3001-0604060006

CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

CH2MHILL

ER/WM-122/05
April 4, 2005

Ms. Margaret L. Marks, Director
Miamisburg Closure Project
U. S. Department of Energy
1075 Mound Road
Miamisburg, OH 45342

ATTENTION: Paul Lucas

SUBJECT: Contract No. DE-AC24-03OH20152
Statement of Work Requirement 055 - Regulator Reports
PRS 414, PRS PACKAGE ADDENDUM 1, FINAL

Dear Ms. Marks:

Attached is the following Final document for your records:

- PRS 414, PRS Package Addendum 1, Final

If you or members of your staff have any questions regarding the document, or if additional support is needed, please contact me at 937-865-4203.

Sincerely,

David A. Rakel
CERCLA Lead

DAR/ms

Enclosures

cc: Tim Fischer, USEPA, (1) w/attachments
Brian Nickel, OEPA, (1) w/attachments
Ruth Vandegrift, ODH, (1) w/attachments
Mary Wojciechowski, Tetra Tech, (1) w/attach
Sue Smiley, DOE/MCP, (1) w/attachments
Lisa Rawls, MCP, w/o attachments
Randy Tormey, DOE/OH, (1) w/attachments
Git Desai, DOE/HQ, (1) w/attachments
Mark Gilliat, CH2M Hill, (1) w/attachs
Karen Arthur, CH2M Hill, (1) w/attachs
Frank Bullock, MMCIC (3) w/attachments
Public Reading Room (4) w/attachments
ER Records, CH2M Hill, (1) w/attachs
DCC (1) w/attachments
Admin Record (2) w/attachments
John Lehew, CH2M Hill, w/o attachments
Dave Rakel, CH2M Hill, w/o attachments
Val Darnell, CH2M Hill, w/o attachments
Jim Fontaine, CH2M Hill, w/o attachments
MOAT Coordinator
file

Environmental
Restoration
Program

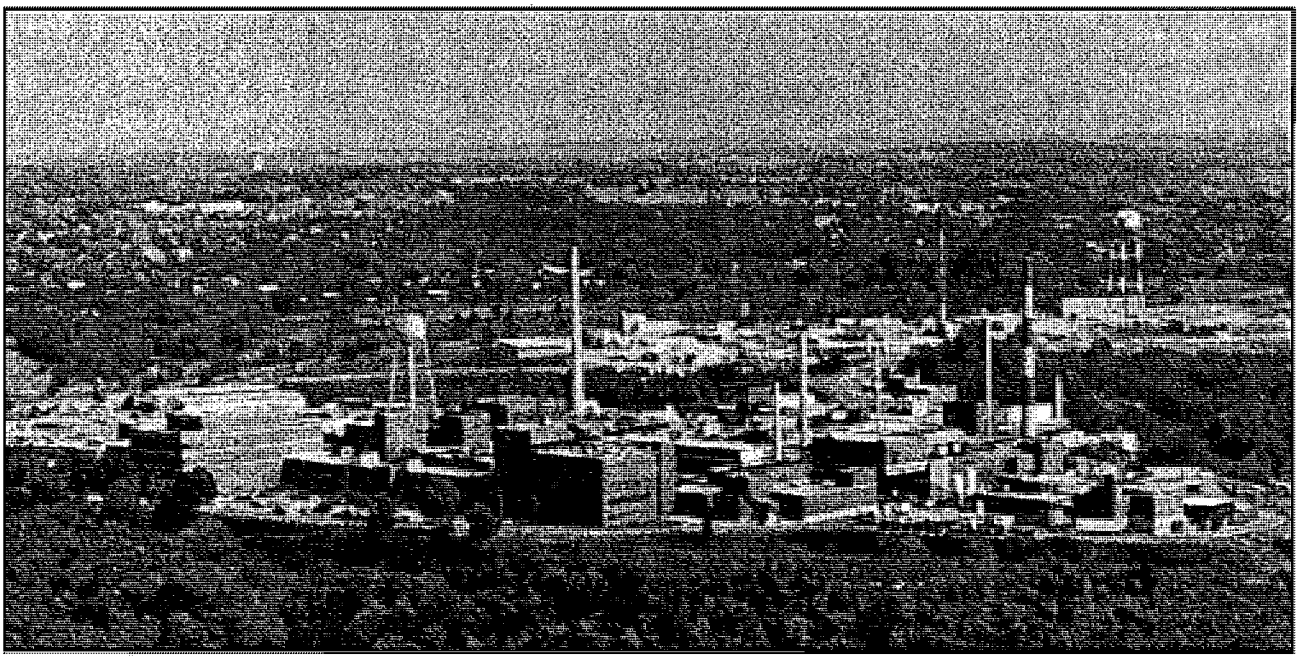
Miamisburg Closure Project

Potential Release Site Package

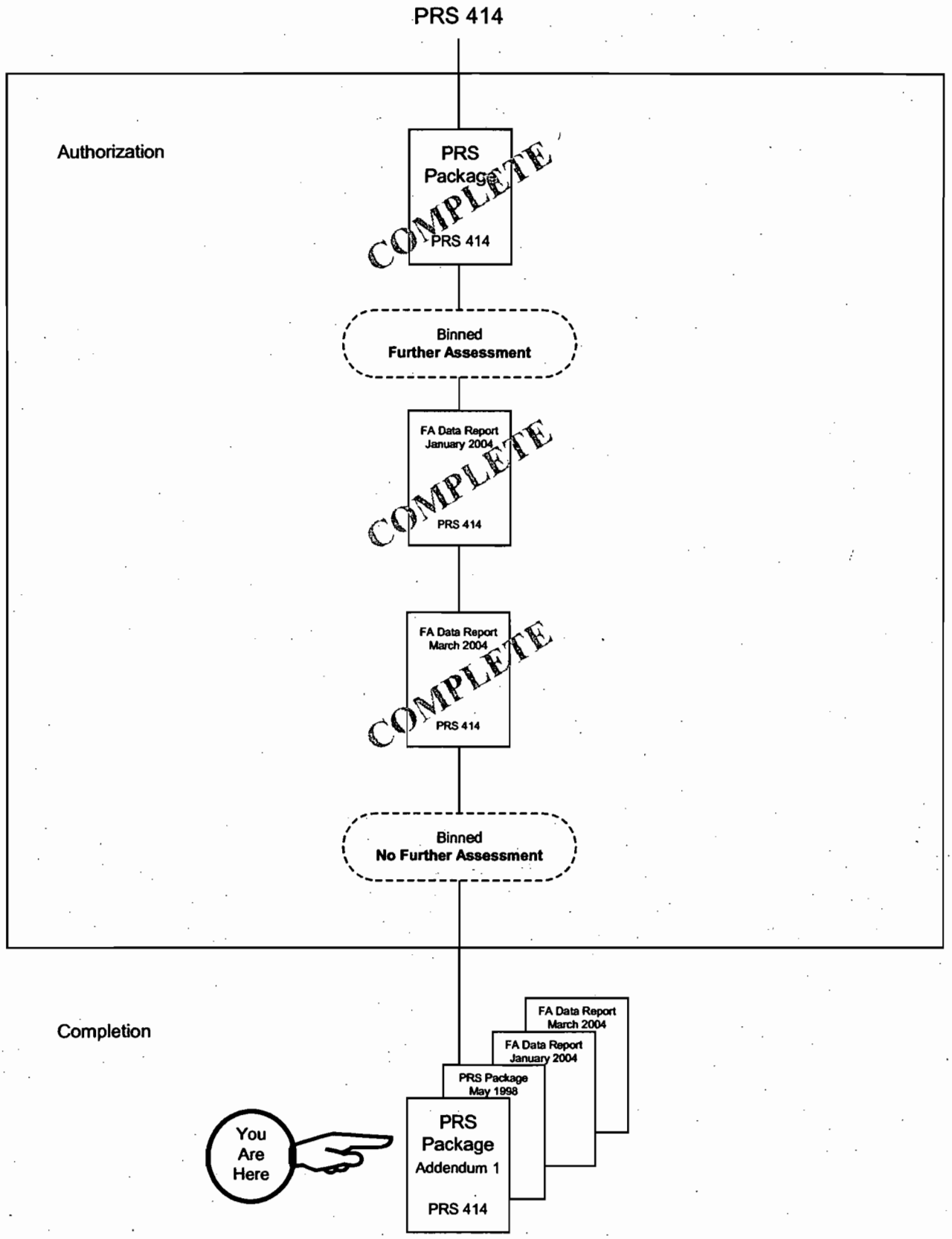
PRS 414

Addendum 1

Final
April 2005



PRS 414



2Dec04vkd

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The Mound Core Team
500 Capstone Circle
Miamisburg, OH 45342

January 2005

Mr. Frank Bullock, PE
Director of Operations
Miamisburg Mound Community Improvement Corporation
720 Mound Road
COS Bldg. 4221
Miamisburg, Ohio 45342-6714

Dear Mr. Bullock:

The Core Team, consisting of the U.S. Department of Energy Miamisburg Closure Project (DOE-MCP), U.S. Environmental Protection Agency (USEPA), and the Ohio Environmental Protection Agency (OEPA), appreciates your comments on the PRS 414 PRS Package Addendum 1, Public Review Draft, December 2004. Attached is our response.

Should the responses to comments require additional detail, please contact Paul Lucas at (937) 847-8350, x314 and we will gladly arrange a meeting or telephone conference.

Sincerely,

DOE/MCP:	Paul Lucas	2/23/05
	Paul Lucas, Remedial Project Manager	date
USEPA:	Timothy J. Fischer	3/1/05
	Timothy J. Fischer, Remedial Project Manager	date
OEPA:	Brian K. Nickel	2/23/05
	Brian K. Nickel, Project Manager	date

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Response to MMCIC/ EHS Technology Group, LLC Comments on the PRS 414 PRS Package Addendum 1
Public Review Draft
December 2004

Comment 1.

Reference Document: PRS 414 Addendum 1 Data Package, Public Review Draft, December 2004

Purpose: The purpose of this document is to notify the public of the status (incorporated as part of the OU-1 remedy) of the Potential Release Site (PRS) 414.

Assessment of Review: EHS has had the opportunity to review and comment on this PRS Data Package. We concur that based on the data provided the contamination remaining in the groundwater beneath the PRS 414 area is a result of the OU-1 groundwater plume. However, incorporation of the PRS 414 area into the established OU-1 remedy represents a change in the scope of the existing OU-1 remedy, thus requiring compliance with the post-ROD change requirements of the National Contingency Plan (NCP), 40 C. F. R. § 400.425. EHS submits that this change, combined with other changes in the OU-1 remedy (e.g., PRS 11 removal) constitutes a fundamental change to the original remedy, thus necessitating amendment of the ROD.

Technical Analysis: PRS 414 was described in the original PRS data package, prepared in 1988, as an area of elevated volatile organic compound (VOC) groundwater contamination. The PRS is located immediately south of the OU-1 (Operable Unit 1) site. The east, south and west boundaries were defined by drawing a line through the monitoring wells where the VOCs have been detected. Original data showed nine monitoring wells and piezometers within the PRS 414 boundary as having VOC concentrations exceeding the MCLs (Maximum Contaminant Levels).

There are not activities which were known to have occurred directly above the aquifer at this location that would have caused VOC contamination of the groundwater. However, PRS 414 is hydraulically downgradient from the OU-1 area. VOCs were previously disposed of within OU-1, and VOC contamination in ground water under and emanating from OU-1 is currently being remediated pursuant to the ROD.

The Core Team binned PRS 414 as further assessment in May, 1998. Groundwater sampling activities have occurred from 1998 through 2004. Sampling has occurred during the active groundwater remediation of OU-1 (the pump and treat system operated from January 1997 through May 2003) and during the OU-1 rebound test (initiated in May 2003 involving shut down of the pump and treat system). The four sets of the groundwater monitoring data found in this report represent distinct periods in the remediation of the OU-1 plume. Originally, VOC contamination was found migrating southward from the OU-1 area. The pump and treat system was installed, which also pulled clean groundwater from the aquifer to the west. The effect of the pump and treat system, along with potential dilution from the clean groundwater, is shown by the reduction of VOC contaminants. Sampling results during the OU-1 rebound test did

show some of the levels of VOC contamination in certain wells to rise and the treatment system was restarted. No detectable levels of VOCs have been found in the bedrock wells located to the east of the PRS 414 boundary. Although previously narrow bands of elevated levels of VOCs were discovered in the groundwater on the southern side of the site, there is no evidence of any such contamination based on the current well locations and sampling data. Any such pockets of contamination would be minor and likely diluted to below MCLs prior to reaching the PRS 414 area.

Substantive Comments: EHS concurs that there is adequate technical basis to support the incorporation of study of the ground water contamination of the PRS 414 area with the monitoring and remediation activities occurring in the OU-1 area to the north. It is likely that the source of the contamination originates in the OU-1 area and it would appear to be efficient to monitor this groundwater contamination as one distinct plume. However, NCP compliance dictates that incorporation of PRS 414 into the OU-1 remedy be preceded by a ROD amendment sitting forth a complete analysis of remedial alternatives in light of this and other post-ROD changes to the OU-1 remedy.

Response 1.

The Core Team disagrees that the NCP requires a ROD Amendment for addressing PRS 414 as part of the OU1 remedy. The purpose of the ROD for OU1 was to select the remedy for, among other things, addressing VOCs in groundwater in the OU1 area. Since addressing PRS 414 as part of OU1 will not result in a change to the OU1 remedy, a ROD Amendment is not necessary.

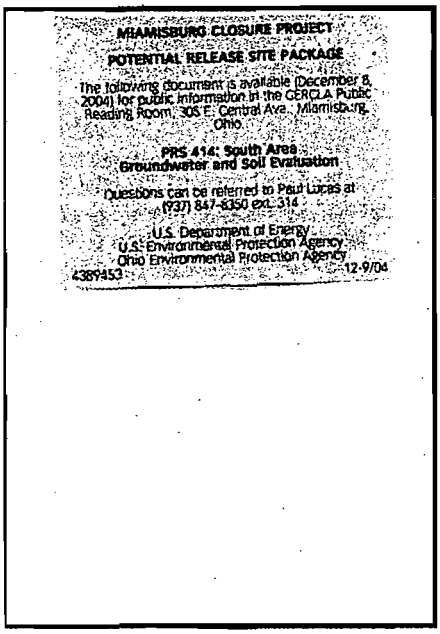
The Core Team is evaluating OU1 in light of the information developed in the Technical Working Group and recent sampling/investigations in the area. The results of this evaluation will be available in a Technical Memo we expect to release at the end of March. It is anticipated that the resulting recommendation will result in some level of post-ROD change.

AFFIDAVIT OF PUBLICATION

State of Ohio

SS: CH2MHILL Mound

Montgomery County



MIAMISBURG CLOSURE PROJECT
POTENTIAL RELEASE SITE PACKAGE

The following document is available (December 8, 2004) for public information in the CERCLA Public Reading Room, 305 E. Central Ave., Miamisburg, Ohio.

PRS 414: South Area
Groundwater and Soil Evaluation

Questions can be referred to Paul Lucas at (937) 847-8350 ext. 314

U.S. Department of Energy
U.S. Environmental Protection Agency
Ohio Environmental Protection Agency
4389453 12-9/04

Before me, the undersigned, a Notary public in and for said County, personally came Tina Sears, who being first duly sworn says she is the Legal Advertising Agent of the DAYTON DAILY NEWS, which she says is a newspaper of general circulation in Montgomery, Clark, Warren, Butler, Clinton, Greene, Preble, Miami, Darke, Mercer, Shelby, Fayette, Logan, Auglaize, and Champaign Counties, and State of Ohio, and she furthur says that the Legal Advertisement, a copy of which is hereunto attatched, has been published in the said DAYTON DAILY NEWS

19 Lines, **1** Time(s), last day of publication

being **12/9/04**, and he/she furthur says

that the bona fide daily paid circulation of the said DAYTON DAILY NEWS was over Twenty-five Thousand (25,000) at the time the said advertisement was published, and that the price charged for same does not exceed the rates charged on annual contract for the like amount of space to other advertisers in the general display advertising columns.

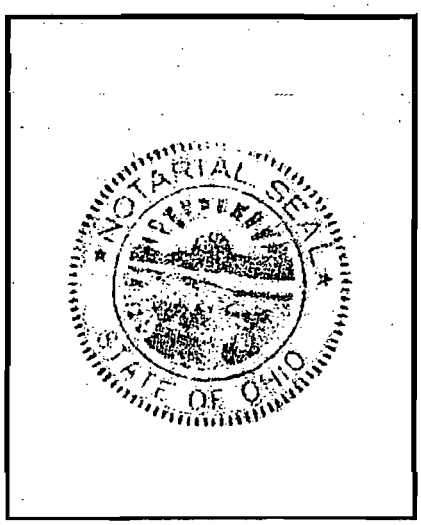
Signed Tina Sears

Sworn or affirmed to, and subscribed before me, this

9 day of **December** 2004

In Testimony Whereof, I have hereunto set my hand and affixed my official seal, the day and year aforesaid.

Notary Public in and for the State of Ohio



Final

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Section **Page**

Core Team Recommendation
PRS HISTORY 1
FURTHER ASSESSMENT ACTIVITY 1
VOC CONCENTRATION HISTORY 1
REFERENCES 2
PREPARED BY 2

Attachments

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B Tables
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C VOC Concentration Contour Plots in the OU-1 Groundwater System
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December 1997 VOC Concentration Contour Plots (PCE, TCE, and DC)
February 2003 VOC Concentration Contour Plots (PCE, TCE, and DC)
January 2004 VOC Concentration Contour Plots (PCE, TCE, and DC)

D PRS 414 PRS Package, May 1998

E PRS 414 Further Assessment Data Report, January 2004, Rev. 0

F PRS 414 Further Assessment Data Report, March 2004, Rev 1

G OU-1 VOC Data Collected Subsequent to January 2004

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MIAMISBURG CLOSURE PROJECT
PRS 414

RECOMMENDATION:

Potential Release Site (PRS) 414 is located on the south western portion of the site. PRS 414 was identified as a potential release site as a result of localized low level concentrations of VOCs in groundwater. The Core Team binned PRS 414 further assessment in May, 1998. Groundwater sampling activities occurred from 1998 through 2004. Sampling occurred during both active groundwater remediation (the pump and treat system operated continuously from Jan 1997 through May 2003) and during the OU-1 rebound test (initiated May 2003 involving shut down of the pump and treat system). Upon review of historical sampling data and rebound test data for OU1 and adjacent areas, the Core Team has concluded that PRS 414 represents the southern extent of the low level volatile organic compound (VOC) groundwater plume extending out from Operable Unit 1 (OU-1).

Therefore, the Core Team recommends that PRS 414 not be treated as a separate, independent Potential Release Site, but a manifestation of the OU-1 groundwater plume. Any continued monitoring or remediation will be addressed as part of the remedy for OU-1.

This PRS Package signed by the Core Team will be placed in the Public Reading Room for a 30-day review period. Upon closure of the public review comments, if any, the PRS Package will be issued as a final document and made available in the Public Reading Room.

CONCURRENCE:

DOE/MCP: Paul Lucas 12/2/04
Paul Lucas, Remedial Project Manager (date)

USEPA: Timothy J. Fischer 12/1/04
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: B. K. Nickel 12/2/04
Brian K. Nickel, Project Manager (date)

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PRS HISTORY

Potential Release Site (PRS) 414 is located on the south-western portion of the site. The PRS represents the southern extent of the low level volatile organic compound (VOC) groundwater plume extending out from Operable Unit 1 (OU-1). PRS 414 has been identified as a potential release site as a result of localized low level concentrations of VOC in groundwater. The Core Team binned PRS 414 further assessment in May, 1998 (Attachment D).

FURTHER ASSESSMENT ACTIVITY

Groundwater sampling activities occurred from 1998 through 2004. Sampling occurred during both active groundwater remediation (pump and treat system on continuously from Jan 1997 through May 2003) and during the OU-1 rebound test (initiated May 2003 involving shut down of pump and treat system). Characterization of PRS 282 (spoils area) also provides information regarding the nature of the soils above PRS 414. PRS 282 was binned No Further Assessment (NFA) by the Core Team on December 11, 2002. Several bedrock wells located hydraulically upgradient (bedrock hydraulic gradient) of OU-1 have been sampled for VOCs with no detections to date. Figure 1 (Attachment A) shows the location of the wells relative to PRS 414, and Table 1 (Attachment B) shows the VOC analytical results from those wells.

The results of this further assessment characterization are documented in Attachments E, F, and G (respectively: PRS 414 Further Assessment Data Report, January 2004, Rev 0, PRS 414 Further Assessment Data Report, March 2004, Rev 1, and OU-1 VOC Data Collected Subsequent to January 2004.

VOC CONCENTRATION HISTORY

VOC concentration contour plots have been constructed to illustrate the history of VOC concentrations for those VOCs of interest within the OU-1 and PRS 414 area (Attachment C). The concentration contour plots represent four discreet time slices for trichloroethylene (TCE), tetrachloroethene (PCE), cis 1,2 Dichloroethene (DCE), and vinyl chloride (VC) within the groundwater system at OU-1 / PRS 414, (hereafter referred to as the OU-1 groundwater system). The plots represent VOC concentrations in the OU-1 groundwater system at the following times: 1) January 1997 prior to initiation of active groundwater remediation; 2) December 1997 after approximately 10 months of active remediation with the OU-1 pump and treat system; 3) February 2003 after more than 5 years of active soil and groundwater remediation with both the pump and treat system and the OU-1 soil vapor extraction (SVE) system and just prior to initiation of the OU-1 rebound test; and 4) January 2004 after 8 months of remedial system shutdown during the OU-1 rebound test.

The maps clearly show various stages of the VOC contaminant plume in the OU-1 groundwater system. The January 1997 plots show the plume extending outward in a southerly direction (hydraulically downgradient) from the OU-1 source area into the area

overlain by present day PRS 414. The plume has not been under the influence of any remedial system at this stage and is simply responding to the ambient hydraulic gradient in the OU-1 area. The December 1997 plots show the plume after having been under the influence of the pump and treat system for approximately 10 months, (the pump and treat system was started on February 18, 1997). The plume is beginning to decrease in concentration and aerial extent. The February 2003 plots show the plume after having been under the influence of both the soil vapor extraction system (operation started December 1997) and the pump and treat system. The plume has been reduced significantly and is almost entirely restricted to the OU-1 source area. The January 2004 plots show the plume approximately 8 months into the OU-1 rebound test (test initiated in May 2003). The plume does show minor redevelopment in the area immediately adjacent to the compliance boundary (VOC concentrations, primarily TCE, show minor increases). Rebound is likely the result of diffusion of VOCs (from the OU-1 source area) from interbedded low hydraulic conductivity silts and clays within the higher conductivity glacial outwash sand and gravels.

Figures 2 and 3 (Attachment A) are provided to clarify the groundwater flow conditions both under the influence of the pump and treat system and without the pump and treat system. Figure 4 provides the locations of the wells in the vicinity of PRS 414.

Note: Vinyl chloride has not been detected in the OU-1 groundwater system above the detection limit of 1 ppb since 1998.

REFERENCES

1) PRS 414 Potential Release Site Package, April, 1998
2) PRS 414 Further Assessment Data Report, Rev. 1, March 2004

PREPARED BY

Mark Gilliat, CH2MHill, ER/WM Technical Staff

Attachment A

Figures

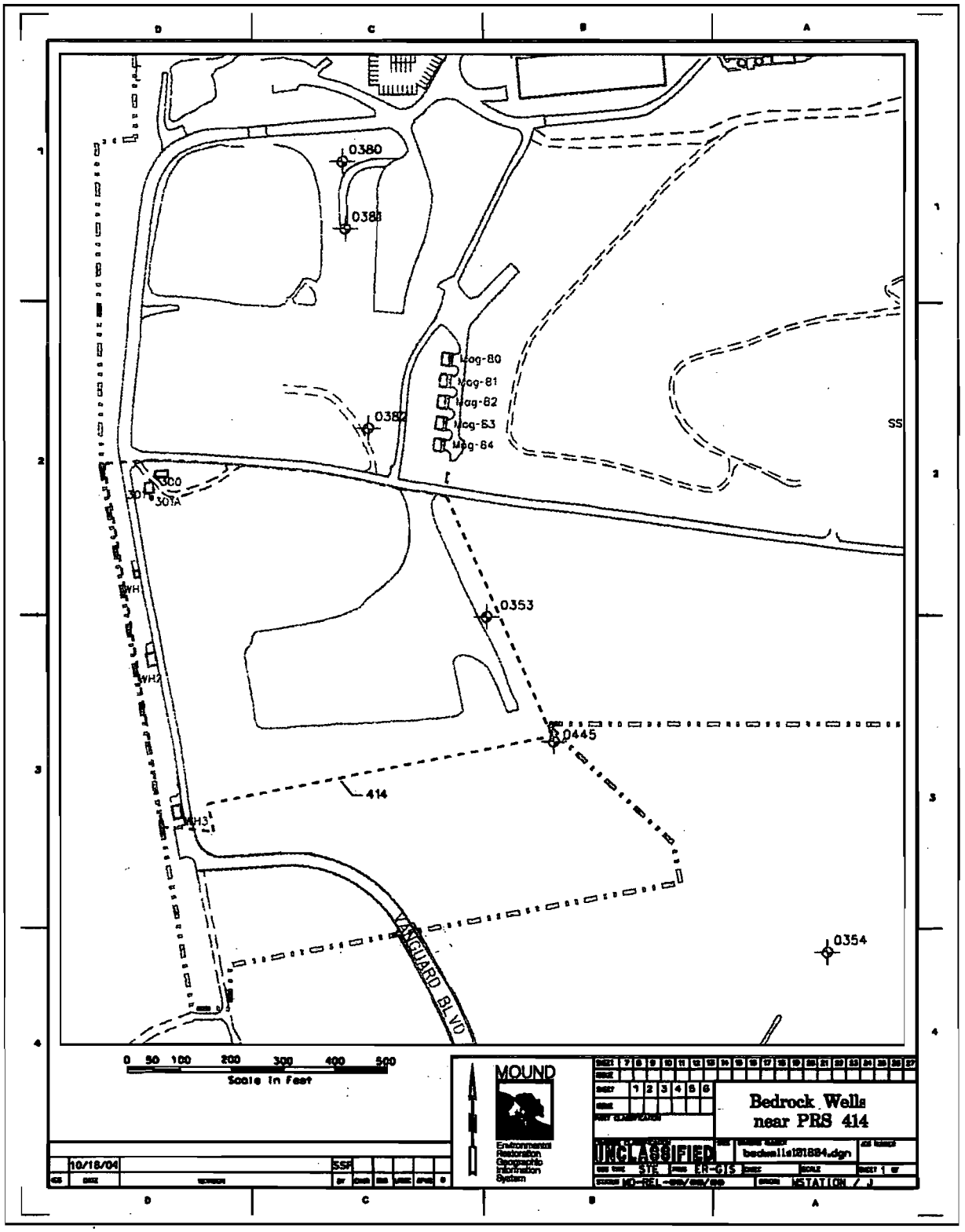

Figure 1 Bedrock Wells Near PRS 414

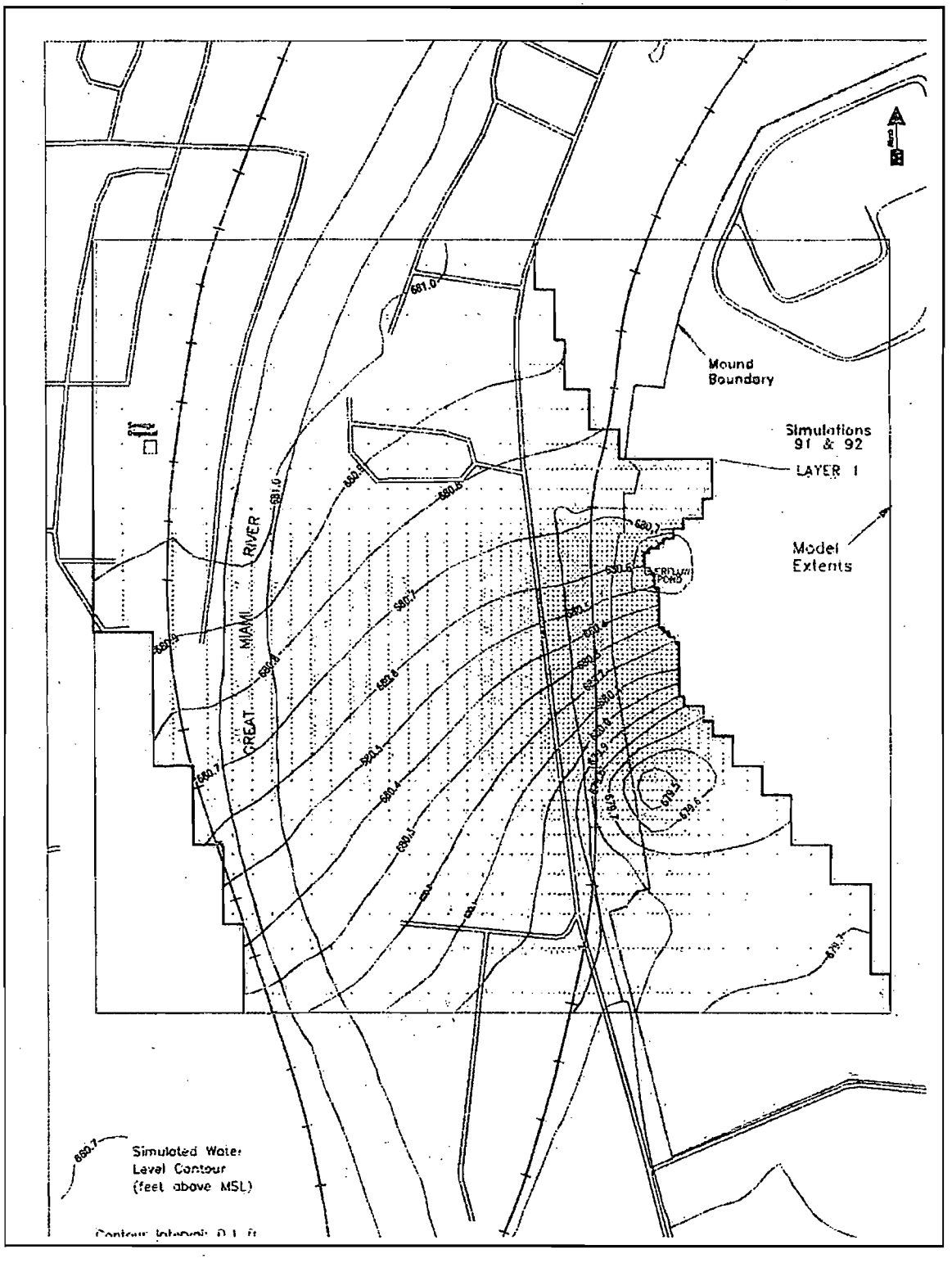

Figure 2 Groundwater Flowfield with OU-1 Remediation Pump and Treat System Off and Production Well 3 On

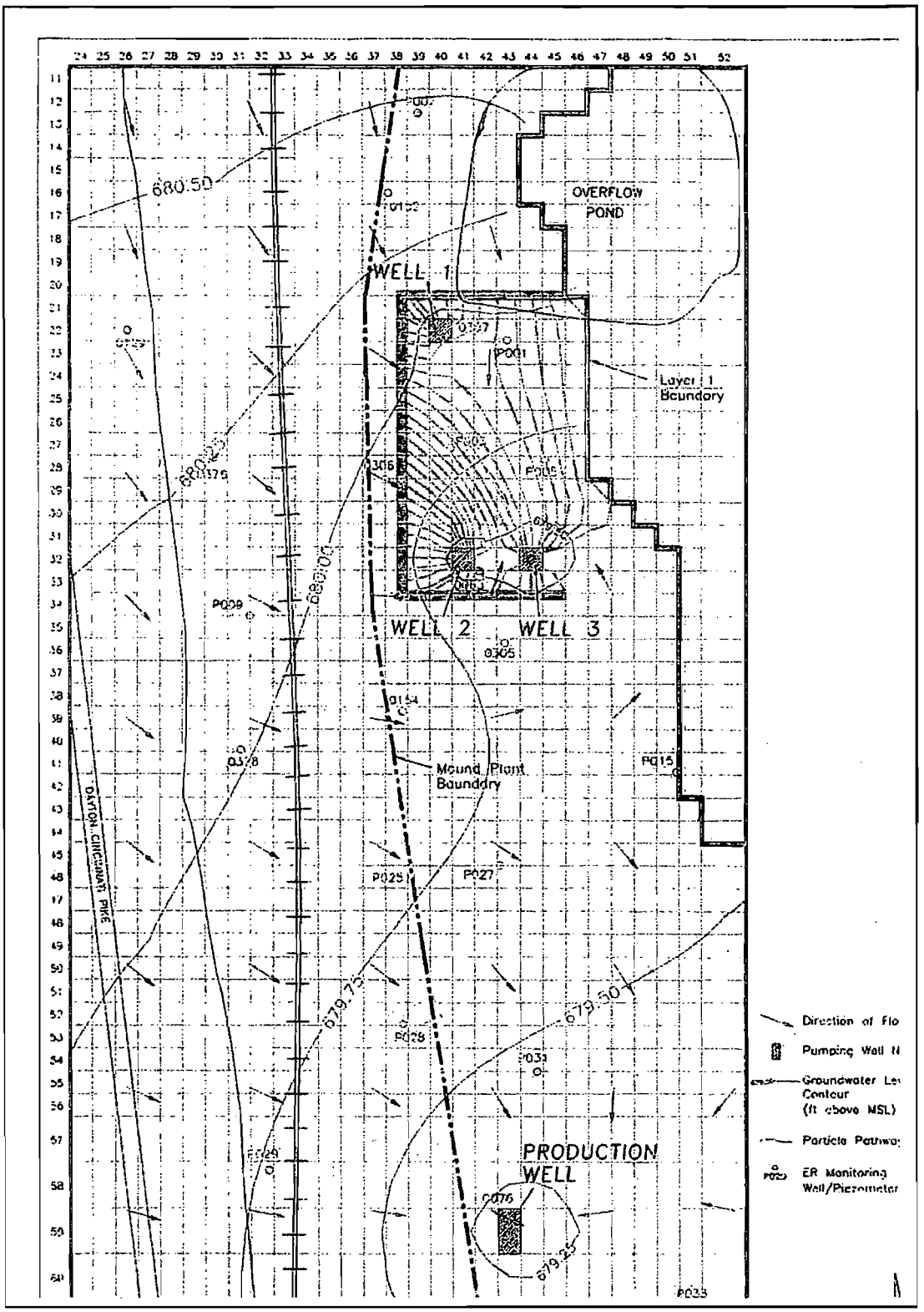

Figure 3 Groundwater Flowfield with OU-1 Remediation Pump and Treat System On and Production Well 3 On

