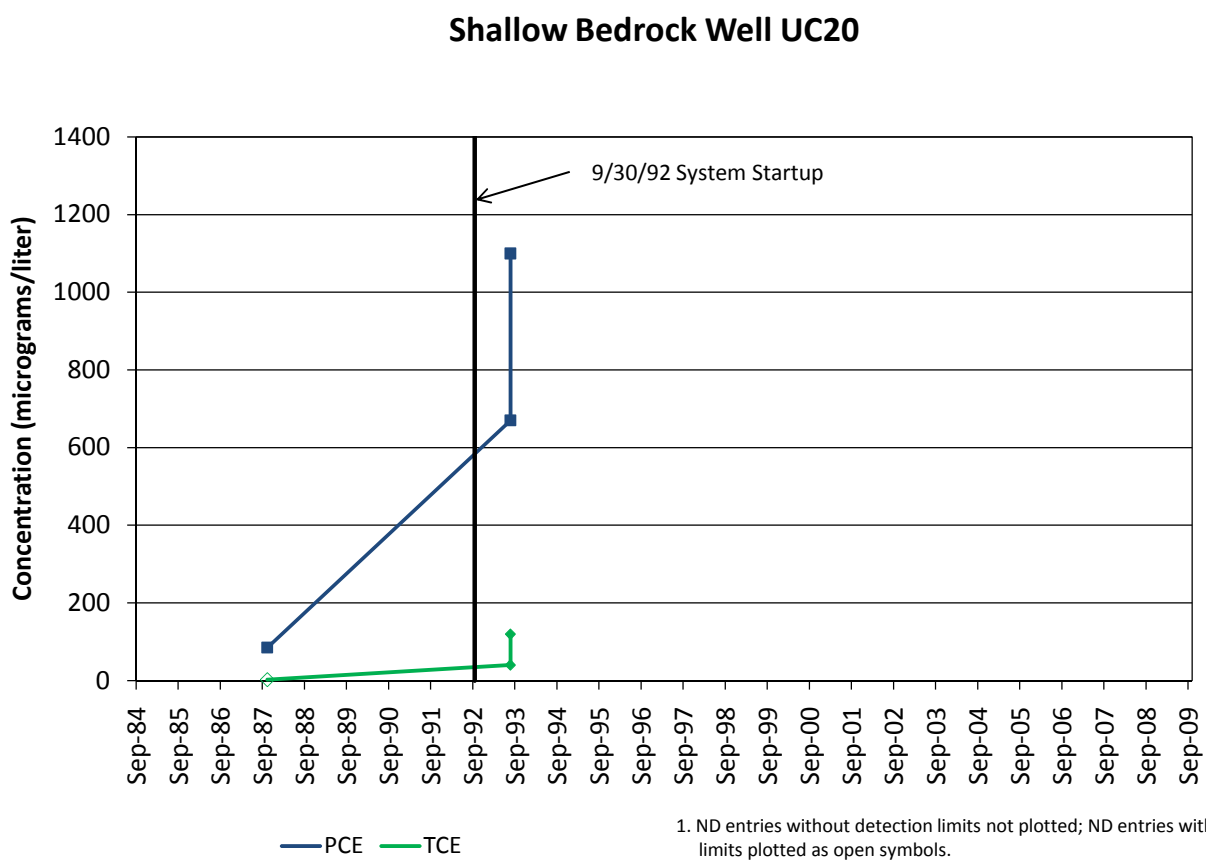
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



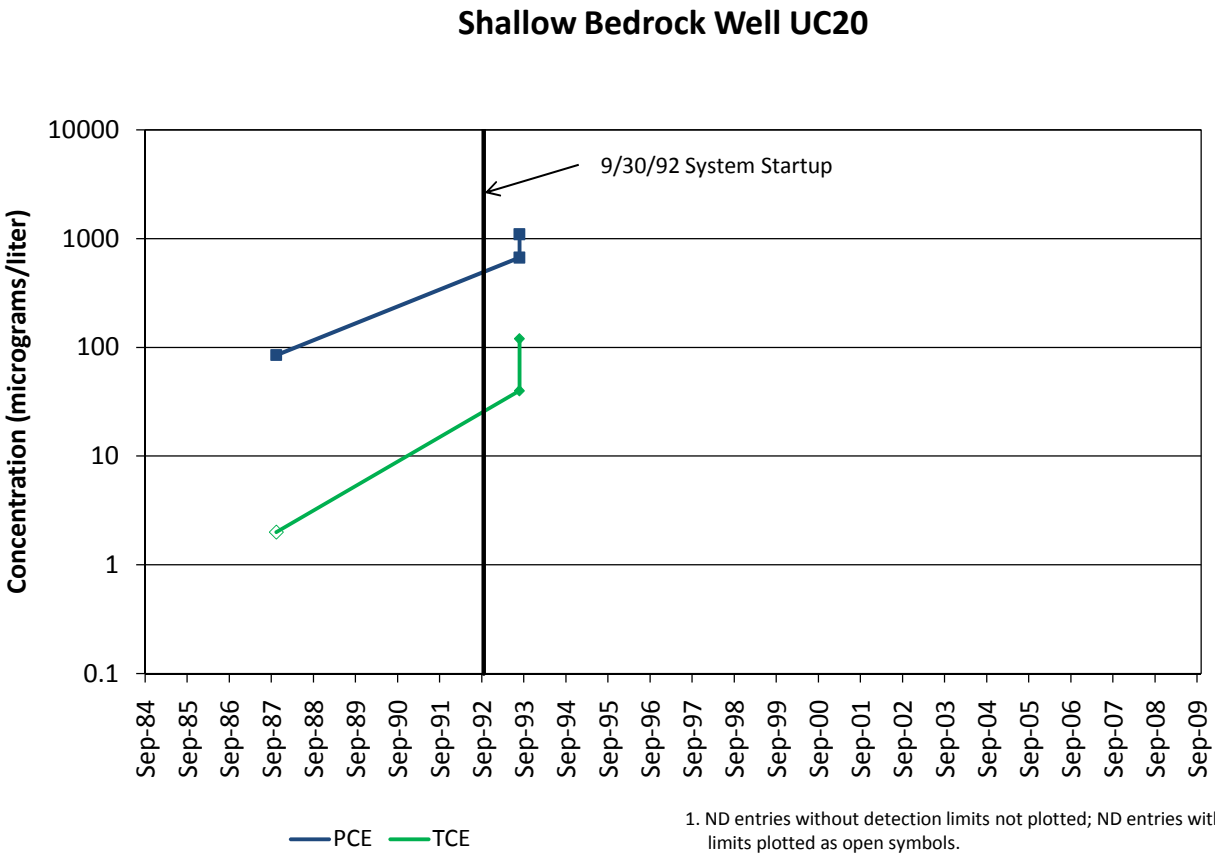
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well UC19S
Concentration (micrograms/liter)
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
*Both PCE and TCE were not detected on 8/4/1993.

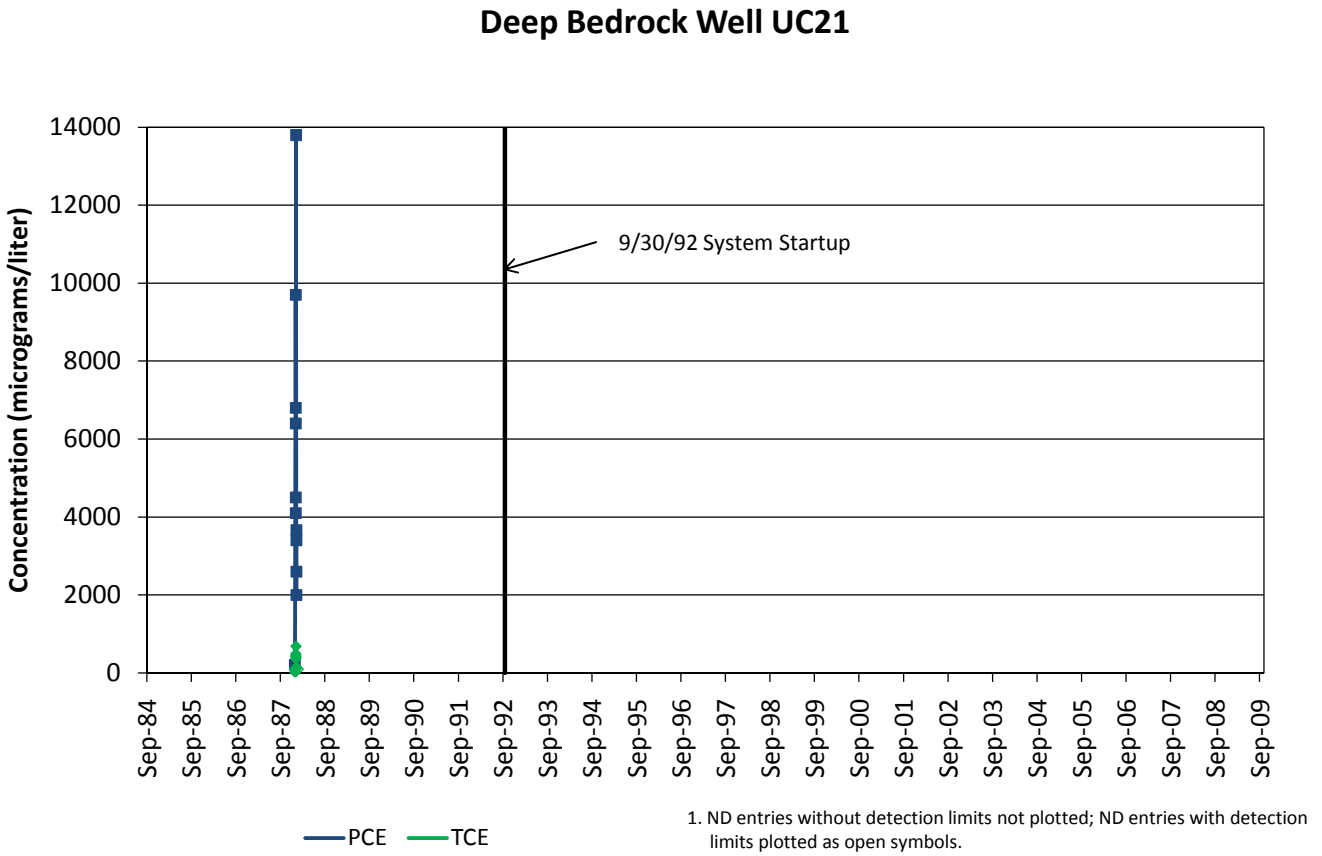

Unconsolidated Deposits Well UC19S
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
*Both PCE and TCE were not detected on 8/4/1993.



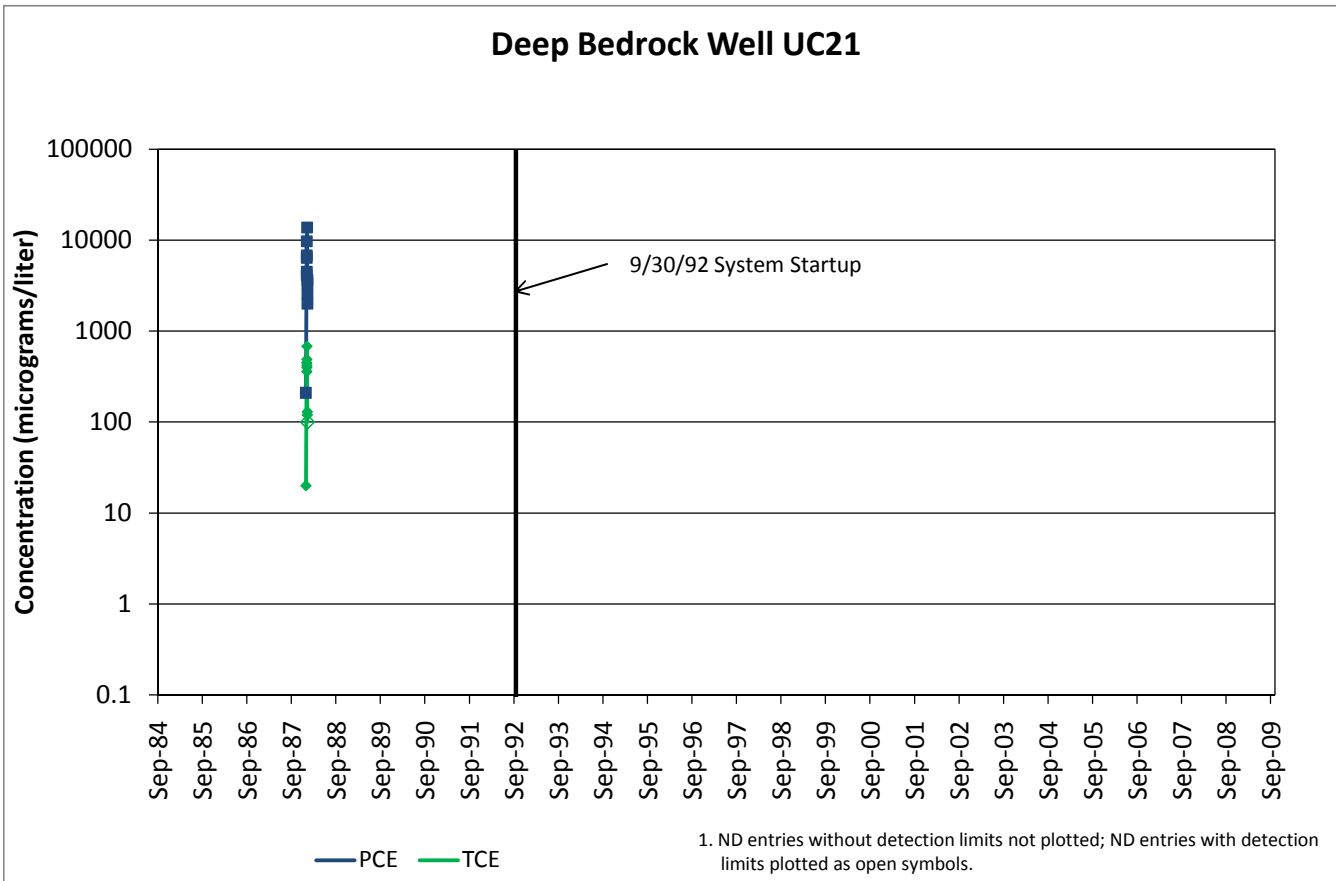
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



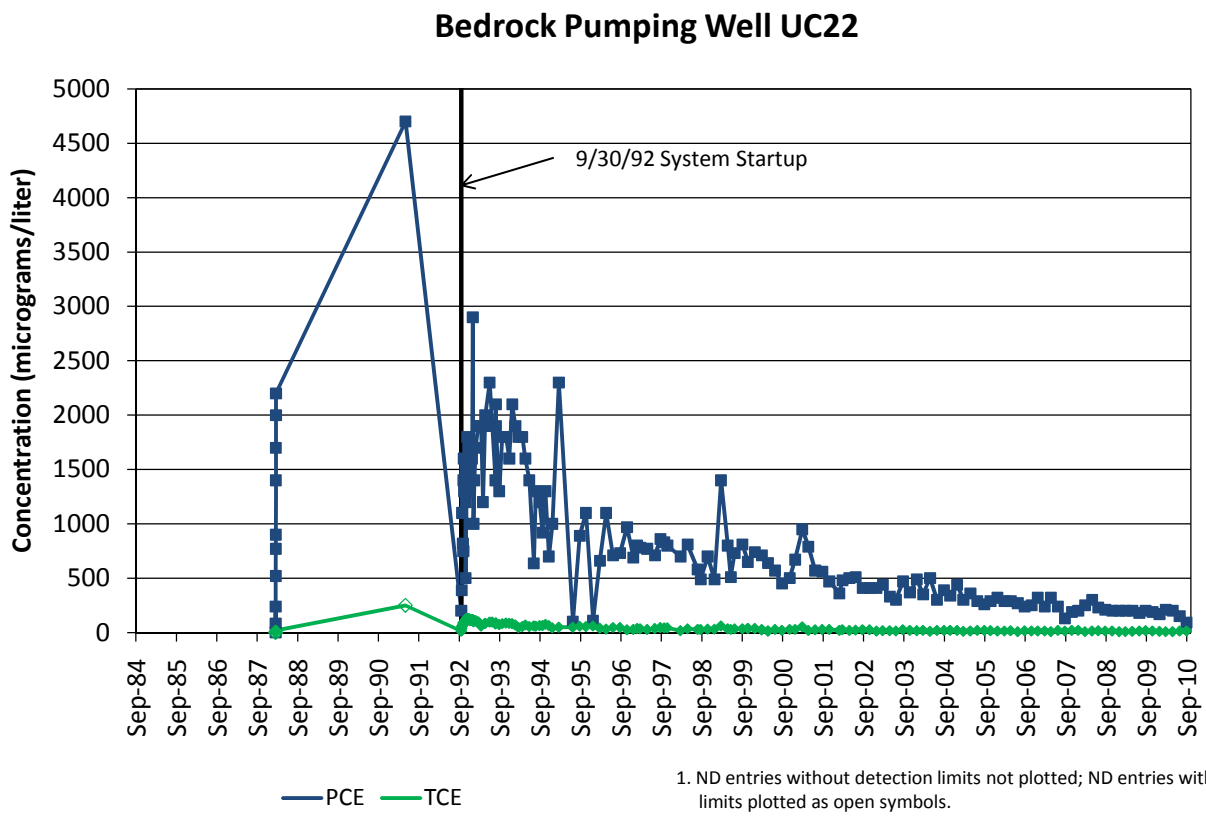
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