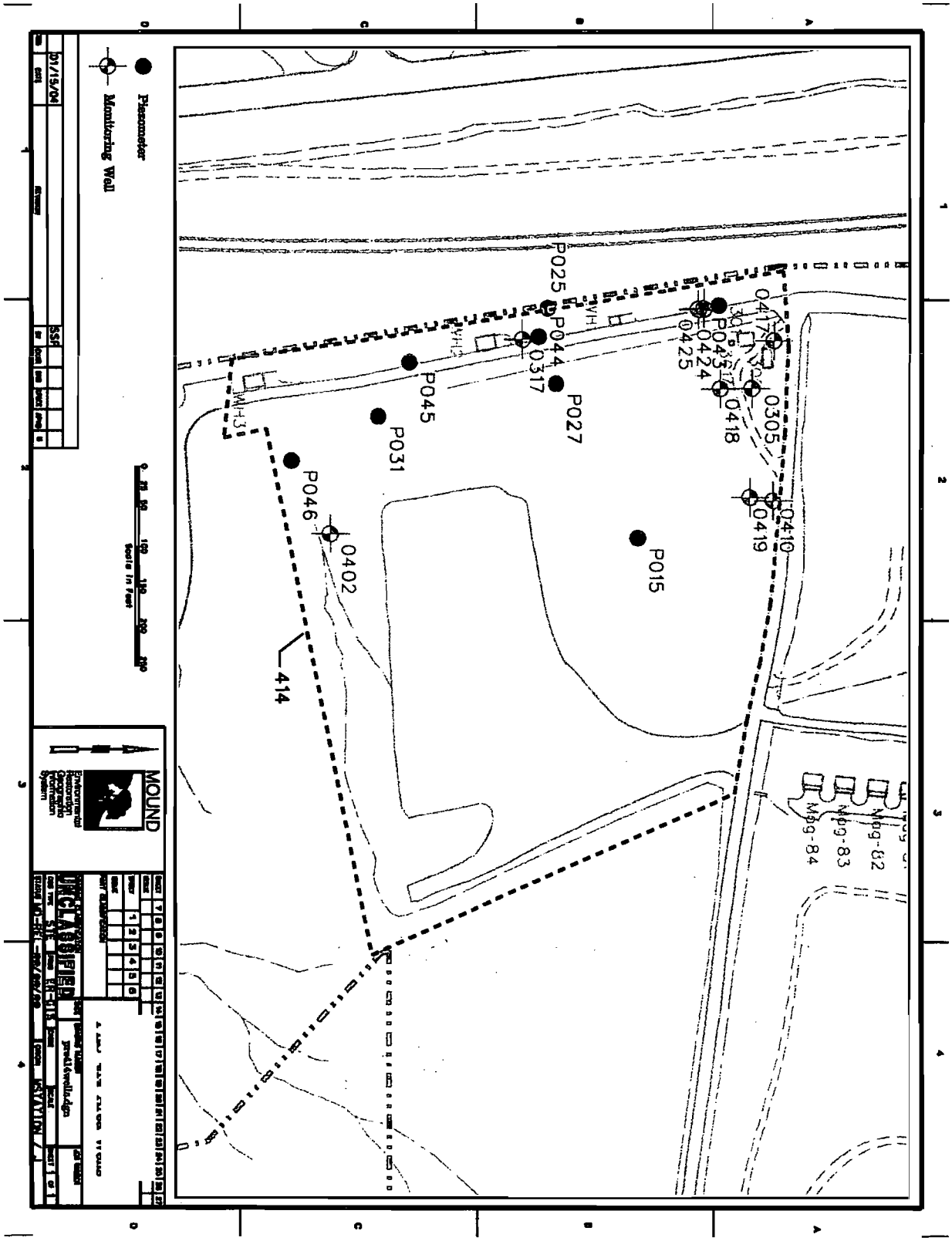

Figure 4 PRS 414 Area Wells

Attachment B

Tables

Table 1 VOC Bedrock Results

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
353	19930916	1,2-cis-Dichloroethene	1	UG/L	U	U	1
353	19930916	1,2-cis-Dichloroethene	1	UG/L	U	U	1
353	19940412	1,2-cis-Dichloroethene	1	UG/L	U	U	1
353	19961212	1,2-cis-Dichloroethene	1	UG/L	U		1
353	19970620	1,2-cis-Dichloroethene	1	UG/L	U		1
353	19971212	1,2-cis-Dichloroethene	1	UG/L	U		1
353	19980623	1,2-cis-Dichloroethene	1	UG/L	U		1
353	19990119	1,2-cis-Dichloroethene	1	UG/L	U		1
353	19990621	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20000131	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20000623	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20010208	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20010727	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20020131	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20020726	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20030129	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20030424	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20030724	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20031021	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20040121	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20040421	1,2-cis-Dichloroethene	1	UG/L	U		1
353	20040713	1,2-cis-Dichloroethene	1	UG/L	U		1
353	19930916	Tetrachloroethene	0.3	UG/L	U	U	0.3
353	19930916	Tetrachloroethene	0.3	UG/L	U	U	0.3
353	19940412	Tetrachloroethene	0.3	UG/L	U	U	0.3
353	19961212	Tetrachloroethene	0.3	UG/L	U		0.3

81/10

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
353	19970620	Tetrachloroethene	0.3	UG/L	U		0.3
353	19971212	Tetrachloroethene	0.3	UG/L	U		0.3
353	19980623	Tetrachloroethene	0.3	UG/L	U		0.3
353	19990119	Tetrachloroethene	0.3	UG/L	U		0.3
353	19990621	Tetrachloroethene	0.3	UG/L	U		0.3
353	20000131	Tetrachloroethene	0.3	UG/L	U		0.3
353	20000623	Tetrachloroethene	0.3	UG/L	U		0.3
353	20010208	Tetrachloroethene	0.3	UG/L	U		0.3
353	20010727	Tetrachloroethene	0.3	UG/L	U		0.3
353	20020131	Tetrachloroethene	0.3	UG/L	U		0.3
353	20020726	Tetrachloroethene	0.3	UG/L	U		0.3
353	20030129	Tetrachloroethene	0.3	UG/L	U		0.3
353	20030424	Tetrachloroethene	0.3	UG/L	U		0.3
353	20030724	Tetrachloroethene	0.48	UG/L			0.3
353	20031021	Tetrachloroethene	0.3	UG/L	U		0.3
353	20040121	Tetrachloroethene	0.3	UG/L	U		0.3
353	20040421	Tetrachloroethene	0.3	UG/L	U		0.3
353	20040713	Tetrachloroethene	0.3	UG/L	U		0.3
353	19930916	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
353	19930916	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
353	19940412	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
353	19961212	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	19970620	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	19971212	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	19980623	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	19990119	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	19990621	Trichloroethylene (TCE)	1.2	UG/L	U		1.2

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
353	20000131	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20000623	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20010208	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20010727	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20020131	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20020726	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20030129	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20030424	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20030724	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20031021	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20040121	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20040421	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	20040713	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
353	19930916	Vinyl Chloride	1	UG/L	U	UJ	1
353	19930916	Vinyl Chloride	1	UG/L	U	UJ	1
353	19940412	Vinyl Chloride	1	UG/L	U	UJ	1
353	19961212	Vinyl Chloride	1	UG/L	U		1
353	19970620	Vinyl Chloride	1	UG/L	U		1
353	19971212	Vinyl Chloride	1	UG/L	U		1
353	19980623	Vinyl Chloride	1	UG/L	U		1
353	19990119	Vinyl Chloride	1	UG/L	U		1
353	19990621	Vinyl Chloride	1	UG/L	U		1
353	20000131	Vinyl Chloride	1	UG/L	U		1
353	20000623	Vinyl Chloride	1	UG/L	U		1
353	20010208	Vinyl Chloride	1	UG/L	U		1
353	20010727	Vinyl Chloride	1	UG/L	U		1
353	20020131	Vinyl Chloride	1	UG/L	U		1
353	20020726	Vinyl Chloride	1	UG/L	U		1

B3/10

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
353	20030129	Vinyl Chloride	1	UG/L	U		1
353	20030424	Vinyl Chloride	1	UG/L	U		1
353	20030724	Vinyl Chloride	1	UG/L	U		1
353	20031021	Vinyl Chloride	1	UG/L	U		1
353	20040121	Vinyl Chloride	1	UG/L	U		1
353	20040421	Vinyl Chloride	1	UG/L	U		1
353	20040713	Vinyl Chloride	1	UG/L	U		1
354	19931011	1,2-cis-Dichloroethene	1	UG/L	U	UJ	1
354	19940323	1,2-cis-Dichloroethene	1	UG/L	U	U	1
354	20000201	1,2-cis-Dichloroethene	1	UG/L	U		1
354	19931011	Tetrachloroethene	0.3	UG/L	U	UJ	0.3
354	19940323	Tetrachloroethene	0.3	UG/L	U	U	0.3
354	20000201	Tetrachloroethene	0.3	UG/L	U		0.3
354	19931011	Trichloroethylene (TCE)	1.2	UG/L	U	UJ	1.2
354	19940323	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
354	20000201	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
354	19931011	Vinyl Chloride	1	UG/L	U	UJ	1
354	19940323	Vinyl Chloride	1	UG/L	U	UJ	1
354	20000201	Vinyl Chloride	1	UG/L	U		1
380	19930331	1,2-cis-Dichloroethene	1	UG/L	U	UJ	1
380	19930927	1,2-cis-Dichloroethene	1	UG/L	U	UJ	1

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
380	19940324	1,2-cis-Dichloroethene	1	UG/L	U	U	1
380	19930331	Tetrachloroethene	0.3	UG/L	U	UJ	0.3
380	19930927	Tetrachloroethene	0.3	UG/L	U	UJ	0.3
380	19940324	Tetrachloroethene	0.3	UG/L	U	U	0.3
380	19930331	Trichloroethylene (TCE)	1.2	UG/L	U	UJ	1.2
380	19930927	Trichloroethylene (TCE)	1.2	UG/L	U	UJ	1.2
380	19940324	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
380	19930331	Vinyl Chloride	1.8	UG/L	U	UJ	1.8
380	19930927	Vinyl Chloride	1	UG/L	U	UJ	1
380	19940324	Vinyl Chloride	1	UG/L	U	U	1
381	19930401	1,2-cis-Dichloroethene	1	UG/L	U	U	1
381	19930929	1,2-cis-Dichloroethene	1	UG/L	U	U	1
381	19940408	1,2-cis-Dichloroethene	1	UG/L	U	U	1
381	19930401	Tetrachloroethene	0.3	UG/L	U	U	0.3
381	19930929	Tetrachloroethene	0.3	UG/L	U	UJ	0.3
381	19940408	Tetrachloroethene	0.3	UG/L	U	U	0.3
381	19930401	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2

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Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
381	19930929	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
381	19940408	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
381	19930401	Vinyl Chloride	1.8	UG/L	U	U	1.8
381	19930929	Vinyl Chloride	1	UG/L	U	UJ	1
381	19940408	Vinyl Chloride	1	UG/L	U	UJ	1
382	19930401	1,2-cis-Dichloroethene	1	UG/L	U	UJ	1
382	19930926	1,2-cis-Dichloroethene	1	UG/L	U	UJ	1
382	19940317	1,2-cis-Dichloroethene	1	UG/L	U	U	1
382	19961212	1,2-cis-Dichloroethene	1	UG/L	U		1
382	19970115	1,2-cis-Dichloroethene	1	UG/L	U		1
382	19970626	1,2-cis-Dichloroethene	1	UG/L	U		1
382	19971216	1,2-cis-Dichloroethene	1	UG/L	U		1
382	19980624	1,2-cis-Dichloroethene	1	UG/L	U		1
382	19990107	1,2-cis-Dichloroethene	1	UG/L	U		1
382	19990621	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20000125	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20000623	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20010207	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20010727	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20020130	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20020725	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20030219	1,2-cis-Dichloroethene	1	UG/L	U		1
382	20030721	1,2-cis-Dichloroethene	1	UG/L	U		1

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Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
382	19930401	Tetrachloroethene	0.3	UG/L	U	UJ	0.3
382	19930926	Tetrachloroethene	0.3	UG/L	U	UJ	0.3
382	19940317	Tetrachloroethene	0.3	UG/L	U	U	0.3
382	19961212	Tetrachloroethene	0.3	UG/L	U		0.3
382	19970115	Tetrachloroethene	0.3	UG/L	U		0.3
382	19970626	Tetrachloroethene	0.3	UG/L	U		0.3
382	19971216	Tetrachloroethene	0.3	UG/L	U		0.3
382	19980624	Tetrachloroethene	0.3	UG/L	U		0.3
382	19990107	Tetrachloroethene	0.3	UG/L	U		0.3
382	19990621	Tetrachloroethene	0.3	UG/L	U		0.3
382	20000125	Tetrachloroethene	0.3	UG/L	U		0.3
382	20000623	Tetrachloroethene	0.3	UG/L	U		0.3
382	20010207	Tetrachloroethene	0.3	UG/L	U		0.3
382	20010727	Tetrachloroethene	0.3	UG/L	U		0.3
382	20020130	Tetrachloroethene	0.3	UG/L	U		0.3
382	20020725	Tetrachloroethene	0.3	UG/L	U		0.3
382	20030219	Tetrachloroethene	0.3	UG/L	U		0.3
382	20030721	Tetrachloroethene	0.3	UG/L	U		0.3
382	19930401	Trichloroethylene (TCE)	1.2	UG/L	U	UJ	1.2
382	19930926	Trichloroethylene (TCE)	1.2	UG/L	U	UJ	1.2
382	19940317	Trichloroethylene (TCE)	1.2	UG/L	U	U	1.2
382	19961212	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19970115	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19970626	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19971216	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19980624	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19990107	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19990621	Trichloroethylene (TCE)	1.2	UG/L	U		1.2

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
382	20000125	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20000623	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20010207	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20010727	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20020130	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20020725	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20030219	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	20030721	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
382	19921215	Vinyl Chloride	11	UG/KG	U	U	11
382	19921215	Vinyl Chloride	11	UG/KG	U	U	11
382	19921215	Vinyl Chloride	11	UG/KG	U	U	11
382	19921216	Vinyl Chloride	11	UG/KG	U	U	11
382	19921216	Vinyl Chloride	11	UG/KG	U	U	11
382	19930401	Vinyl Chloride	1.8	UG/L	U	UJ	1.8
382	19930926	Vinyl Chloride	1	UG/L	U	UJ	1
382	19940317	Vinyl Chloride	1	UG/L	U	UJ	1
382	19961212	Vinyl Chloride	1	UG/L	U		1
382	19970115	Vinyl Chloride	1	UG/L	U		1
382	19970626	Vinyl Chloride	1	UG/L	U		1
382	19971216	Vinyl Chloride	1	UG/L	U		1
382	19980624	Vinyl Chloride	1	UG/L	U		1
382	19990107	Vinyl Chloride	1	UG/L	U		1
382	19990621	Vinyl Chloride	1	UG/L	U		1
382	20000125	Vinyl Chloride	1	UG/L	U		1
382	20000623	Vinyl Chloride	1	UG/L	U		1
382	20010207	Vinyl Chloride	1	UG/L	U		1
382	20010727	Vinyl Chloride	1	UG/L	U		1

Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
382	20020130	Vinyl Chloride	1	UG/L	U		1
382	20020725	Vinyl Chloride	1	UG/L	U		1
382	20030219	Vinyl Chloride	1	UG/L	U		1
382	20030721	Vinyl Chloride	1	UG/L	U		1
445	20020507	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20020719	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20021108	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20030130	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20030428	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20031021	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20040122	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20040423	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20040715	1,2-cis-Dichloroethene	1	UG/L	U		1
445	20020507	Tetrachloroethene	0.3	UG/L	U		0.3
445	20020719	Tetrachloroethene	0.3	UG/L	U		0.3
445	20021108	Tetrachloroethene	0.3	UG/L	U		0.3
445	20030130	Tetrachloroethene	0.3	UG/L	U		0.3
445	20030428	Tetrachloroethene	0.3	UG/L	U		0.3
445	20031021	Tetrachloroethene	0.3	UG/L	U		0.3
445	20040122	Tetrachloroethene	0.3	UG/L	U		0.3
445	20040423	Tetrachloroethene	0.3	UG/L	U		0.3
445	20040715	Tetrachloroethene	0.3	UG/L	U		0.3

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Well_name	Collection_date	Value_name	Measured_value	Value_units	Lab_qualifier	Data_qualifier	Detection_limit
445	20020507	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20020719	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20021108	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20030130	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20030428	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20031021	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20040122	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20040423	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20040715	Trichloroethylene (TCE)	1.2	UG/L	U		1.2
445	20020507	Vinyl Chloride	1	UG/L	U		1
445	20020719	Vinyl Chloride	1	UG/L	U		1
445	20021108	Vinyl Chloride	1	UG/L	U		1
445	20030130	Vinyl Chloride	1	UG/L	U		1
445	20030428	Vinyl Chloride	1	UG/L	U		1
445	20031021	Vinyl Chloride	1	UG/L	U		1
445	20040122	Vinyl Chloride	1	UG/L	U		1
445	20040423	Vinyl Chloride	1	UG/L	U		1
445	20040715	Vinyl Chloride	1	UG/L	U		1

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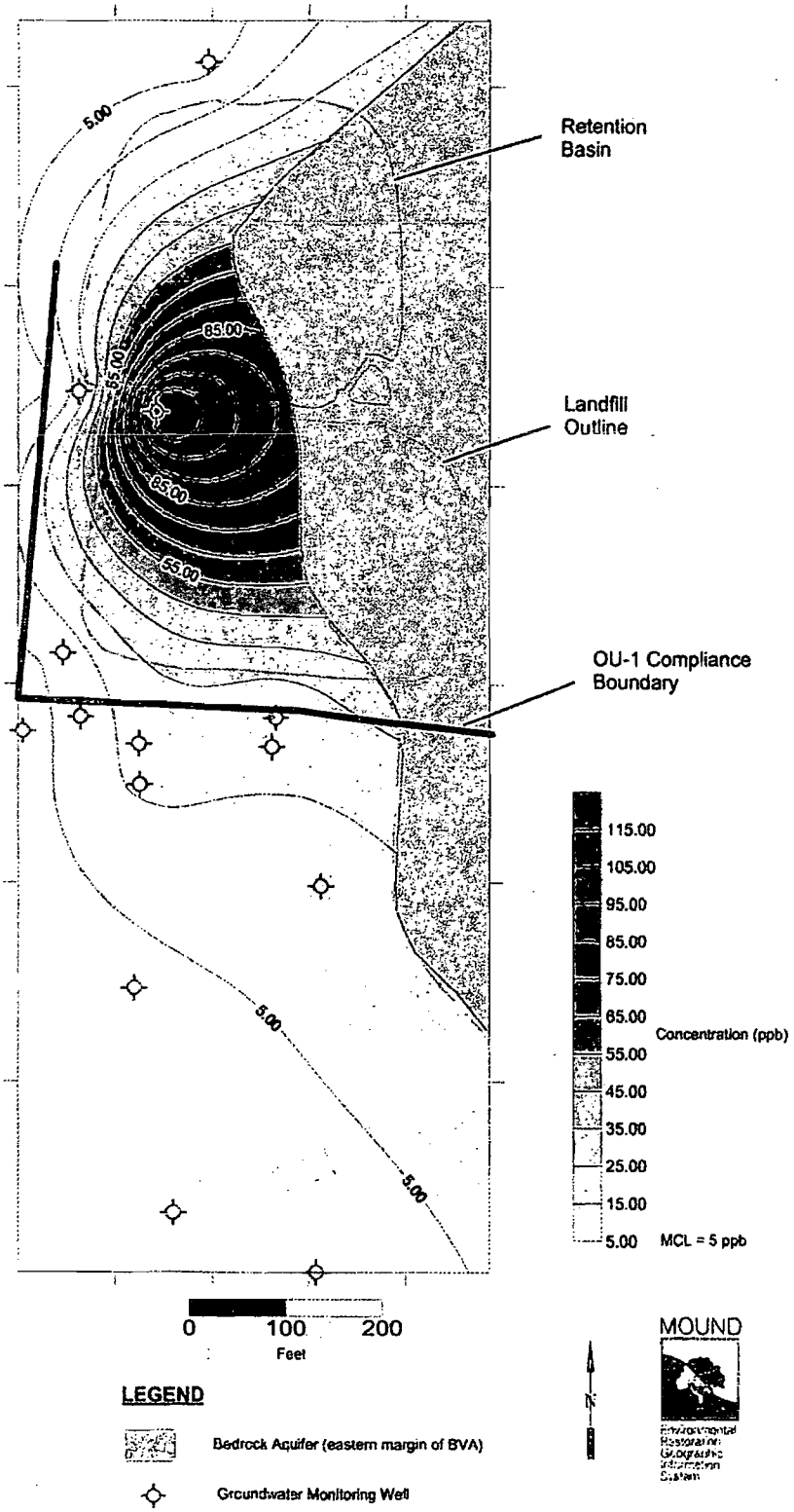
Attachment C

VOC Concentration Contour Plots in the OU-1 Groundwater System

January 1997 VOC Concentration Contour Plots

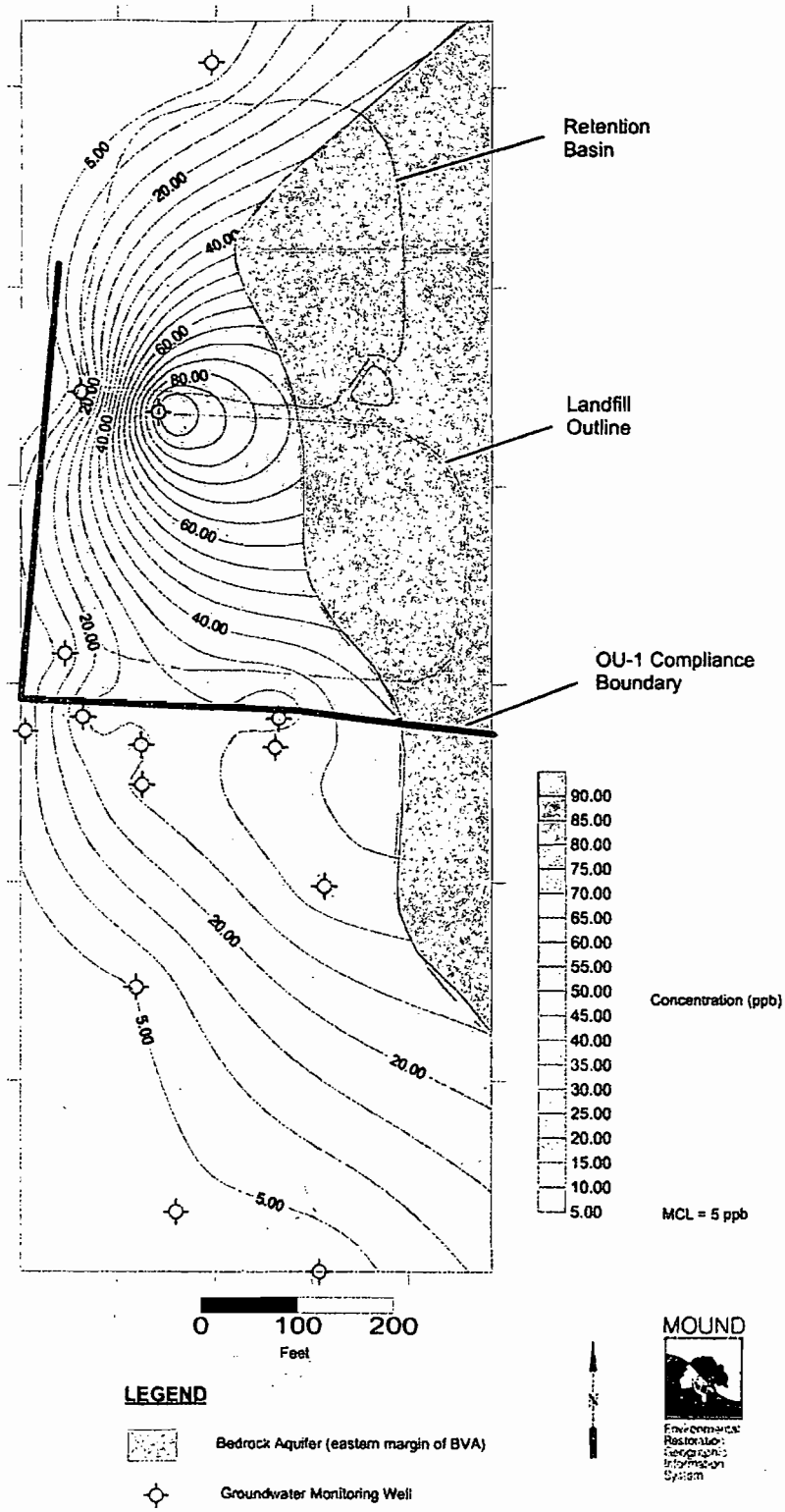
C1 /17

Jan 1997 PCE Concentrations at OU-1



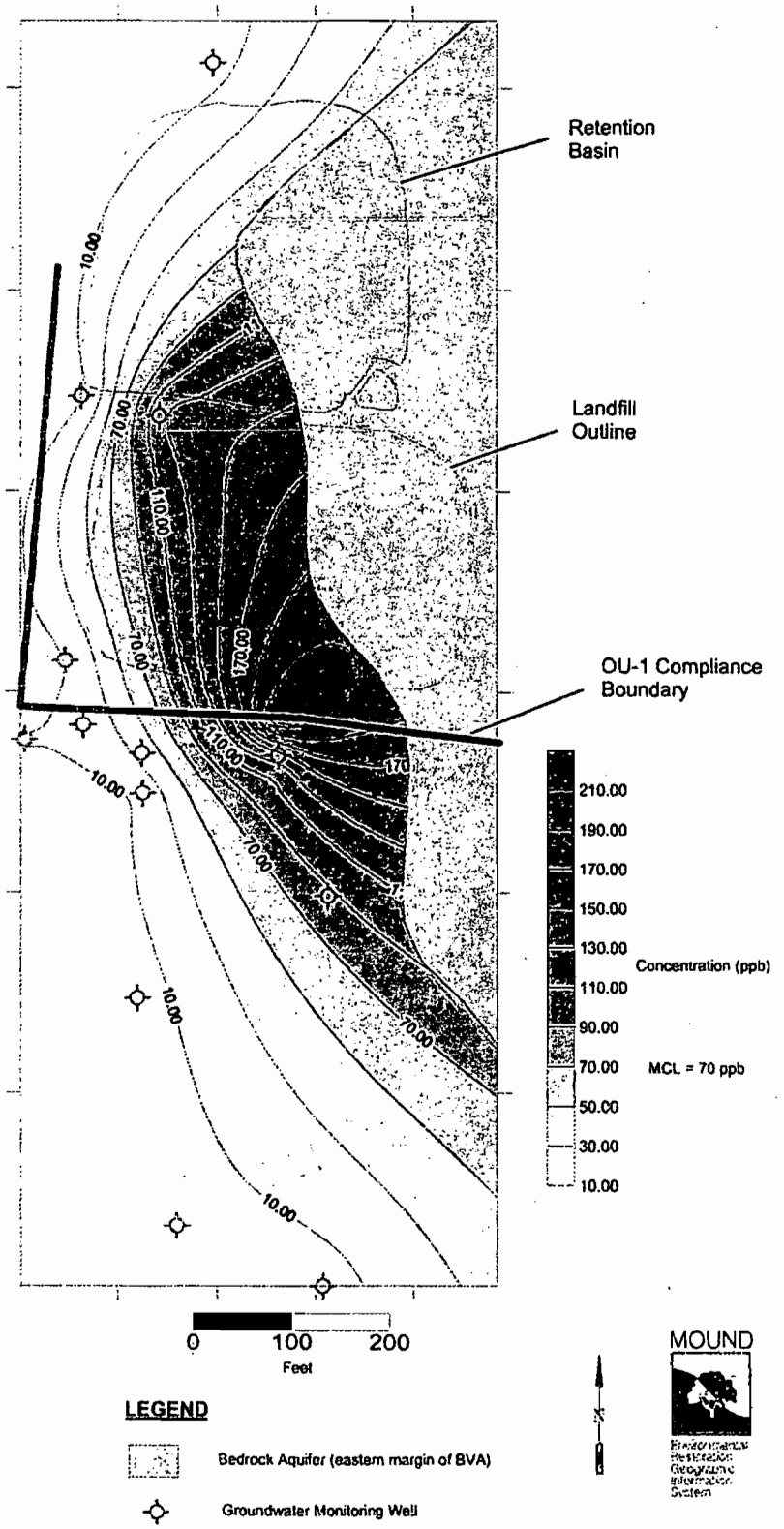
C2/17

Jan 1997 TCE Concentrations at OU-1

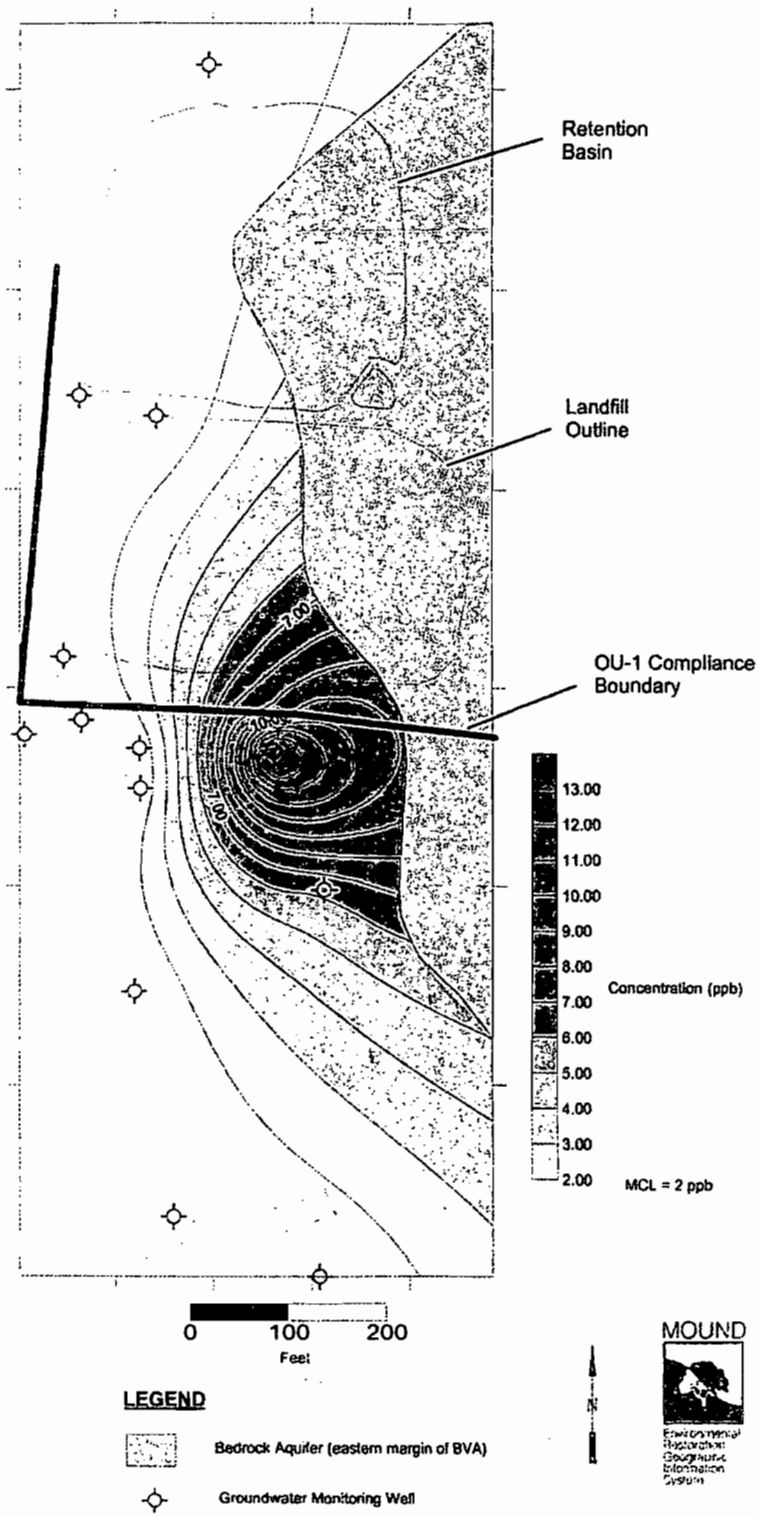


C3 /17

Jan 1997 DCE Concentrations at OU-1



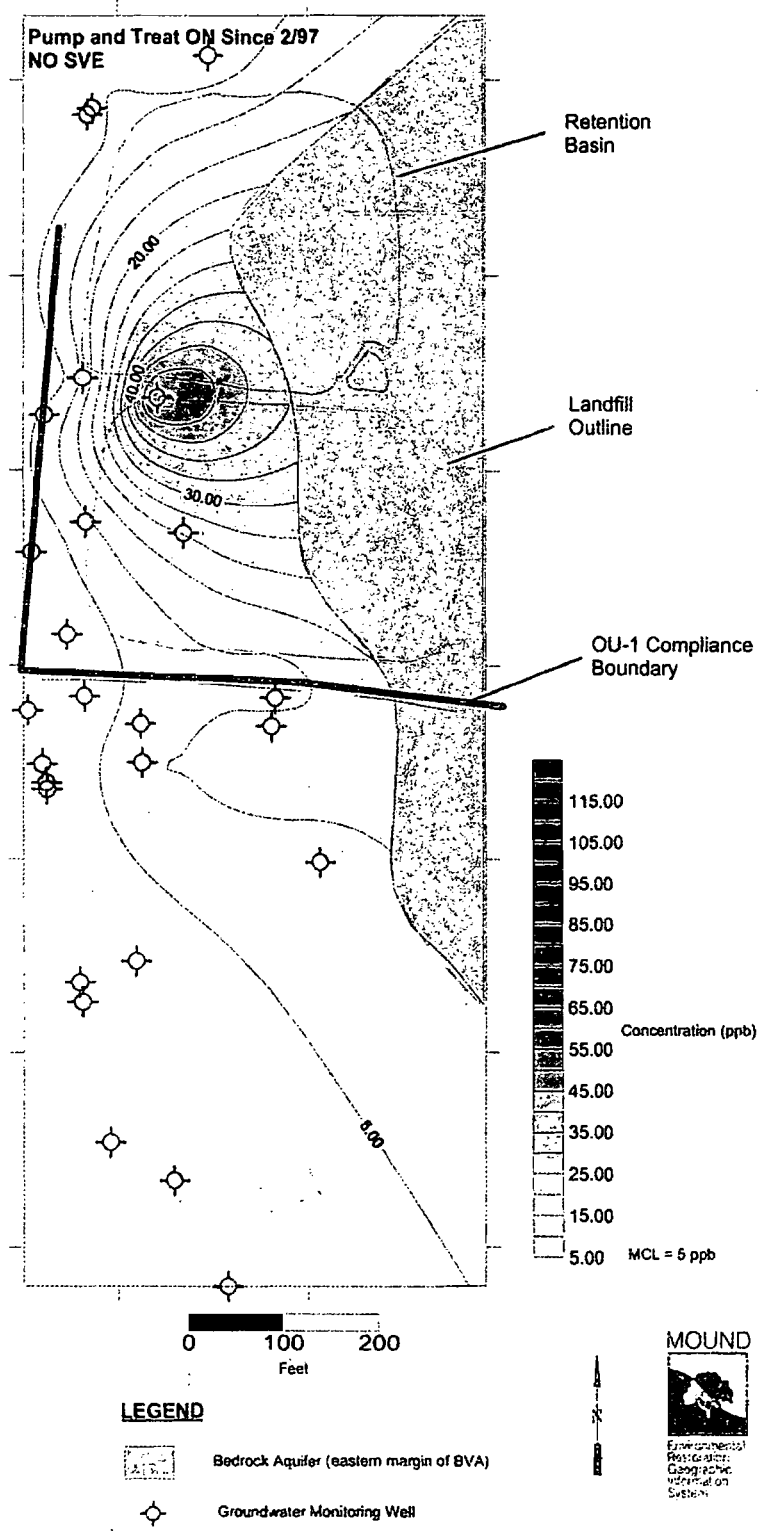
Jan 1997 VC Concentrations at OU-1



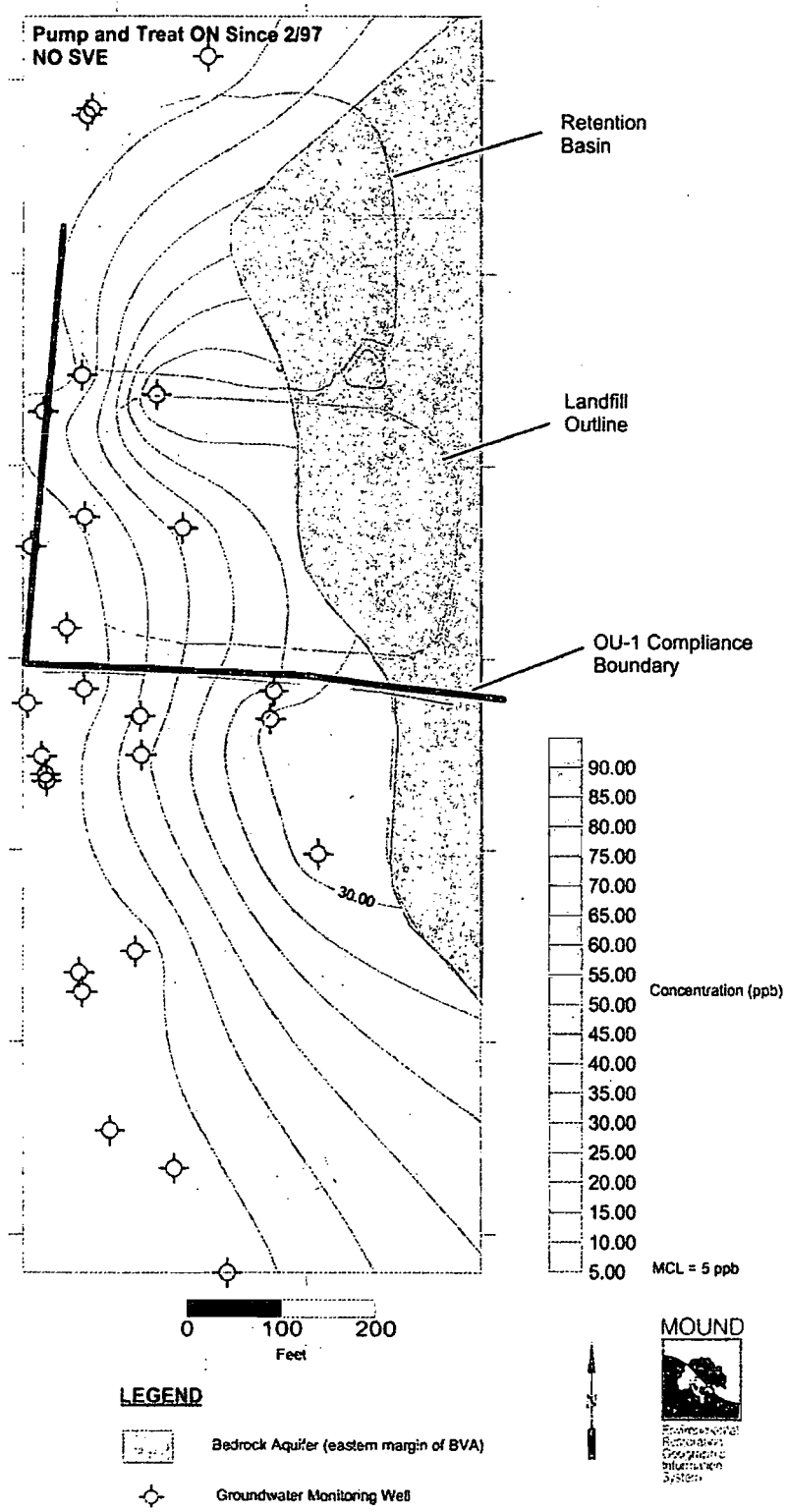
December 1997 VOC Concentration Contour Plots