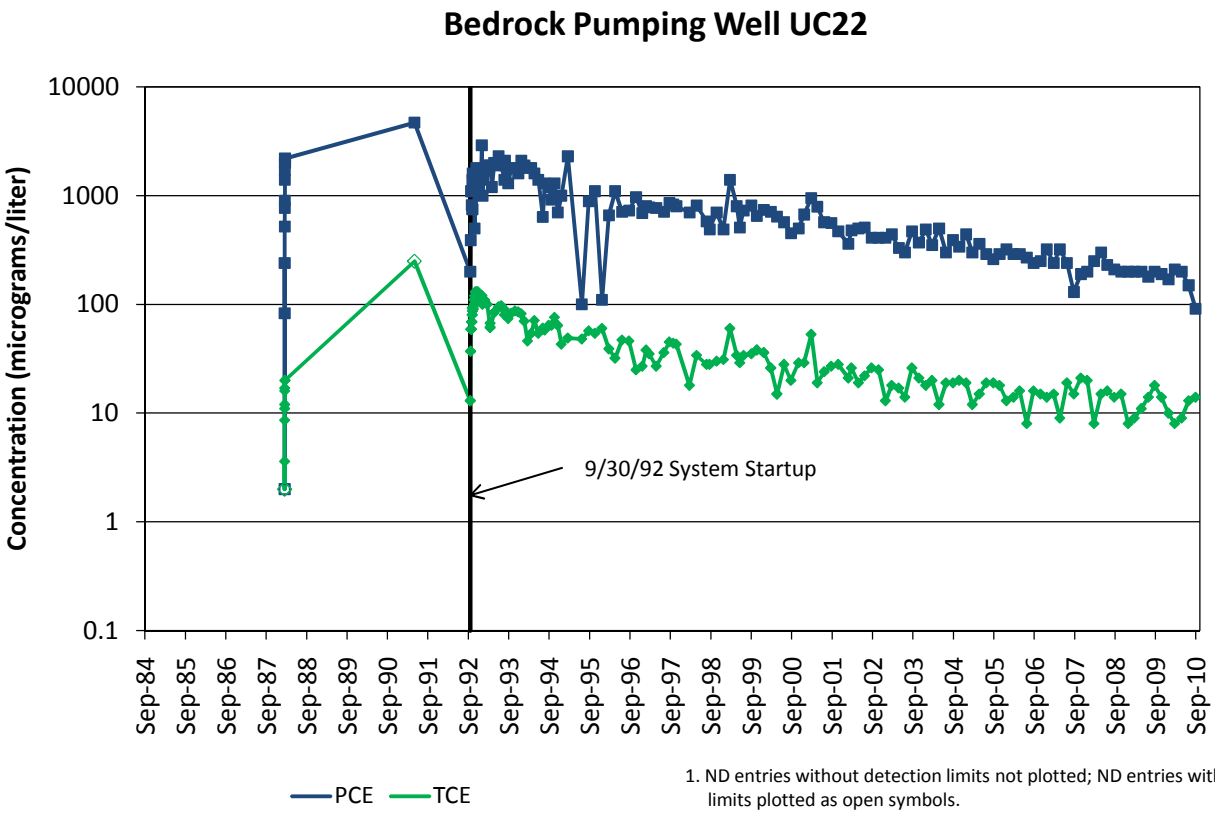
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

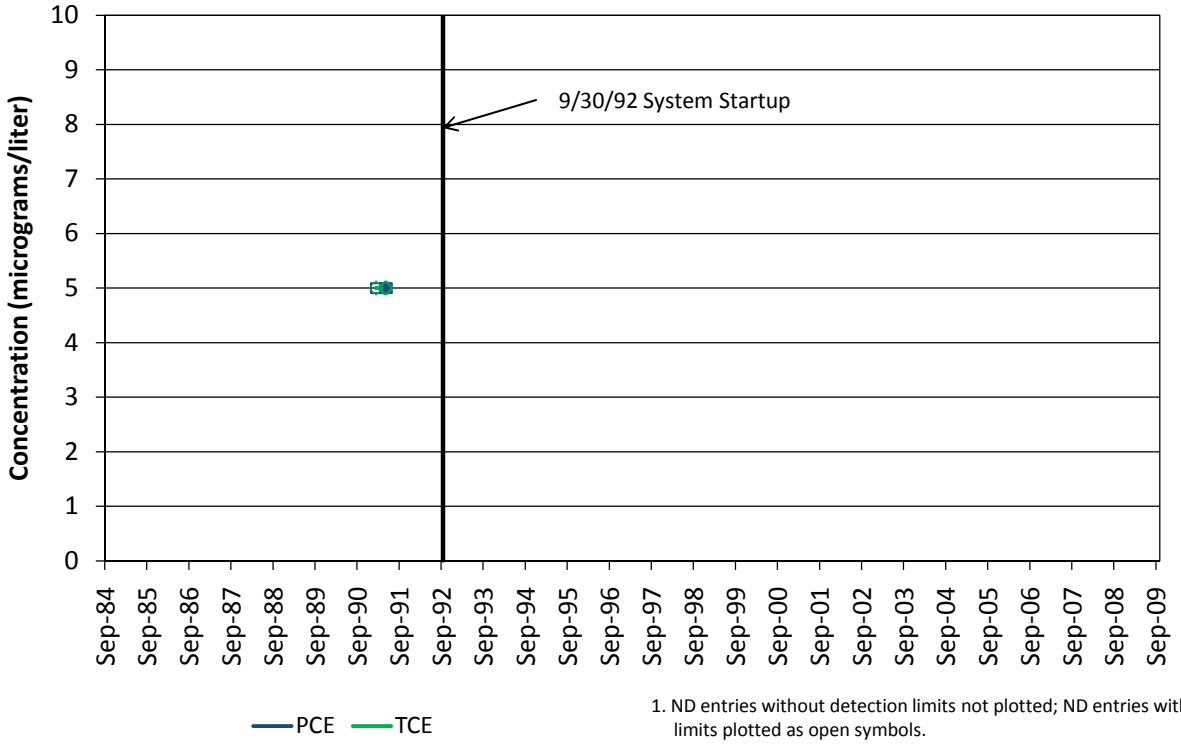


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



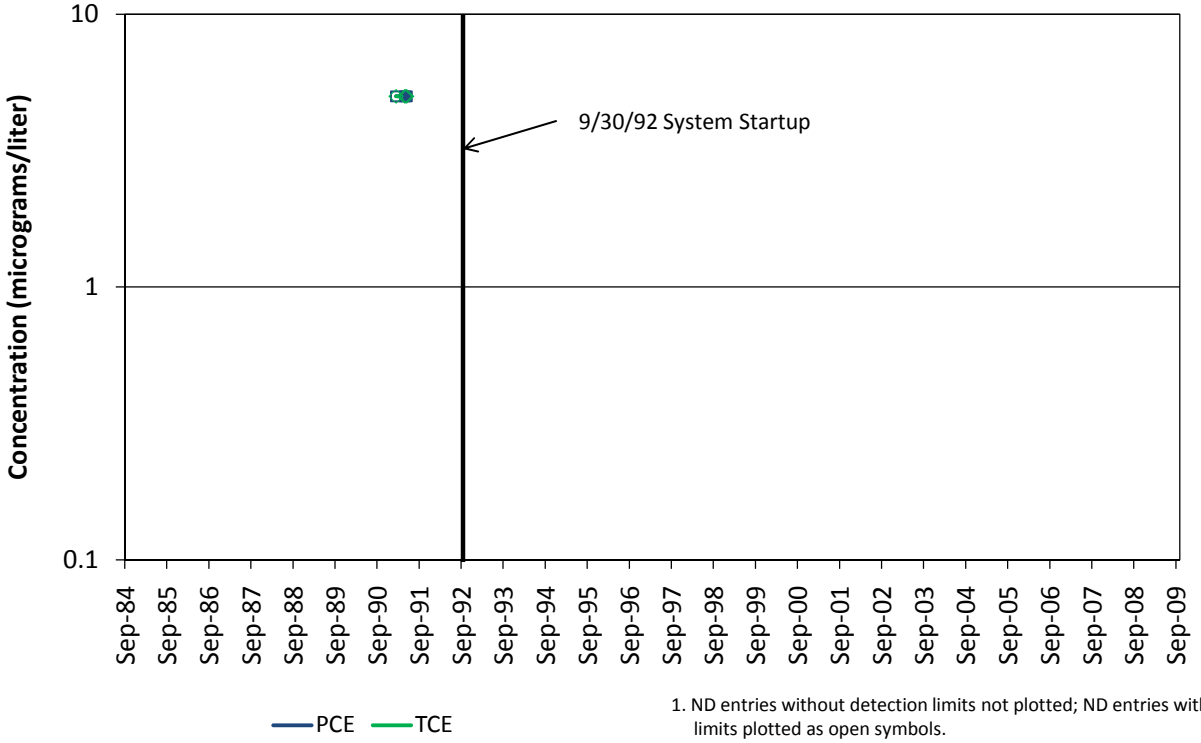
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

Deep Bedrock Well UC23-3

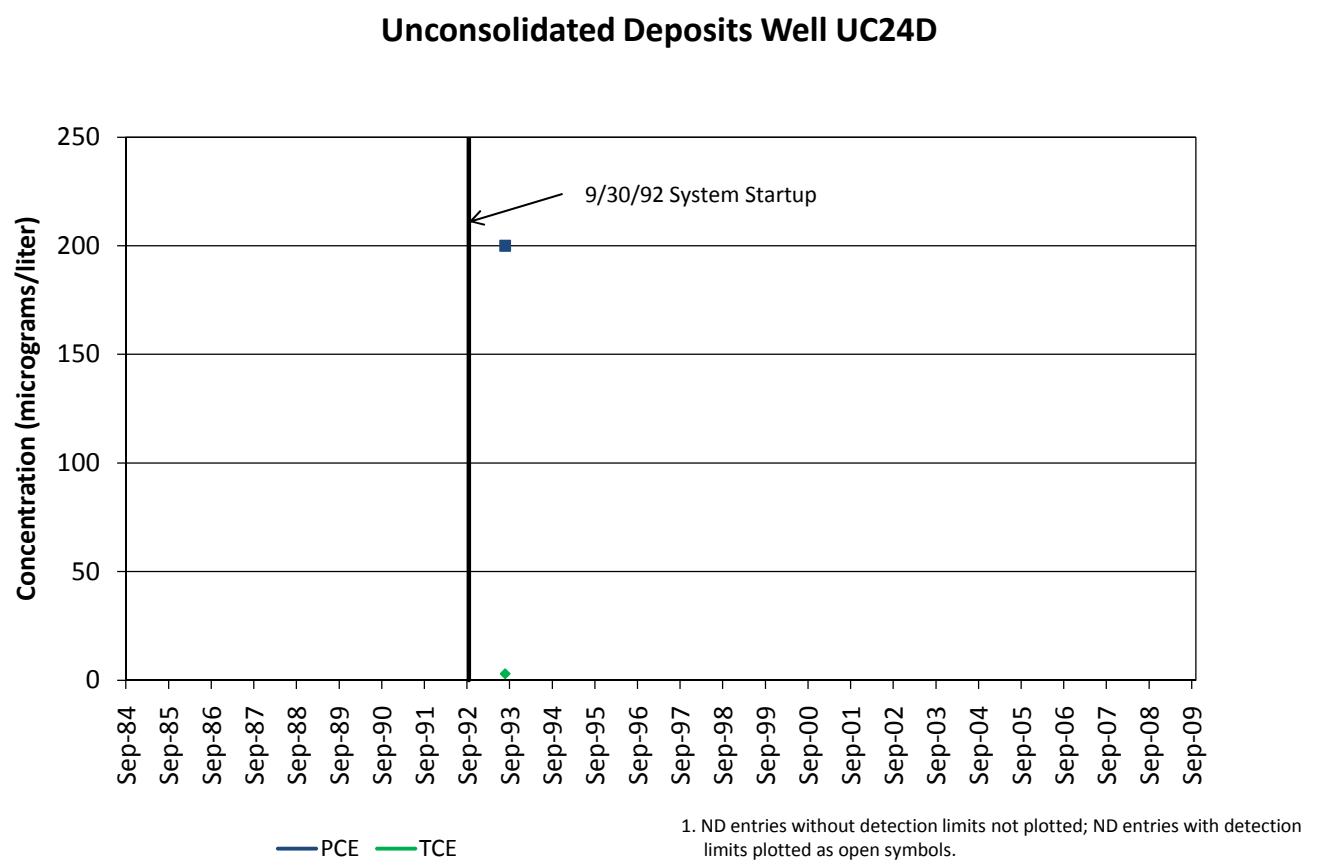


1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

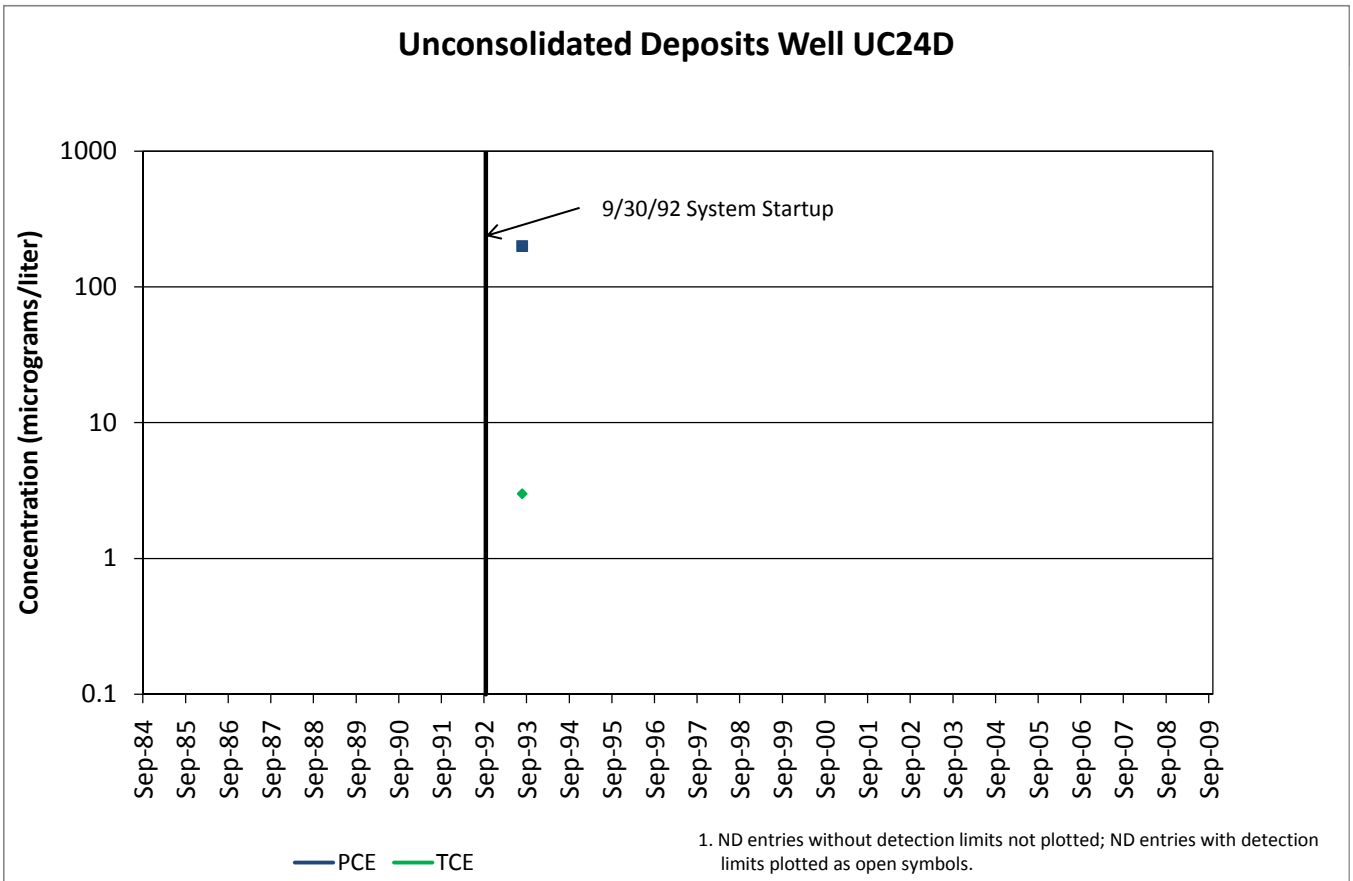
Deep Bedrock Well UC23-3



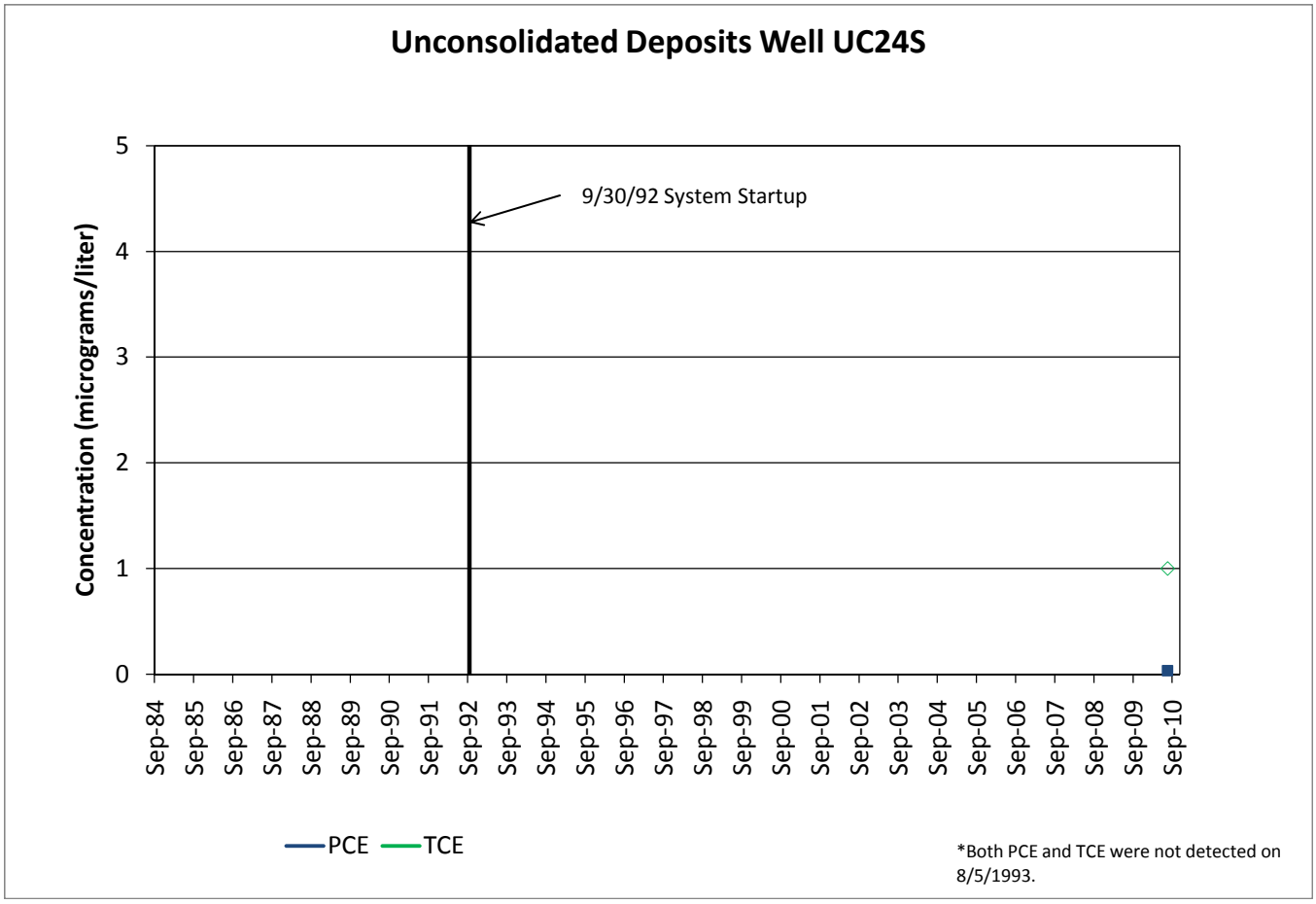
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

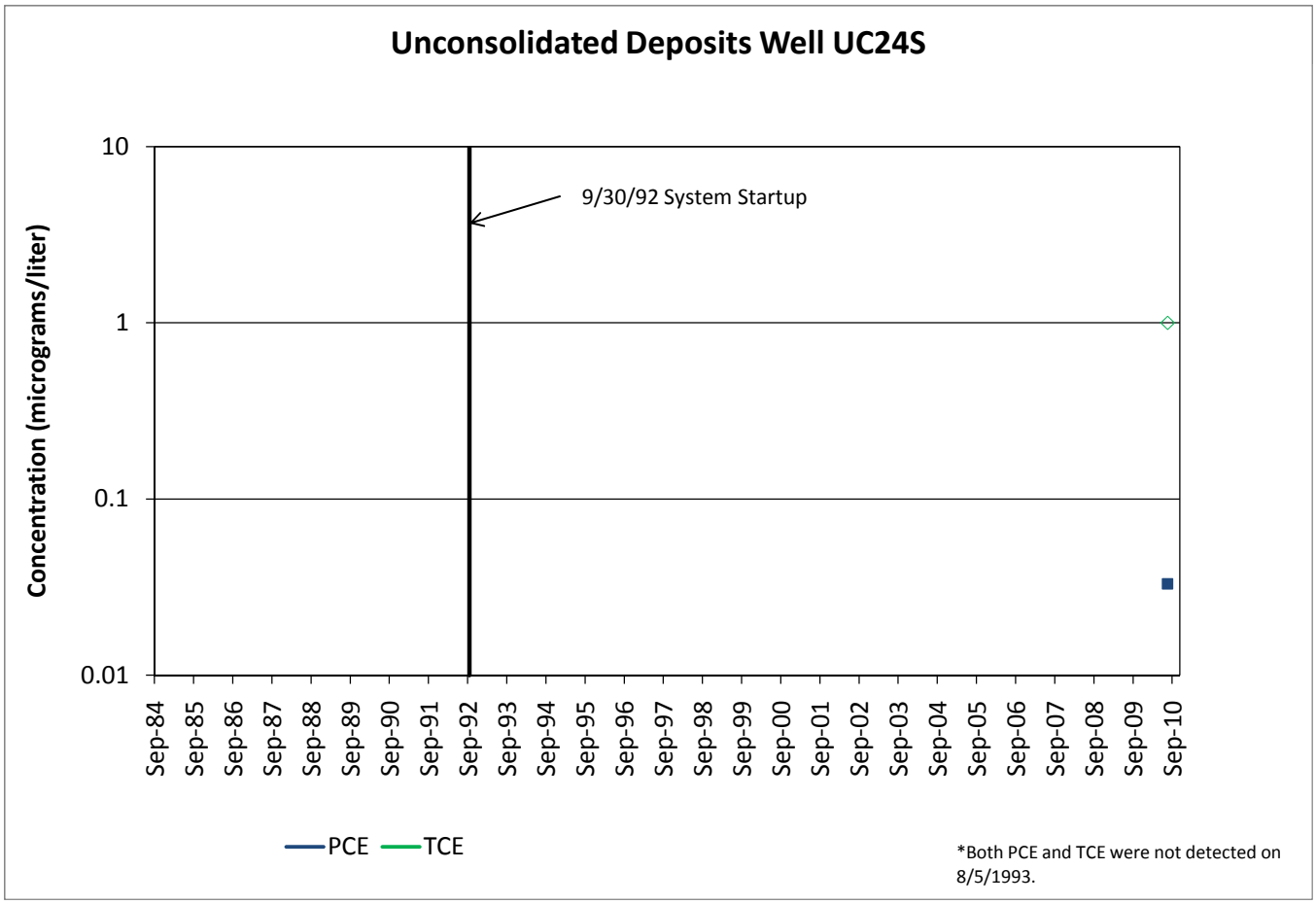


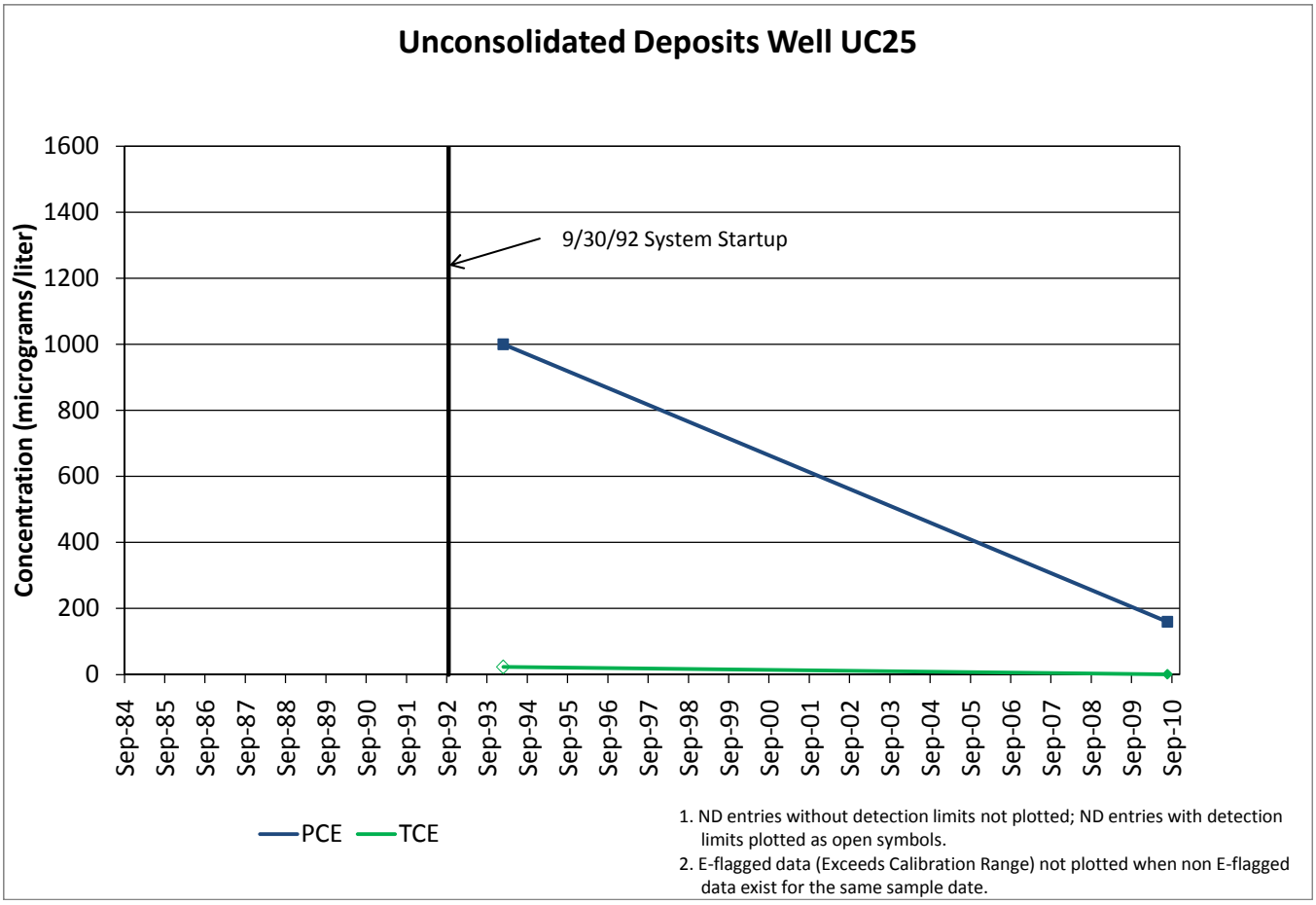
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

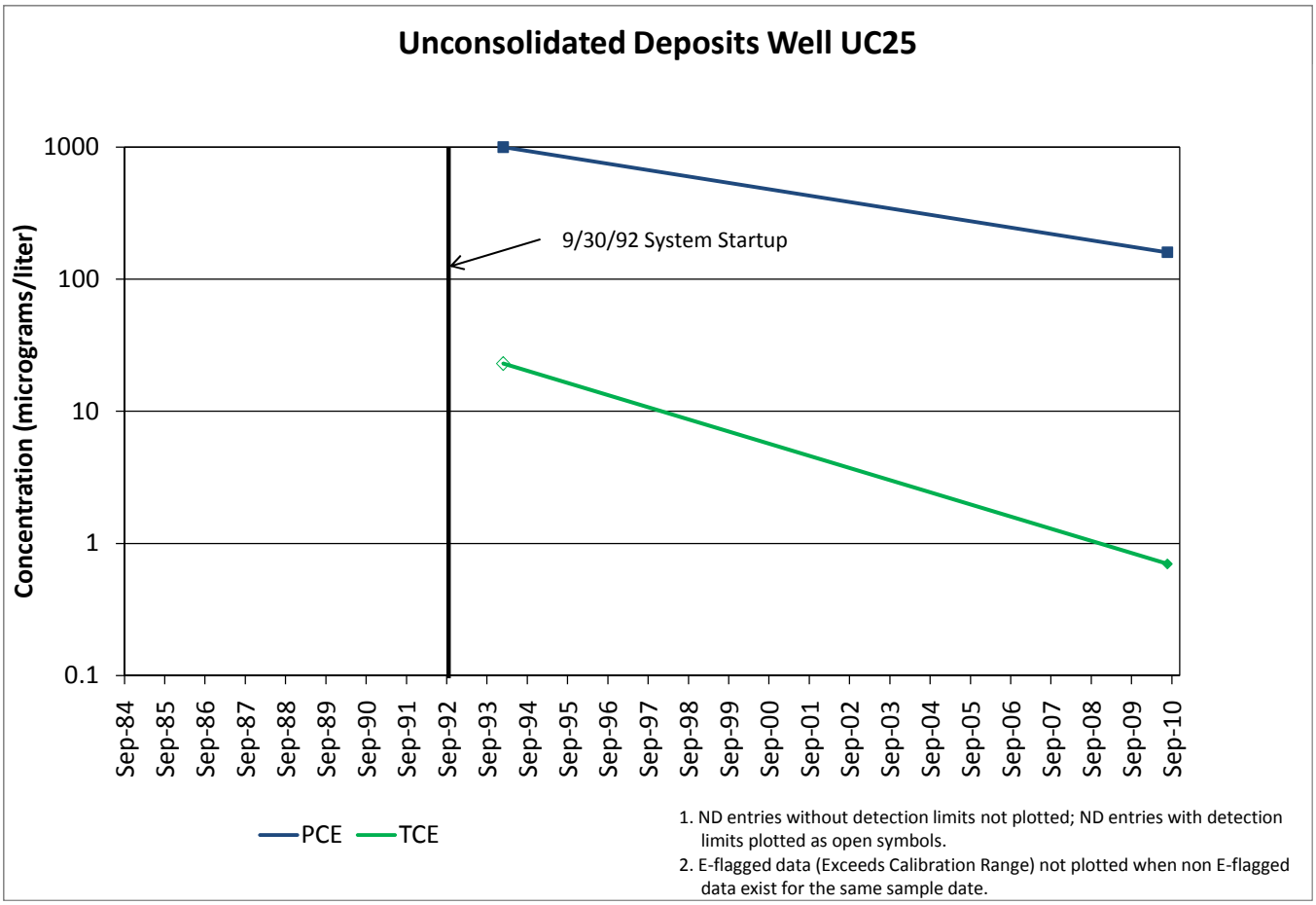


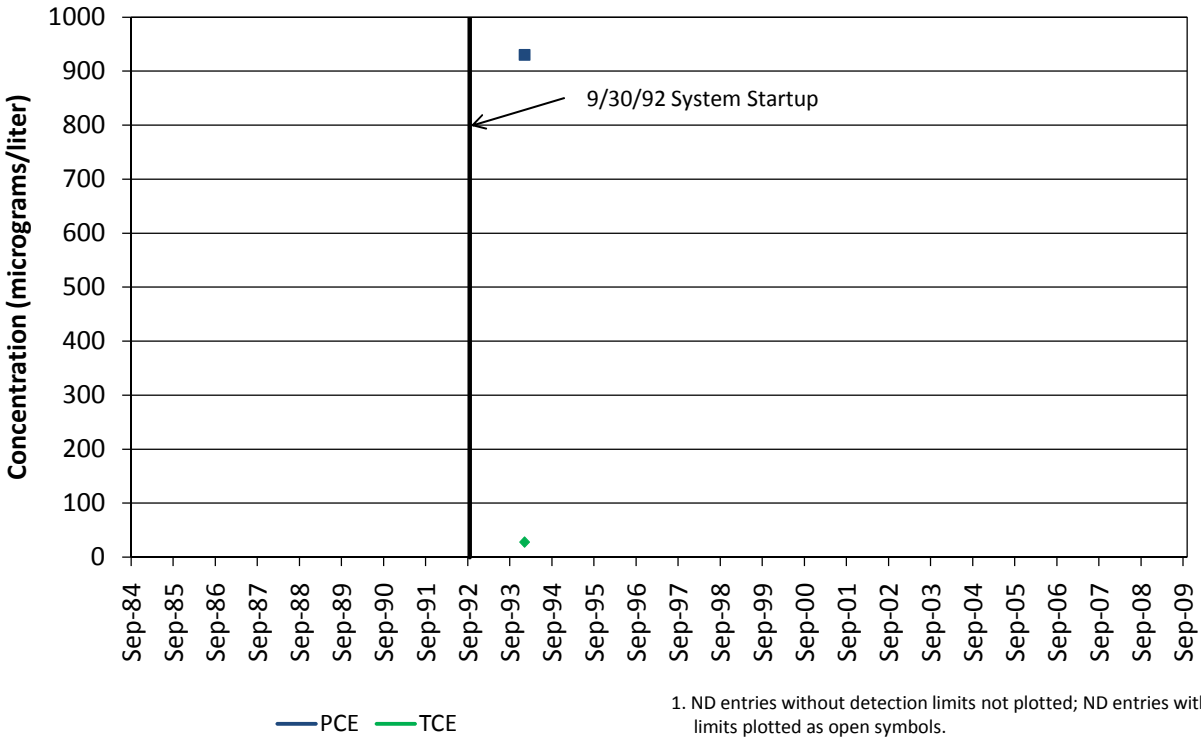
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.