C6/V7

Dec 1997 PCE Concentrations at OU-1

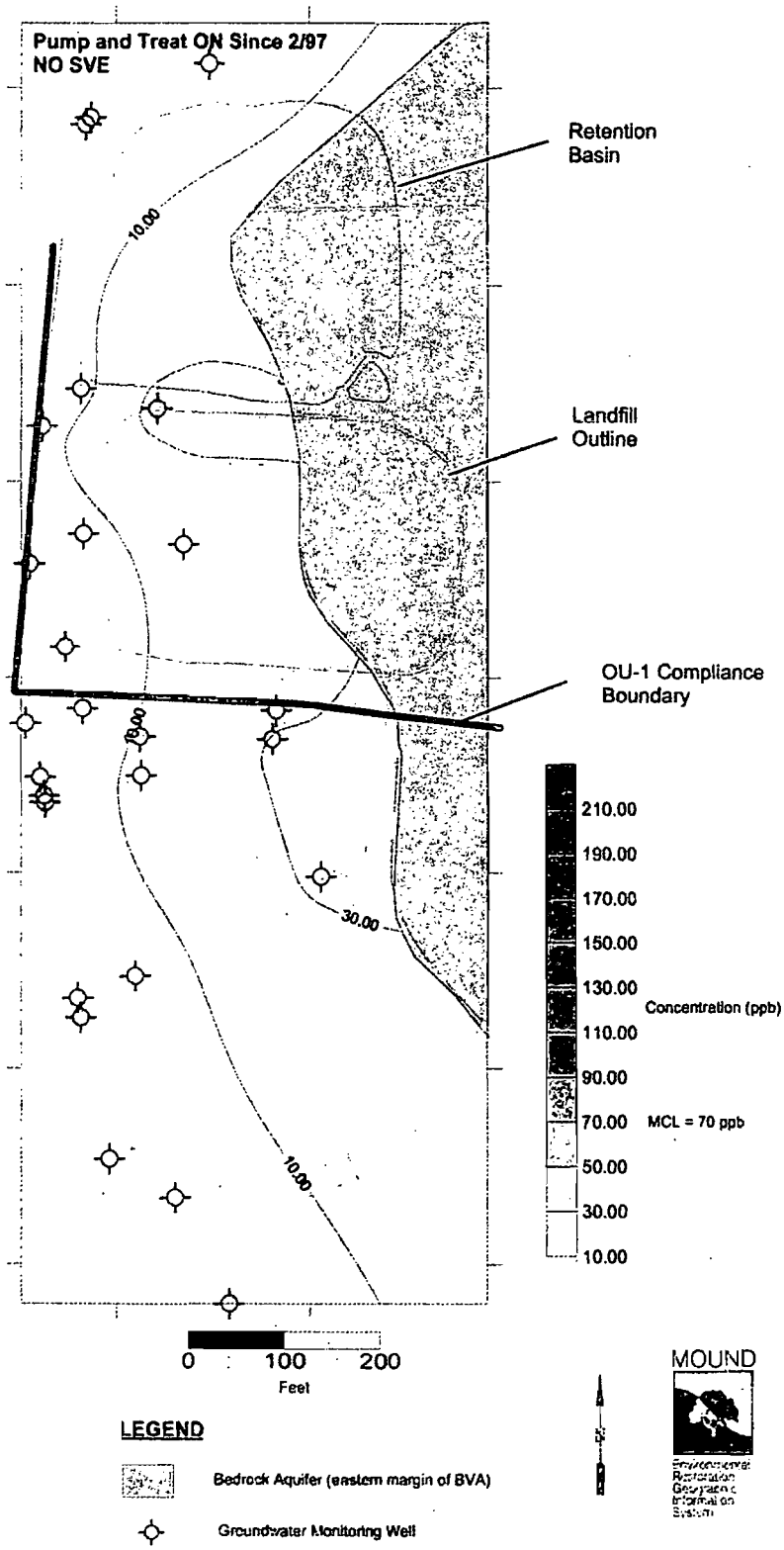


Dec 1997 TCE Concentrations at OU-1



C8/17

Dec 1997 DCE Concentrations at OU-1

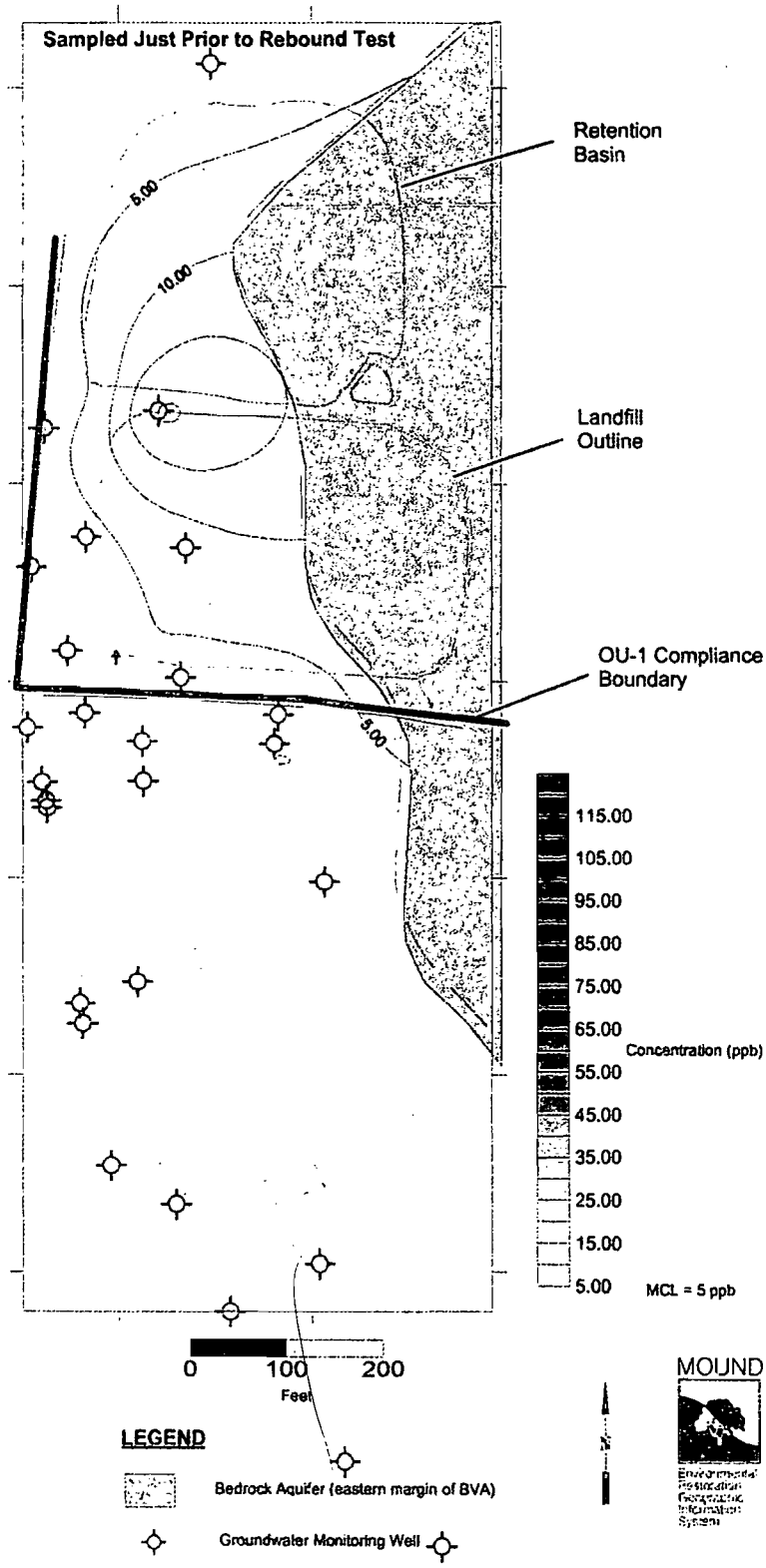


C9/17

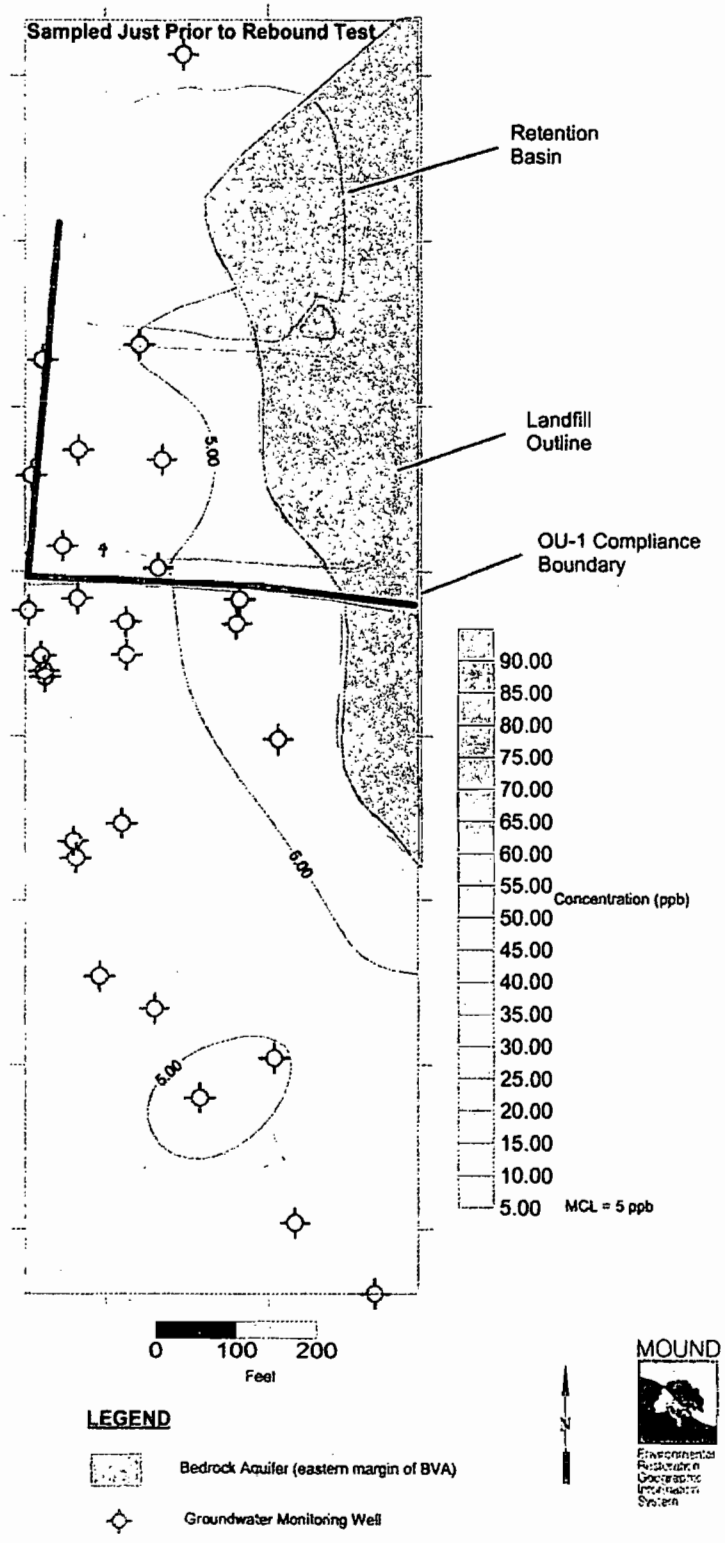
February 2003 VOC Concentration Contour Plots

C10/17

Feb 2003 PCE Concentrations at OU-1

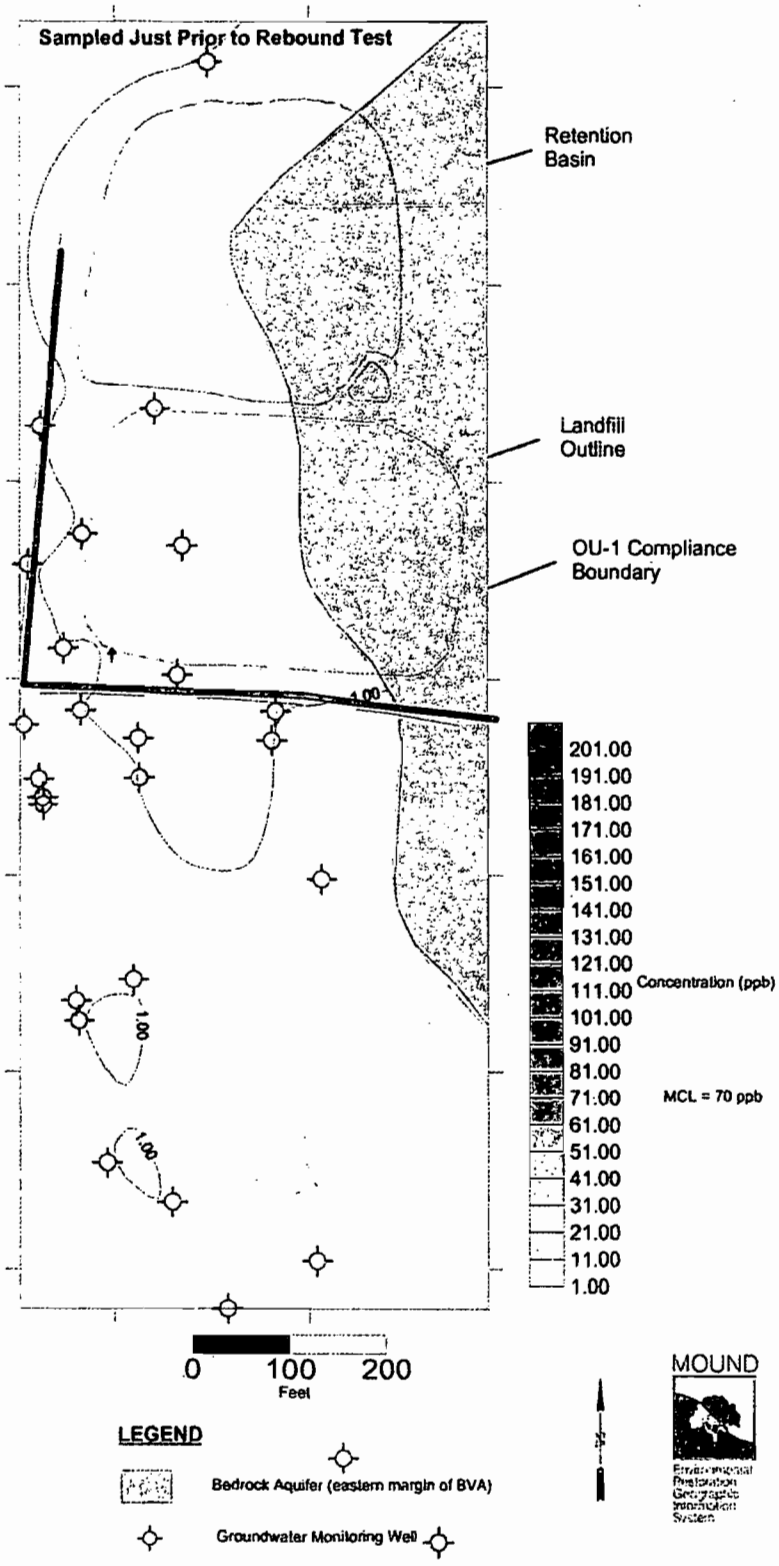


Feb 2003 TCE Concentrations at OU-1



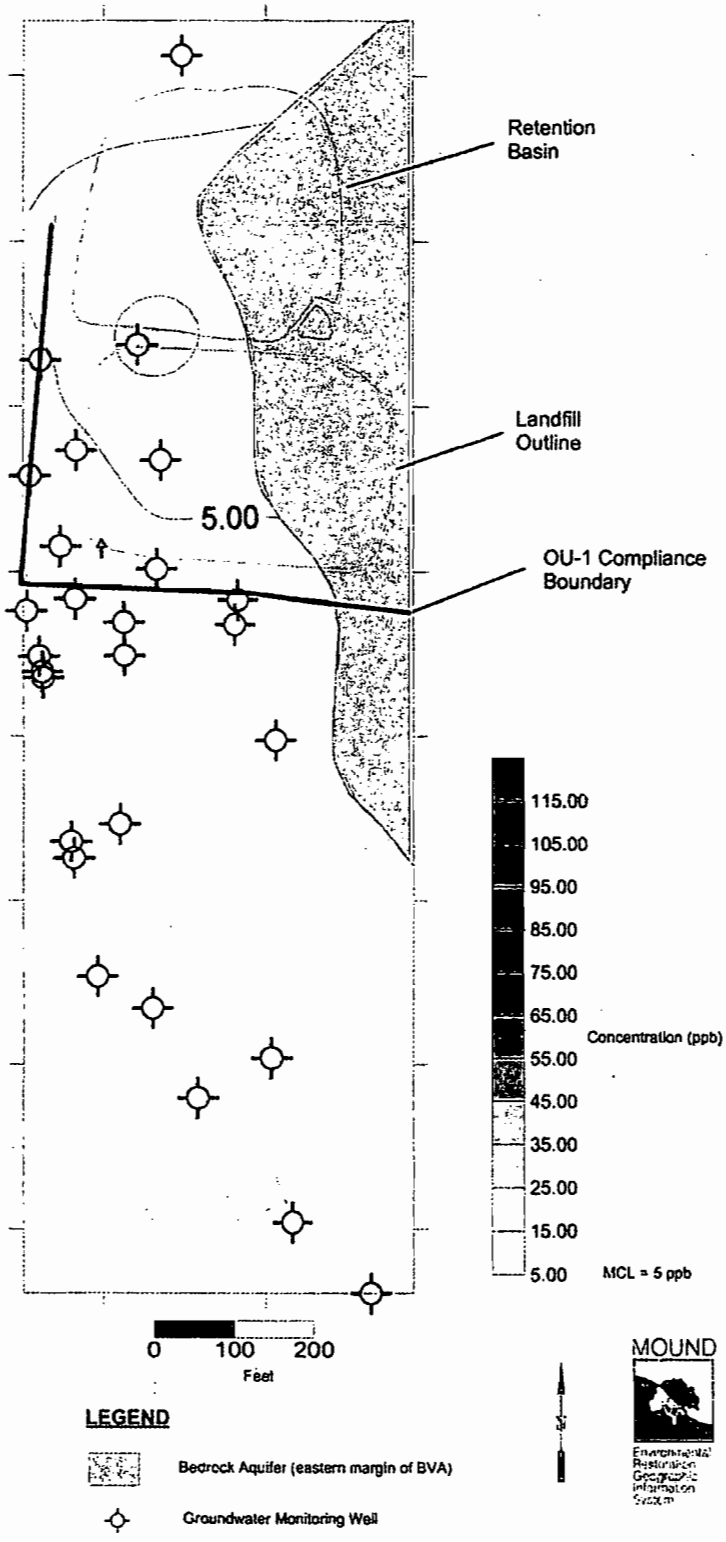
C12/17

Feb 2003 DCE Concentrations at OU-1



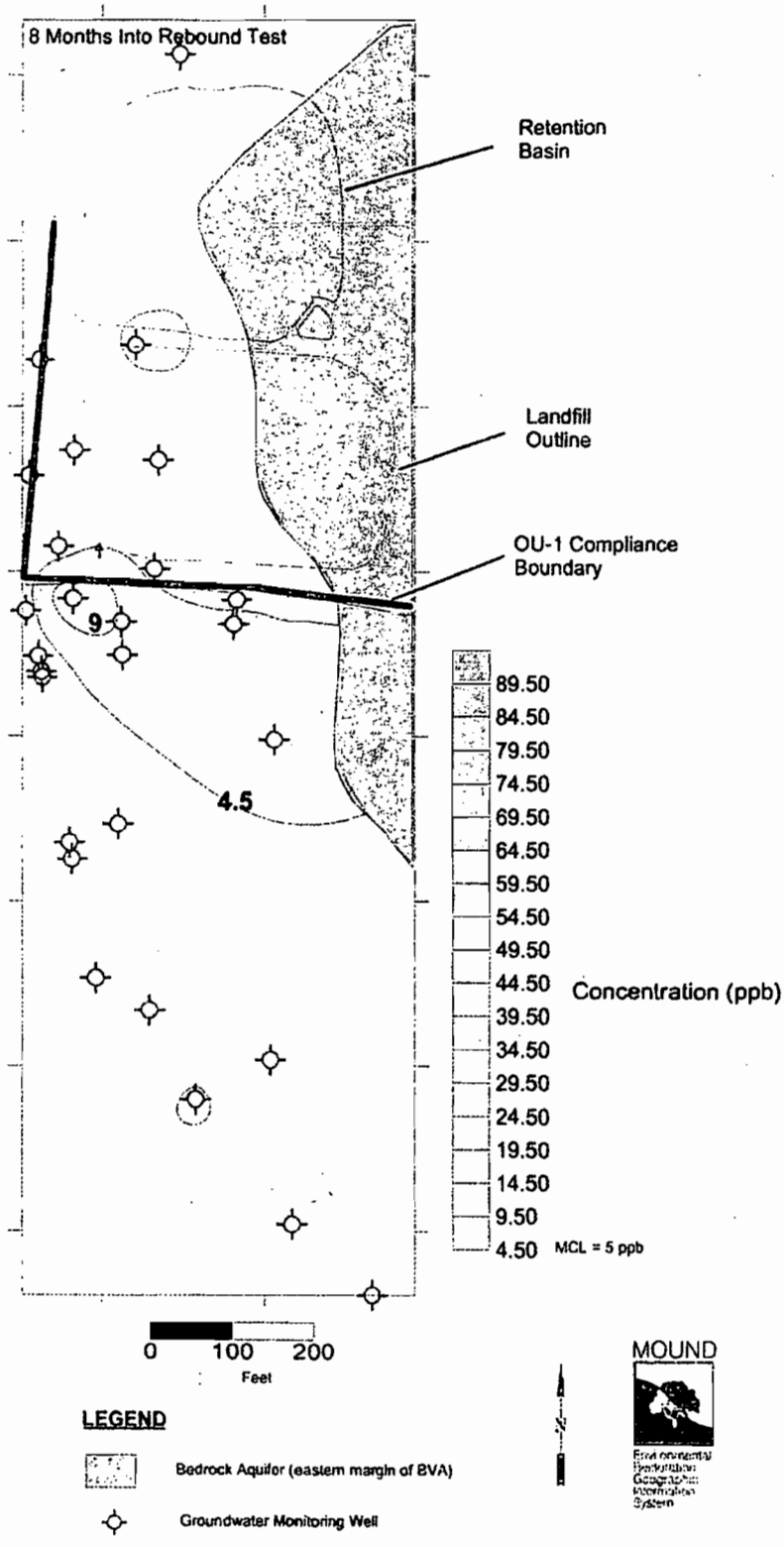
January 2004 VOC Concentration Contour Plots

Jan 2004 PCE Concentrations at OU-1

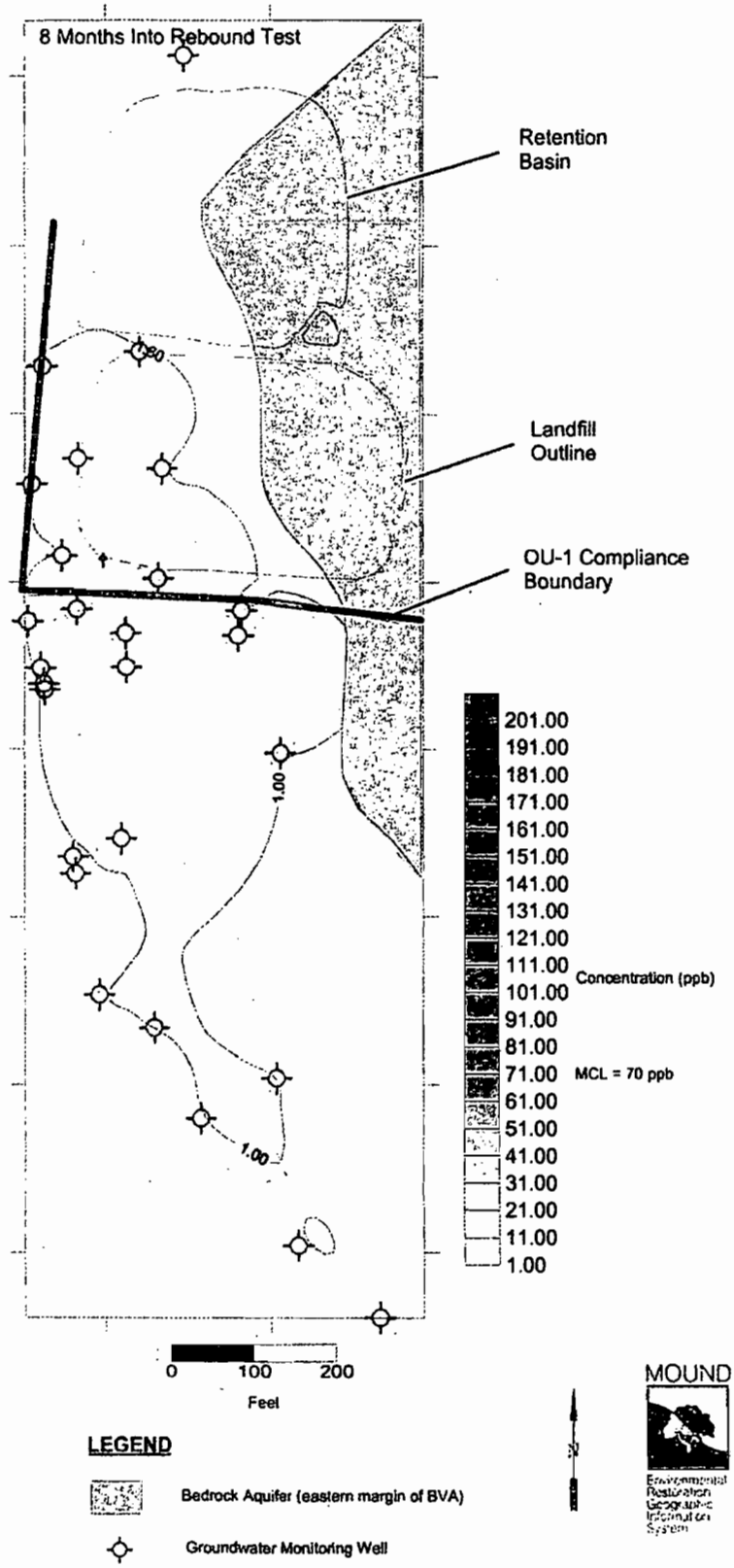


C15/17

Jan 2004 TCE Concentrations at OU-1



Jan 2004 DCE Concentrations at OU-1



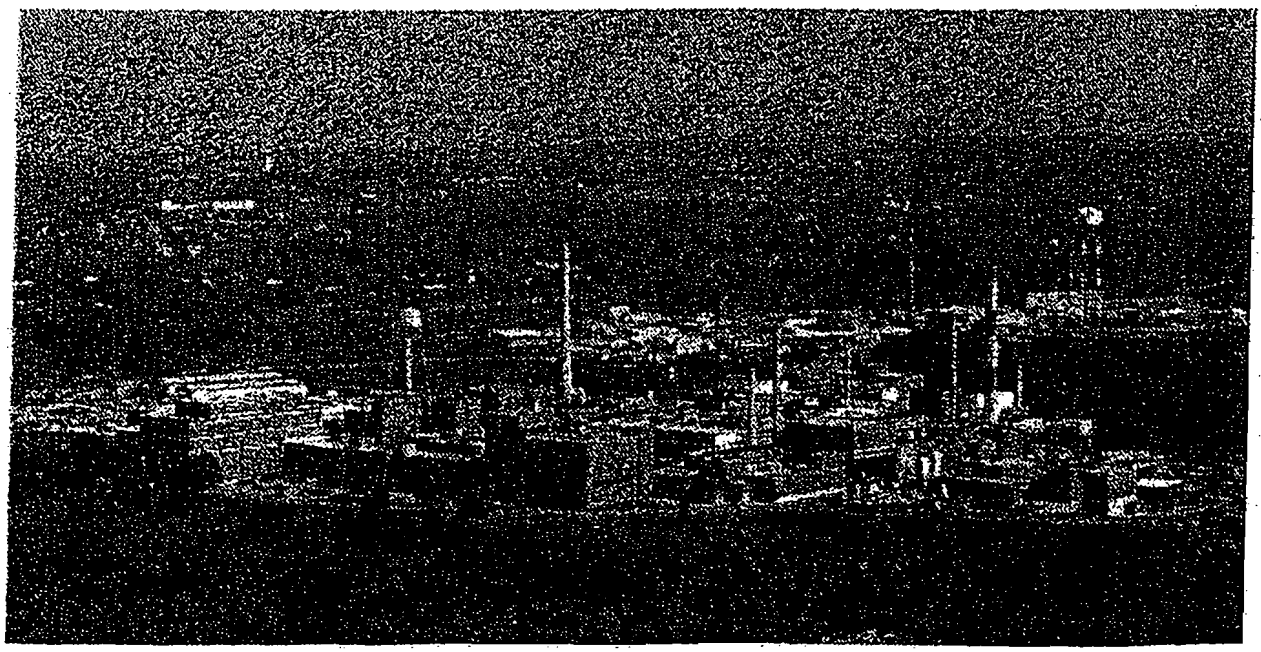
Attachment D

PRS 414 PRS Package, May 1998

MOUND

Environmental
Restoration
Program

MOUND PLANT
Potential Release Site Package
PRS # 414



D1/64

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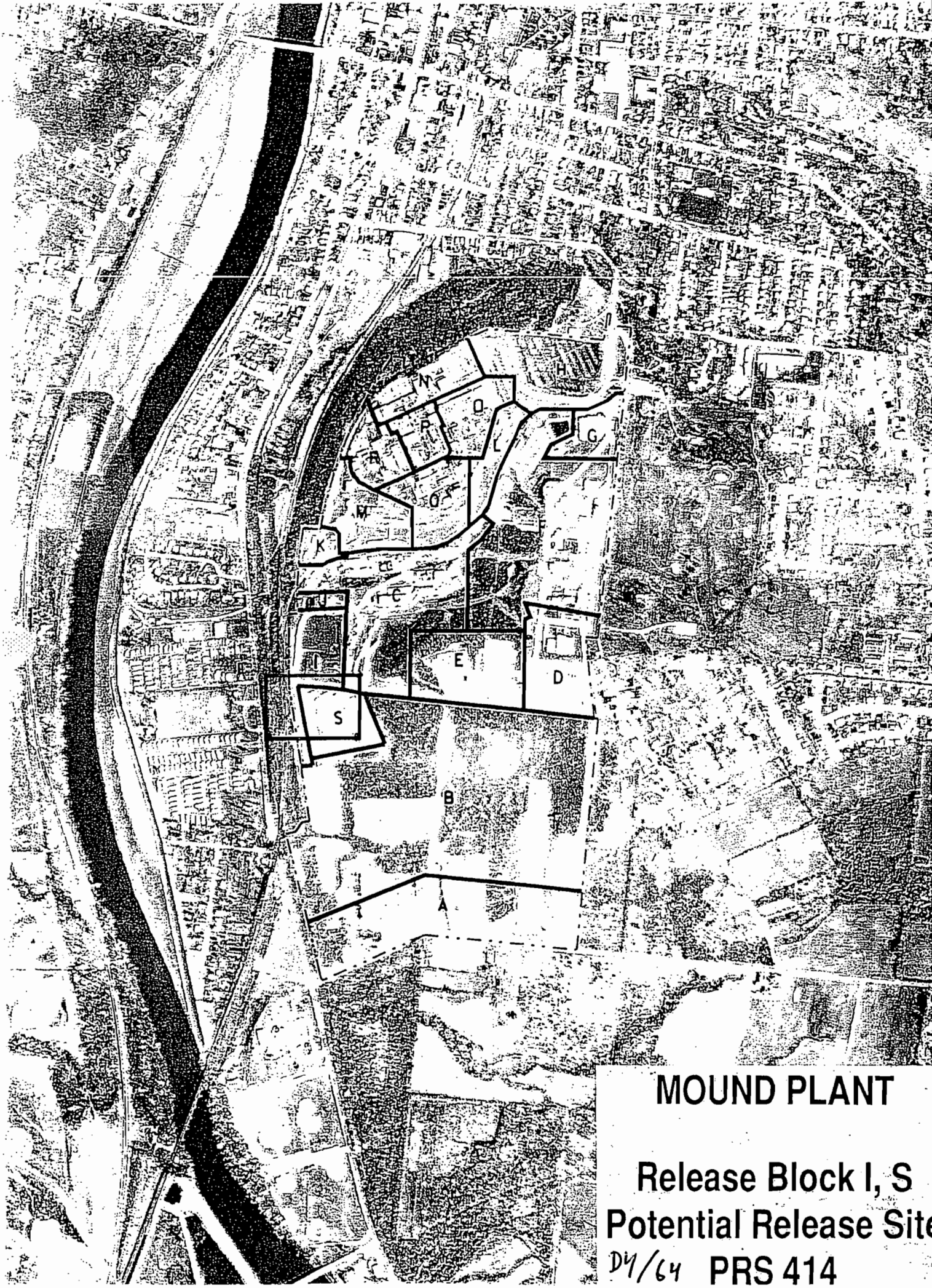
D2/64

PRS 414 (FILE)

REV	DESCRIPTION	DATE
DRAFT	Revised February 8, 1998. Geographic extent redefined.	Apr. 6, 1998
REGULATOR RELEASE A		Apr. 13, 1998