Unconsolidated Deposits Well UC24S
Concentration (micrograms/liter)
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
*Both PCE and TCE were not detected on 8/5/1993.

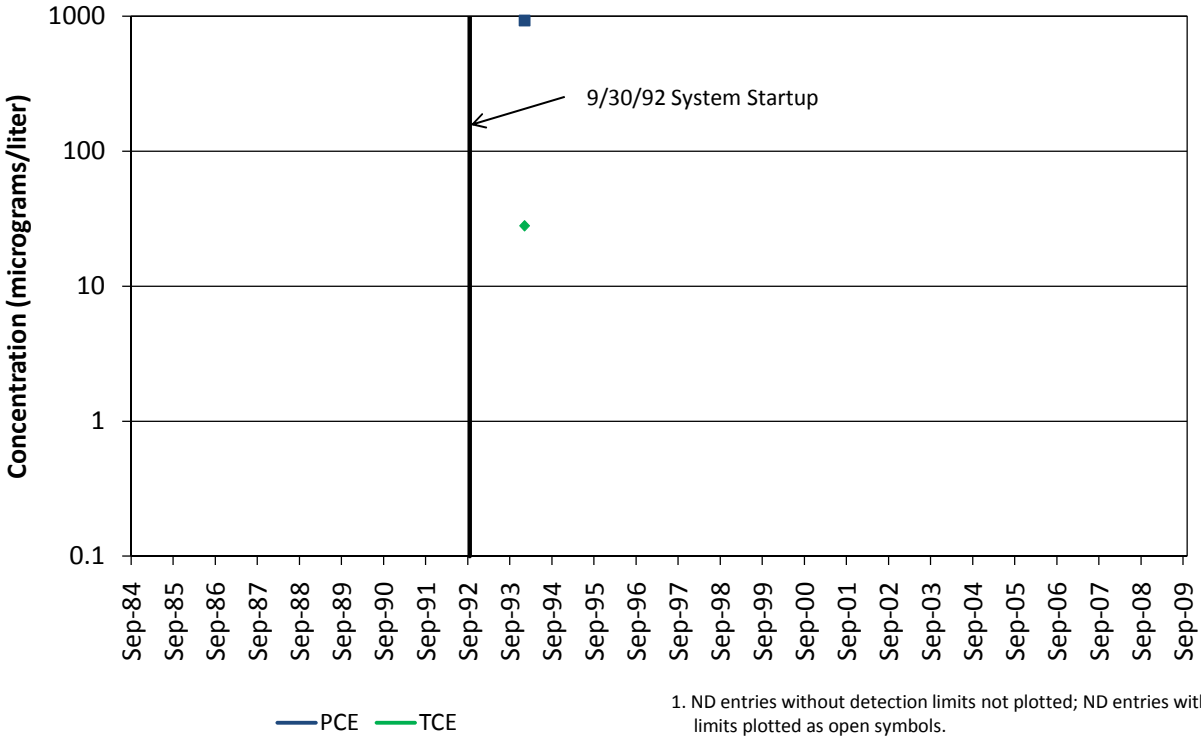

Unconsolidated Deposits Well UC24S
Concentration (micrograms/liter)
10
1
0.1
0.01
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
*Both PCE and TCE were not detected on 8/5/1993.


Unconsolidated Deposits Well UC25
Concentration (micrograms/liter)
1600
1400
1200
1000
800
600
400
200
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.

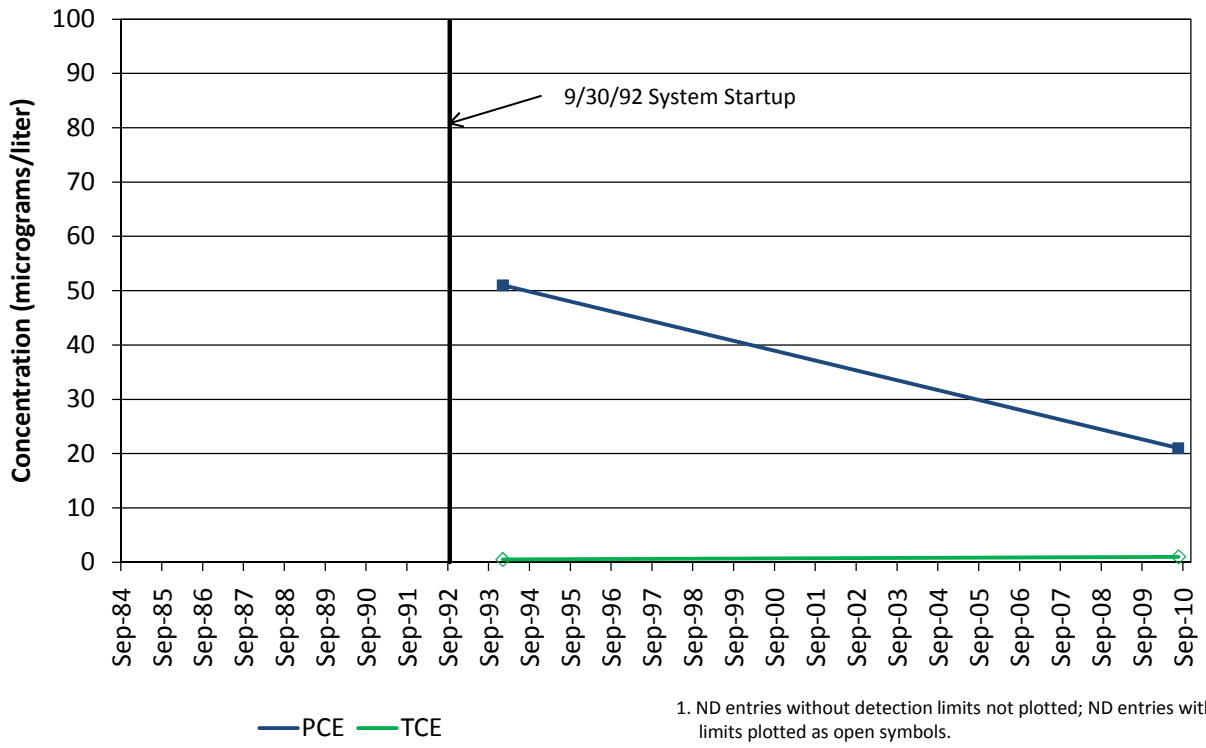

Unconsolidated Deposits Well UC25
Concentration (micrograms/liter)
1000
100
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



1. ND entries without detection limits not plotted; ND entries with detection limits plotted as open symbols.
2. E-flagged data (Exceeds Calibration Range) not plotted when non E-flagged data exist for the same sample date.



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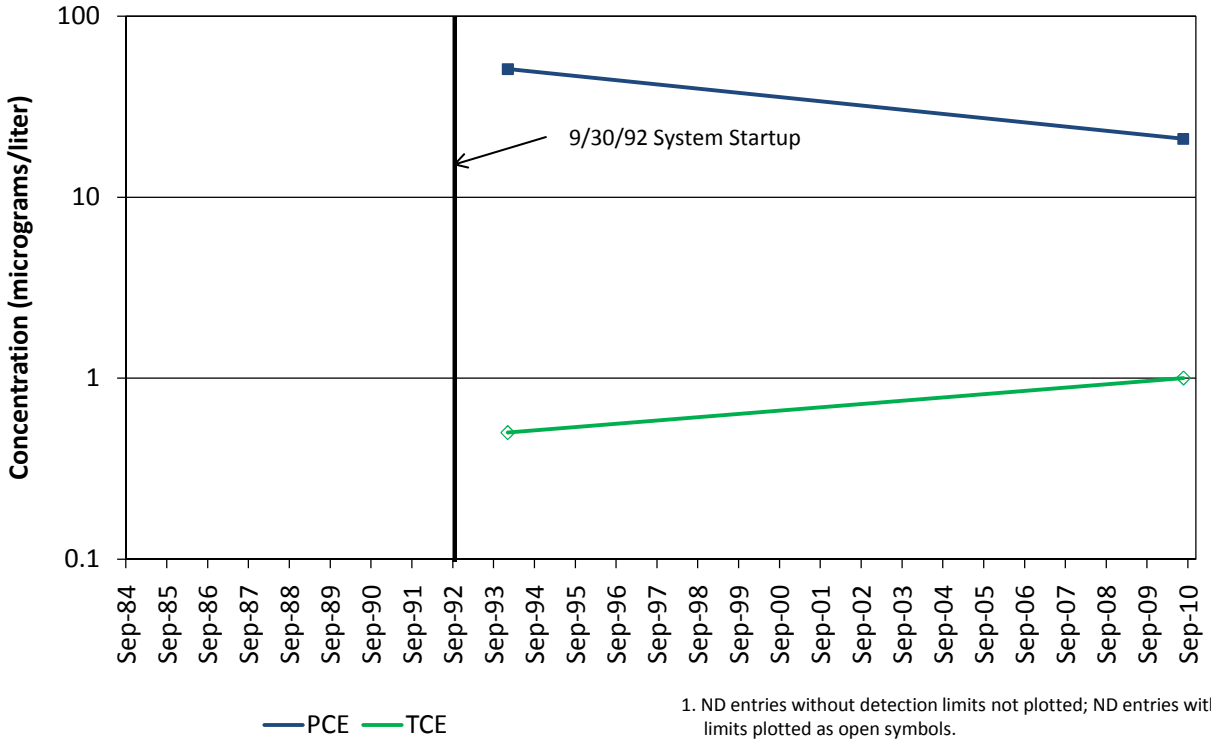

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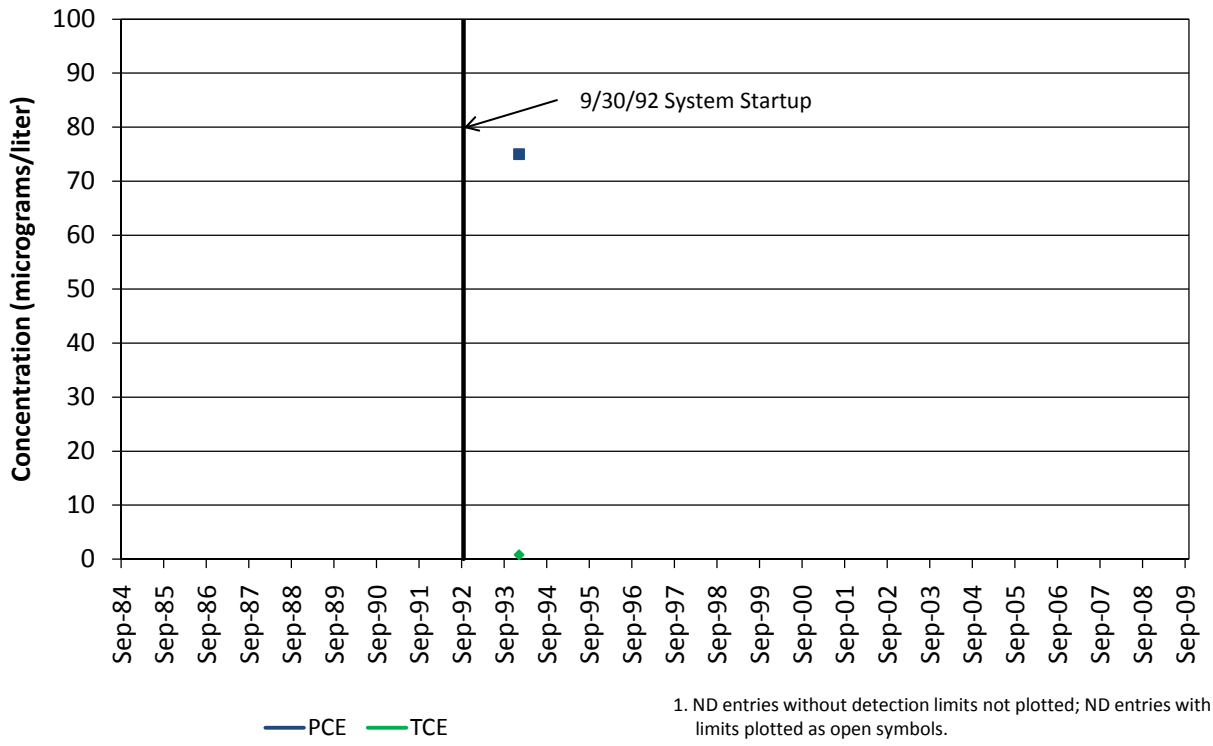

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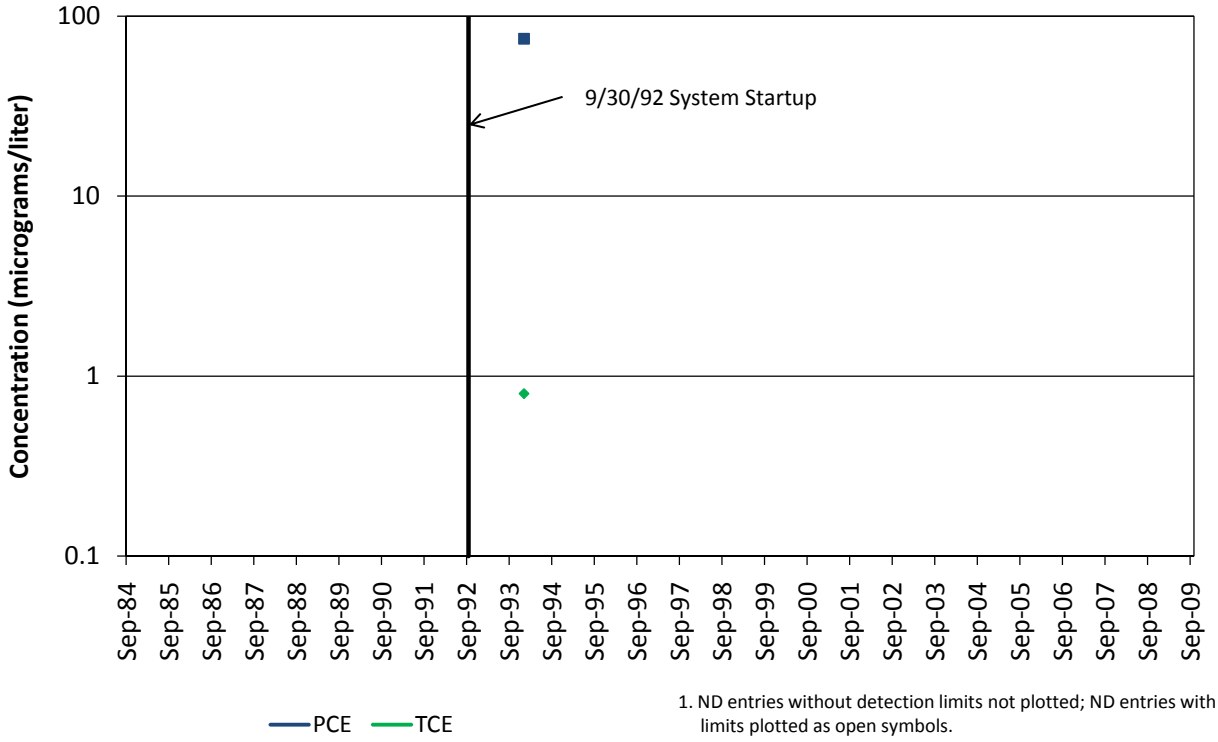