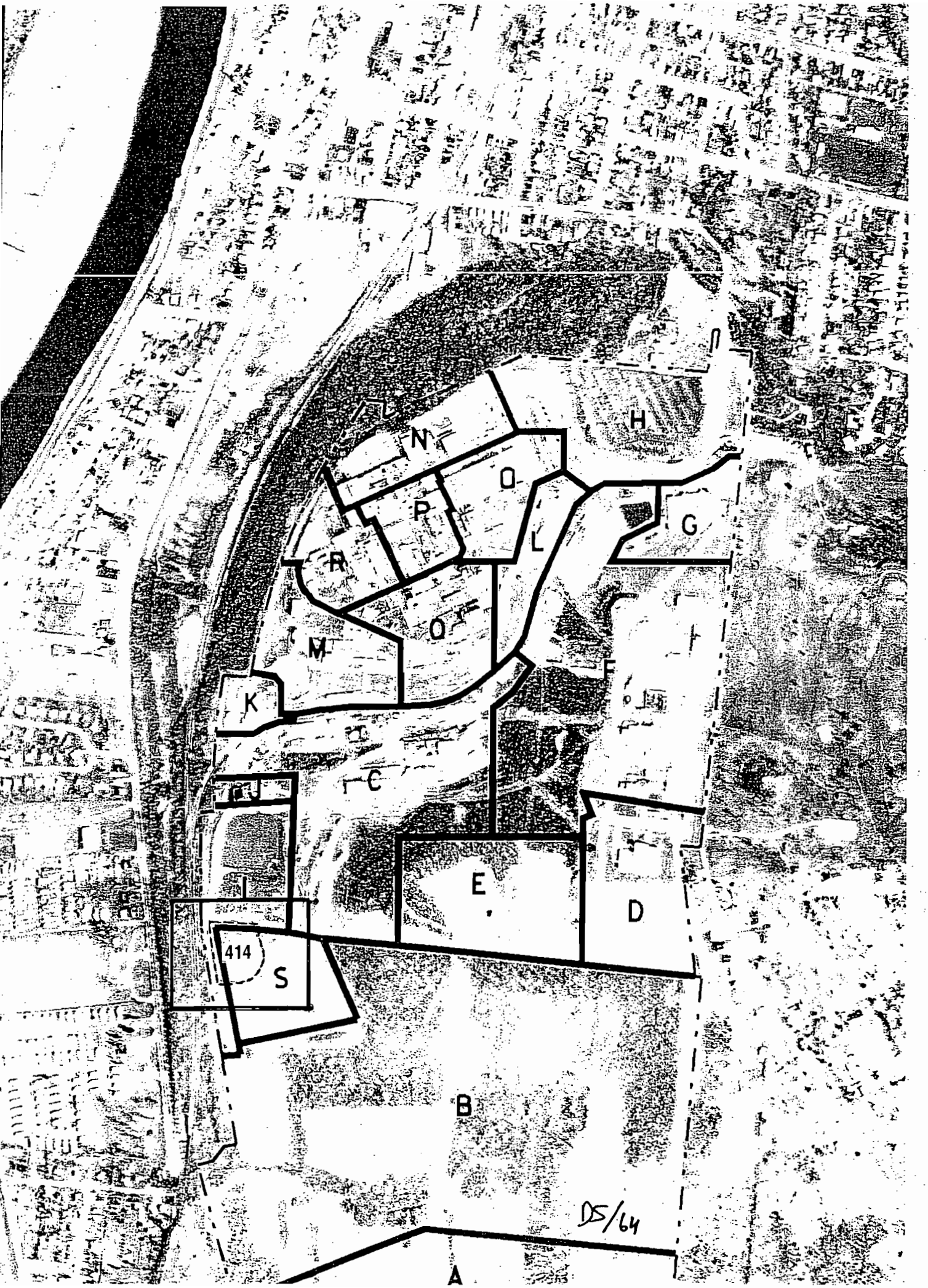
03/64



MOUND PLANT

Release Block I, S
Potential Release Site

DY/64 PRS 414


N
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414
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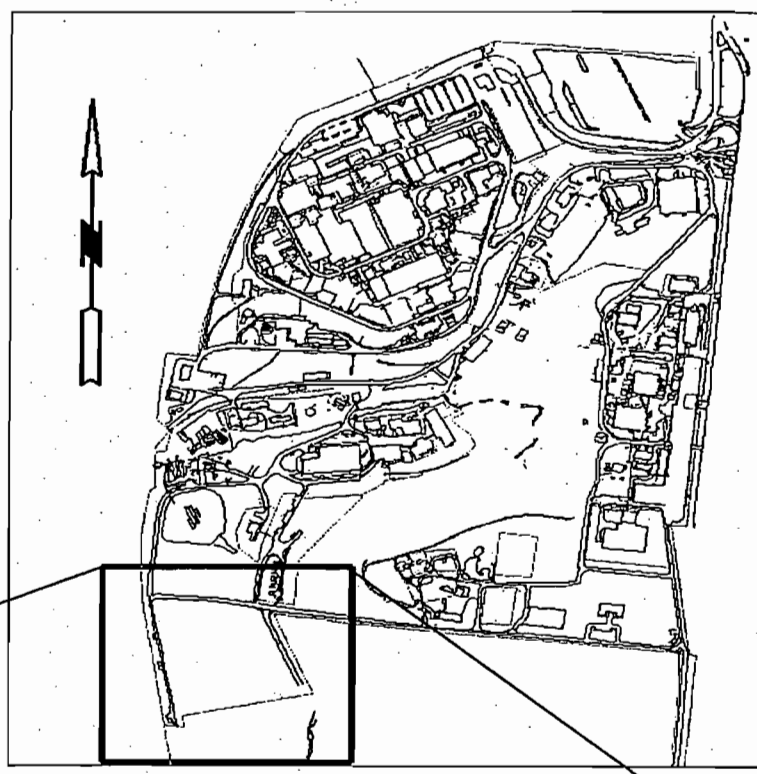
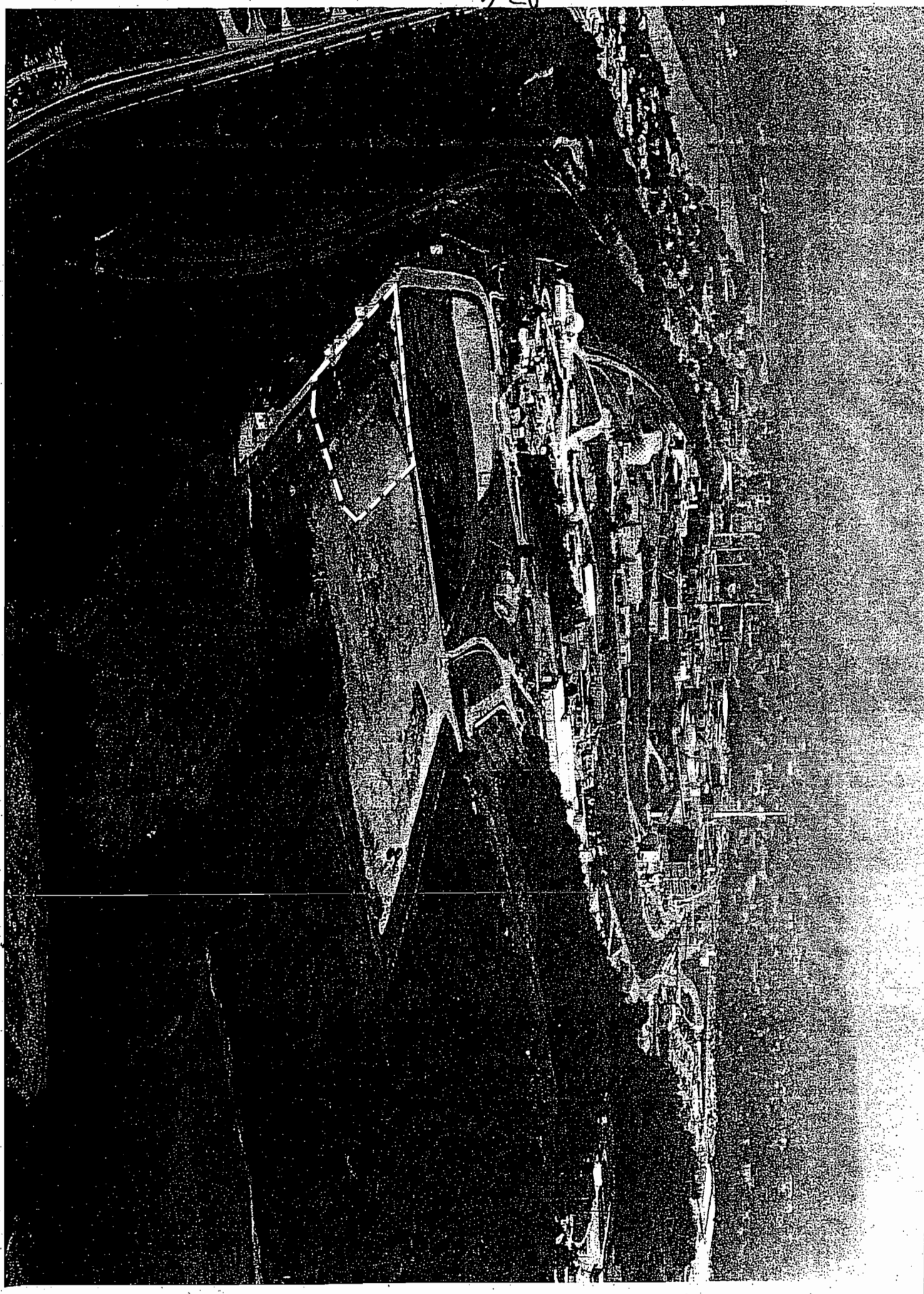
B
DS/64
A

Mound Plant
Release Block I, S
Potential Release Site

PRS 414



D6/64



PRS 414

PRS HISTORY

Potential Release Site (PRS) 414 has been identified as a potential release site as a result of localized elevated volatile organic compound (VOC) groundwater concentrations. PRS 414 is located directly south of Operable Unit 1 (OU1). The east, west, and south boundaries of the PRS are defined by drawing a line through the monitoring wells where VOCs have been detected. Data indicates nine monitoring wells and piezometers within PRS 414 bounds having VOC concentrations exceeding MCLs. Appendix 1 shows VOC detections with time for the affected wells and piezometers. The data was obtained from numerous groundwater sampling events at the Mound Plant.

No activities were known to have occurred directly above the aquifer at this location that would have caused the groundwater contamination.

Potential Release Sites in the vicinity of PRS 414 include:

- Those found in Operable Unit 1 (OU1). OU1 is hydraulically upgradient from PRS 414. Groundwater at OU1 is contaminated with VOCs and is being treated to remove them.
- PRS 282, the Construction Spoils Area, is directly above PRS 414. Mound screened construction spoils for radioactivity and shipped soil with greater than 25 pCi/g Pu-238 or greater than 5 pCi/g thorium off the site for disposal. Construction spoils with less radioactivity were kept on the site as a best management practice. There is no known history of disposing of VOC-contaminated soil in the construction spoils.
- PRS 11, Area 2 thorium and polonium contaminated crushed drums, extends into the northwest corner of PRS 414. There is no known VOC contamination of the crushed drums.

CONTAMINATION

Several volatile organic compounds have been detected above MCLs (Table 1) in monitoring wells and piezometers located within PRS 414. Those compounds include methylene chloride, trichloroethene, vinyl chloride, 1,2-dichloroethene, tetrachloroethene and bis (2-ethylhexyl) phthalate. The affected wells and piezometers include 0154, 0155, 0305, 0410, 0471, 0571, P015 and P027. The geologic well logs for the affected wells and piezometers are attached in Appendix-2. Note that wells 0155, 0154, 0471 and 0571 have been abandoned.

Methylene chloride, cis- and trans- 1, 2 dichloroethene and vinyl chloride can occur as chemical and biological transformation products of TCE, PCE and TCA, all three of which have shown elevated concentrations in the upgradient OU1 area. The observation that transformation products are seen in downgradient wells suggests the possibility that some degree of natural attenuation may be occurring within the aquifer system.

This PRS package does not include recent groundwater data collected after the startup of the pump and treat system for OU1.

D9/64

REFERENCES:

1) OU5, Operational Area Phase 1 Investigation, Area 7 Field Report (FINAL).

2) Operable Unit 5 New Property Extended Phase Field Report. Volume II - Appendices A-F. Final (Revision 0).

3) Groundwater Water Monitoring Data Report Through Second Quarter, FY 91-92. Draft. Revision 0

4) Operable Unit 1, Area B December 1991 Ground Water and Seep Water Quality Data at Mound Plant

5) Cumulative Groundwater Monitoring Data Report Through Fourth Quarter, FY92. Volume 2. Draft. Revision 0

6) Groundwater Water Monitoring Data Report through Third Quarter, FY 1991-92. Draft. Revision 0

7) Groundwater Monitoring and Mapping Results for December,1992. Validated Data.

8) Groundwater Monitoring and Mapping Results for March 1993. Validated Data.

9) Report of Data Validation Results RCRA Semi-Annual Monitoring Results Groundwater Monitoring and Mapping for Spring 1995. Working Draft (Revision O) EGG 595. (C)

10) Groundwater Monitoring and Mapping for June 1995 Operable Unit 9. Working Draft.

11) Report of Data Validation Results Additional OU9 Groundwater Sampling December 1995. Revision 0

12) Groundwater Monitoring and Mapping for December 1995 Operable Unit 9 - Electronic Data Files. December 1995 Groundwater and Seep Sampling Results

13) Groundwater Monitoring and Mapping Results for October/November, 1994. Final. Revision 0.

14) Shallow Bedrock Wells. Operable Unit 1, Area B. Additional Field Work
Groundwater Sampling Hits, Duplicates, Blanks (b), and "J" Values. Mound Plant. Location List. Parameter List. Draft

15) Analytical and other Data including: Groundwater, Water Levels, Soil Chemistry, and GINT Logs on Compact Disk. Work Order 05376-039-001

16) Operable Unit 9 Hydrogeologic Investigation: Groundwater Sweeps Report. Data Supplement. Volume 3 - G.1. Technical Memorandum. Revision 0

17) Operable Unit 9 Hydrogeologic Investigation: Groundwater Sweeps Report. Data Supplement. Volume 4 - G.2 through G.3. Technical Memorandum. Revision 0

D10/64

PREPARED BY:

Mark Gilliat , BWO Technical Staff
Ken Hacker, EG&G Operable Unit 1 Manager
John Price, BWO Soils Project Manager

D11/64

MOUND PLANT
PRS 414
Contaminated Soil

RECOMMENDATION:

CONCURRENCE:

DOE/MEMP: _____
Arthur W. Kleinrath, Remedial Project Manager (date)

USEPA: _____
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

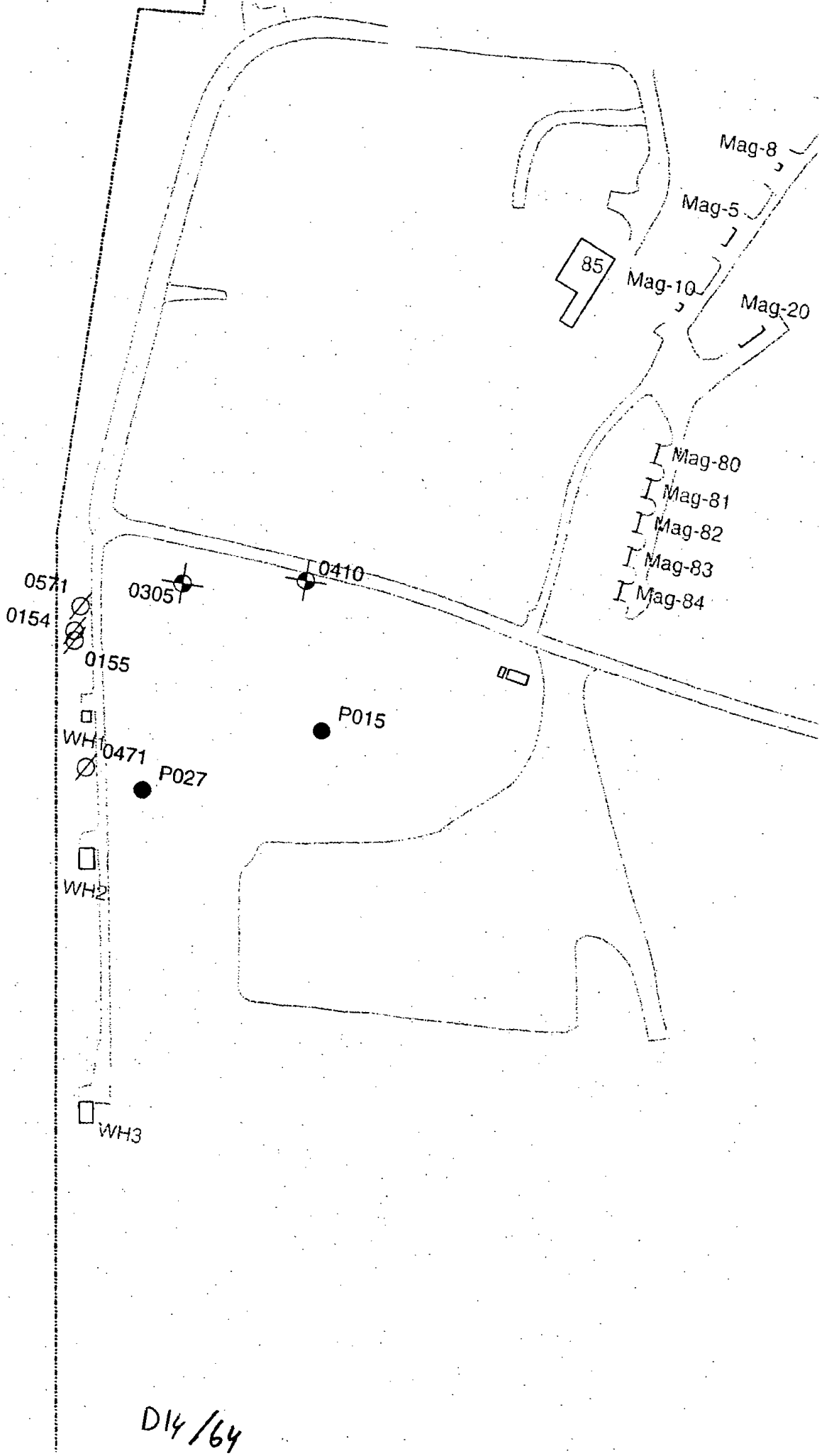
Comment period from _____ to _____

☐ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

Reference Material For PRS 414

D13/64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Mag-10
Mag-20
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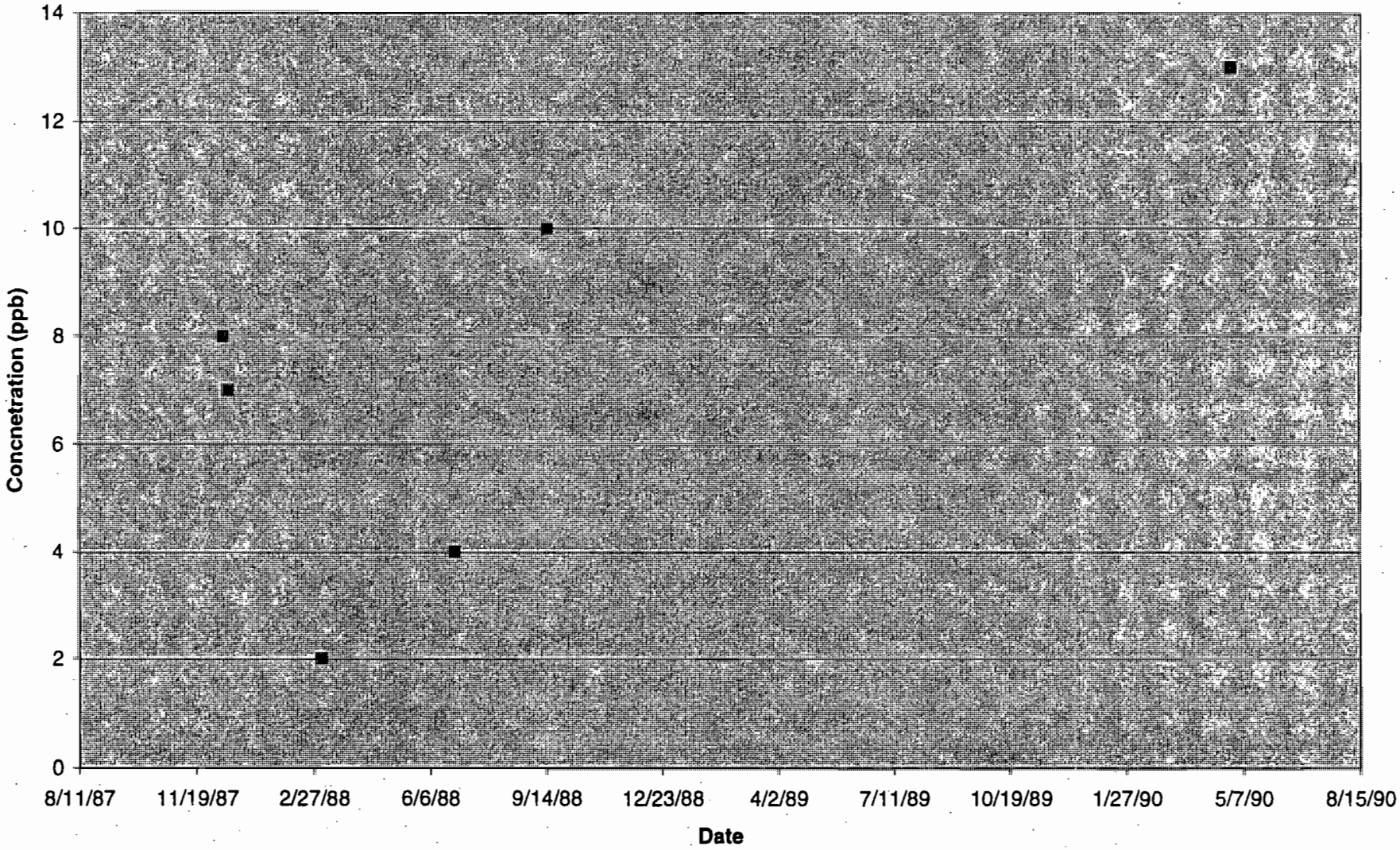
0410
0305
0571
0154
0155
P015
WH1
0471
P027
WH2
WH3

D14/64

APPENDIX 1

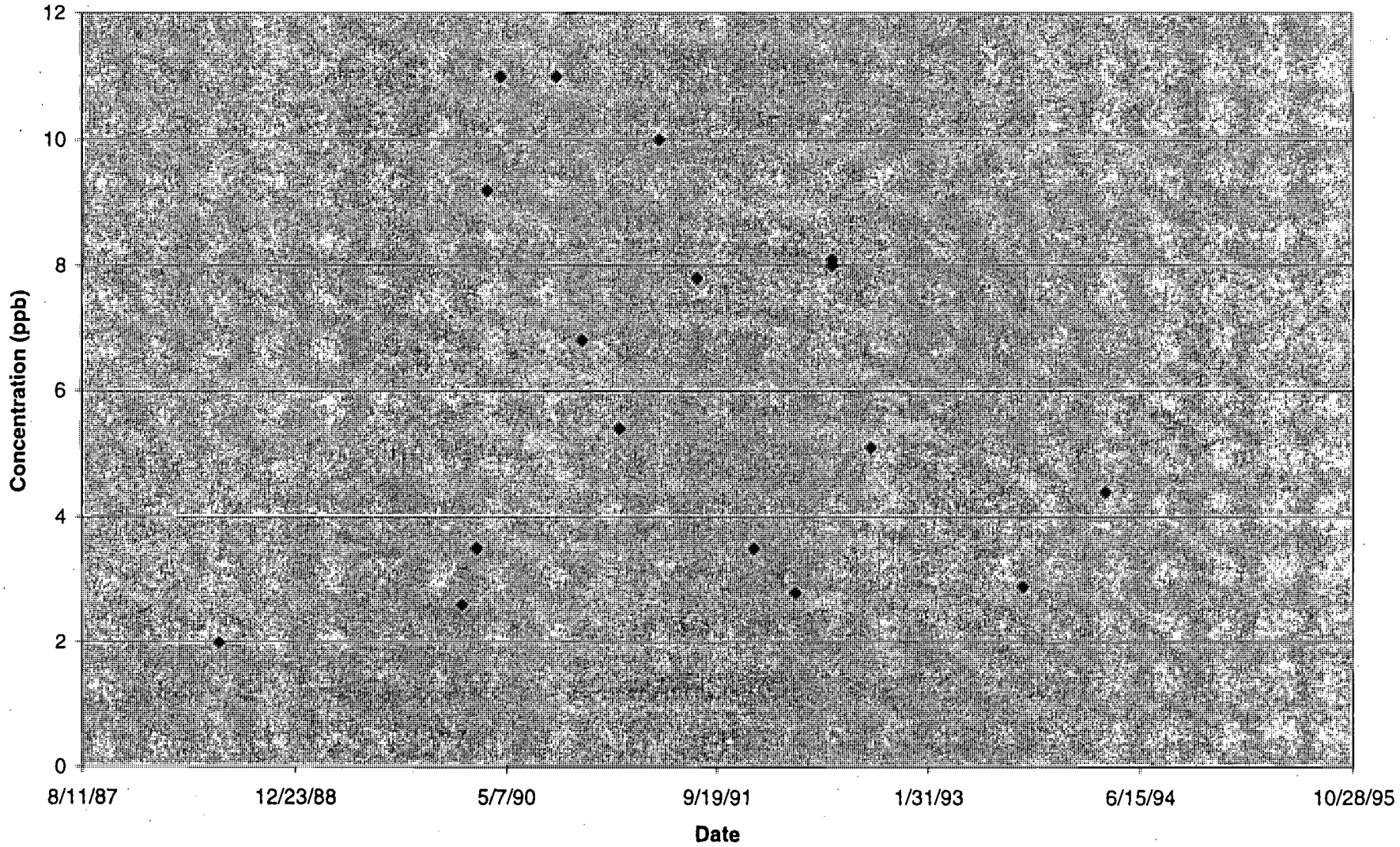
VOC DETECTION

Methylene Chloride Detections in Groundwater Moinitoring Well 0154



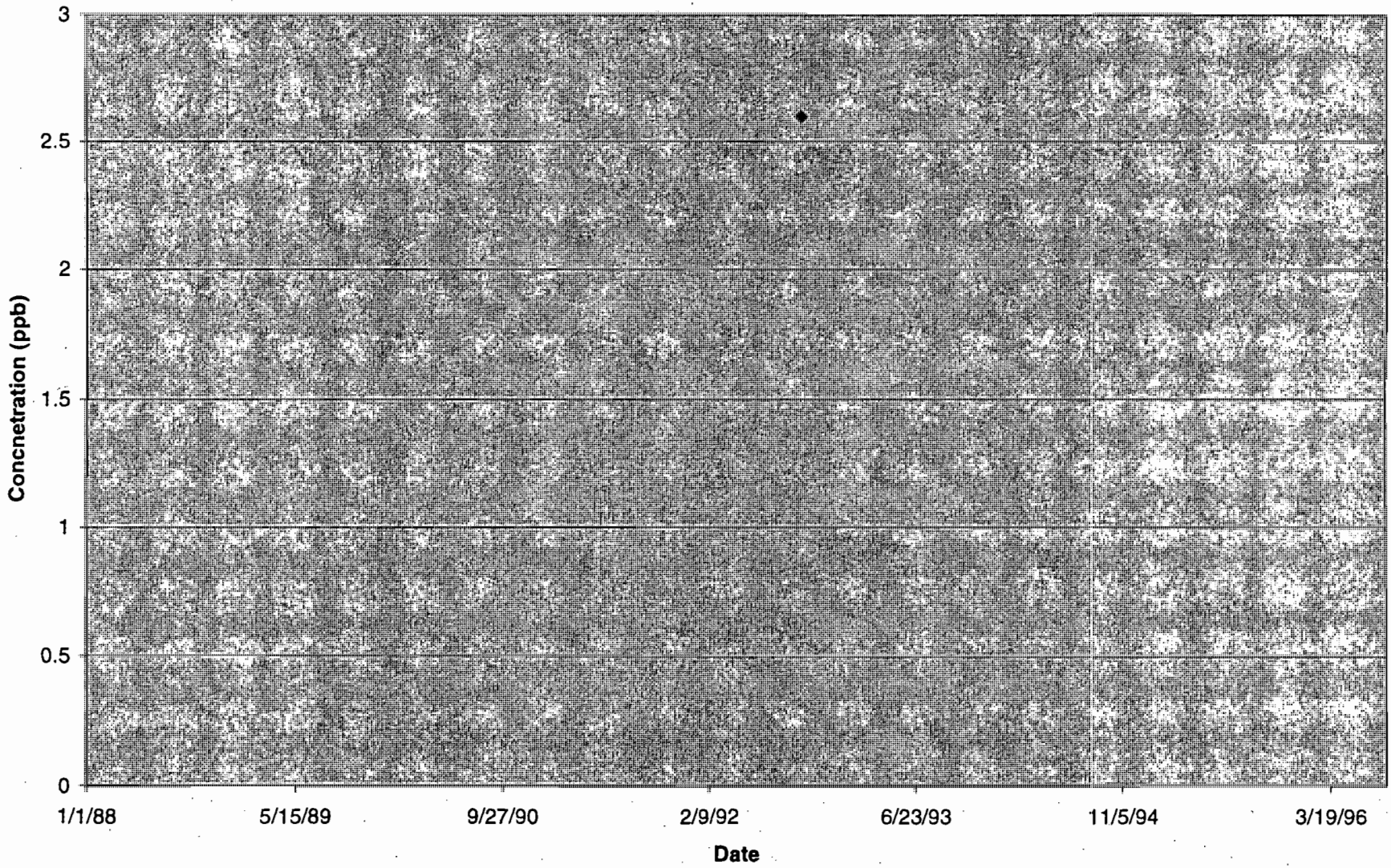
D16/64

Trichloroethene Detections in Groundwater Monitoring Well 0154



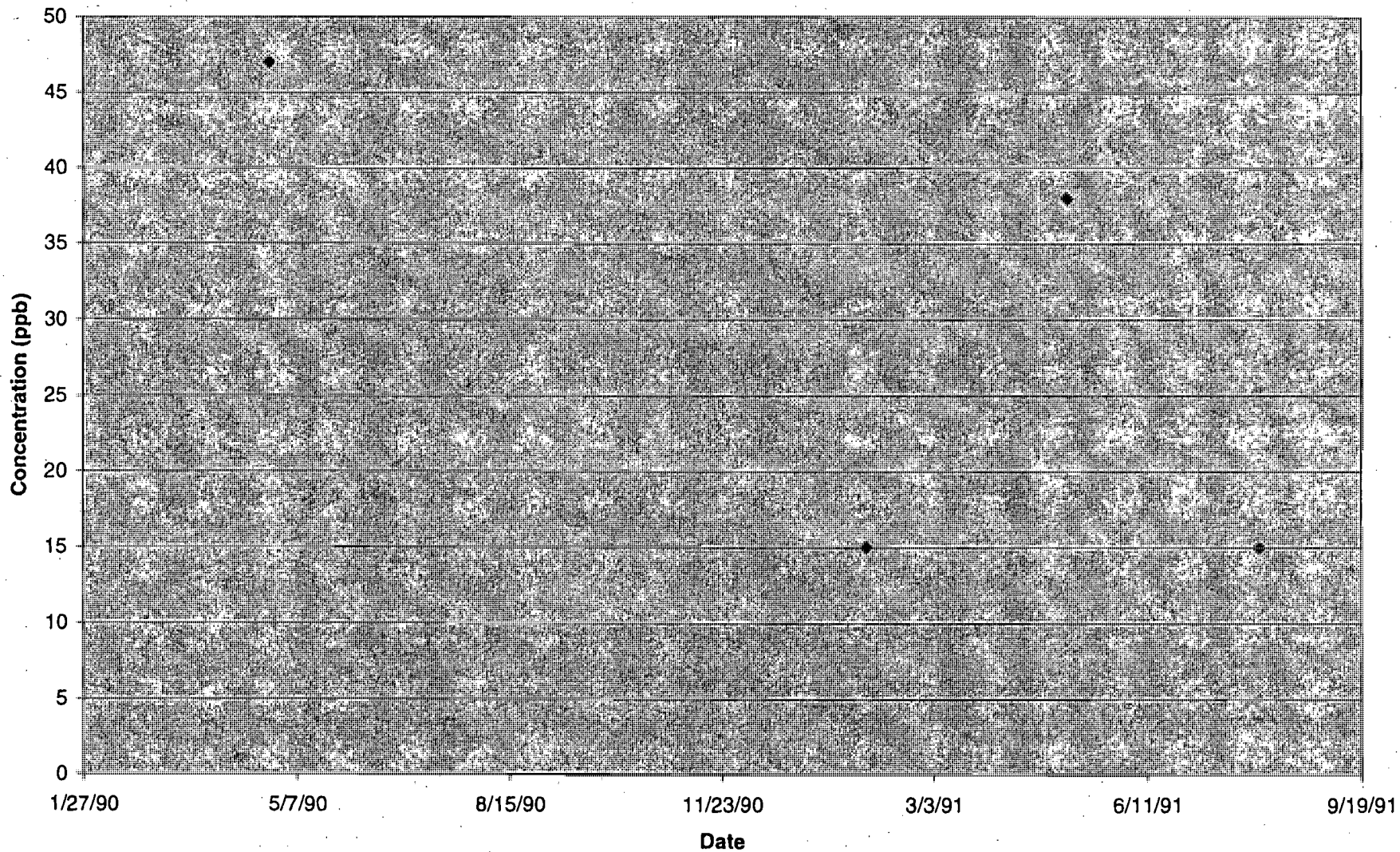
017/64

Vinyl Chloride Detections in Groundwater Monitoring Well 0154

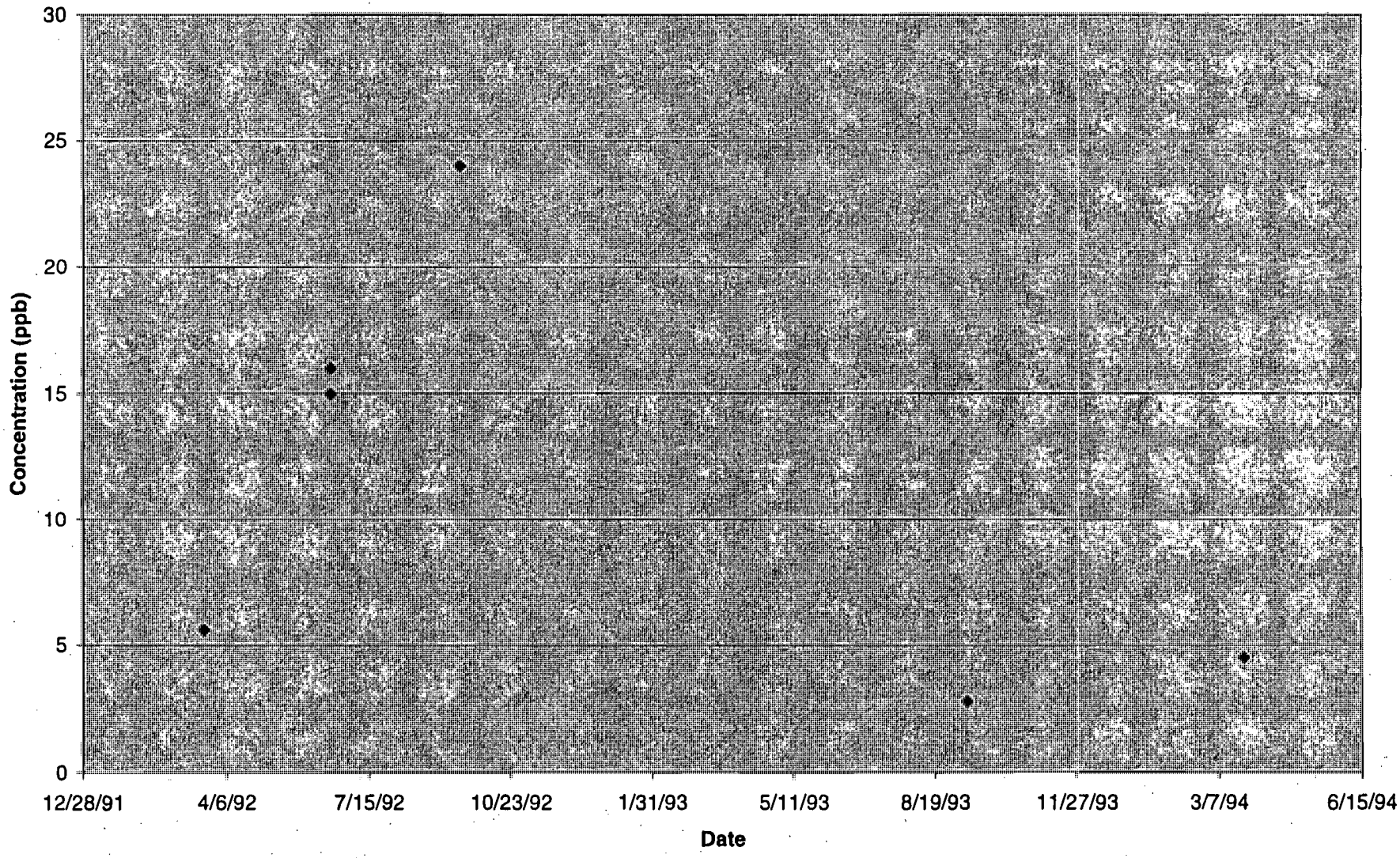


D 16/64

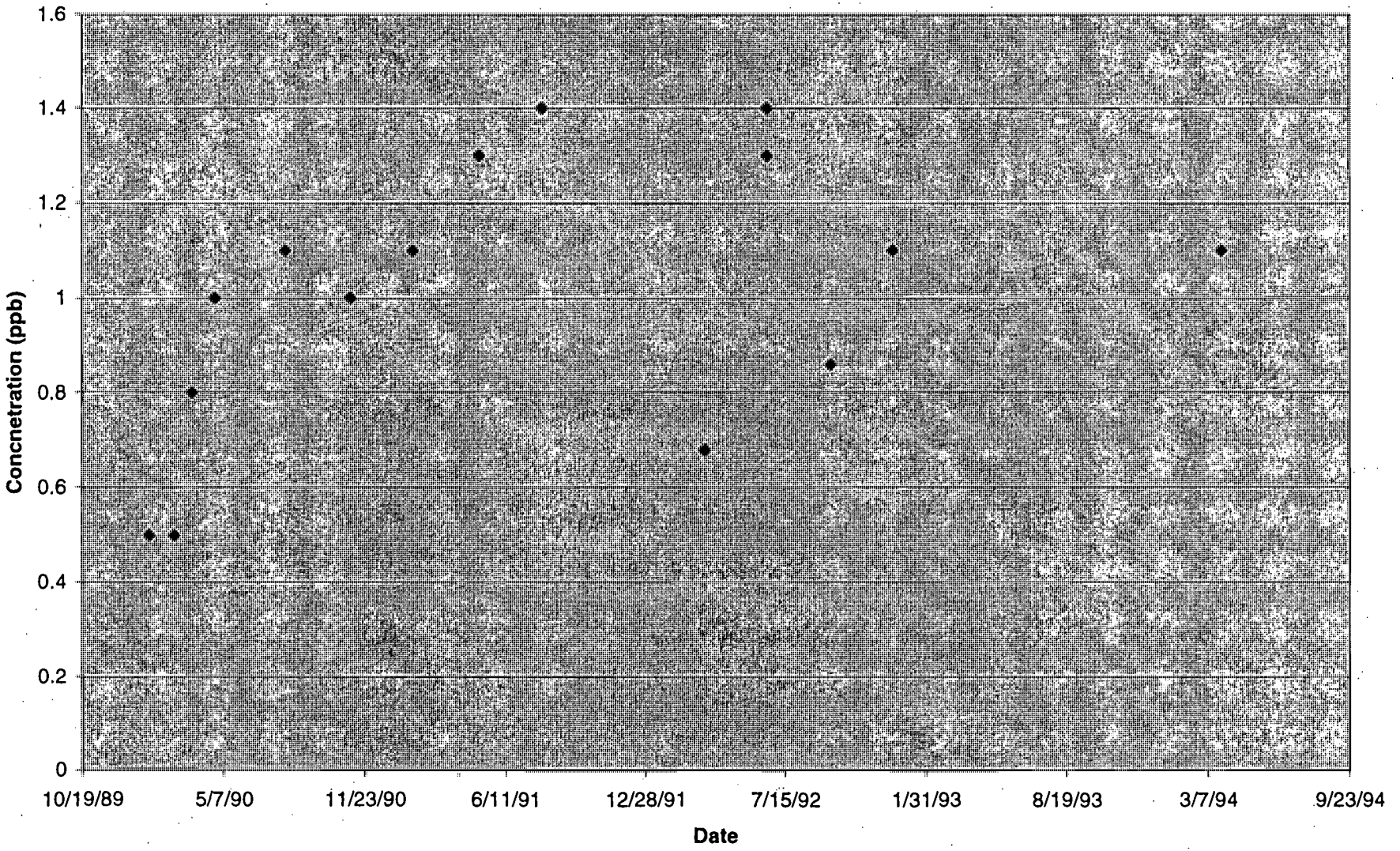
1,2- Dichloroethene Detections in Groundwater Monitoring Well 0154