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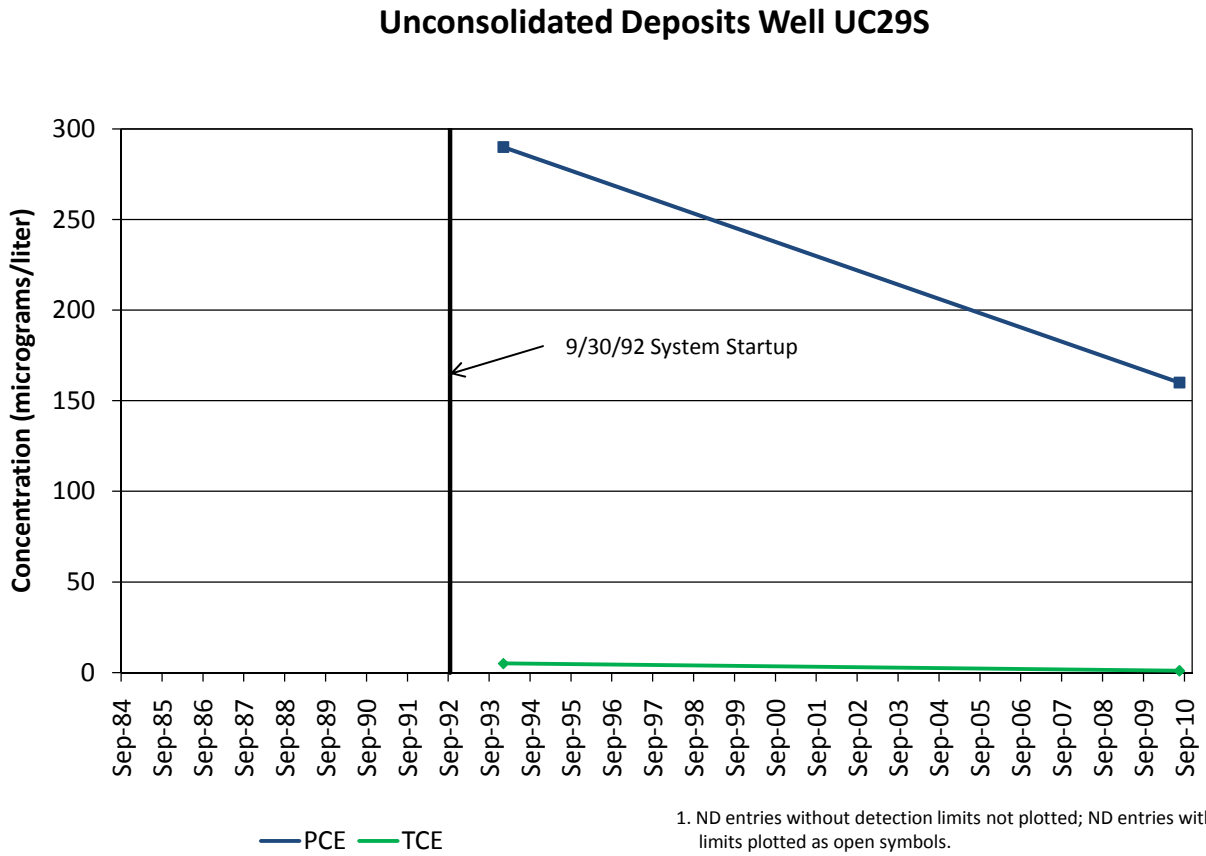

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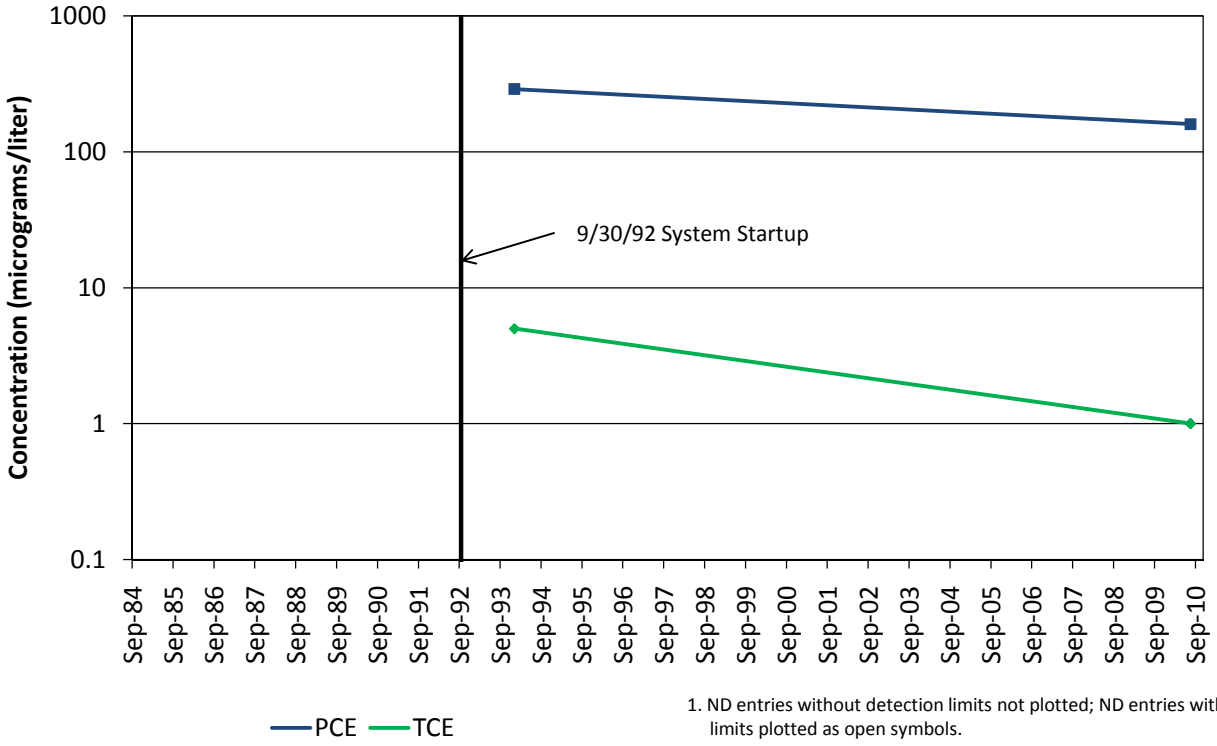

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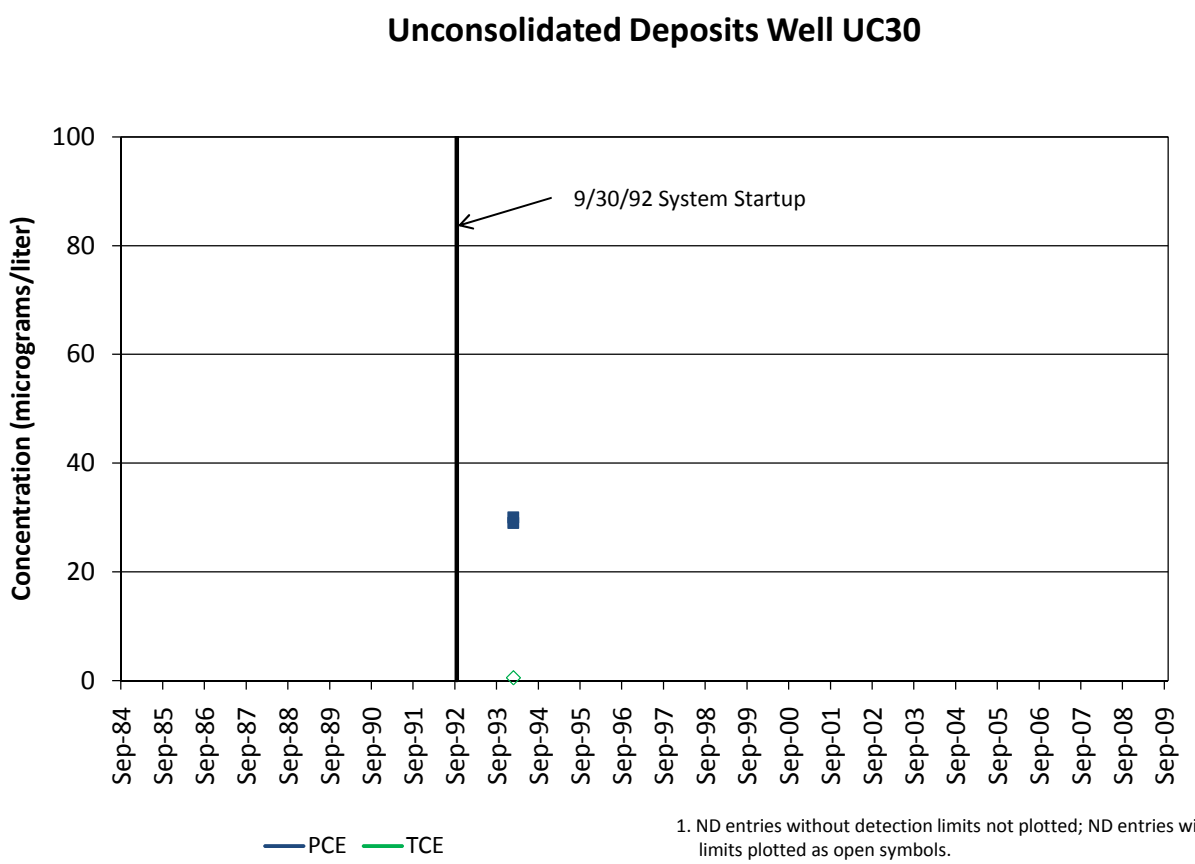

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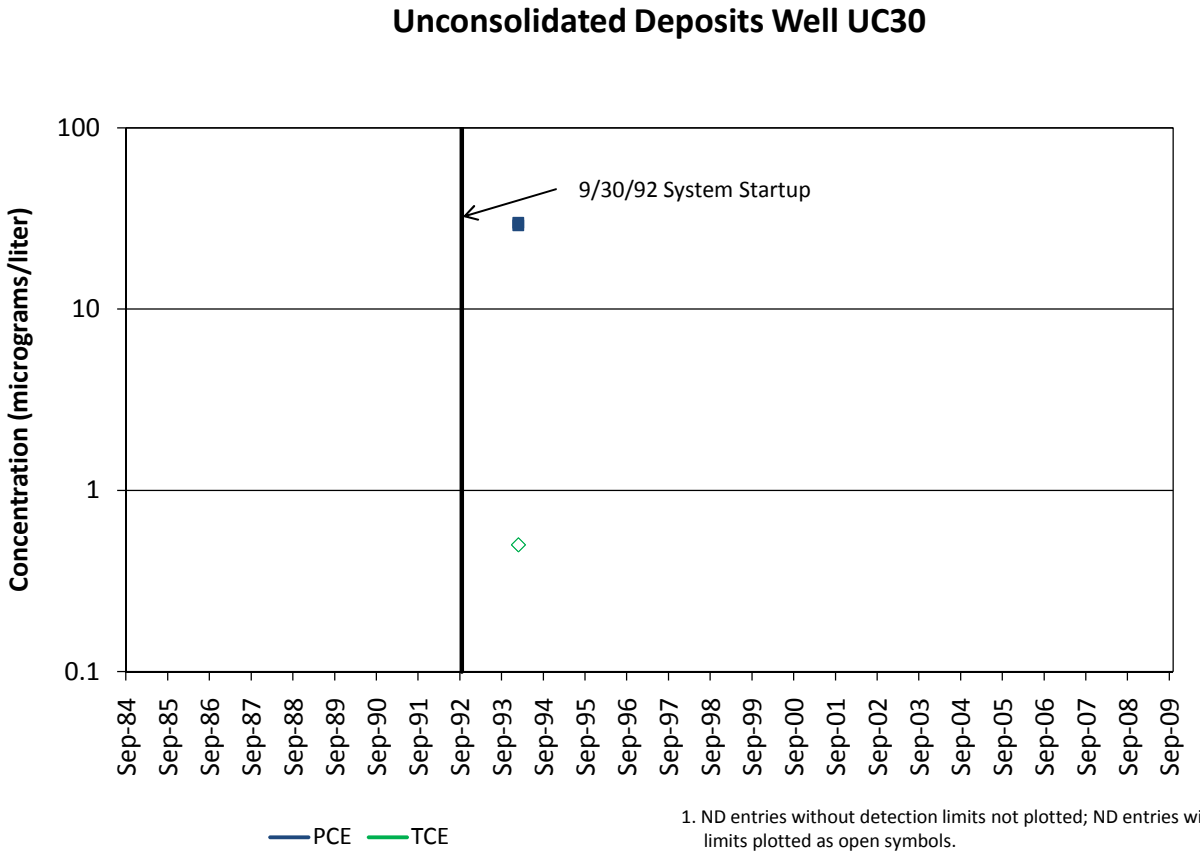

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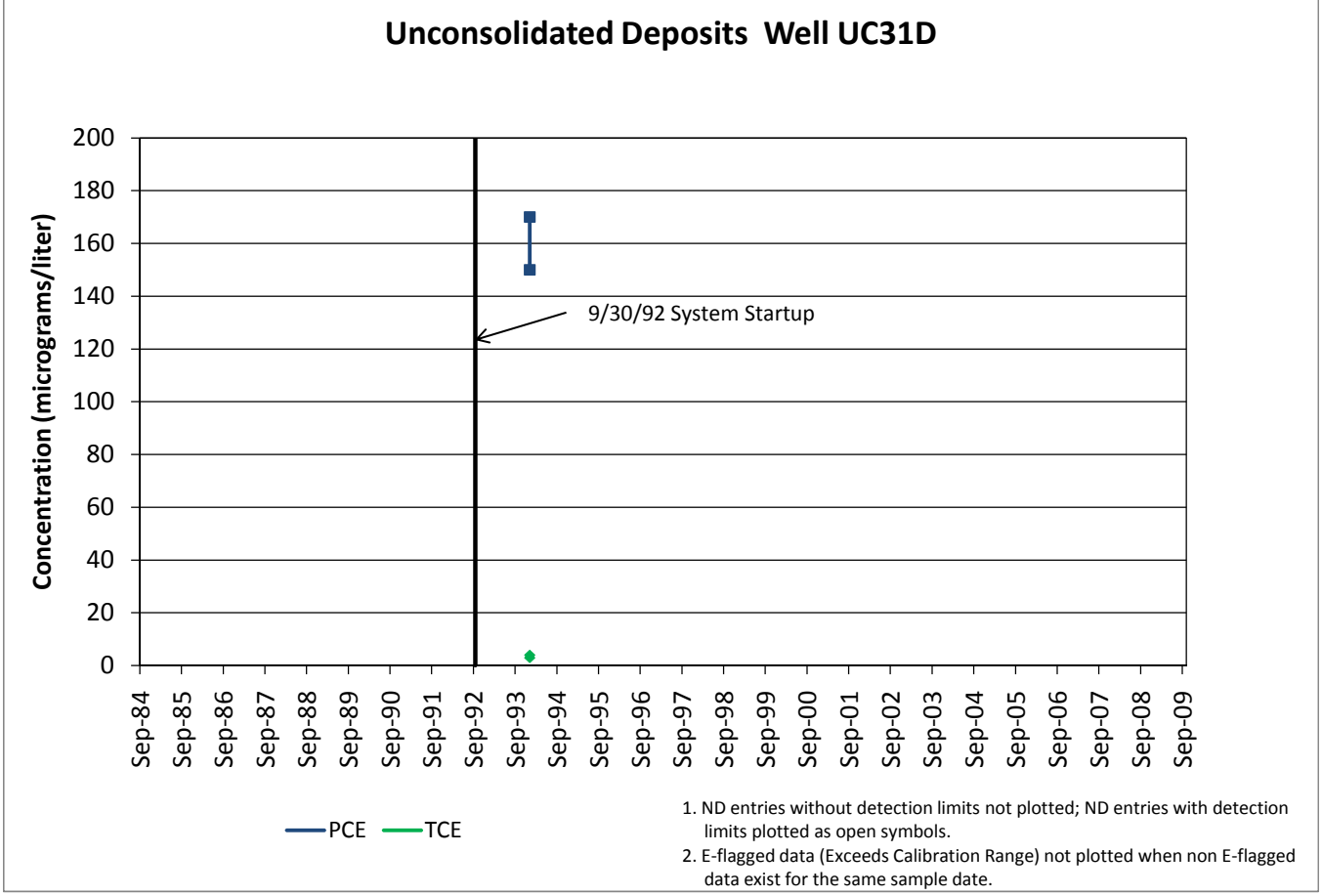

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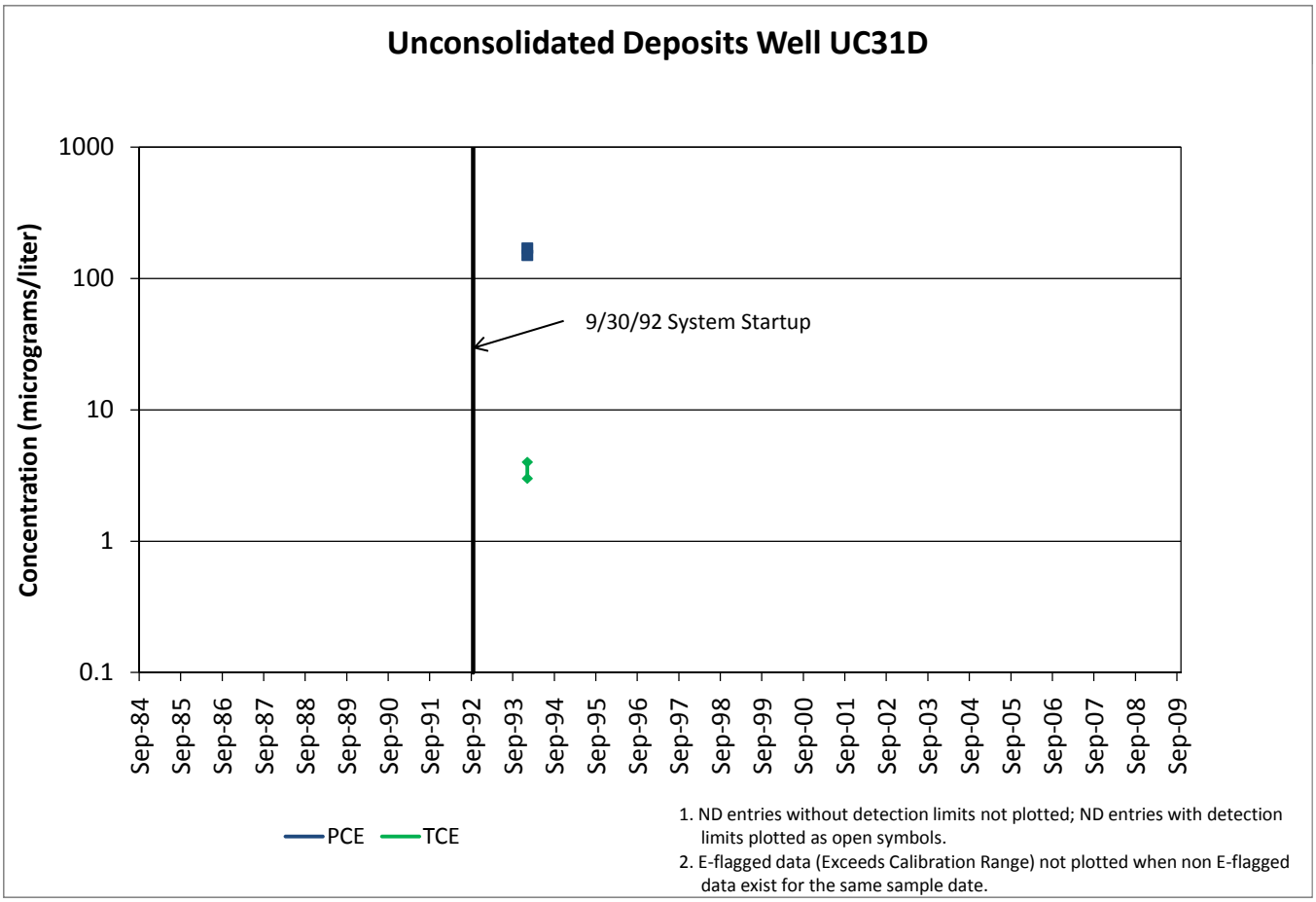

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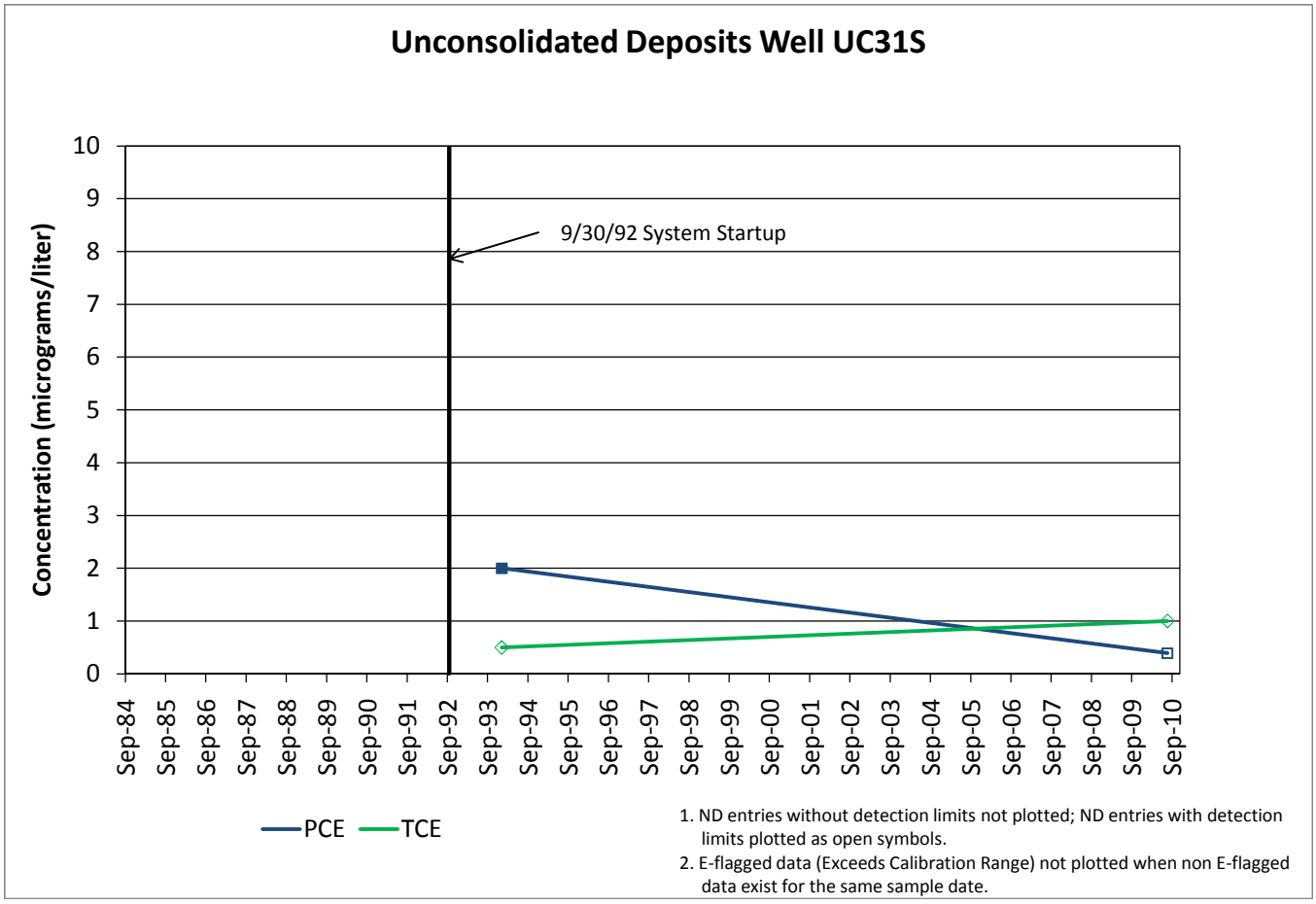
Unconsolidated Deposits Well UC31S
Concentration (micrograms/liter)
10
9
8
7
6
5
4
3
2
1
0
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
TCE
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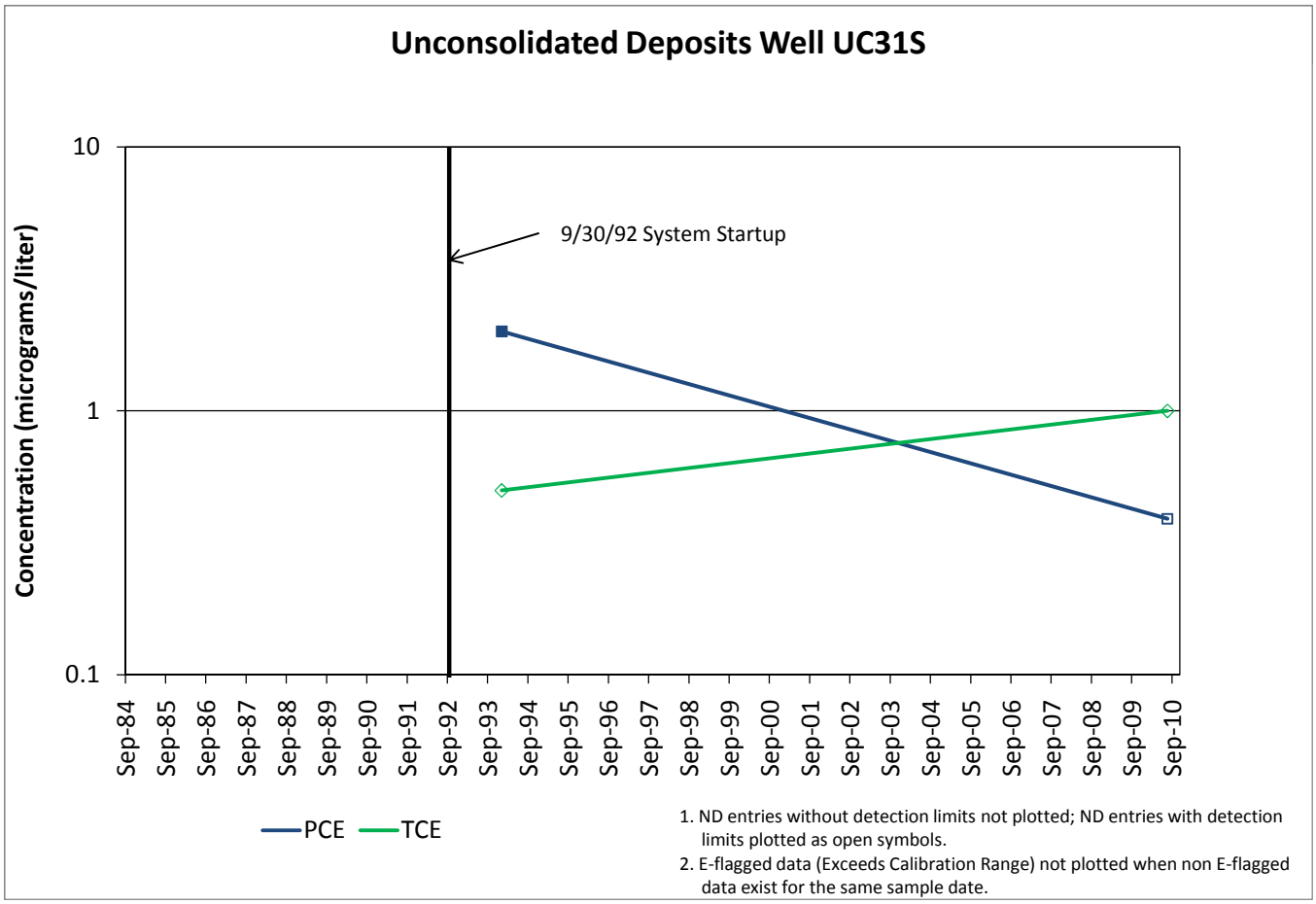
Unconsolidated Deposits Well UC31S
Concentration (micrograms/liter)
10
1
0.1
9/30/92 System Startup
Sep-84
Sep-85
Sep-86
Sep-87
Sep-88
Sep-89
Sep-90
Sep-91
Sep-92
Sep-93
Sep-94
Sep-95
Sep-96
Sep-97
Sep-98
Sep-99
Sep-00
Sep-01
Sep-02
Sep-03
Sep-04
Sep-05
Sep-06
Sep-07
Sep-08
Sep-09
Sep-10
PCE
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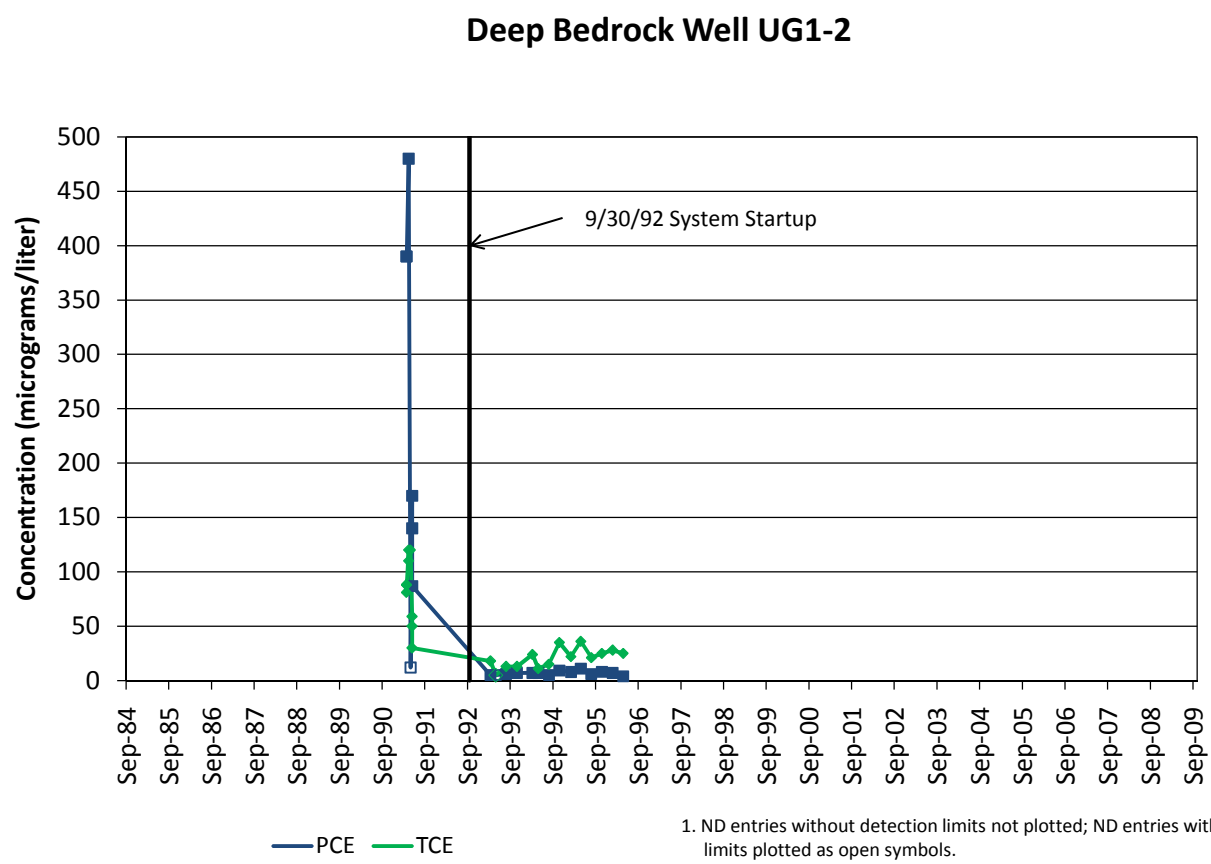

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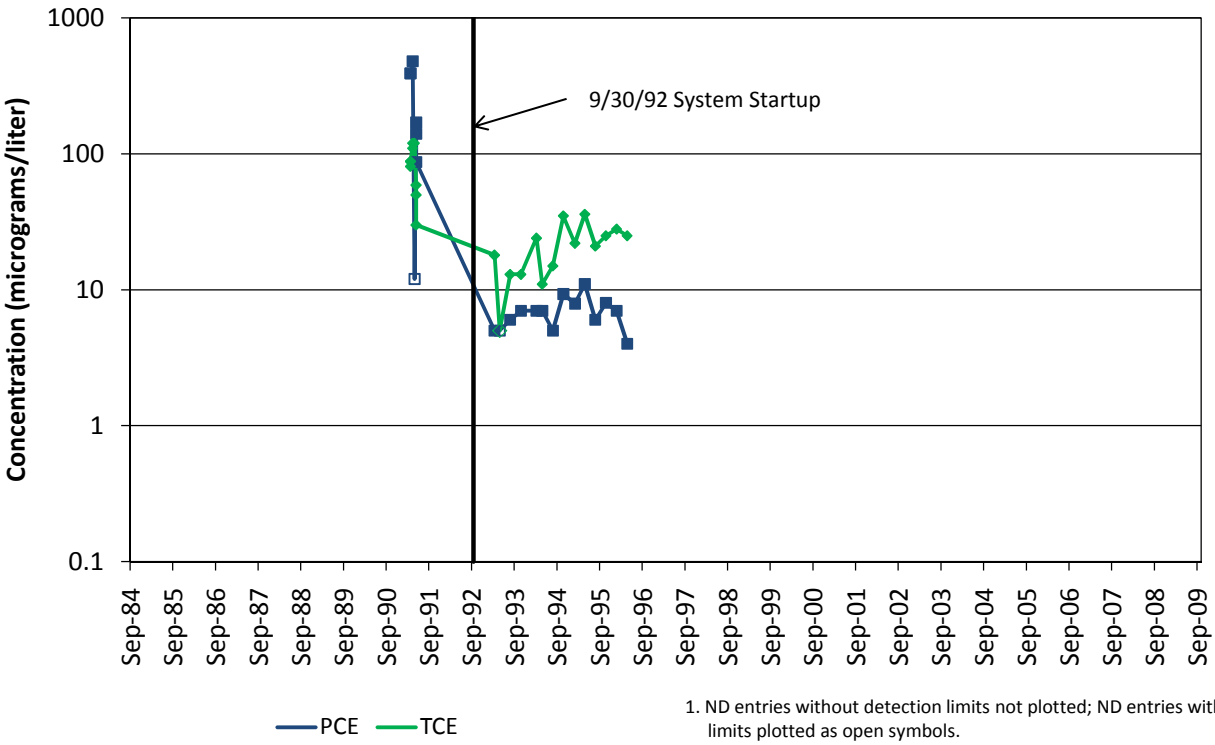