1,2-cis-Dichloroethene Detections in Groundwater Monitoring Well 0154

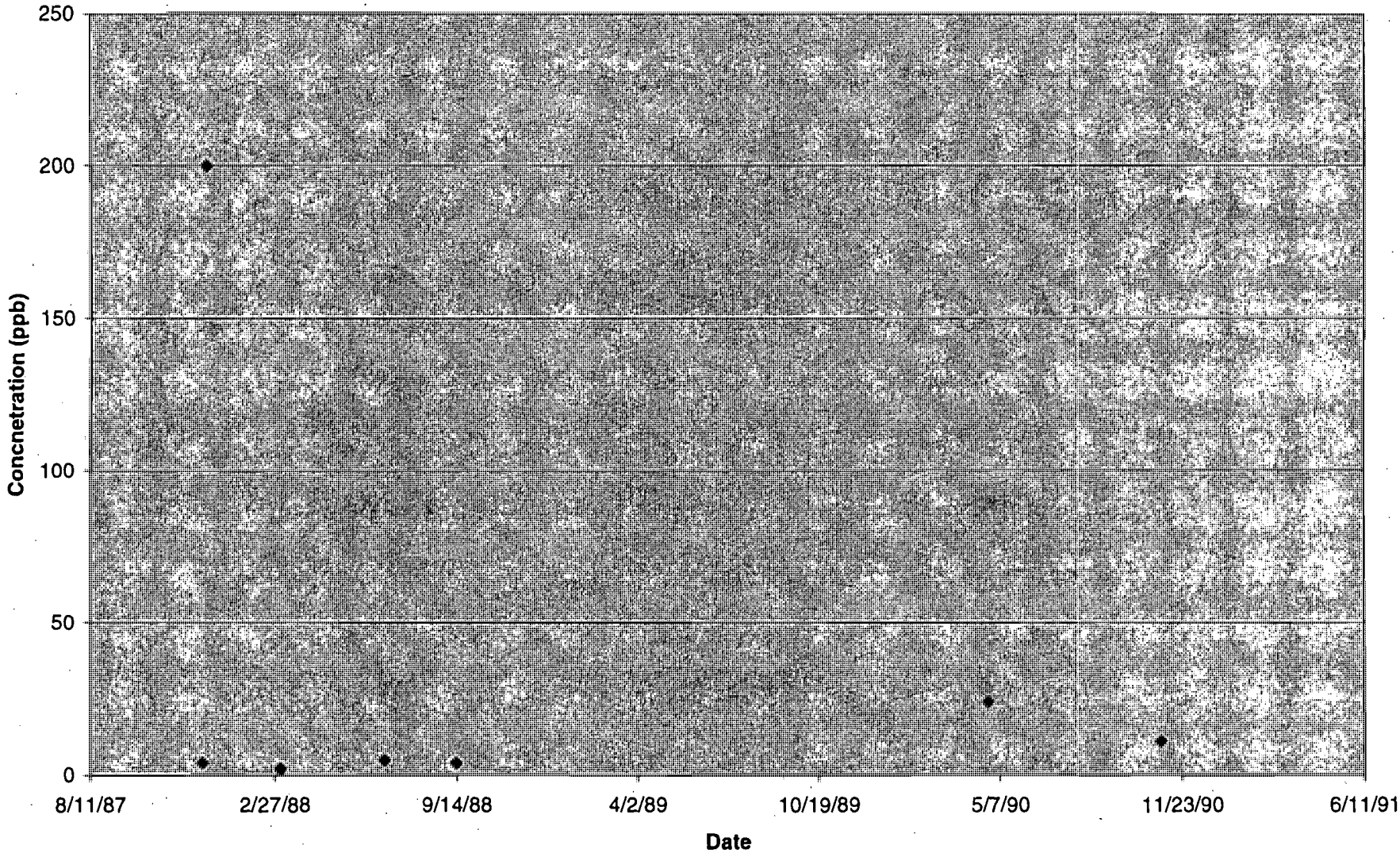


Tetrachloroethene Detections in Groundwater Monitoring Well 0154



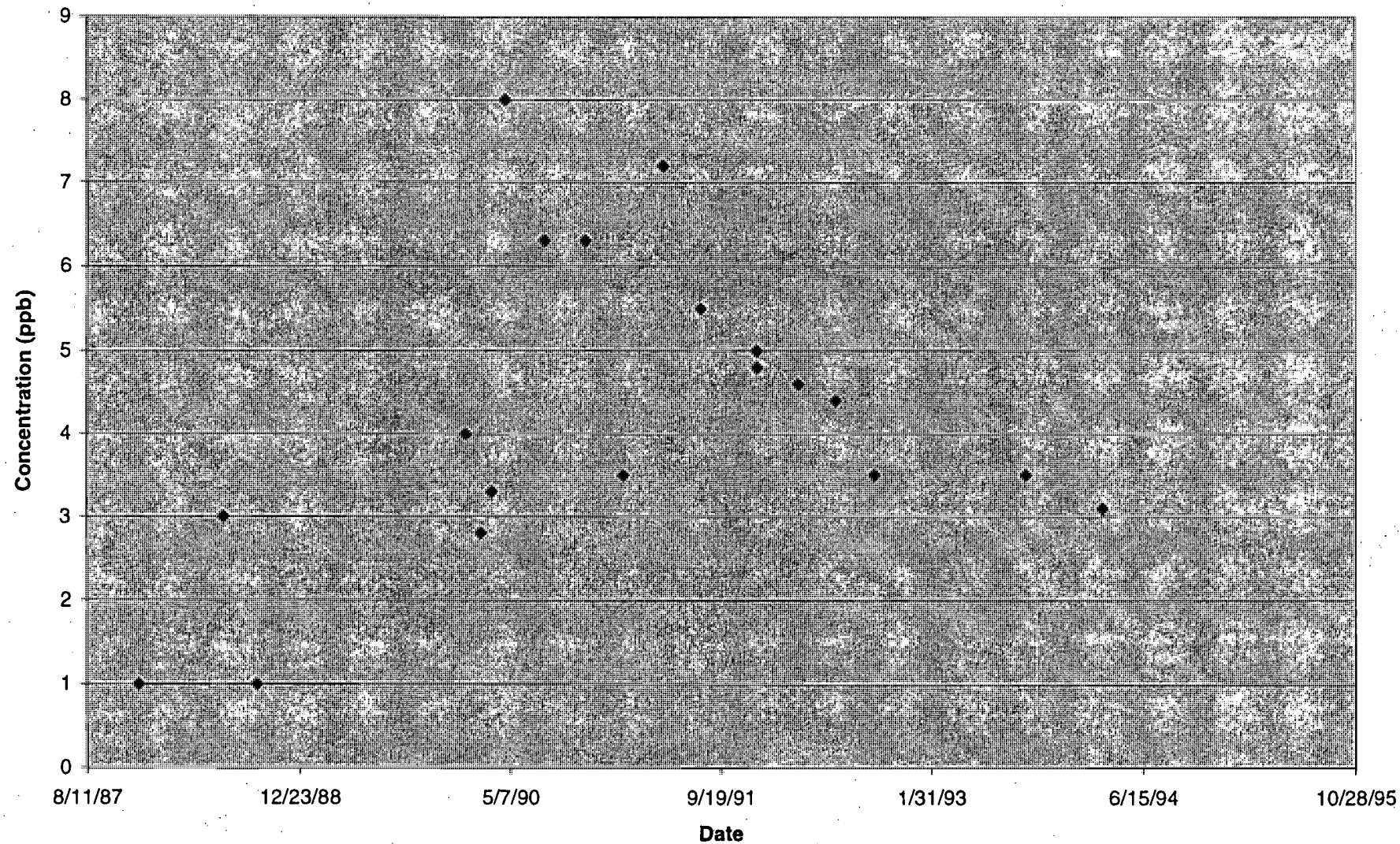
D21/64

Methylene Chloride Detections in Groundwater Monitoring Well 0155



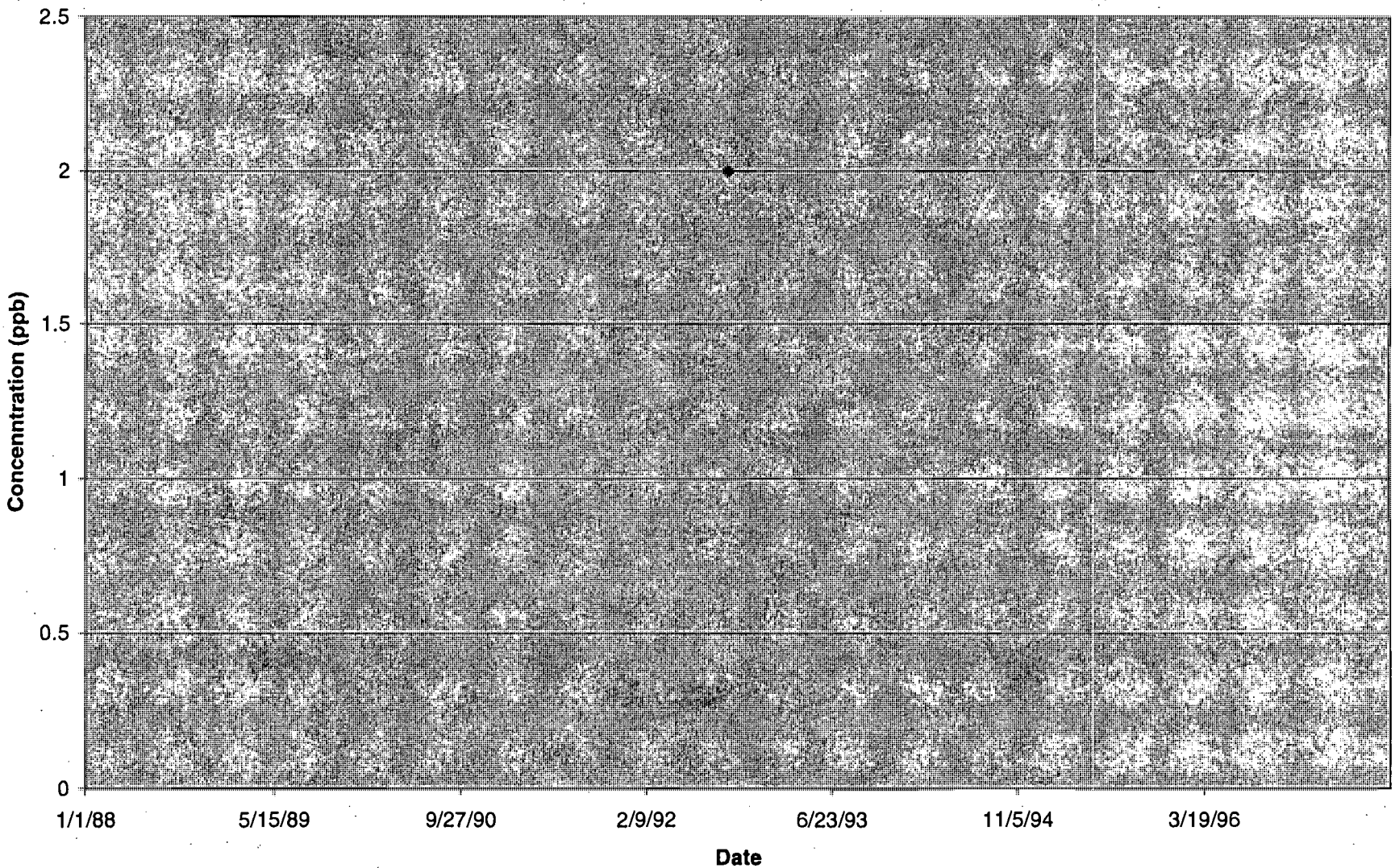
D22/64

Trichloroethene Detections in Groundwater Monitoring Well 0155



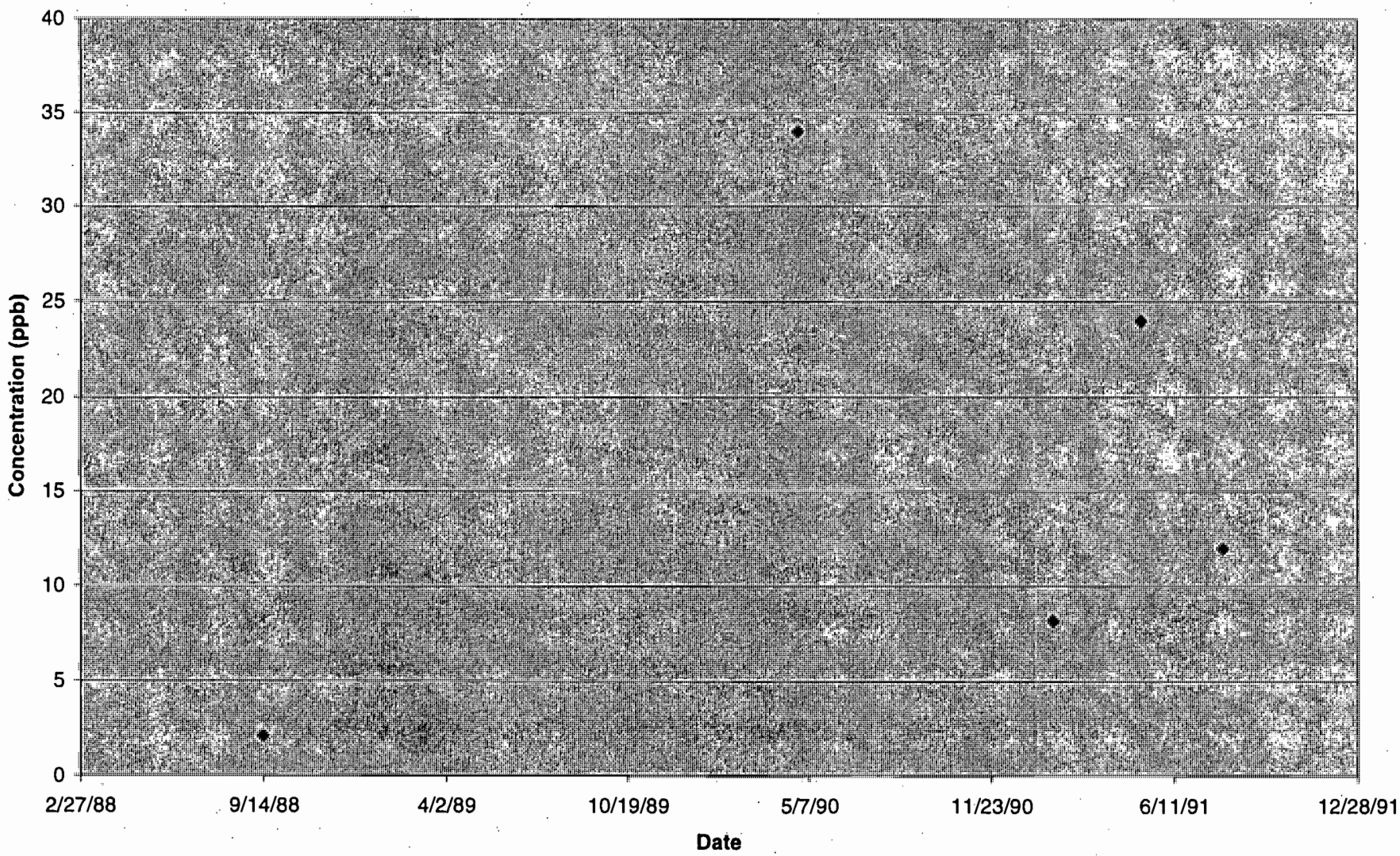
D23/64

Vinyl Chloride Detections in Groundwater Monitoring Well 0155



D24/64

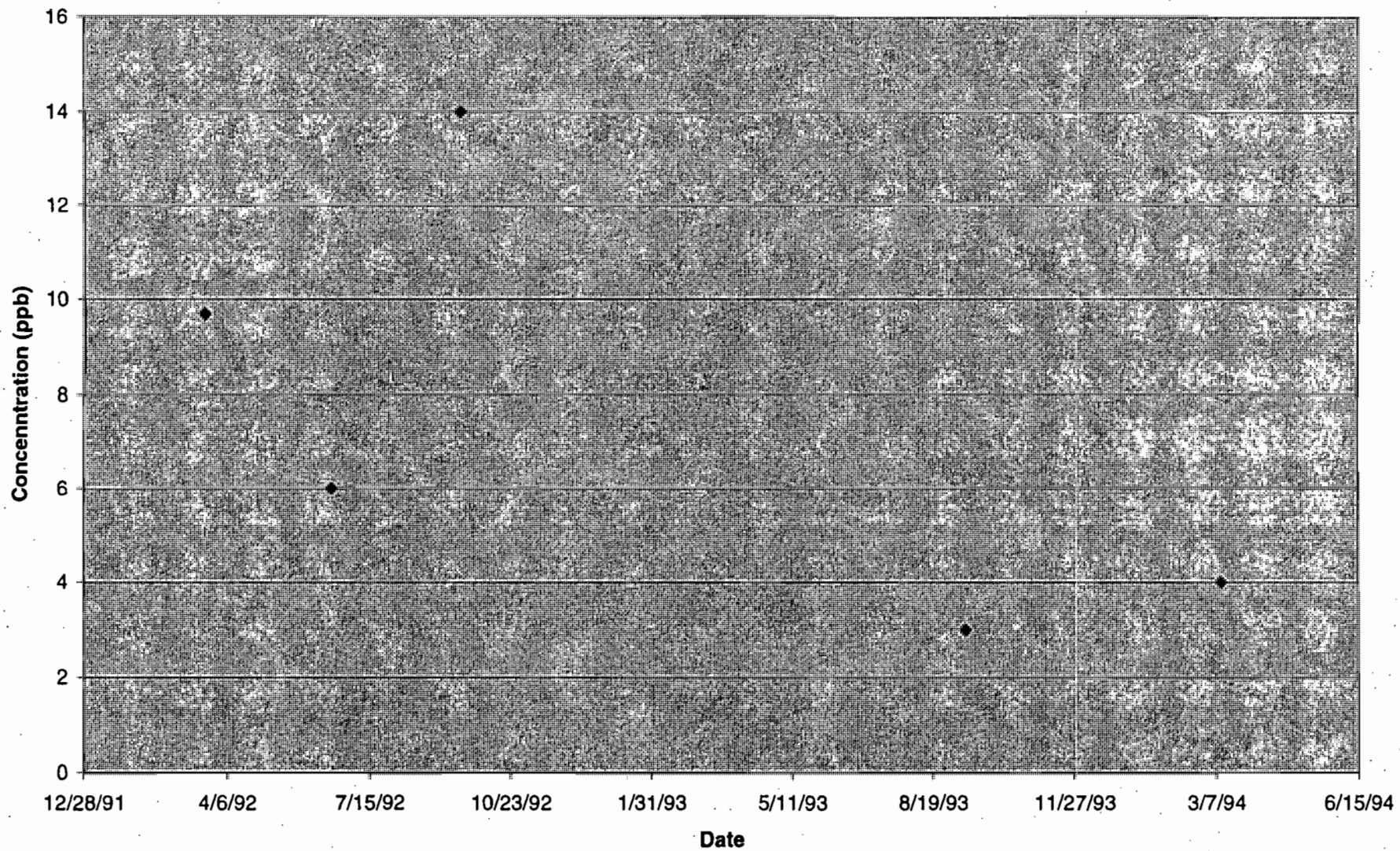
1,2-Dichloroethene Detections in Groundwater Monitoring Well 0155