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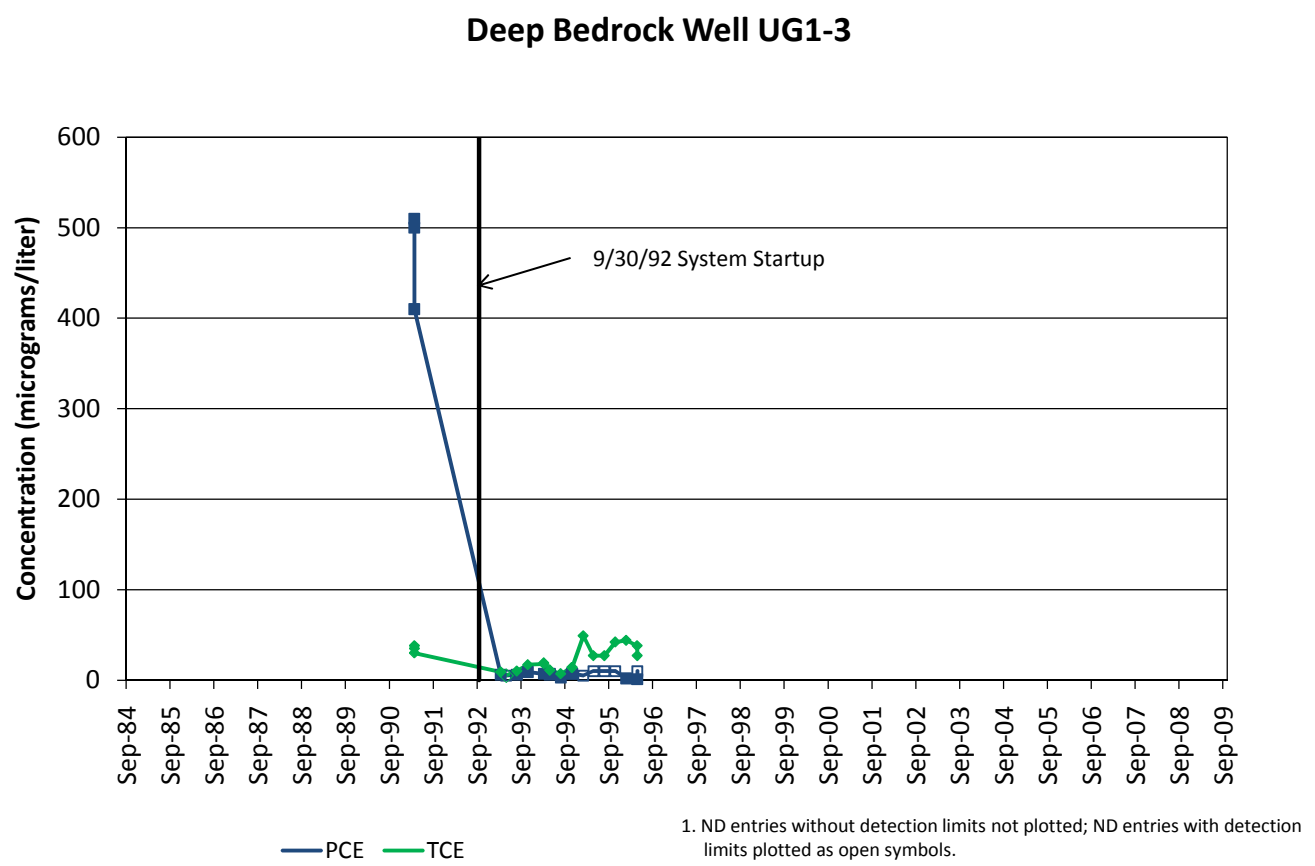

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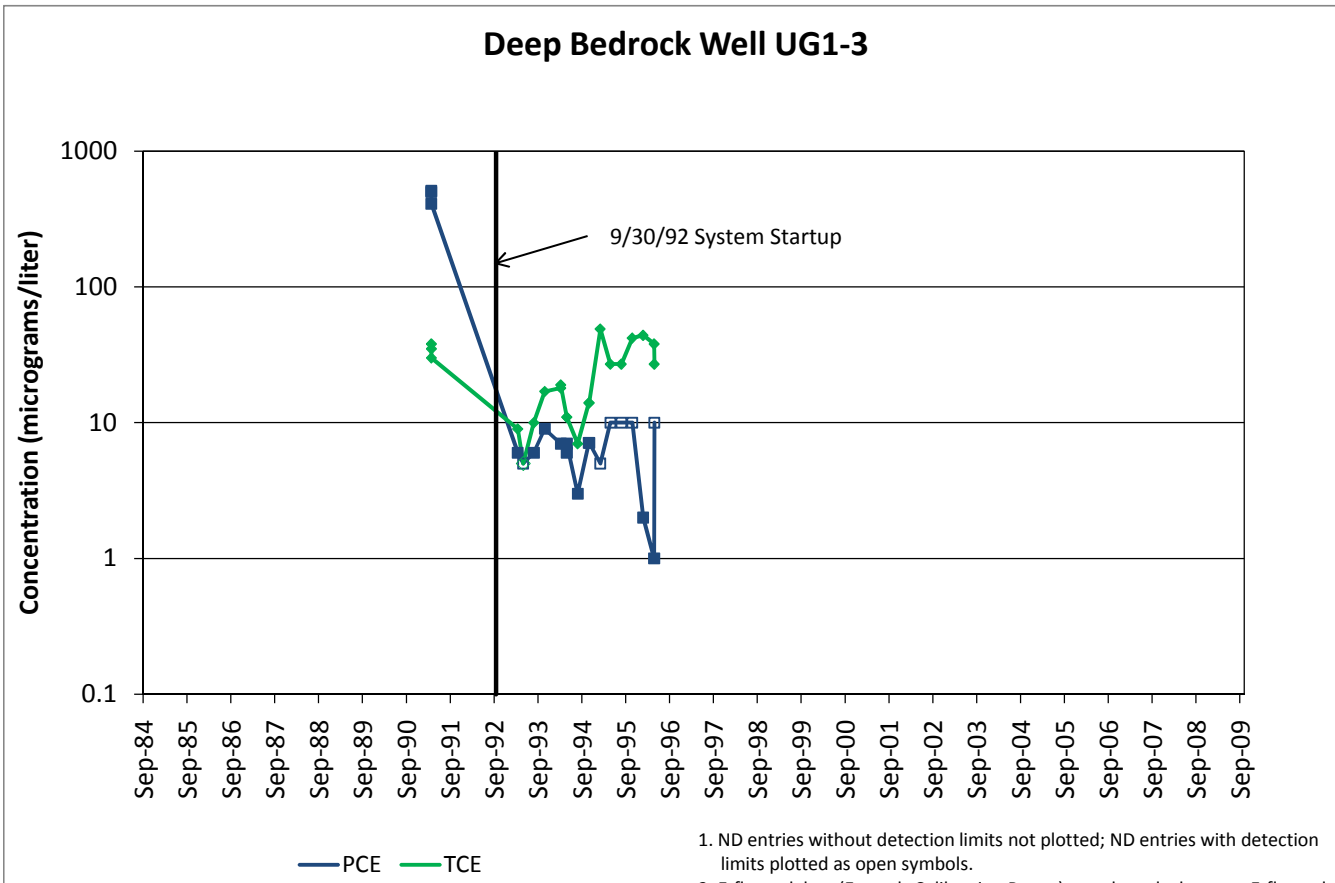

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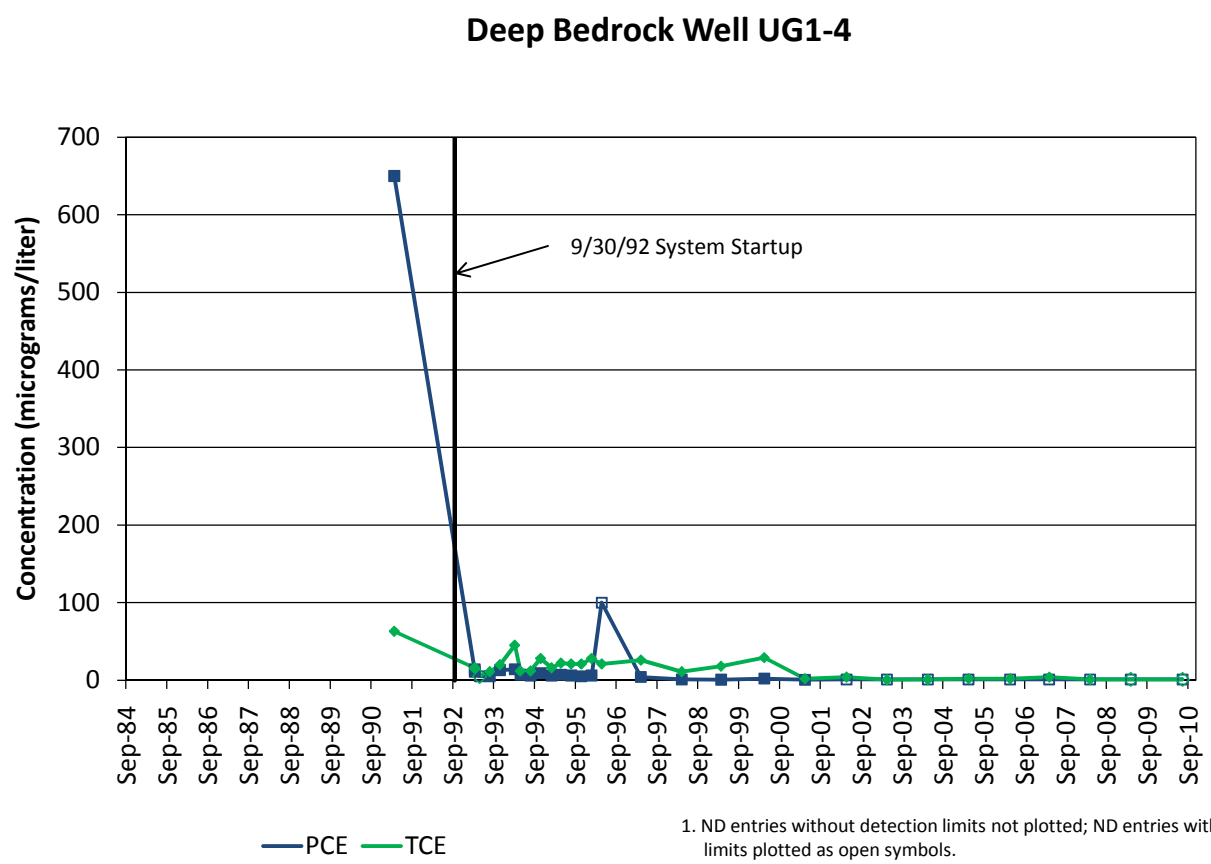

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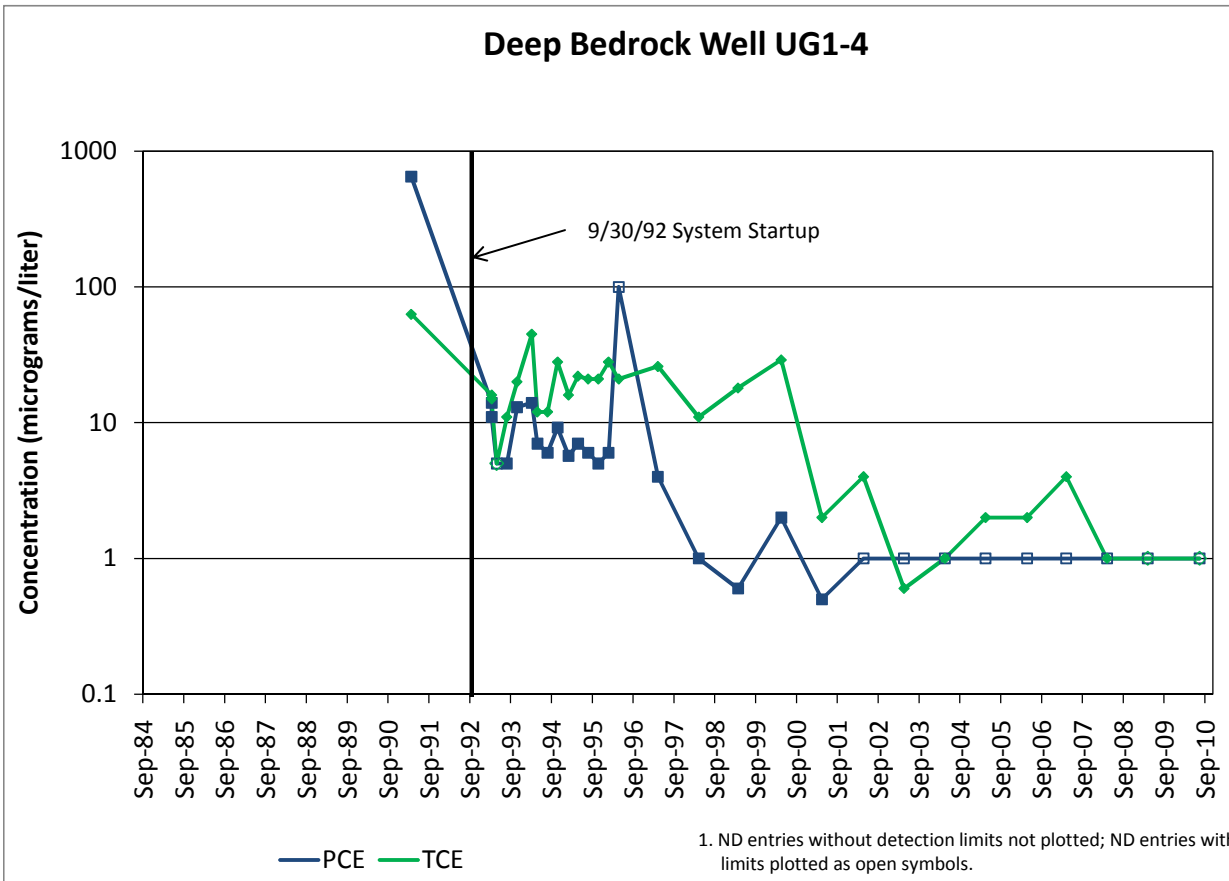

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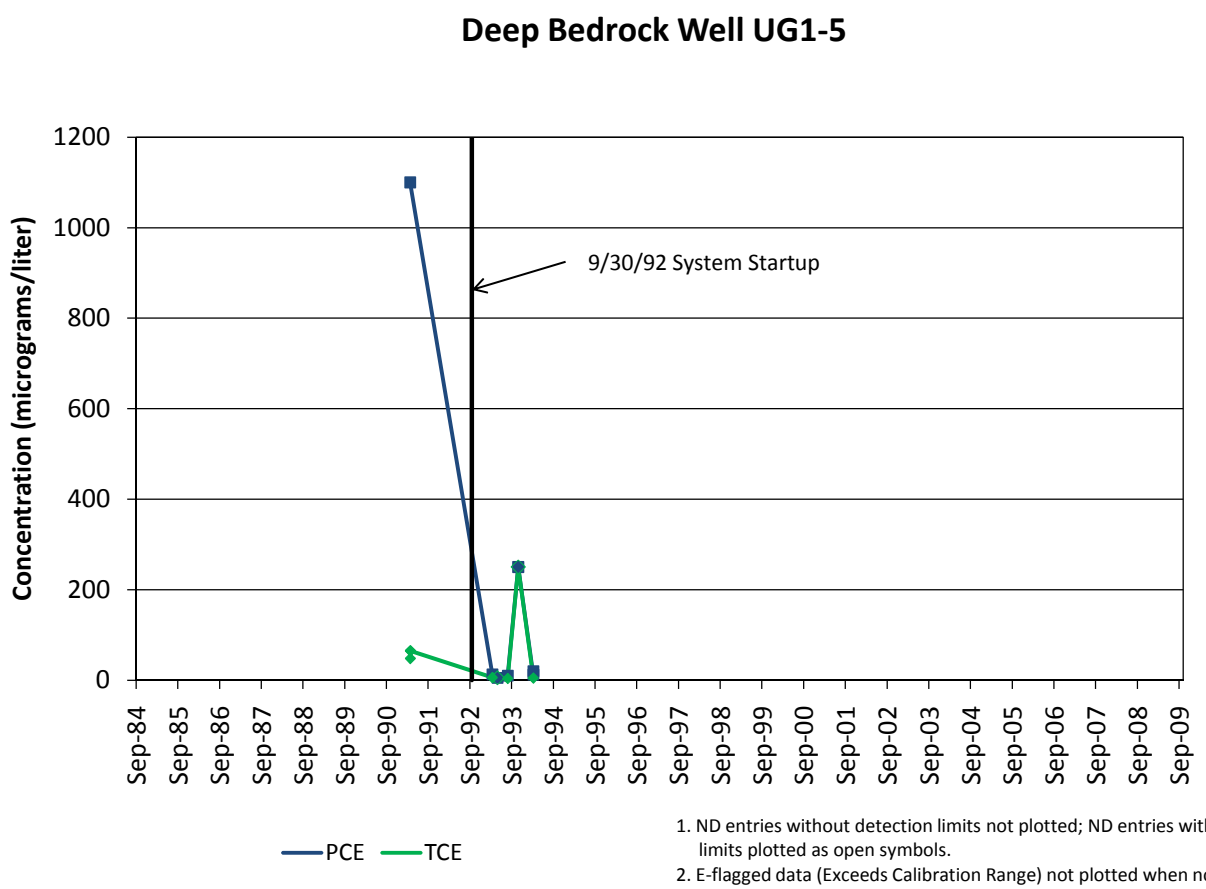