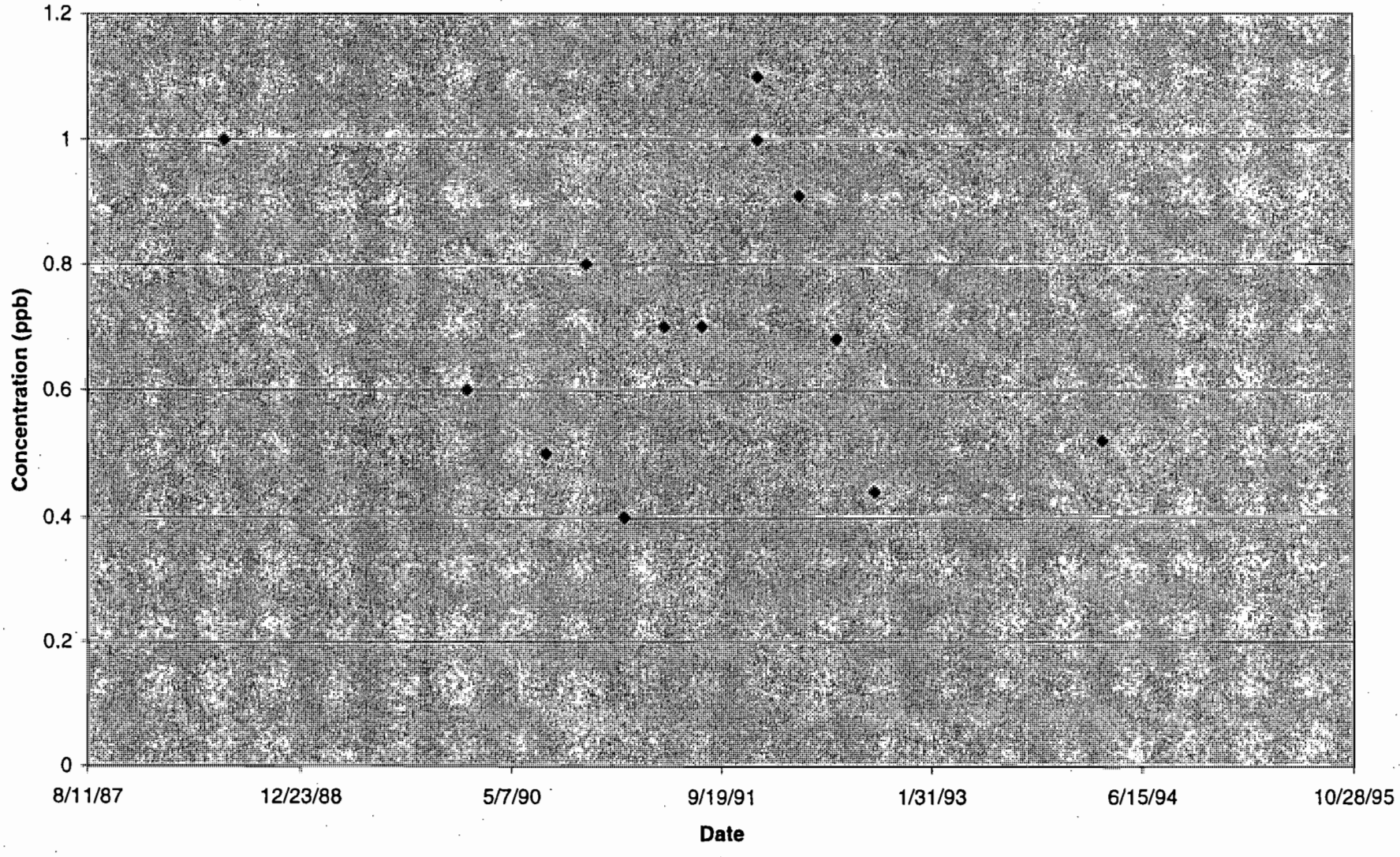
025/64

49/92d

1,2-cis-Dichloroethene Detections in Groundwater Monitoring Well 0155

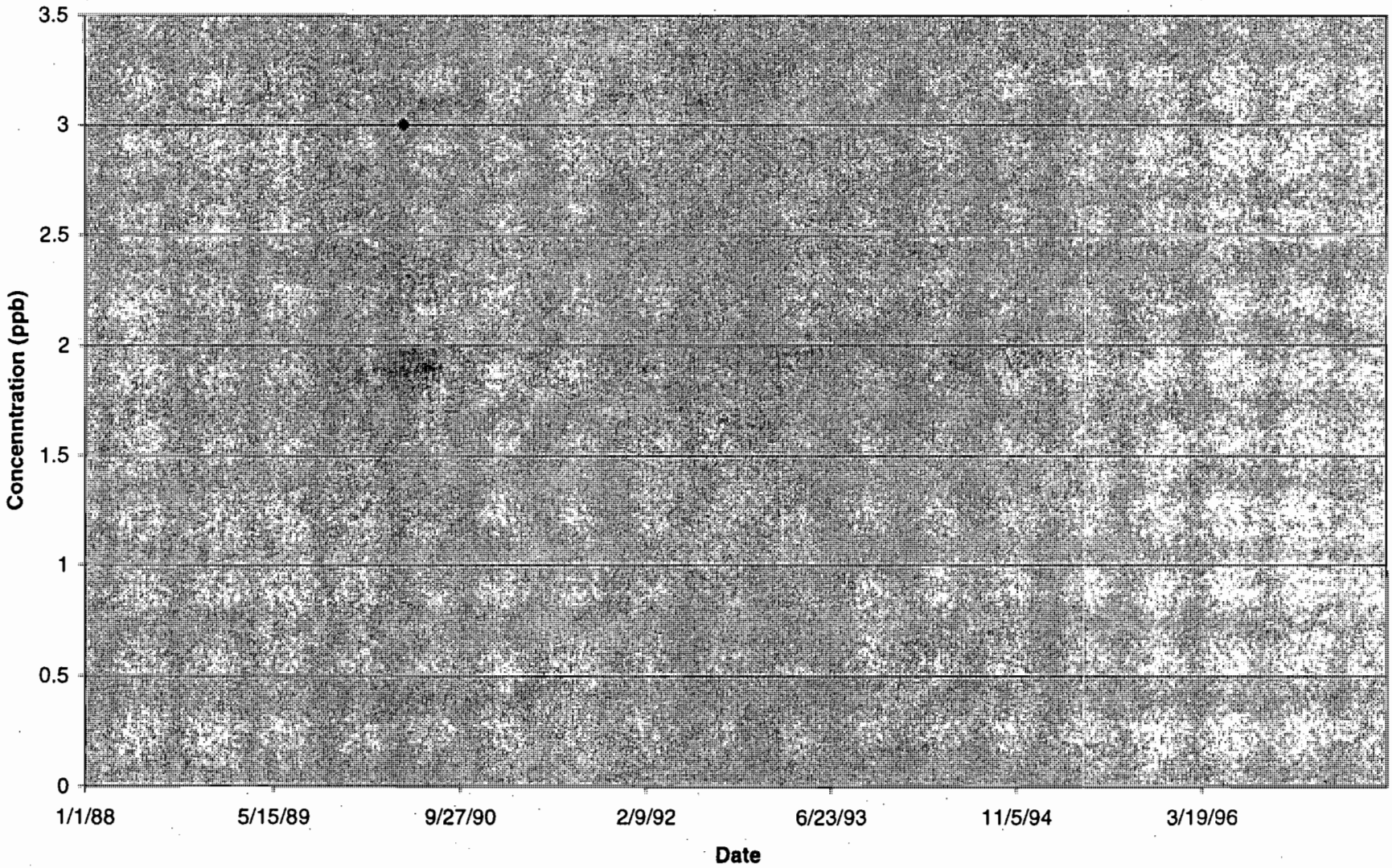


Tetrachloroethene Detections in Groundwater Monitoring Well 0155



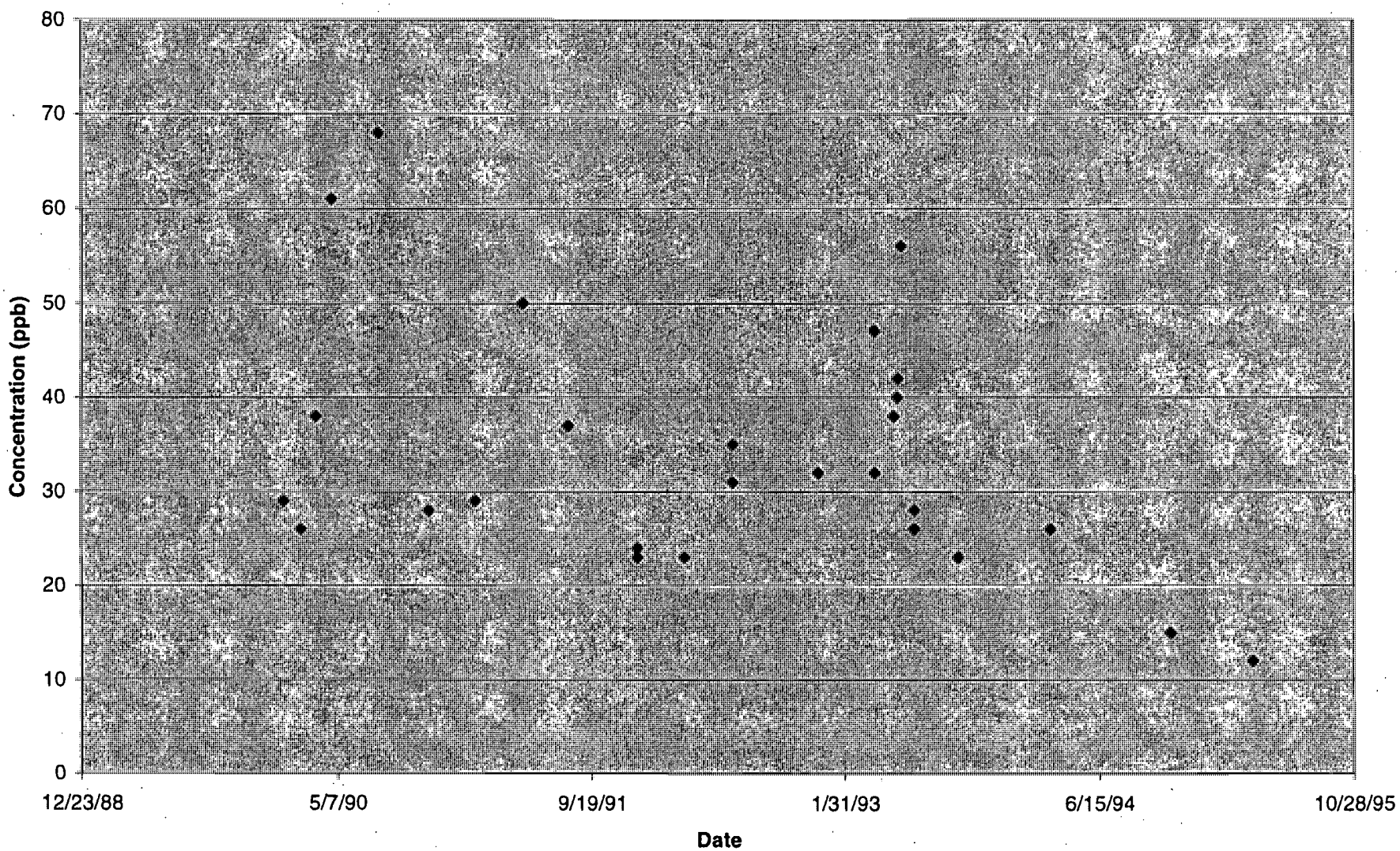
027/64

Methylene Chloride Detections in Groundwater Monitoring Well 0305



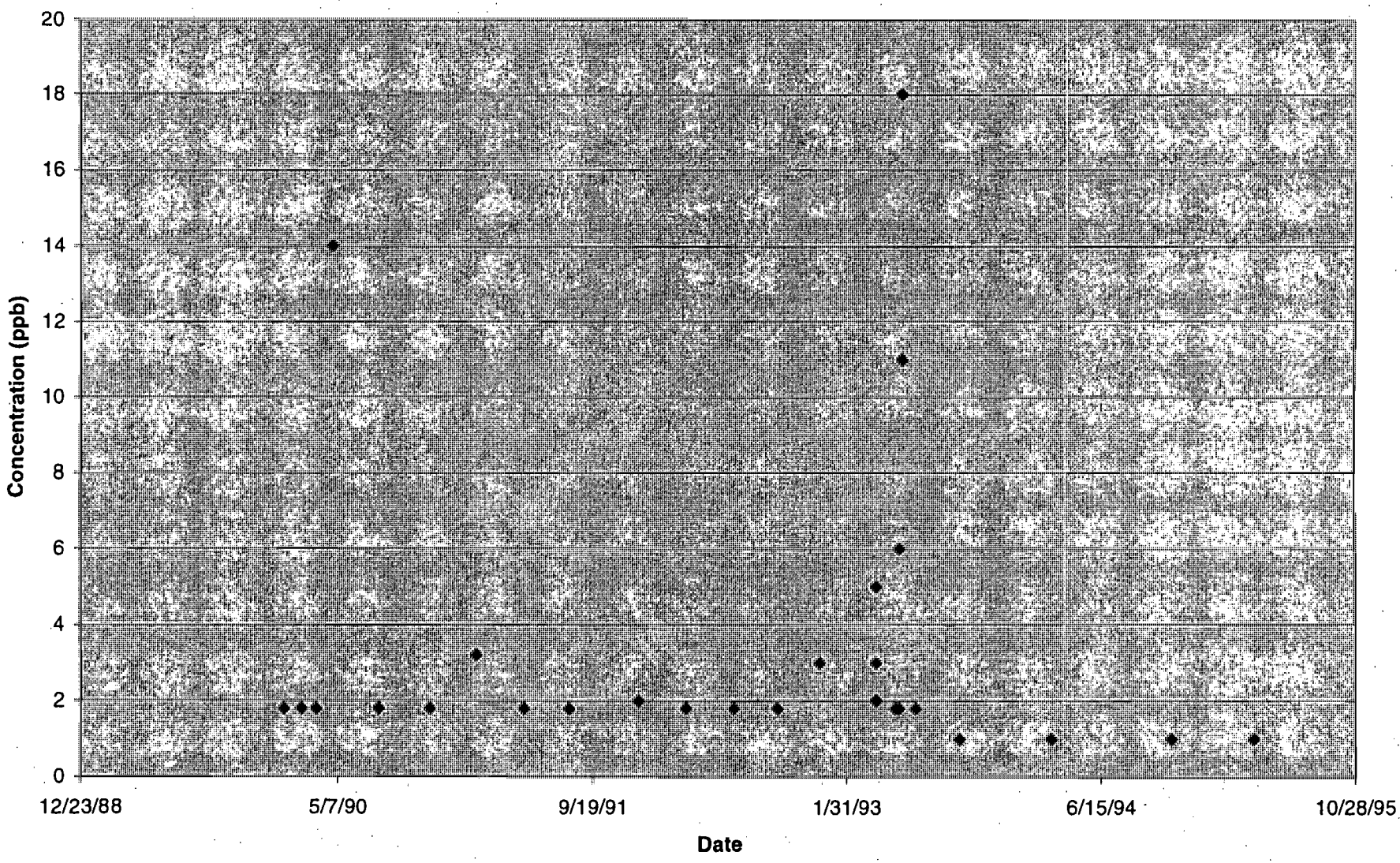
D28/64

Trichloroethene Detections in Groundwater Monitoring Well 0305



D24/64

Vinyl Chloride Detections in Groundwater Monitoring Well 0305



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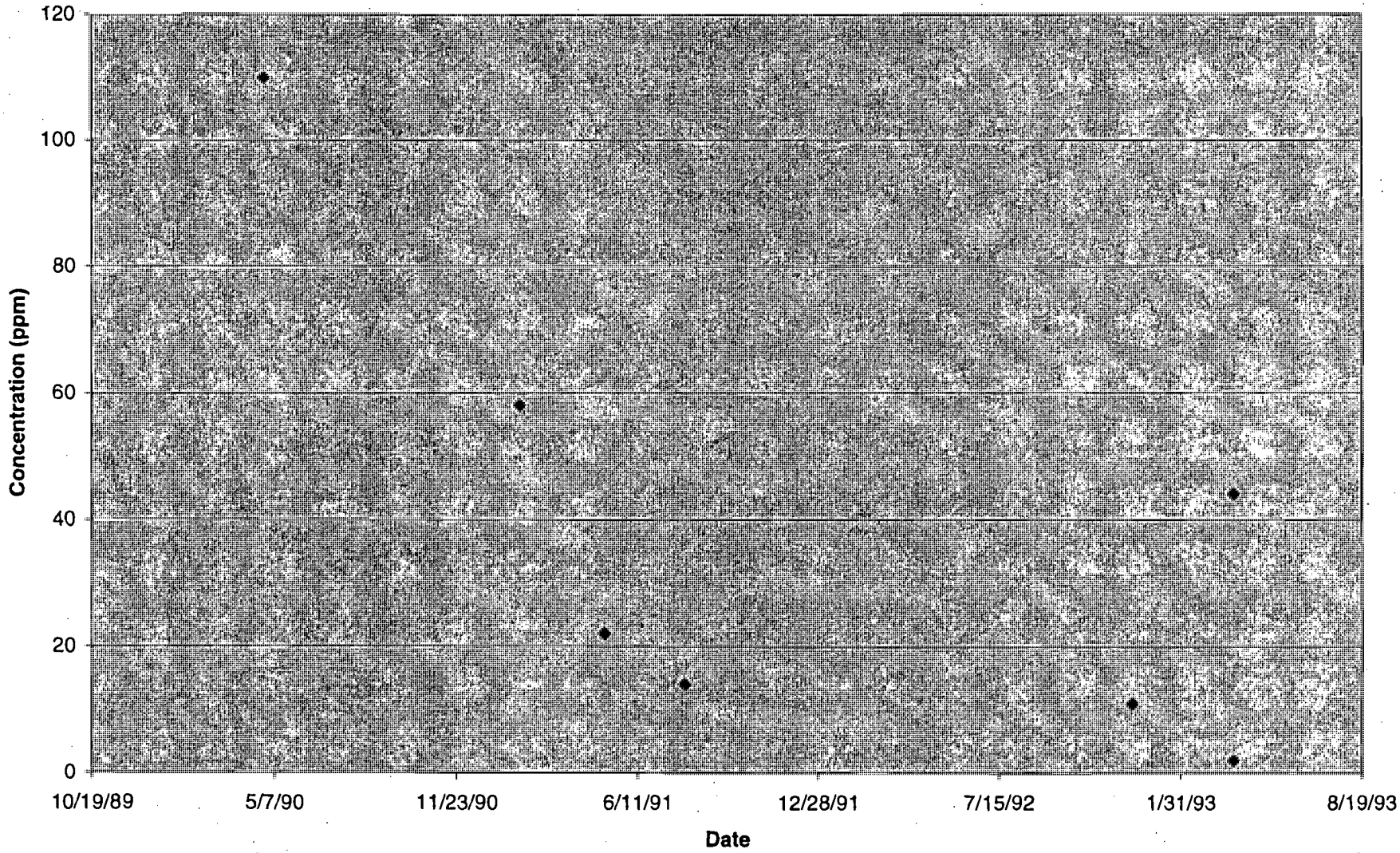
1,2-dichloroethene Detections in Groundwater Monitoring Well 0305



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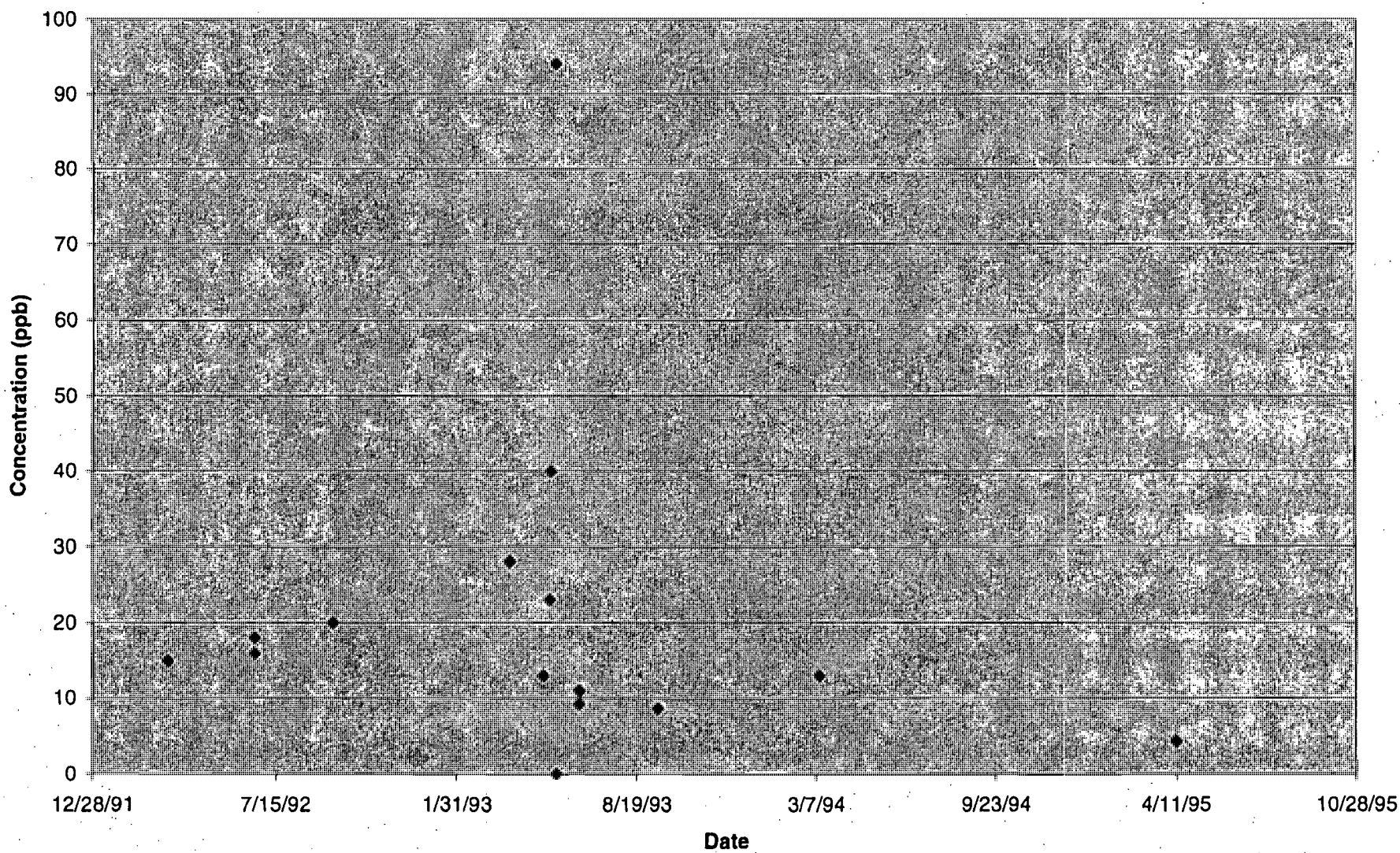
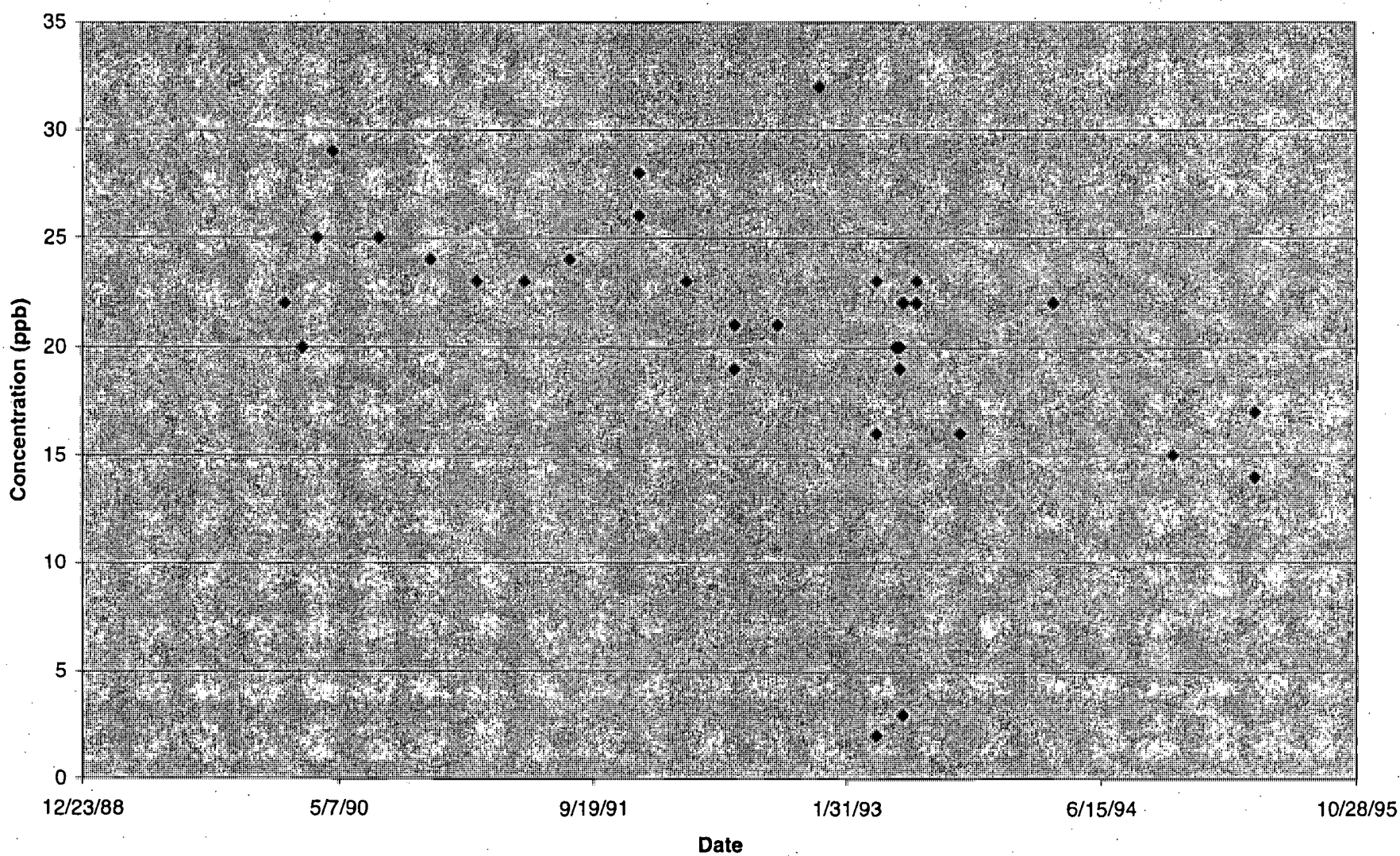


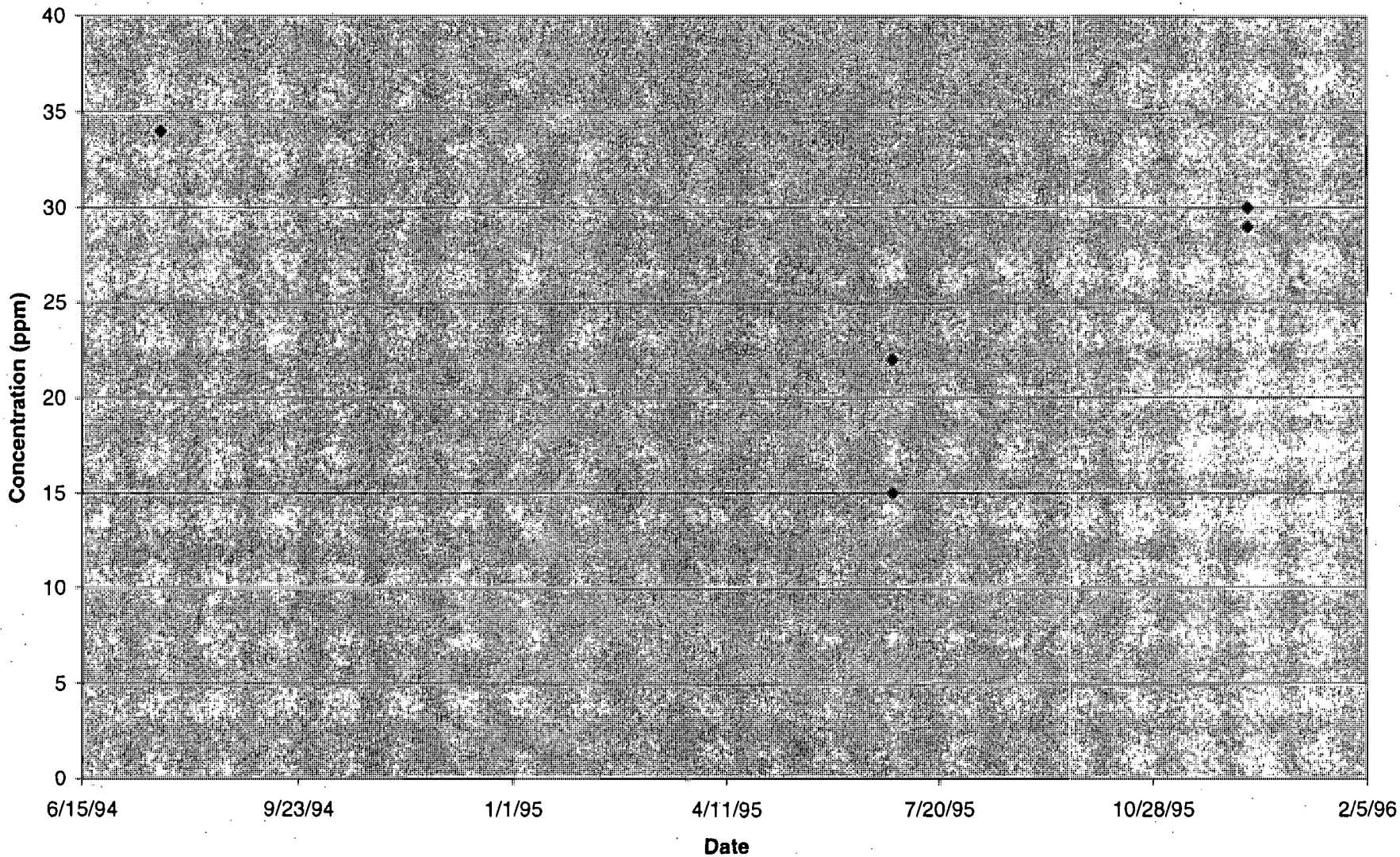
D32/64

Tetrachloroethene Detections in Groundwater Monitoring Well 0305



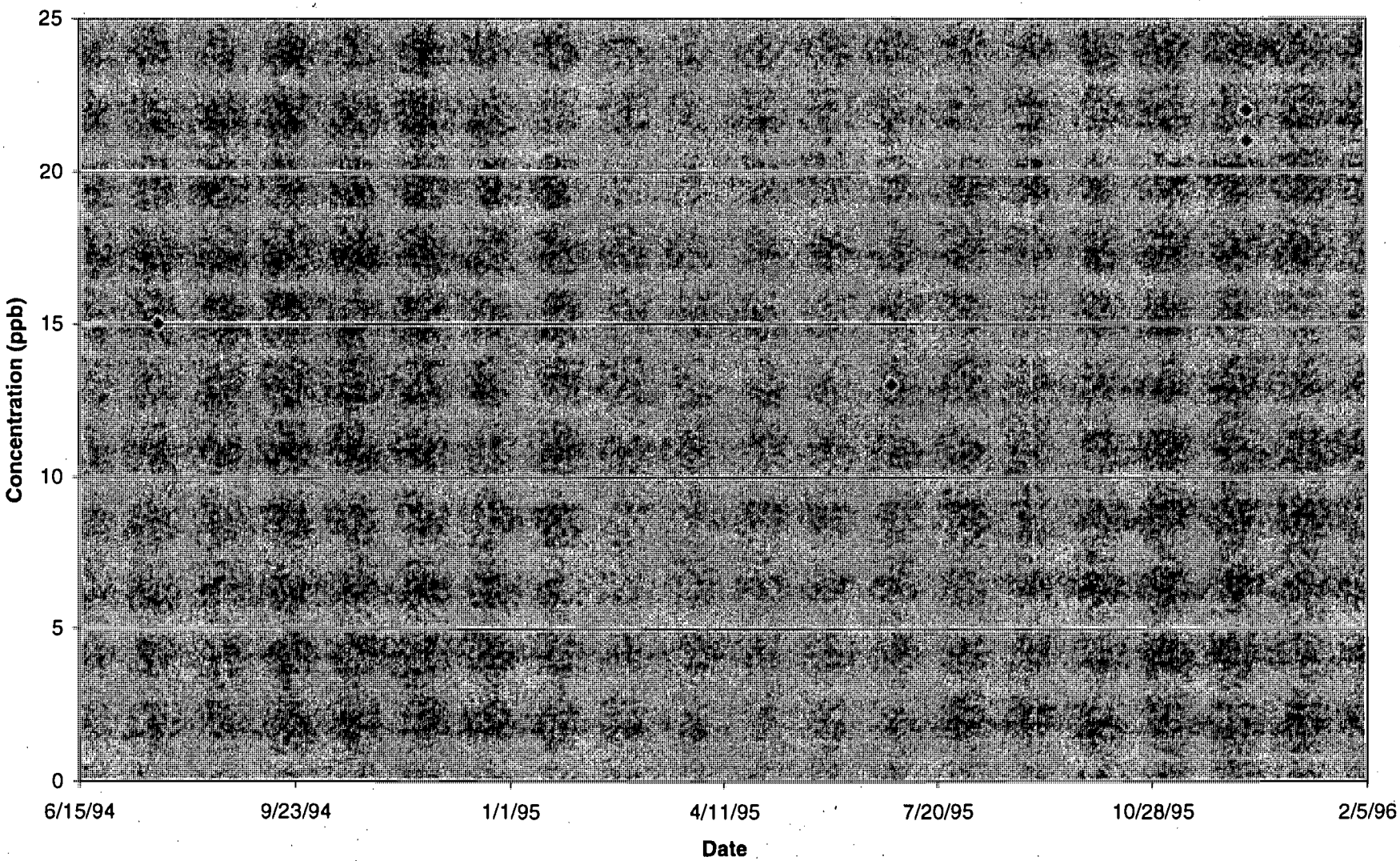
0330/64

Trichloroethene Detects in Groundwater Monitoring Well 0410



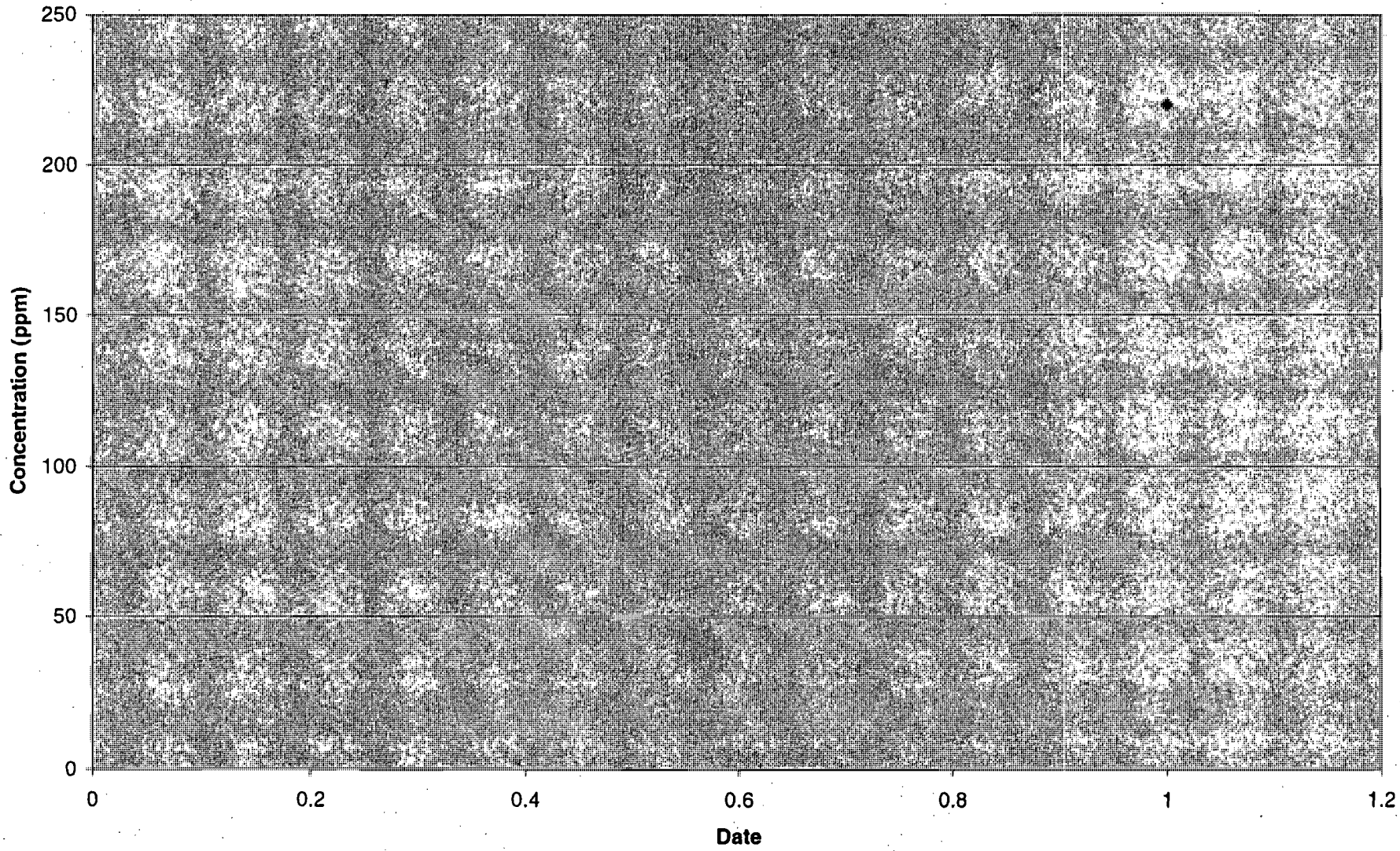
D34/64

Vinyl Chloride Detections in Groundwater Monitoring Well 0410



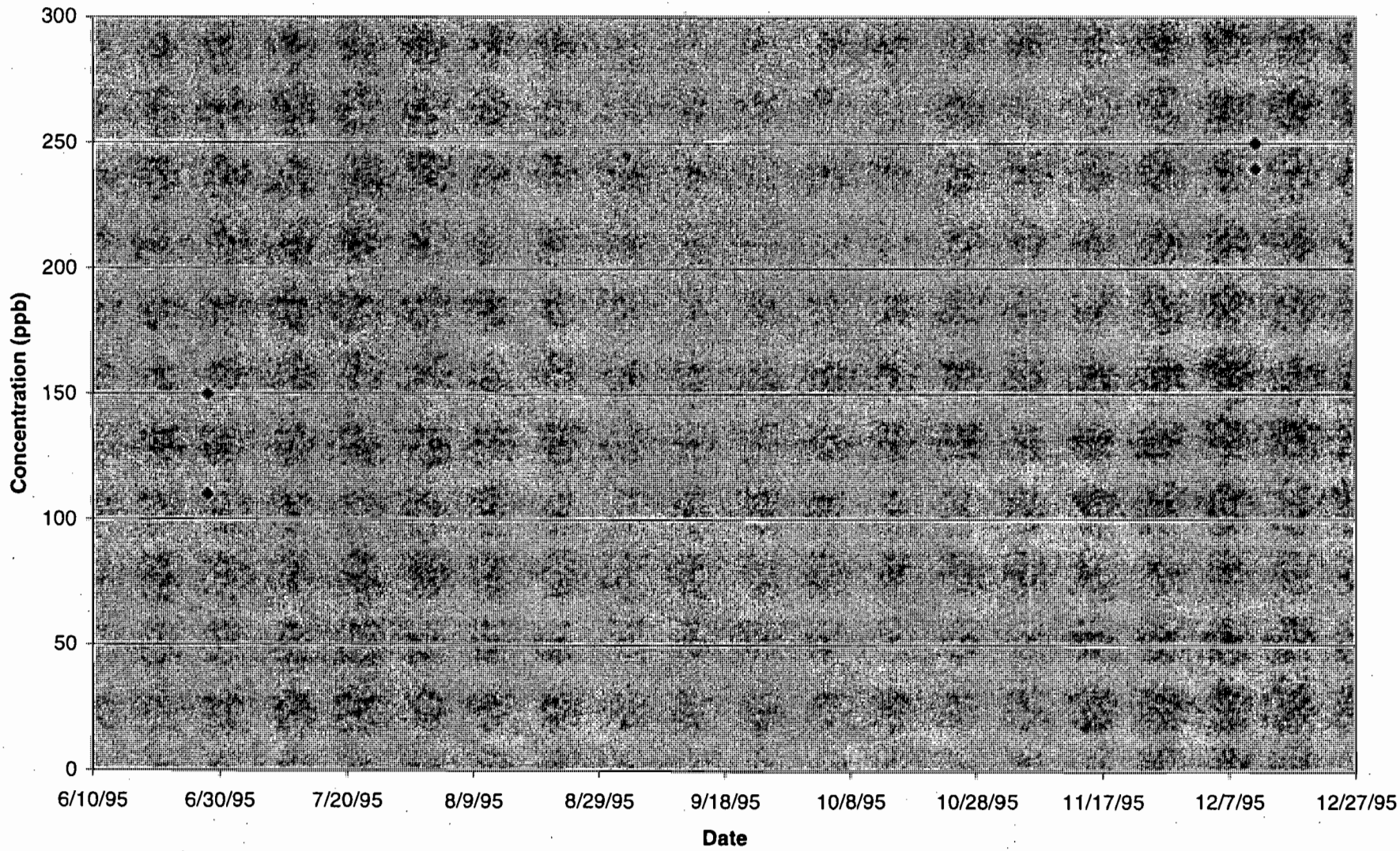
D35/64

1,2-dichloroethene Detections in Groundwater Monitoring Well 0410



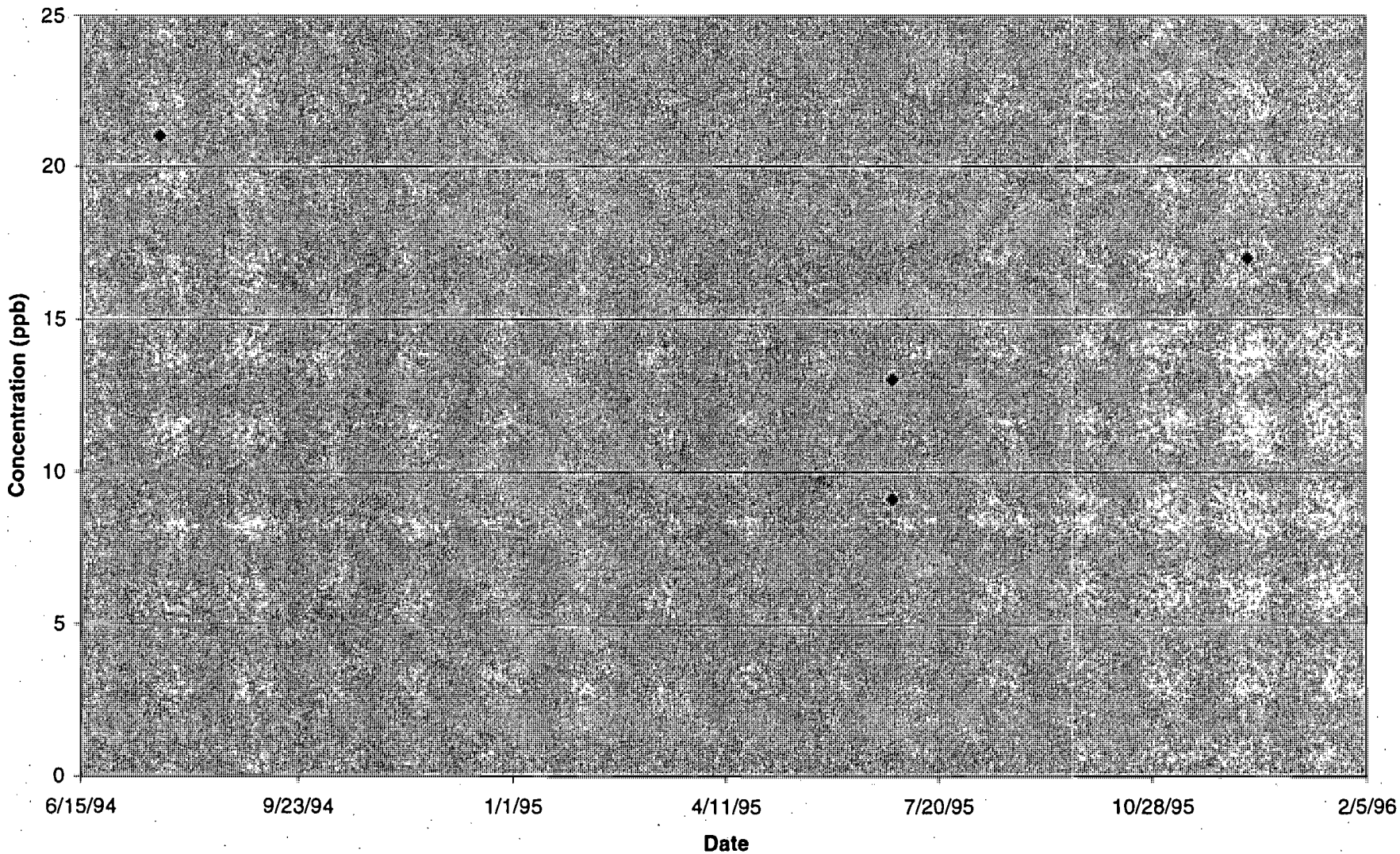
D36/64

1,2-cis-dichloroethene Detections in Groundwater Monitoring Well 0410



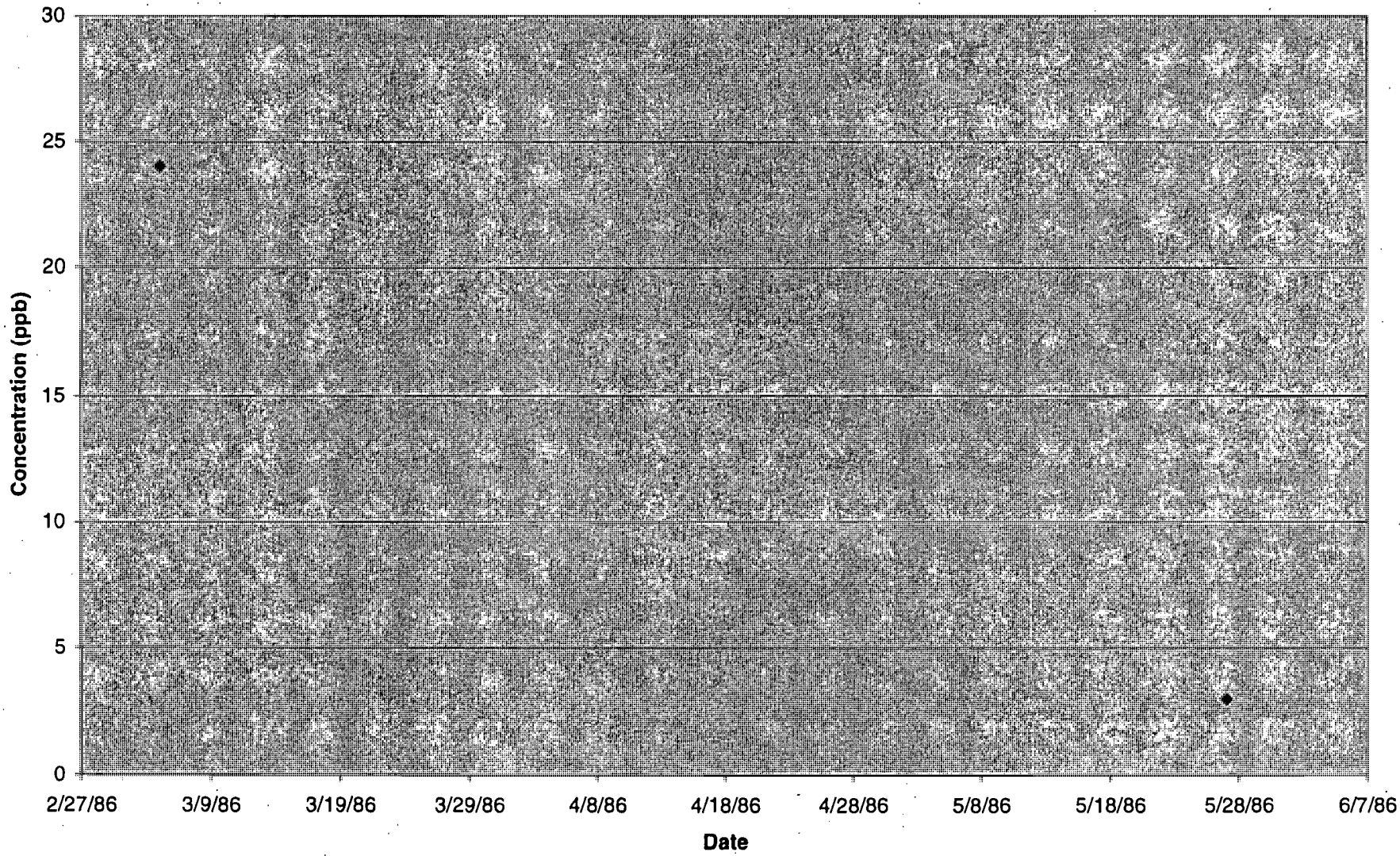
D37/64

Tetrachloroethene Detections in Groundwater Monitoring Well 0410



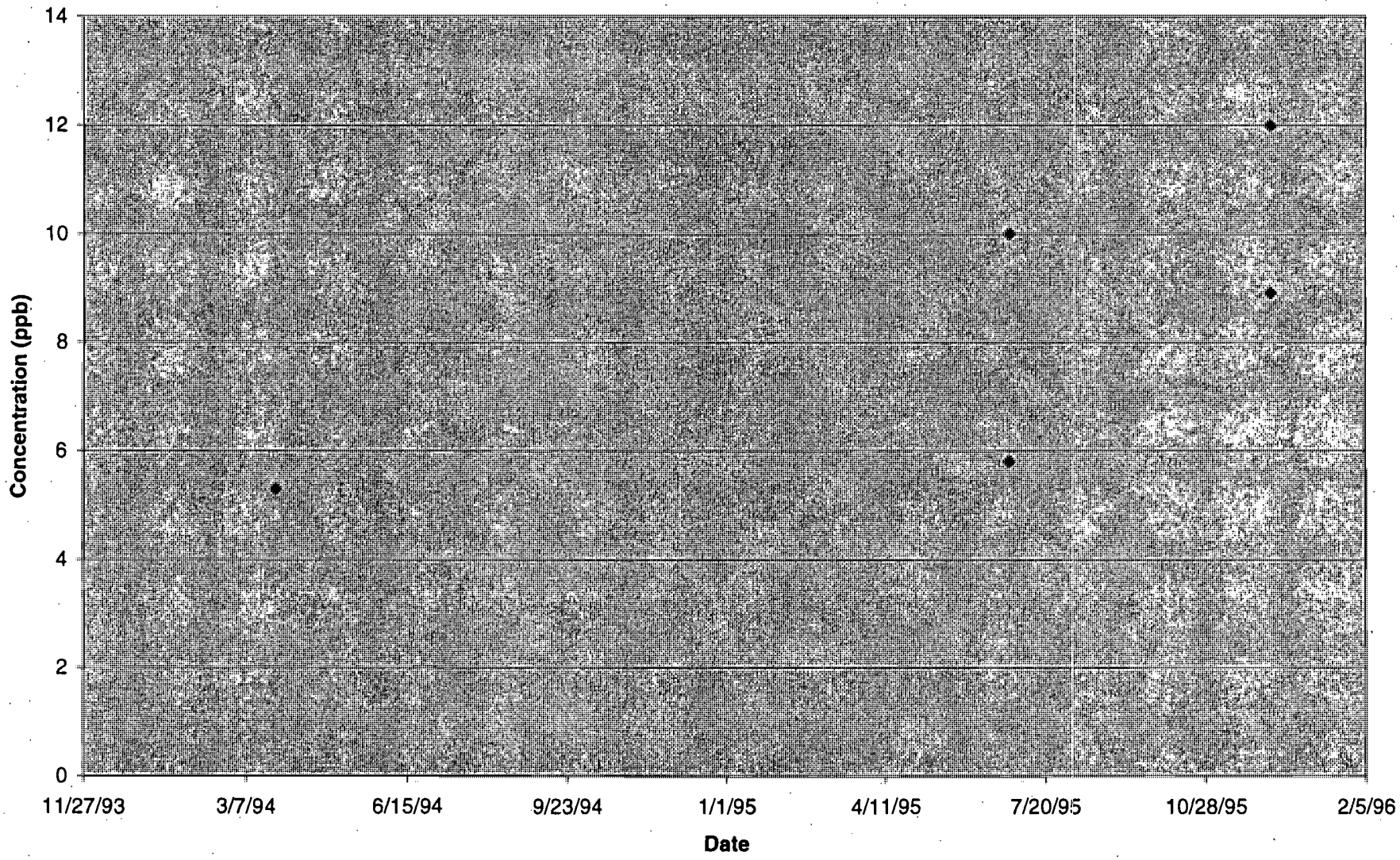
D 38/64

Methylene Chloride Detections in Well 0571



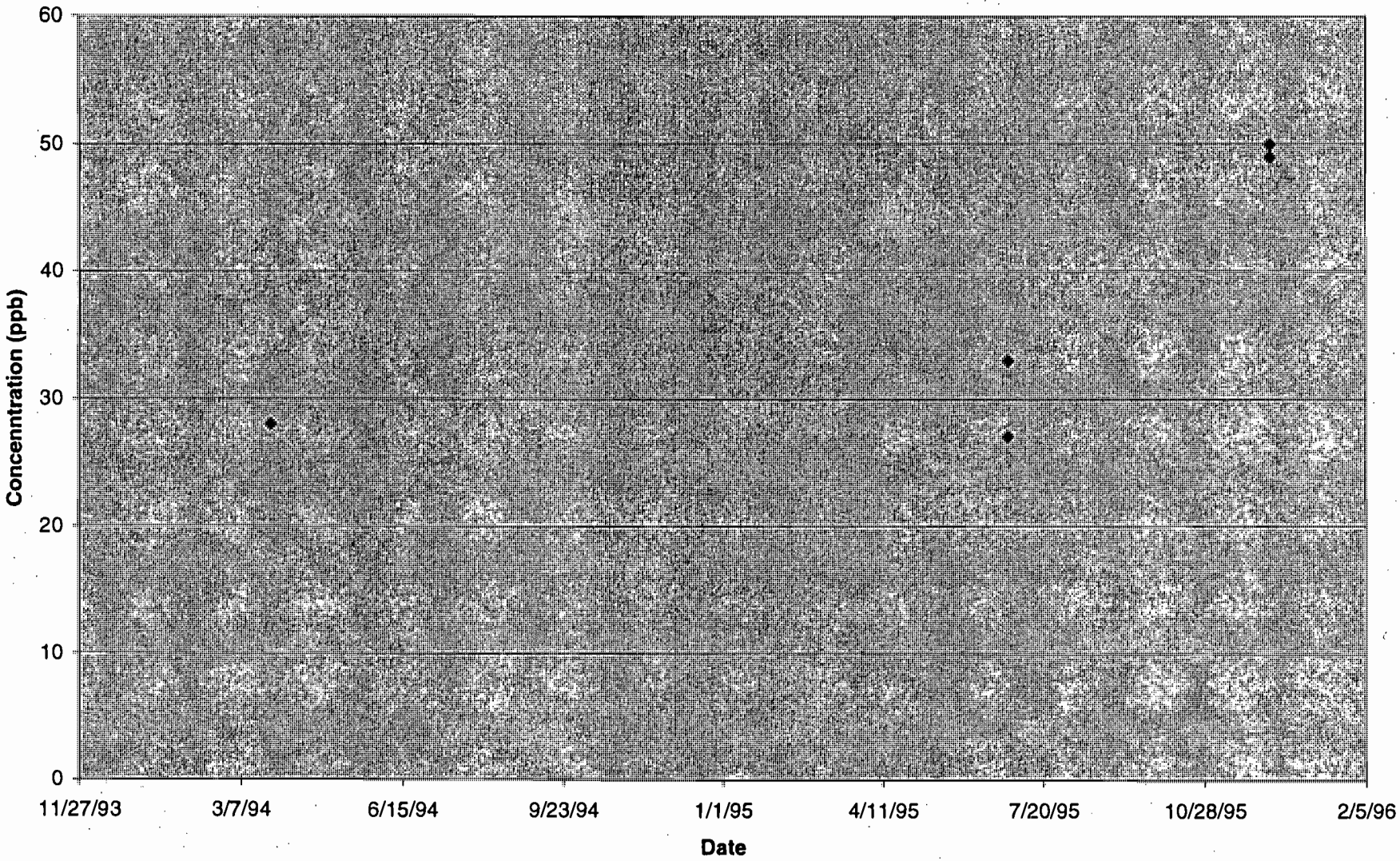
D37/64

Tetrachloroethene Detections in Groundwater Monitoring Well P015



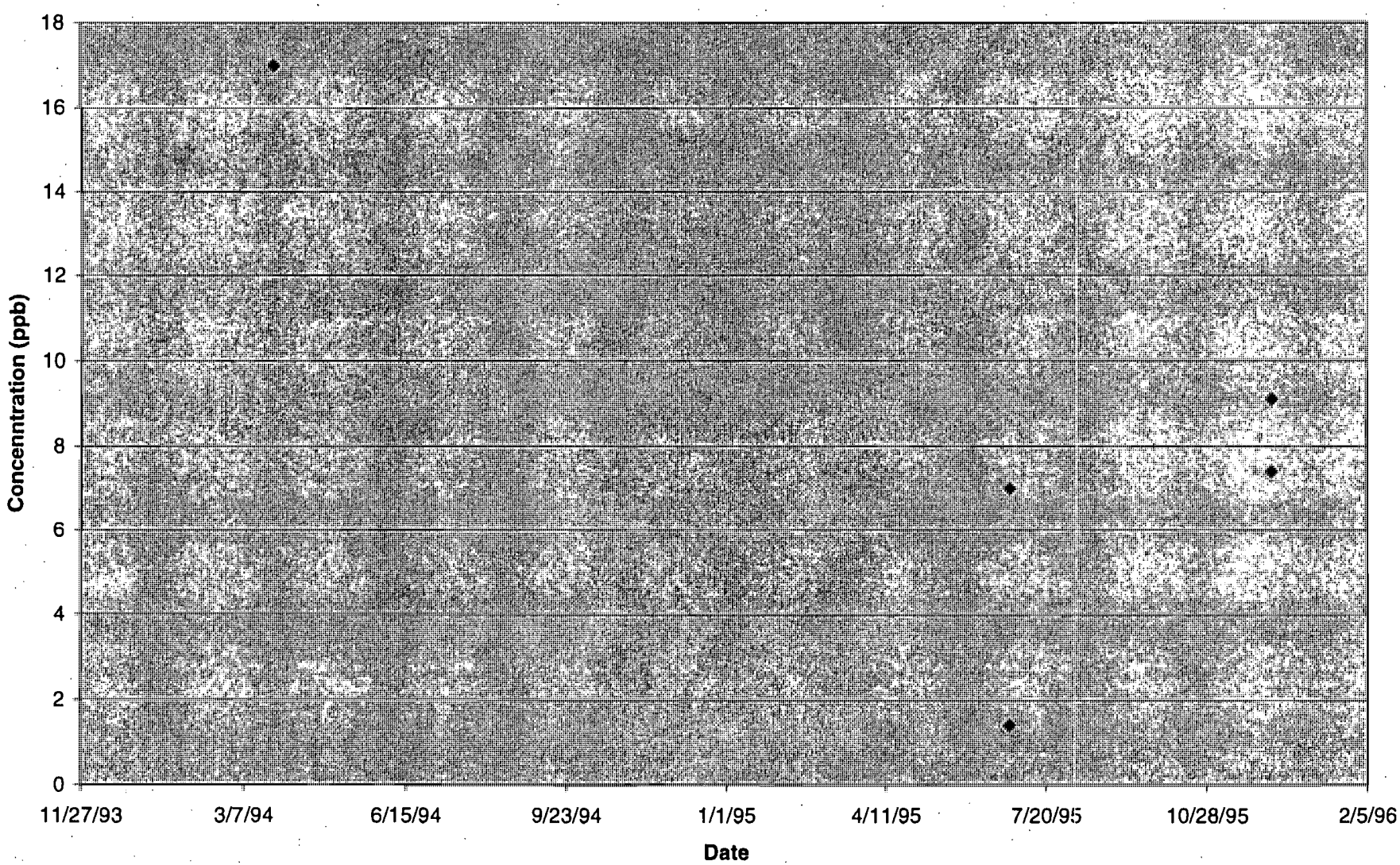
D40/64

Trichloroethene Detections in Groundwater Monitoring Well P015



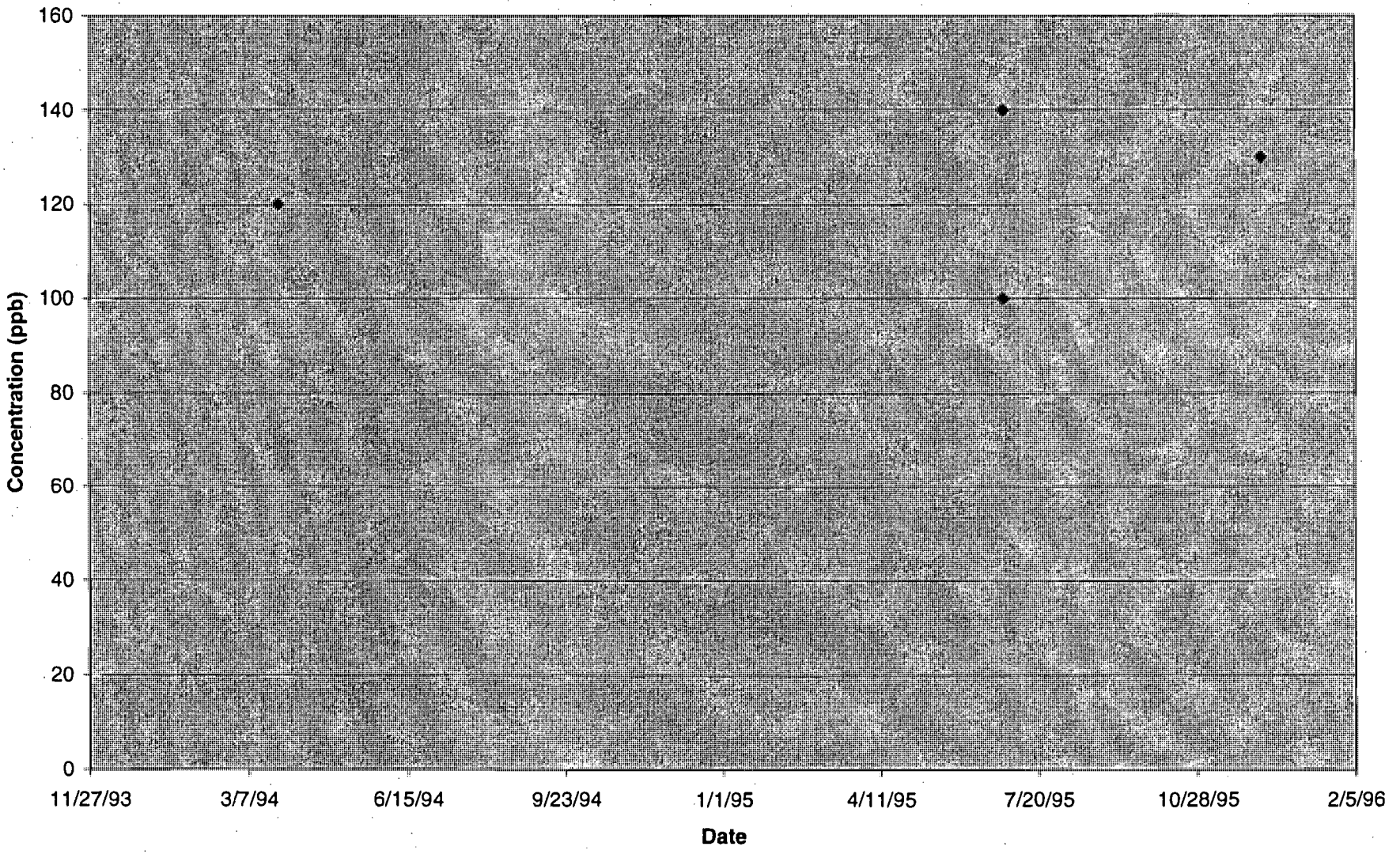
D41/64

Vinyl chloride Detections in Groundwater Monitoring Well P015



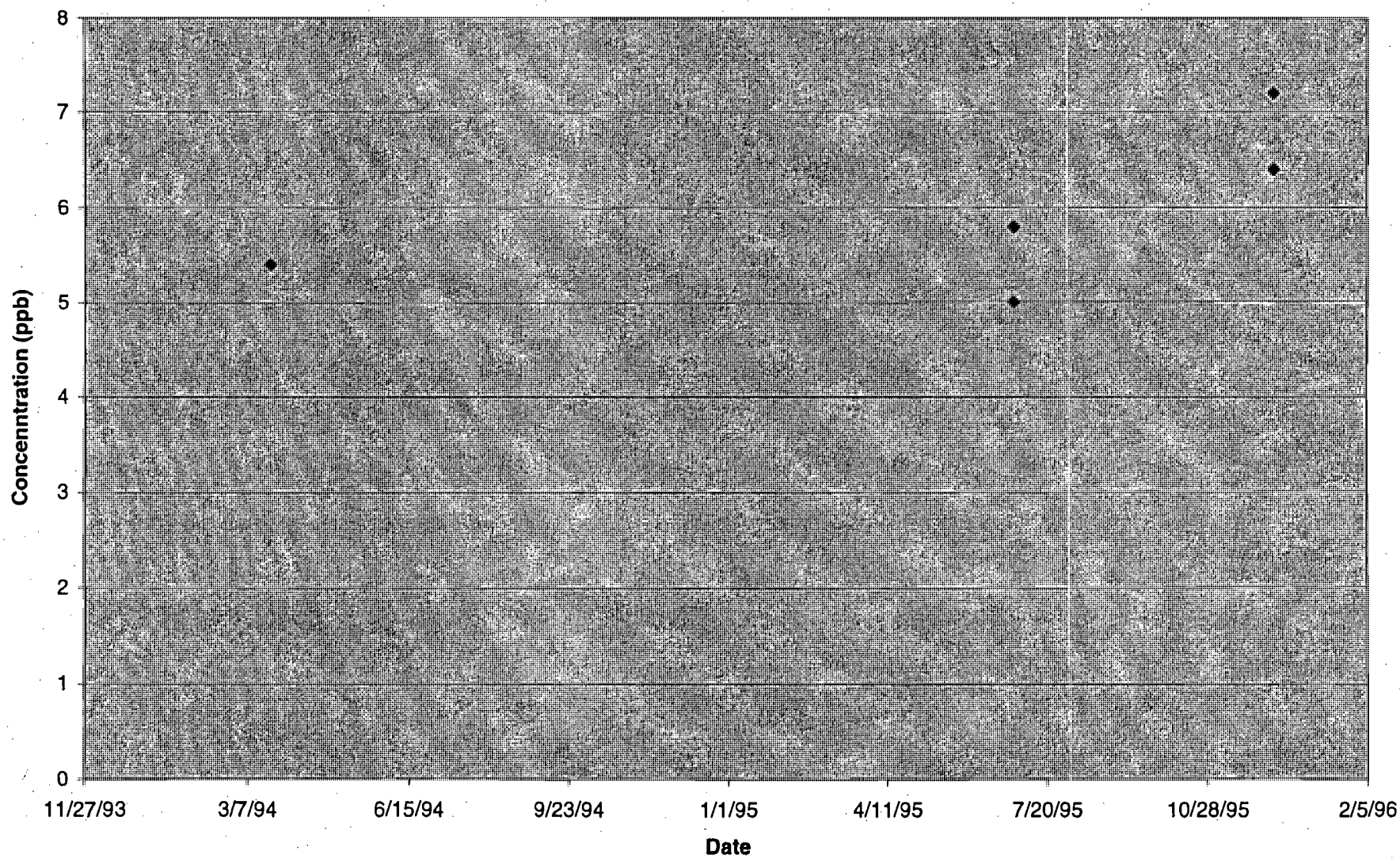
D42/64

1,2-cis-dichloroethene Detections in Groundwater Monitoring Well P015



D43/64

Trichloroethene Detections in Groundwater Monitoring Well P027



D44/64

APPENDIX 2

GEOLOGIC LOGS OF AFFECTED WELLS AND PIEZOMETERS

D45/64

GEOLOGIC LOG	MOUND PLANT	Project Manager William Little	PAGE: 1 of 3

Drilling Company	NORTH STAR DRILLING	Borehole/Well Id	P015
Drilling Method	ROTO SONIC	STATE PLANE COORDINATES	
Drilling Fluid	NONE	North (ft)	596352.10
Date Started	10/26/92	East (ft)	1495271.70
Date Completed	10/26/92	Ground Surface Elev. (ft)	734.99
Logged By	ERIC LARSEN	Top of Casing Elev. (ft)	737.52
Checked By	TOM THARP	Total Depth (ft)	57.0
Comments:	Piezometer located within the north-central portion of the spoils area, directly east of Mound production well 0071, and southeast of monitoring wells 0305/0309.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Casing: PVC, 2"			FL	0.0 to 10.0' - Dark yellowish brown (10YR 4/4) silt, clay, sand, and gravel, soft to firm, variably proportioned, occasional zones of large cobbles and boulders, dry. Fill.
				Backfill: Cement and bentonite grout				
5	O	GC	0005					
10	O	GC	0010					10.0 to 20.0' - Dark grayish brown (2.5Y 4/2) clayey silt, slightly firm, some fine to medium gravel, boulder at 13.1', moist. Fill.
	O	GC	0014					
15		GC	1014					
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	49.20	11:55	10/26/92
▼	46.92		11/24/92

WESTON

D46/64

GEOLOGIC LOG

MOUND PLANT

Project Manager: William Little

Borehole/Well Id: P015

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20	O	GC	0020	Casing: PVC, 2"			FL	20.0 to 25.0' - Dark gray (5Y 4/1) clay and silt, sticky, soft, some fine to medium gravel, minor sand, pockets of sludge, scattered wood fragments, moist. Fill.
	O	GC	0022					
				Backfill: Cement and bentonite grout				
25							TI	25.0 to 40.0' - Brown (10YR 4/3) sandy gravelly silt, soft, very fine to fine grained sand with a few very coarse grains, very fine gravel with scattered very coarse fragments, roots, minor clay content, occasional limonite/hematite staining, dry. Till.
30								
	O	GC	0034					
35								
40				Seal: Bentonite chips			GM-GP	40.0 to 50.3' - Yellowish brown (10YR 5/4 to 5/6) silty, sandy gravel, soft, very fine to very coarse grained sand, very fine to very coarse gravel, many small to medium cobbles, poorly sorted, minor pockets of clay, increasing in fine to medium gravel from 48.8' to 50.3', damp, wet at 48.0', saturated at 49.2'. Outwash.
				Filter Pack: 20/40 quartz sand				
45	O	GC	0045					

GROUNDWATER

DEPTH	HOUR	DATE
49.20	11:55	10/26/92
46.92		11/24/92

WESTON

D47/64

P

GEOLOGIC LOG

MOUND PLANT

Project Manager: William Little

Borehole/Well Id: P015

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
	O	GC	0048	Filter Pack: 20/40 quartz sand			GM-GP	
50				Screen: PVC, 2"			SP	50.3 to 53.9' - Yellowish brown (10YR 5/4) sand, loose, predominantly coarse to very coarse grained, well sorted, minor very fine to fine gravel, trace silt, trace fine to medium grained sand, saturated. Outwash.
							GM-GP	53.9 to 55.0' - Yellowish brown (10YR 5/6) silty, sandy gravel, loose, fine to very coarse grained sand, fine to very coarse gravel, many large cobbles, poorly sorted, trace clay, saturated. Outwash.
55	O	GC	0055					
	O	GC	0056	Backfill: Native sediment			SH	55.0 to 57.0' - Gray to dark gray (7.5YR 6/0 to 4/0) shale, hard, slightly fossiliferous, 10 - 20% silt, some foliation, limonite staining along partings, dry. Bedrock.
								Total Depth = 57.0'.
60								
65								
70								

GROUNDWATER

DEPTH	HOUR	DATE
49.20	11:55	10/26/92
46.92		11/24/92

D48/64

WESTON

GEOLOGIC LOG	MOUND - OU9	Project Manager GORDON HORN	PAGE: 1 of 2

Drilling Company	NORTH STAR DRILLING	Borehole/Well Id	P027
Drilling Method	ROTOSONIC DRILL	STATE PLANE COORDINATES	
Drilling Fluid	WATER	North (ft)	596249.25
Date Started	1/9/93	East (ft)	1495078.43
Date Completed	1/9/93	Ground Surface Elev. (ft)	703.39
Logged By	DALE FLORES	Top of Casing Elev. (ft)	705.72
Checked By	PAUL DARR	Total Depth (ft)	40.0
Comments:	South of Area B landfill.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Casing: PVC, 2"			TS	0.0 to 1.5' - Brown gravelly clay, root structures. Topsoil.
							FL	1.5 to 5.0' - Dark brown to olive brown gravelly clay, fine to coarse gravels, dense, moist. Fill.
				Backfill: Cement - bentonite grout				
5							CL	5.0 to 6.5' - Greenish brown clay, trace gravel, root structures, probable buried soil horizon.
							GP	6.5 to 15.0' - Light brown sandy gravel, trace clay, rounded, poorly sorted. Outwash.
10								
15								15.0 to 17.0' - Light brown sandy gravel, trace silt, pieces of angular limestone, rounded, poorly sorted. Outwash.
							TI	17.0 to 20.0' - Yellowish brown silty clay, fine to coarse sand, gravel to 2", high plasticity, very stiff. Till.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▼	22.30	09:55	02/06/93
▼	24.71	09:57	05/19/93

WESTON

D49/64

GEOLOGIC LOG

MOUND - OU9

Project Manager: GORDON HORN

Borehole/Well Id: P027

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20							SP	20.0 to 25.0' - Brown to yellowish brown gravelly sand, fine to coarse sand, gravel to 2", trace cobble, trace clay, moist to wet.
25				Seal: 1/4" Bentonite chips			SP	25.0 to 27.0' - Brown sand, fine to medium sand with trace gravel and cobbles, saturated zone.
				Filter Pack: 10/20 Colorado silica sand			SP	27.0 to 28.0' - Yellowish brown gravelly sand, gravel to 3", fine to coarse sand, fine and coarse gravel, saturated, major water bearing zone.
							SP	28.0 to 30.0' - Brown sand, fine to medium sand with occasional gravel and cobbles, saturated zone.
30				Screen: PVC, 2", slot # 10			ML	30.0 to 32.0' - Brown silt, some clay, fine grained sand, very stiff has 2" medium grained sand zone within unit, major water bearing zone.
							ML	32.0 to 33.0' - Gray sandy silt with organics, trace clay. 33.0 to 34.0' - Yellowish brown sandy silt with organics, trace clay.
35				Backfill: Collapsed borehole material			SP	34.0 to 35.0' - Light brown gravelly sand, fine to coarse sand, fine to coarse gravel, gravel to 3 inches, saturated.
40								Total Depth = 40.0'.
45								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	22.30	09:55	02/06/93
▼	24.71	09:57	05/19/93

WESTON

D50 /64

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Drilling Company	Bowser Morner	Borehole/Well Id	0154
Drilling Method	Cable Tool	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596418.78
Date Started	10/3/87	East (ft)	1494969.47
Date Completed	10/4/87	Ground Surface Elev. (ft)	702.90
Logged By	Lyn Lawlor	Top of Casing Elev. (ft)	704.22
Checked By	Tom Tharp	Total Depth (ft)	53.5

Comments:

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				BACKFILL: Cement and bentonite grout. CASING: Stainless steel, 4".			SP	Light brown gravelly sand, medium grained, poorly graded, subrounded, dry, weakly cemented, approximately 30% gravel, HNU = 0
5	SS	LI	0001				CL	Brown to red gravelly, silty clay, moist, stiff, homogeneous, high plasticity, approximately 25% gravel, HNU = 0
10	SS	LI	0002				CL	Dark brown gravelly, silty clay, moist, stiff, homogeneous, approximately 25% gravel, HNU = 0.
15	SS	LI	0003				SP	Light brown to brown gravelly sand, coarse grained, weakly cemented, wet, nonstratified, approximately 40% gravel, HNU = 0.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	27.88	16:35	10/13/87
▼	28.66	16:30	12/10/87

WESTON

DS1/64

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Borehole/Well Id: 0154

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20				BACKFILL: Cement and bentonite grout.				
	SS	LI	0004				SP	Light brown gravelly sand, coarse grained, wet, poorly graded, medium cementation, approximately 30% gravel, subrounded, HNU = 0.
25				CASING: Stainless steel, 4".				
	SS	LI	0005				GP	Light brown sandy gravel, coarse grained, moist, weak cementation, approximately 60% gray limestone and light gray shale fragments, subangular, HNU = 0.
30								
	SS	LI	0006	SEAL: Bentonite pellets.			GM	Light brown silty, sandy gravel, moist, weak cementation, approximately 60% gray to brown gravel, HNU = 0.
35								
	SS	LI	0007				GP	Dark brown sandy gravel, medium grained, poorly graded, nonstratified, wet, approximately 60% gravel, subrounded, HNU = 0.
40				FILTER PACK: #4 quartz sand.				
45				SCREEN: Stainless steel, 4".				

GROUNDWATER

	DEPTH	HOUR	DATE
▽	27.88	16:35	10/13/87
▼	28.66	16:30	12/10/87

WESTON

D52/64

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Borehole/Well Id 0154

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
	SS	LI	0008				CL	Dark gray silty, gravelly clay, moist, very stiff, homogeneous, approximately 20% gravel, HNU = 0.
50								
	SS	LI	0009				LS	Limestone.
								Total Depth = 53.5 feet.
55								
60								
65								
70								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	27.88	16:35	10/13/87
▼	28.66	16:30	12/10/87

WESTON

D53/64

GEOLOGIC LOG	MOUND PLANT	Project Manager John B. Price	PAGE: 1 of 2

Drilling Company	Bowser Morner	Borehole/Well Id	0155
Drilling Method	Cable Tool	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596407.73
Date Started	10/5/87	East (ft)	1494971.57
Date Completed	10/5/87	Ground Surface Elev. (ft)	702.80
Logged By	Lyn Lawlor	Top of Casing Elev. (ft)	704.28
Checked By	Tom Tharp	Total Depth (ft)	32.7

Comments:

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0							SP	Gray to brown gravelly sand, coarse grained, poorly graded, dry, unconsolidated, approximately 30% gravel up to 1 inch in diameter, subrounded, HNU=0.
				BACKFILL: Cement and bentonite grout.				
5				CASING: Stainless steel, 4".				
	SS	LI	0001				GP	Light brown to gray sandy gravel, coarse grained, poorly graded, moist, nonstratified, firm; medium plasticity, approximately 60% gravel up to 1 1/2 inches in diameter, subrounded, HNU=0.
10								
	SS	LI	0002				GM	Gray to light brown silty, sandy gravel, coarse grained, poorly graded, moist, nonstratified, noncemented, approximately 60% gravel, subrounded, HNU=0.
15				SEAL: Bentonite pellets.				
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	28.07	16:32	10/13/87
▼	28.92	14:18	12/10/87

WESTON

D54/64

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Borehole/Well Id 0155

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20								
	SS	LI	0003				SP	Light brown sand, medium grained, homogeneous, moist to wet, firm, nonstratified.
25				SCREEN: Stainless steel, 4".				
	SS	LI	0004				SW	Light brown gravelly sand, coarse grained, wet, nonstratified, well graded, firm, approximately 30% gravel, subrounded, HNU = 0.
30				FILTER PACK: #4 quartz sand.				
	SS	LI	0005					
								Total Depth = 32.7 feet.
35								
40								
45								

GROUNDWATER

DEPTH	HOUR	DATE
28.07	16:32	10/13/87
28.92	14:18	12/10/87

WESTON

DSS/64

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Drilling Company	Bowser Morner	Borehole/Well Id	0305
Drilling Method	Cable Tool	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596493.51
Date Started	8/21/89	East (ft)	1495084.47
Date Completed	8/22/89	Ground Surface Elev. (ft)	710.00
Logged By	Tom Tharp	Top of Casing Elev. (ft)	711.76
Checked By	Jim Brinkman	Total Depth (ft)	40.1

Comments:

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				CASING: Stainless steel, 4".			CL	Gray clay, trace silt.
5	SS	LI	0001	BACKFILL: Cement and bentonite grout.			CL	Gray clay, trace silt.
10	SS	LI	0002				CL	Brown clay, trace silt.
15	SS	LI	0003				SM	Silty sand, well graded.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	34.50	17:25	08/21/89
▼	30.28	11:56	09/20/90

D56 /64

WESTON

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Borehole/Well Id: 0305

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20	SS	LI	0004	BACKFILL: Cement and bentonite grout.			NR	No recovery.
	SS	LI	0005	CASING: Stainless steel, 4".			GC-GM	Clayey, silty gravel.
	ST	GT	0025					
25				SEAL: Bentonite.				
30	SS	VO	0030				GC-GM	Gravel intermixed with sand, silt, and clay.
	SS	LI	0006	SCREEN: Stainless steel, 4", with .01" wire wrap slot.			GC-GM	Gravel intermixed with clay, silt, and some sand.
	SS	LI	0007					
35				FILTER PACK: Quartz sand.				
	SS	LI	0008				CL	Clay regolith with gravel, sand and silt.
40	SS	LI	0009					Total Depth = 40.1 feet.
45								

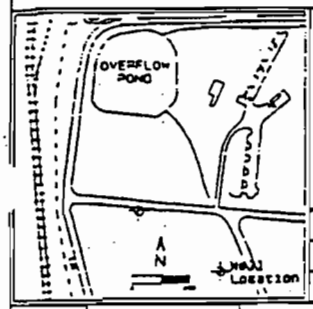
GROUNDWATER

	DEPTH	HOUR	DATE
▽	34.50	17:25	08/21/89
▼	30.28	11:56	09/20/90

WESTON

D57/64

19



Area of Concern: Non-AOC
Drilling Company: Bowser-Morner
Drilling Method: Cable Tool
Drilling Fluid: Water
Drilling Completed: 7/11/94
Well Installed: 7/12/94, 7/13/94
Logged By: Susan Abston
Total Depth (ft BGS): 41.2

COORDINATES

State Plane: Northing:	596520.9127
Easting:	1495226.1001
Mound Plant: South:	3145.7534
West:	4857.5850
Ground Surface Elevation (ft MSL):	713.25
Top of Casing Elevation (ft MSL):	715.50

GROUNDWATER	DATE	DEPTH (ft BGS)	COMMENTS
▼	7/11/94	30.95	Encountered during drilling.
▽	7/21/94	32.10	Sample collected.

DEPTH (ft BGS)	SAMPLES: Water	SAMPLES: Soil	WELL CONSTRUCTION	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
0	B41001		steel protective casing with locking cap (2.25 ft AGS); concrete pad		CL	0–5.0 CLAY and SILT, trace coarse sand and gravel; dry; 7.5YR4/2 brown.
4						
8			cement bentonite grout		SC	5.0–14.0 CLAY, SILT, and SAND, trace gravel; dry; 7.5YR5/3 brown.
12			2" stainless steel riser			
16					SP	14.0–16.0 SAND, some gravel, trace silt; coarse sand; dry.
20			(21.48 ft BGS); 3/8" bentonite pellet seal		SW	16.0–28.0 SAND, some gravel; fine to coarse sand; dry.
24						

Figure 2.10. Well Log of Monitoring Well W410
(Page 1 of 2)

D58/64

P:

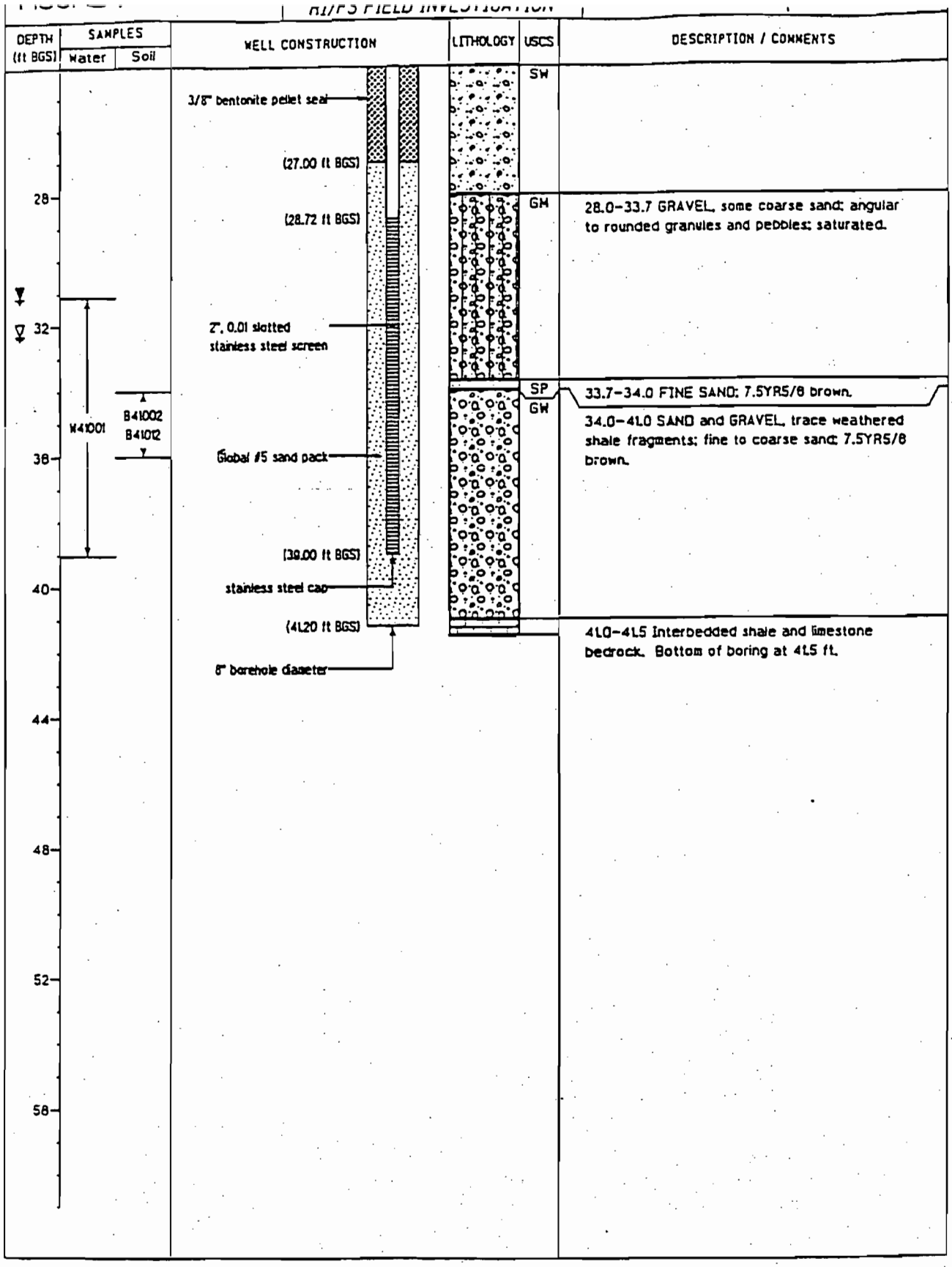


Figure 2.10. Well Log of Monitoring Well W410
(Page 2 of 2)

GEOLOGIC LOG	MOUND PLANT	Project Manager MRC Engineering	PAGE: 1 of 2

Drilling Company	Earth Sci. Lab. Inc.	Borehole/Well Id	0471
Drilling Method	Precussion Point	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596265.23
Date Started		East (ft)	1495008.91
Date Completed	4/5/61	Ground Surface Elev. (ft)	702.50
Logged By	Unk	Top of Casing Elev. (ft)	704.73
Checked By	Tom Tharp	Total Depth (ft)	44.5
Comments:	Originally numbered 71-4. Also known historically as Test Well # 2.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Well completion information is unknown.			TS	Topsoil.
							GW	Clean fine to coarse gravel.
5								
10				2 inch iron pipe 42.5 feet. 2 inch drive point screen.			GW	Sandy gravel, medium to coarse.
15								
								Medium to coarse sand, some gravel.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽			
▼			

D60/64

WESTON

GEOLOGIC LOG	MOUND PLANT	Project Manager MRC Engineering	PAGE: 2 of 2

Borehole/Well Id 0471

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20								
25								Caving in bottom of well.
30								
35								
40								
45								Total Depth = 44.5 feet.