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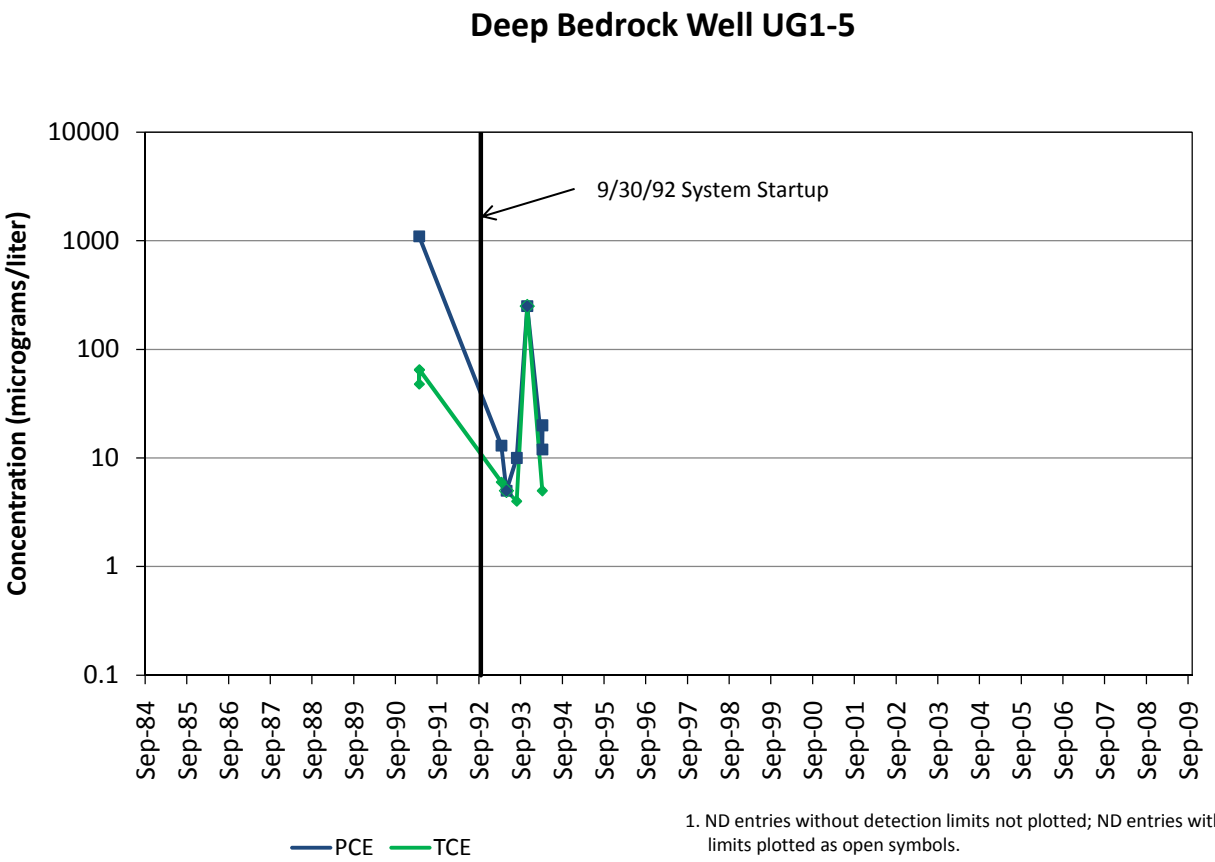

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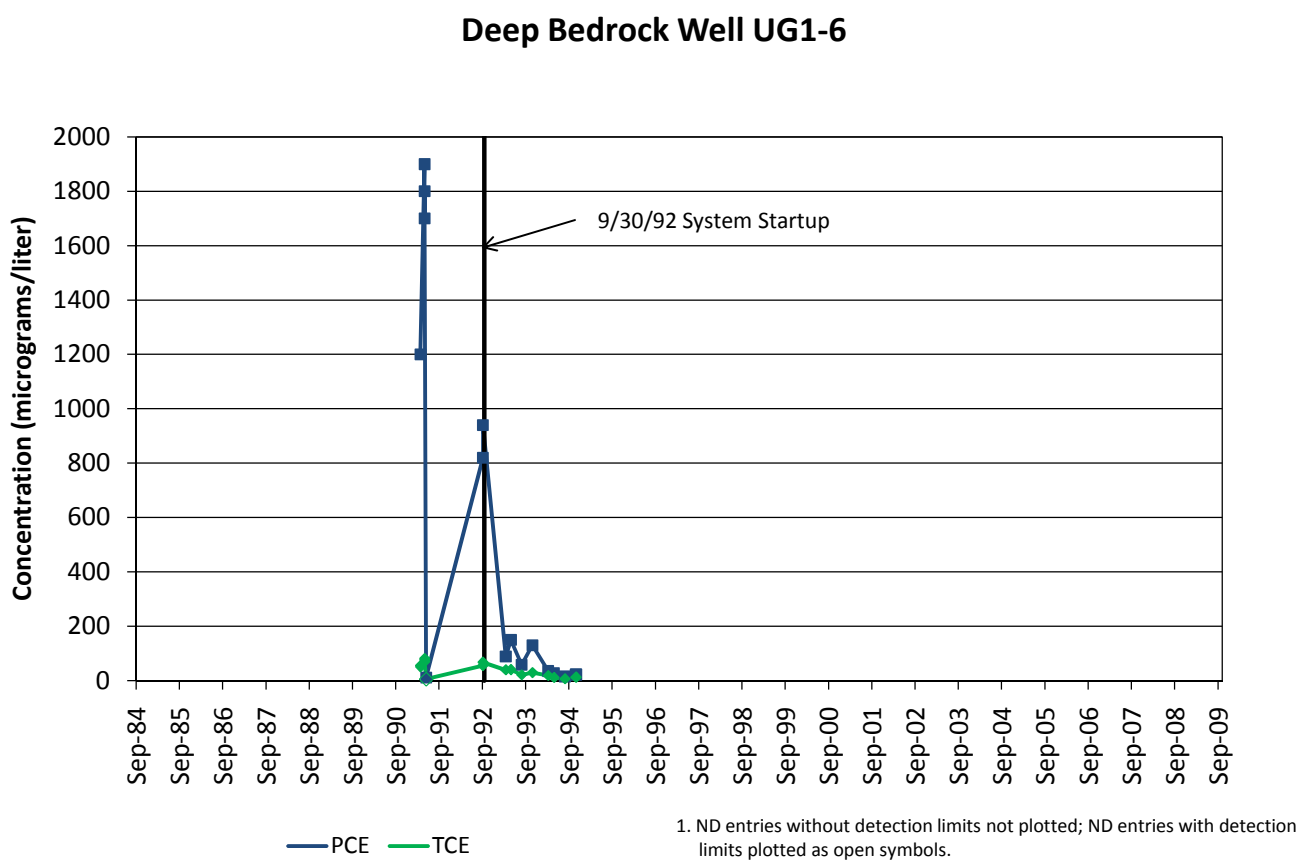

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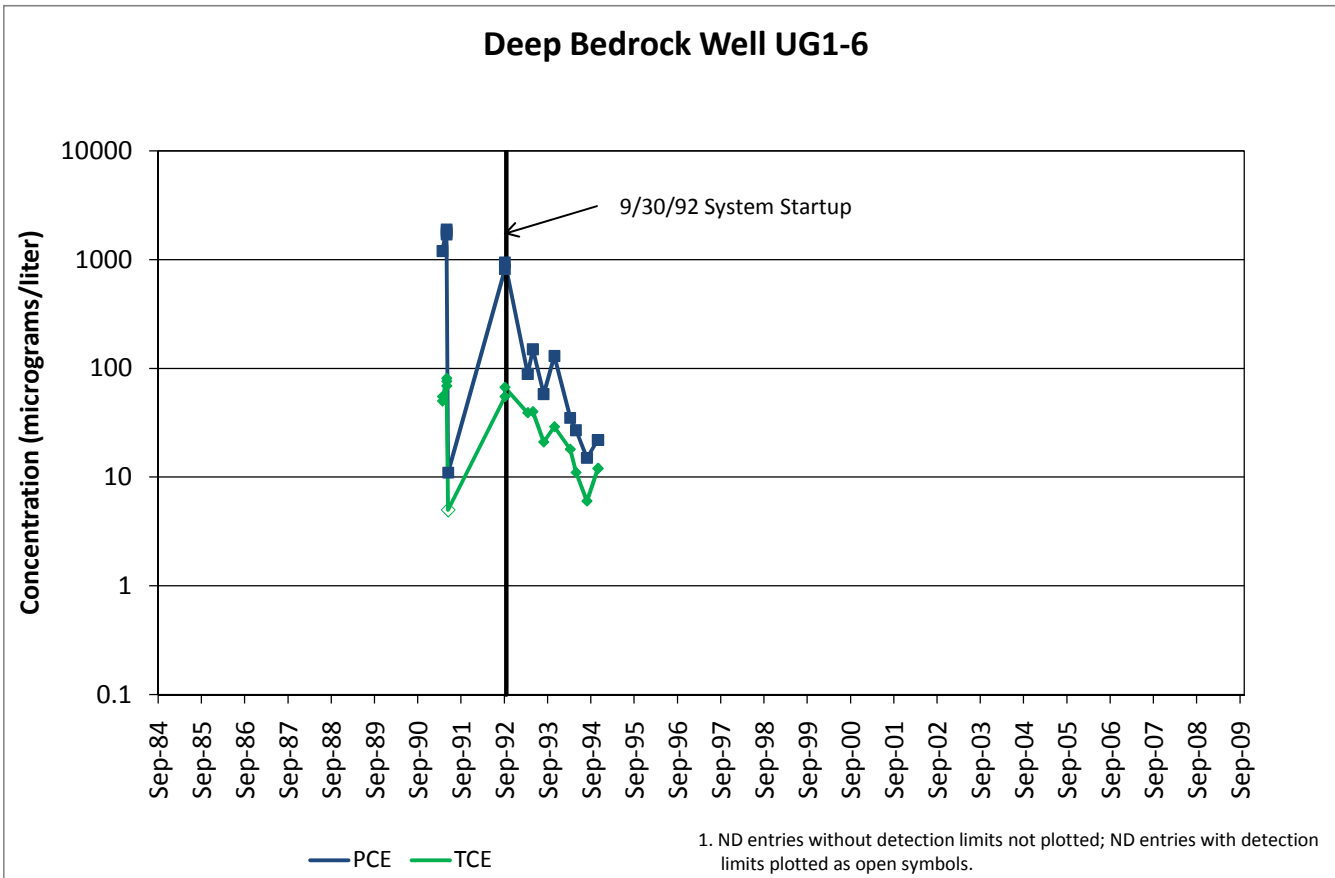

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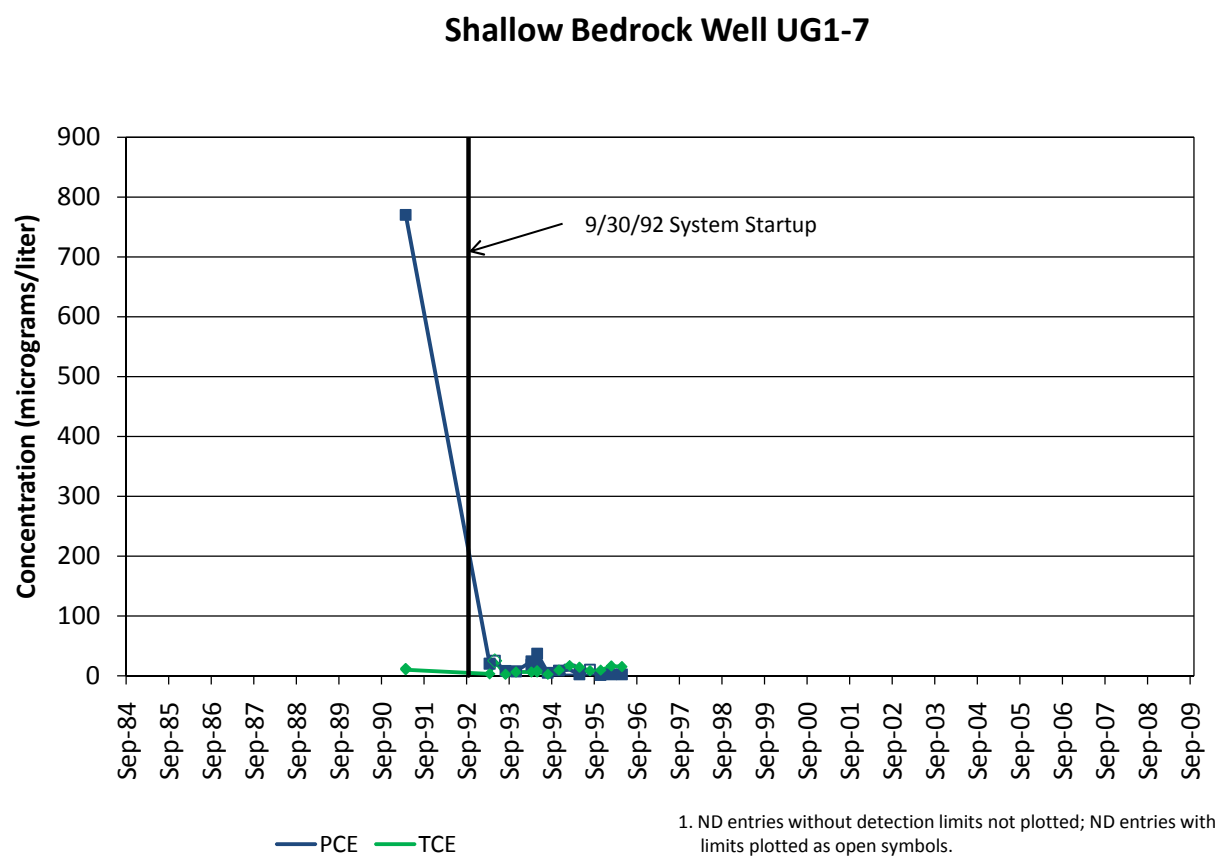

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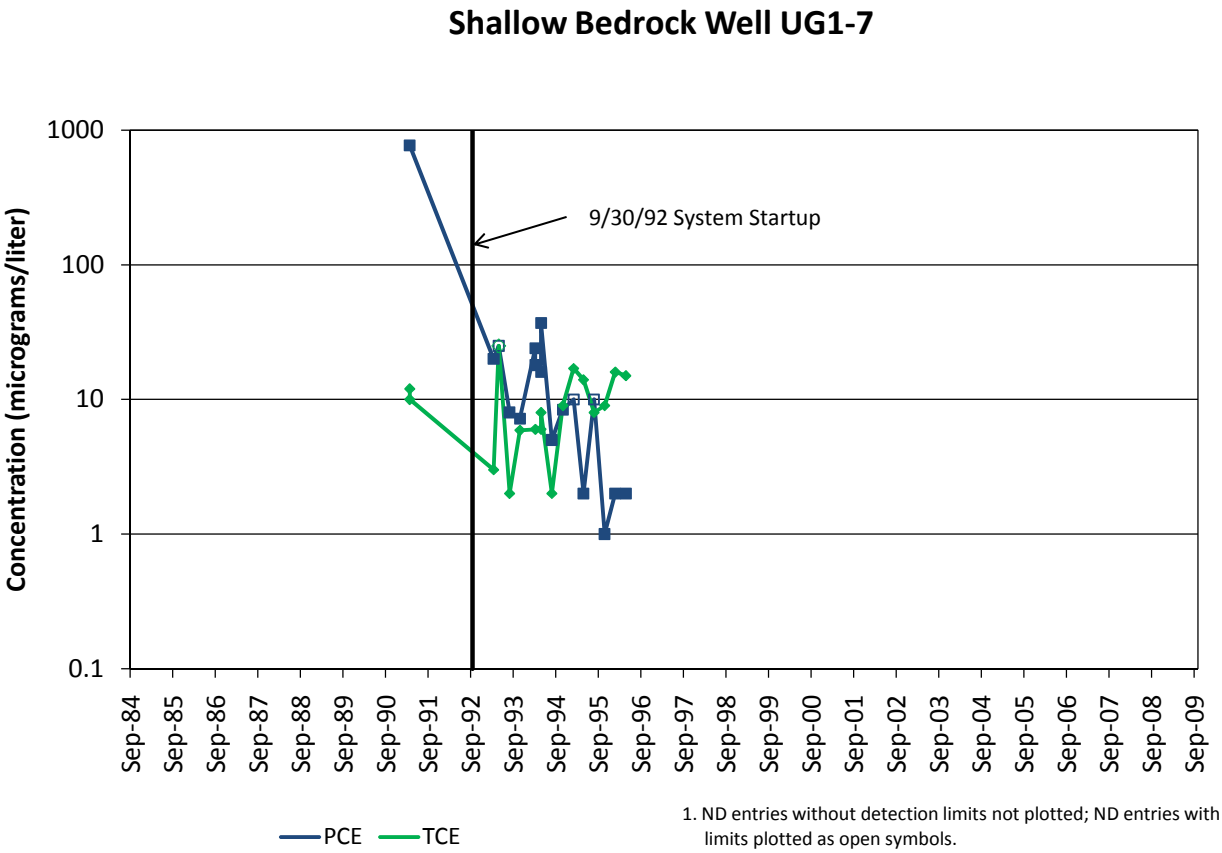

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