GROUNDWATER

	DEPTH	HOUR	DATE
▽			
▼			

WESTON

D 61/64

GEOLOGIC LOG

MOUND PLANT

Project Manager
HRC Engineering

Drilling Company	Earth Sci. Lab. Inc.	Borehole/Well Id	0571
Drilling Method	Precussion Point	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596448.77
Date Started		East (ft)	1494972.83
Date Completed	4/6/61	Ground Surface Elev. (ft)	702.60
Logged By	Unk	Top of Casing Elev. (ft)	704.73
Checked By	Tom Tharp	Total Depth (ft)	44.0
Comments:	Originally numbered 71-5. Also known historically as Test Well # 3.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Well completion information is unknown.			GW	Sandy gravel.
5							GW	Medium gravel to cobbles.
10								
15								
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽			
▼			

D62/64

WESTON

GEOLOGIC LOG	MOUND PLANT	Project Manager MRC Engineering	PAGE: 2 of 2

Borehole/Well Id 0571

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
20								No sample.
25								
							GW	Coarse gravel.
30								
								No sample.
35								
40							GW	Coarse gravel.
								Total Depth = 44.0 feet.
45								

GROUNDWATER

	DEPTH	HOUR	DATE
▽			
▼			

WESTON

D63/64

40 CFR Sec. 141.61 Maximum contaminant levels for organic contaminants.

(a) The following maximum contaminant levels for organic contaminants apply to community and non-transient, non-community wate systems.

	CAS No.	Contaminant	MCL (mg/l)
(1)	75-01-4	Vinyl chloride	0.002
(2)	71-43-2	Benzene	0.005
(3)	56-23-5	Carbon tetrachloride	0.005
(4)	107-06-2	1,2-Dichloroethane	0.005
(5)	79-01-6	Trichloroethylene	0.005
(6)	106-46-7	para-Dichlorobenzene	0.075
(7)	75-35-4	1,1-Dichloroethylene	0.007
(8)	71-55-6	1,1,1-Trichloroethane	0.2
(9)	156-59-2	cis-1,2-Dichloroethylene	0.07
(10)	78-87-5	1,2-Dichloropropane	0.005
(11)	100-41-4	Ethylbenzene	0.7
(12)	108-90-7	Monochlorobenzene	0.1
(13)	95-50-1	o-Dichlorobenzene	0.6
(14)	100-42-5	Styrene	0.1
(15)	127-18-4	Tetrachloroethylene	0.005
(16)	108-88-3	Toluene	1
(17)	156-60-5	trans-1,2-Dichloroethylene	0.1
(18)	1330-20-7	Xylenes (total)	10
(19)	75-09-2	Dichloromethane	0.005
(20)	120-82-1	1,2,4-Trichlorobenzene	.07
(21)	79-00-5	1,1,2-Trichloroethane	.005

Attachment E

PRS 414 Further Assessment Data Report, January 2004, Rev. 0

PRS 414

FURTHER ASSESSMENT DATA REPORT

January 2004

Rev. 0

MIAMISBURG
CLOSURE PROJECT

CH2MHILL

E 1

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2.0	FIELD ACTIVITIES	1
2.1	Sample Locations	1
2.2	Sample Summary	2
3.0	RESULTS	2
3.1	VOC Groundwater Results	2
3.2	PRS 282 VOC Soil Results	2

Figures

Figure 1: Location of PRS 414

Figure 2: PRS 414 Monitoring Well Locations

Appendices

Appendix A Groundwater VOC Detections

Appendix B Time Series Charts

Appendix C Geologic Well Logs

Acronyms

BVA	Buried Valley Aquifer
MCL	Maximum Contaminant Level
NFA	No Further Assessment
OU-1	Operable Unit One
PCE	tetrachloroethene
PRS	Potential Release Site
SAP	Sampling and Analysis Plan
TCE	trichloroethene
VOC	volatile organic compound

1.0 PURPOSE

This Further Assessment Data Report documents the characterization activities of Potential Release Site (PRS) 414 (location shown on Figure 1). PRS 414 represents volatile organic compound (VOC) contamination in the Buried Valley Aquifer (BVA) groundwater south of the Operable Unit 1 (OU-1) compliance boundary. Operation of the OU-1 remedial pump and treat groundwater system was expected to have an impact on the downgradient groundwater. The characterization effort associated with PRS 414 was therefore limited to groundwater monitoring of wells screened in the BVA within the bounds of PRS 414. Characterization of PRS 282 (spoils area) also provides some information regarding the nature of the soils above PRS 414.

The purposes of this Data Report are to:

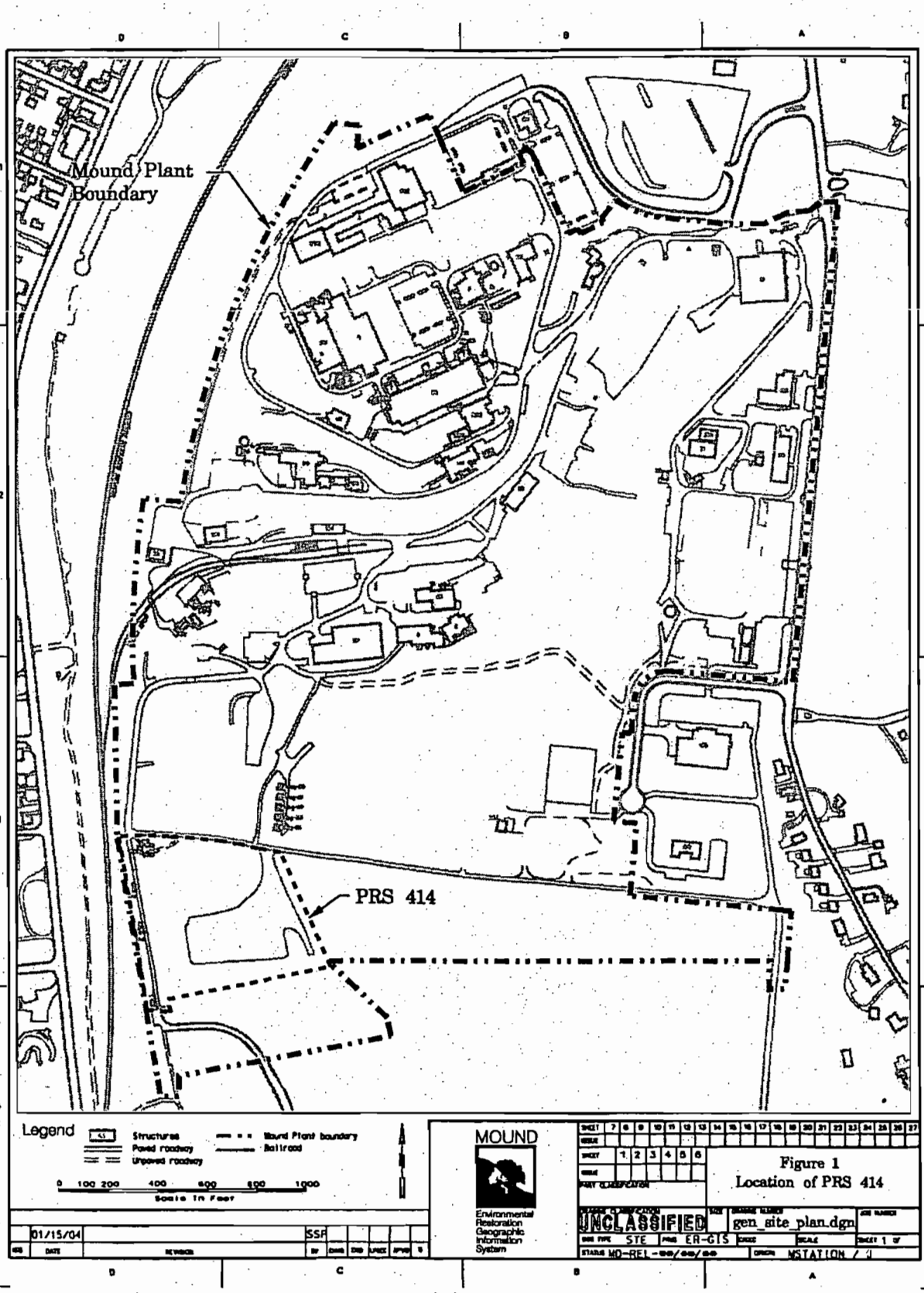
- document the characterization of PRS 414 and
- present the analytical results.

2.0 FIELD ACTIVITIES

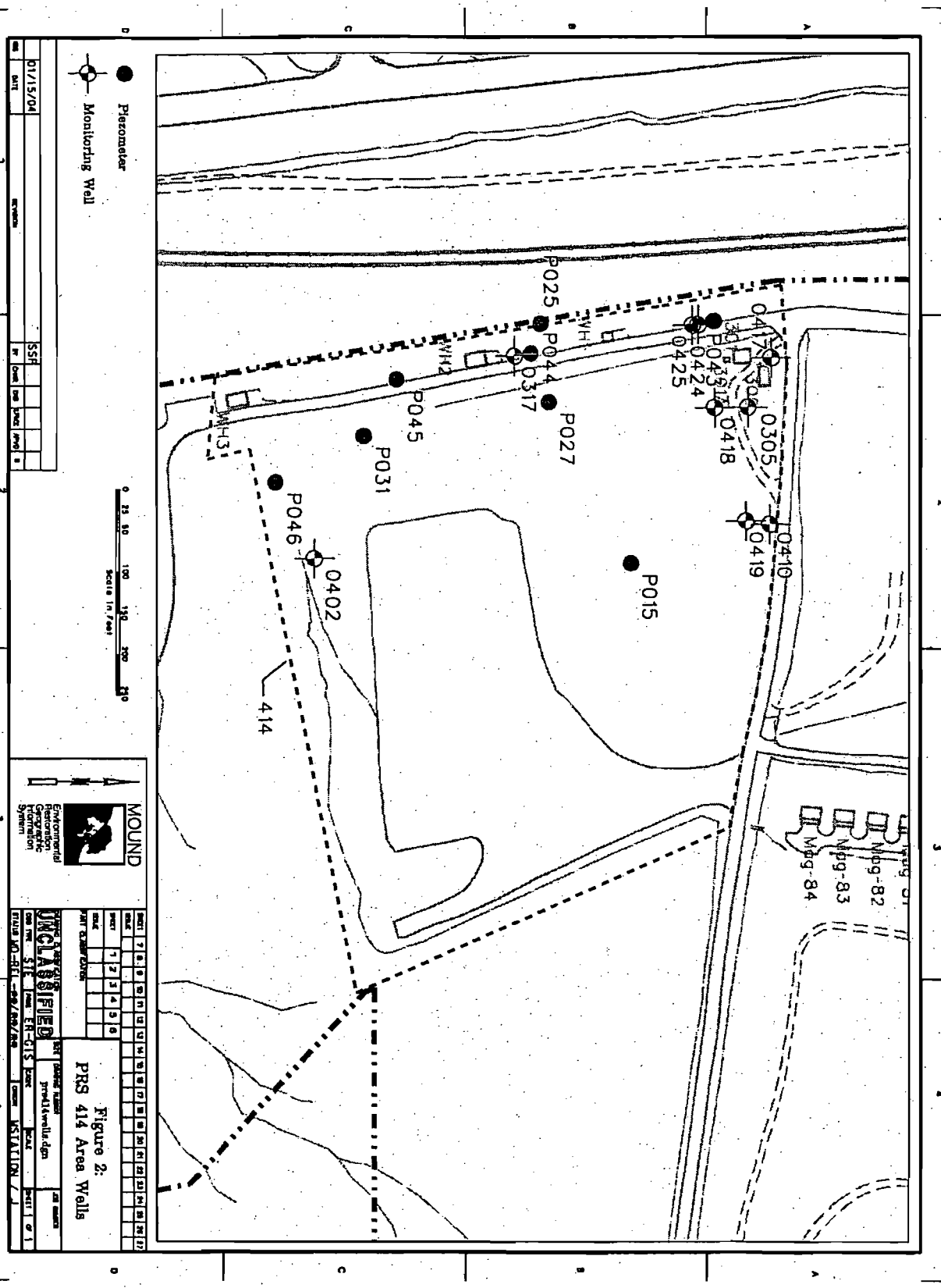
Groundwater sampling activities occurred from 1998 through 2003. Sampling occurred during both active groundwater remediation (pump and treat system on continuously from Jan 1997 through May 2003) and during the OU-1 rebound test (initiated May 2003 involving shut down of pump and treat system).

2.1 SAMPLE LOCATIONS

Groundwater samples were collected during quarterly groundwater sampling events from BVA wells located within the PRS 414 area. The wells include: 0305, 0317, 0402, 0410, 0417, 0418, 0419, 0424, 0425, P015, P025, P027, P031, P043, P044, P045, and P046. Figure 2 shows the location of the monitoring wells. Well logs are included as Appendix C.


Mound Plant Boundary
PRS 414
Legend
Structures
Paved roadway
Unpaved roadway
Mound Plant boundary
Railroad
0 100 200 400 600 800 1000
Scale In Feet
MOUND
Environmental Restoration Geographic Information System
Figure 1
Location of PRS 414
UNCLASSIFIED
gen_site_plan.dgn
01/15/04
SSF

E6


Piezometer
Monitoring Well
0 25 50 100 150 200 250
Scale In Feet
P025
P044
0317
P027
P045
P031
P046
0402
414
0425
0424
0418
0305
0419
0410
P015
Mpg-82
Mpg-83
Mpg-84
MOUND
Environmental Geographic Information System
UNCLASSIFIED
Figure 2:
PRS 414 Area Wells
01/15/04
SSF

2.2 SAMPLE SUMMARY

Samples were collected and analyzed in accordance with procedures outlined in the Methods Compendium (MD-80045, May 2000).

3.0 RESULTS

The following analytical providers were used in support of the SAP:

- RCRA Lionville for offsite volatile organic compound analysis.

3.1 VOC GROUNDWATER RESULTS

Offsite chemical analysis for VOCs was performed on all groundwater samples. Appendix A shows all VOC groundwater detections for the monitoring period of interest (Jan 1997 through May 2003). Trichloroethene (TCE) and Tetrachloroethene (PCE) are the only VOCs that currently occur above Federal Maximum Contaminanat Levels (MCLs) within the groundwater associated with PRS 414. Appendix B shows time series groundwater concentration charts for TCE and PCE in the PRS 414 monitoring wells.

3.2 PRS 282 VOC SOIL RESULTS

VOC soil samples were collected as part of the PRS 282 Further Assessment. Based on the results it was determined that the soils posed no threat to the underlying groundwater system (see PRS 282 Data Report). The PRS was binned No Further Assessment (NFA) by the Core Team on December 11, 2002.

APPENDIX A

GROUNDWATER VOC DETECTIONS

PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0305	03/30/1998	1,1,1-Trichloroethane	2.300000	UG/L	0.300000
0305	03/30/1998	1,1,1-Trichloroethane	1.800000	UG/L	0.300000
0305	03/30/1998	1,1,1-Trichloroethane	1.800000	UG/L	0.300000
0305	03/30/1998	Tetrachloroethene	8.200000	UG/L	0.300000
0305	03/30/1998	Tetrachloroethene	7.000000	UG/L	0.300000
0305	03/30/1998	Tetrachloroethene	9.000000	UG/L	0.300000
0305	03/30/1998	Trichloroethylene (TCE)	8.400000	UG/L	1.200000
0305	03/30/1998	Trichloroethylene (TCE)	7.000000	UG/L	1.200000
0305	03/30/1998	Trichloroethylene (TCE)	9.100000	UG/L	1.200000
0305	06/18/1998	1,1,1-Trichloroethane	5.100000	UG/L	0.300000
0305	06/18/1998	1,1,1-Trichloroethane	4.500000	UG/L	0.300000
0305	06/18/1998	Tetrachloroethene	6.600000	UG/L	0.300000
0305	06/18/1998	Tetrachloroethene	7.100000	UG/L	0.300000
0305	06/18/1998	Trichloroethylene (TCE)	4.900000	UG/L	1.200000
0305	06/18/1998	Trichloroethylene (TCE)	5.500000	UG/L	1.200000
0305	10/12/1998	1,1,1-Trichloroethane	4.600000	UG/L	0.300000
0305	10/12/1998	1,1,1-Trichloroethane	3.900000	UG/L	0.300000
0305	10/12/1998	Tetrachloroethene	6.100000	UG/L	0.300000
0305	10/12/1998	Tetrachloroethene	5.600000	UG/L	0.300000
0305	10/12/1998	Trichloroethylene (TCE)	4.500000	UG/L	1.200000
0305	10/12/1998	Trichloroethylene (TCE)	4.700000	UG/L	1.200000
0305	01/07/1999	1,1,1-Trichloroethane	4.800000	UG/L	0.300000
0305	01/07/1999	Tetrachloroethene	7.100000	UG/L	0.300000
0305	01/07/1999	Trichloroethylene (TCE)	6.400000	UG/L	1.200000
0305	04/27/1999	1,1,1-Trichloroethane	2.800000	UG/L	0.300000
0305	04/27/1999	Tetrachloroethene	5.600000	UG/L	0.300000
0305	04/27/1999	Trichloroethylene (TCE)	2.600000	UG/L	1.200000
0305	06/15/1999	1,1,1-Trichloroethane	5.700000	UG/L	0.300000
0305	06/15/1999	Tetrachloroethene	5.500000	UG/L	0.300000
0305	06/15/1999	Trichloroethylene (TCE)	4.100000	UG/L	1.200000
0305	08/31/1999	1,1,1-Trichloroethane	4.400000	UG/L	0.300000
0305	08/31/1999	1,1,1-Trichloroethane	4.400000	UG/L	0.300000
0305	08/31/1999	1,1,1-Trichloroethane	4.800000	UG/L	0.300000
0305	08/31/1999	1,1,1-Trichloroethane	5.000000	UG/L	0.300000
0305	08/31/1999	Tetrachloroethene	3.900000	UG/L	0.300000
0305	08/31/1999	Tetrachloroethene	5.500000	UG/L	0.300000
0305	08/31/1999	Tetrachloroethene	4.300000	UG/L	0.300000
0305	08/31/1999	Tetrachloroethene	6.400000	UG/L	0.300000

E10

PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0305	08/31/1999	Trichloroethylene (TCE)	3.100000	UG/L	1.200000
0305	08/31/1999	Trichloroethylene (TCE)	3.500000	UG/L	1.200000
0305	08/31/1999	Trichloroethylene (TCE)	3.200000	UG/L	1.200000
0305	08/31/1999	Trichloroethylene (TCE)	3.500000	UG/L	1.200000
0305	01/19/2000	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
0305	01/19/2000	Tetrachloroethene	4.900000	UG/L	0.300000
0305	01/19/2000	Trichloroethylene (TCE)	5.200000	UG/L	1.200000
0305	01/19/2000	Trichloromethane	0.780000	UG/L	0.500000
0305	04/10/2000	1,1,1-Trichloroethane	0.740000	UG/L	0.300000
0305	04/10/2000	Bromodichloromethane	1.000000	UG/L	1.000000
0305	04/10/2000	Dibromochloromethane	1.200000	UG/L	0.900000
0305	04/10/2000	Tetrachloroethene	2.100000	UG/L	0.300000
0305	04/10/2000	Trichloroethylene (TCE)	2.300000	UG/L	1.200000
0305	04/10/2000	Trichloromethane	1.700000	UG/L	0.500000
0305	06/21/2000	1,1,1-Trichloroethane	0.470000	UG/L	0.300000
0305	06/21/2000	Bromodichloromethane	1.200000	UG/L	1.000000
0305	06/21/2000	Dibromochloromethane	1.700000	UG/L	0.900000
0305	06/21/2000	Tetrachloroethene	1.700000	UG/L	0.300000
0305	06/21/2000	Trichloroethylene (TCE)	1.400000	UG/L	1.200000
0305	06/21/2000	Trichloromethane	1.100000	UG/L	0.500000
0305	09/19/2000	1,1,1-Trichloroethane	0.580000	UG/L	0.300000
0305	09/19/2000	Bromodichloromethane	1.600000	UG/L	1.000000
0305	09/19/2000	Dibromochloromethane	1.100000	UG/L	0.900000
0305	09/19/2000	Tetrachloroethene	2.900000	UG/L	0.300000
0305	09/19/2000	Trichloroethylene (TCE)	3.600000	UG/L	1.200000
0305	09/19/2000	Trichloromethane	1.500000	UG/L	0.500000
0305	01/31/2001	1,1,1-Trichloroethane	0.800000	UG/L	0.300000
0305	01/31/2001	Tetrachloroethene	2.700000	UG/L	0.300000
0305	01/31/2001	Trichloroethylene (TCE)	2.300000	UG/L	1.200000
0305	01/31/2001	Trichloromethane	1.400000	UG/L	0.500000
0305	05/02/2001	1,1,1-Trichloroethane	0.690000	UG/L	0.300000
0305	05/02/2001	Tetrachloroethene	1.800000	UG/L	0.300000
0305	05/02/2001	Trichloroethylene (TCE)	2.200000	UG/L	1.200000
0305	05/02/2001	Trichloromethane	0.820000	UG/L	0.500000
0305	07/26/2001	1,1,1-Trichloroethane	0.710000	UG/L	0.300000
0305	07/26/2001	Tetrachloroethene	2.600000	UG/L	0.300000
0305	07/26/2001	Trichloroethylene (TCE)	2.400000	UG/L	1.200000
0305	07/26/2001	Trichloromethane	1.400000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0305	10/22/2001	1,1,1-Trichloroethane	0.550000	UG/L	0.300000
0305	10/22/2001	Tetrachloroethene	1.600000	UG/L	0.300000
0305	10/22/2001	Trichloroethylene (TCE)	2.100000	UG/L	1.200000
0305	10/22/2001	Trichloromethane	1.300000	UG/L	0.500000
0305	02/01/2002	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
0305	02/01/2002	Tetrachloroethene	2.000000	UG/L	0.300000
0305	02/01/2002	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
0305	02/01/2002	Trichloromethane	0.890000	UG/L	0.500000
0305	04/23/2002	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
0305	04/23/2002	Tetrachloroethene	2.600000	UG/L	0.300000
0305	04/23/2002	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
0305	04/23/2002	Trichloromethane	1.800000	UG/L	0.500000
0305	07/26/2002	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
0305	07/26/2002	Tetrachloroethene	2.300000	UG/L	0.300000
0305	07/26/2002	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
0305	07/26/2002	Trichloromethane	1.900000	UG/L	0.500000
0305	11/04/2002	1,1,1-Trichloroethane	0.870000	UG/L	0.300000
0305	11/04/2002	Tetrachloroethene	1.800000	UG/L	0.300000
0305	11/04/2002	Trichloroethylene (TCE)	1.400000	UG/L	1.200000
0305	02/05/2003	Tetrachloroethene	2.100000	UG/L	0.300000
0305	02/05/2003	Trichloroethylene (TCE)	1.900000	UG/L	1.200000
0305	05/19/2003	1,1,1-Trichloroethane	0.880000	UG/L	0.300000
0305	05/19/2003	1,1,1-Trichloroethane	0.880000	UG/L	0.300000
0305	05/19/2003	Tetrachloroethene	1.700000	UG/L	0.300000
0305	05/19/2003	Tetrachloroethene	1.700000	UG/L	0.300000
0305	05/19/2003	Trichloroethylene (TCE)	1.200000	UG/L	1.200000
0305	05/19/2003	Trichloroethylene (TCE)	1.200000	UG/L	1.200000
0305	05/19/2003	Trichloromethane	1.700000	UG/L	0.500000
0305	05/19/2003	Trichloromethane	1.700000	UG/L	0.500000
0305	05/27/2003	1,1,1-Trichloroethane	0.730000	UG/L	0.300000
0305	05/27/2003	Tetrachloroethene	2.100000	UG/L	0.300000
0305	05/27/2003	Trichloromethane	1.700000	UG/L	0.500000
0305	06/02/2003	1,1,1-Trichloroethane	0.720000	UG/L	0.300000
0305	06/02/2003	Tetrachloroethene	2.000000	UG/L	0.300000
0305	06/02/2003	Trichloromethane	1.600000	UG/L	0.500000
0305	06/09/2003	1,1,1-Trichloroethane	0.620000	UG/L	0.300000
0305	06/09/2003	Tetrachloroethene	1.600000	UG/L	0.300000
0305	06/09/2003	Trichloromethane	1.400000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0305	07/14/2003	1,1,1-Trichloroethane	0.500000	UG/L	0.300000
0305	07/14/2003	1,1,1-Trichloroethane	0.500000	UG/L	0.300000
0305	07/14/2003	Tetrachloroethene	1.700000	UG/L	0.300000
0305	07/14/2003	Tetrachloroethene	1.700000	UG/L	0.300000
0305	07/14/2003	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
0305	07/14/2003	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
0305	07/14/2003	Trichloromethane	18.000000	UG/L	0.500000
0305	07/14/2003	Trichloromethane	18.000000	UG/L	0.500000
0305	08/15/2003	1,1,1-Trichloroethane	0.790000	UG/L	0.300000
0305	08/15/2003	Tetrachloroethene	1.700000	UG/L	0.300000
0305	08/15/2003	Trichloroethylene (TCE)	1.900000	UG/L	1.200000
0305	08/15/2003	Trichloromethane	1.100000	UG/L	0.500000
0305	09/16/2003	1,1,1-Trichloroethane	0.700000	UG/L	0.300000
0305	09/16/2003	Tetrachloroethene	1.900000	UG/L	0.300000
0305	09/16/2003	Trichloroethylene (TCE)	3.800000	UG/L	1.200000
0305	09/16/2003	Trichloromethane	0.900000	UG/L	0.500000
0305	10/14/2003	1,1,1-Trichloroethane	0.740000	UG/L	0.300000
0305	10/14/2003	1,1,1-Trichloroethane	0.740000	UG/L	0.300000
0305	10/14/2003	1,2-cis-Dichloroethene	2.000000	UG/L	1.000000
0305	10/14/2003	1,2-cis-Dichloroethene	2.000000	UG/L	1.000000
0305	10/14/2003	Tetrachloroethene	2.100000	UG/L	0.300000
0305	10/14/2003	Tetrachloroethene	2.100000	UG/L	0.300000
0305	10/14/2003	Trichloroethylene (TCE)	3.500000	UG/L	1.200000
0305	10/14/2003	Trichloroethylene (TCE)	3.500000	UG/L	1.200000
0305	10/14/2003	Trichloromethane	1.600000	UG/L	0.500000
0305	10/14/2003	Trichloromethane	1.600000	UG/L	0.500000
0317	06/26/2000	1,1,1-Trichloroethane	0.650000	UG/L	0.300000
0317	07/16/2003	1,1,1-Trichloroethane	0.400000	UG/L	0.300000
0402	10/21/2003	1,1,1-Trichloroethane	0.340000	UG/L	0.300000
0410	03/26/1998	1,2-cis-Dichloroethene	2.900000	UG/L	1.000000
0410	03/26/1998	1,2-cis-Dichloroethene	4.000000	UG/L	1.000000
0410	03/26/1998	Tetrachloroethene	3.000000	UG/L	0.300000
0410	03/26/1998	Tetrachloroethene	5.300000	UG/L	0.300000
0410	03/26/1998	Trichloroethylene (TCE)	20.000000	UG/L	1.200000
0410	03/26/1998	Trichloroethylene (TCE)	25.000000	UG/L	1.200000
0410	03/26/1998	Trichloromethane	2.100000	UG/L	0.500000
0410	03/26/1998	Trichloromethane	1.500000	UG/L	0.500000
0410	06/24/1998	1,2-cis-Dichloroethene	1.000000	UG/L	1.000000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0410	06/24/1998	1,2-cis-Dichloroethene	1.200000	UG/L	1.000000
0410	06/24/1998	Tetrachloroethene	1.400000	UG/L	0.300000
0410	06/24/1998	Tetrachloroethene	0.920000	UG/L	0.300000
0410	06/24/1998	Trichloroethylene (TCE)	5.300000	UG/L	1.200000
0410	06/24/1998	Trichloroethylene (TCE)	6.800000	UG/L	1.200000
0410	06/24/1998	Trichloromethane	0.570000	UG/L	0.500000
0410	10/13/1998	1,2-cis-Dichloroethene	84.000000	UG/L	2.000000
0410	10/13/1998	Tetrachloroethene	4.700000	UG/L	0.300000
0410	10/13/1998	Tetrachloroethene	4.300000	UG/L	0.300000
0410	10/13/1998	Trichloroethylene (TCE)	30.000000	UG/L	1.200000
0410	10/13/1998	Trichloroethylene (TCE)	31.000000	UG/L	1.200000
0410	10/13/1998	Trichloromethane	1.100000	UG/L	0.500000
0410	10/13/1998	Trichloromethane	2.100000	UG/L	0.500000
0410	10/13/1998	Vinyl Chloride	1.600000	UG/L	1.000000
0410	10/13/1998	Vinyl Chloride	1.500000	UG/L	1.000000
0410	01/08/1999	1,2-cis-Dichloroethene	30.000000	UG/L	1.000000
0410	01/08/1999	Tetrachloroethene	4.400000	UG/L	0.300000
0410	01/08/1999	Trichloroethylene (TCE)	32.000000	UG/L	1.200000
0410	01/08/1999	Trichloromethane	2.100000	UG/L	0.500000
0410	04/29/1999	Tetrachloroethene	3.400000	UG/L	0.300000
0410	04/29/1999	Trichloroethylene (TCE)	16.000000	UG/L	1.200000
0410	06/17/1999	Bromochloromethane	121.000000	UG/L	
0410	06/17/1999	Tetrachloroethene	2.500000	UG/L	0.300000
0410	06/17/1999	Trichloroethylene (TCE)	18.000000	UG/L	1.200000
0410	09/01/1999	1,2-cis-Dichloroethene	140.000000	UG/L	5.000000
0410	09/01/1999	1,2-cis-Dichloroethene	180.000000	UG/L	5.000000
0410	09/01/1999	Tetrachloroethene	5.700000	UG/L	1.500000
0410	09/01/1999	Trichloroethylene (TCE)	51.000000	UG/L	6.000000
0410	09/01/1999	Trichloroethylene (TCE)	66.000000	UG/L	6.000000
0410	01/19/2000	1,2-cis-Dichloroethene	74.000000	UG/L	5.000000
0410	01/19/2000	1,2-trans-Dichloroethene	1.200000	UG/L	1.000000
0410	01/19/2000	Tetrachloroethene	6.900000	UG/L	0.300000
0410	01/19/2000	Trichloroethylene (TCE)	29.000000	UG/L	1.200000
0410	01/19/2000	Trichloromethane	1.500000	UG/L	0.500000
0410	04/11/2000	1,2-cis-Dichloroethene	45.000000	UG/L	1.000000
0410	04/11/2000	Tetrachloroethene	4.400000	UG/L	0.300000
0410	04/11/2000	Trichloroethylene (TCE)	18.000000	UG/L	1.200000
0410	04/11/2000	Trichloromethane	0.930000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0410	06/20/2000	1,2-cis-Dichloroethene	40.000000	UG/L	1.000000
0410	06/20/2000	FREON-113	3.400000	UG/L	2.000000
0410	06/20/2000	Tetrachloroethene	2.900000	UG/L	0.300000
0410	06/20/2000	Trichloroethylene (TCE)	10.000000	UG/L	1.200000
0410	06/20/2000	Trichloromethane	1.100000	UG/L	0.500000
0410	09/27/2000	1,2-cis-Dichloroethene	49.000000	UG/L	1.000000
0410	09/27/2000	Tetrachloroethene	2.100000	UG/L	0.300000
0410	09/27/2000	Toluene	3.800000	UG/L	2.000000
0410	09/27/2000	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0410	09/27/2000	Trichloromethane	0.760000	UG/L	0.500000
0410	02/08/2001	1,2-cis-Dichloroethene	37.000000	UG/L	1.000000
0410	02/08/2001	Tetrachloroethene	3.000000	UG/L	0.300000
0410	02/08/2001	Trichloroethylene (TCE)	23.000000	UG/L	1.200000
0410	02/08/2001	Trichloromethane	1.100000	UG/L	0.500000
0410	04/25/2001	1,2-cis-Dichloroethene	2.200000	UG/L	1.000000
0410	04/25/2001	Tetrachloroethene	2.500000	UG/L	0.300000
0410	04/25/2001	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0410	07/25/2001	1,2-cis-Dichloroethene	1.200000	UG/L	1.000000
0410	07/25/2001	Tetrachloroethene	3.300000	UG/L	0.300000
0410	07/25/2001	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0410	07/25/2001	Trichloromethane	1.100000	UG/L	0.500000
0410	10/18/2001	1,2-cis-Dichloroethene	35.000000	UG/L	1.000000
0410	10/18/2001	FREON-113	2.600000	UG/L	2.000000
0410	10/18/2001	Tetrachloroethene	4.600000	UG/L	0.300000
0410	10/18/2001	Trichloroethylene (TCE)	22.000000	UG/L	1.200000
0410	10/18/2001	Trichloromethane	1.400000	UG/L	0.500000
0410	02/01/2002	Tetrachloroethene	2.300000	UG/L	0.300000
0410	02/01/2002	Trichloroethylene (TCE)	7.200000	UG/L	1.200000
0410	04/22/2002	Tetrachloroethene	1.300000	UG/L	0.300000
0410	04/22/2002	Trichloroethylene (TCE)	2.900000	UG/L	1.200000
0410	07/25/2002	1,2-cis-Dichloroethene	1.600000	UG/L	1.000000
0410	07/25/2002	Tetrachloroethene	3.000000	UG/L	0.300000
0410	07/25/2002	Trichloroethylene (TCE)	13.000000	UG/L	1.200000
0410	11/08/2002	1,2-cis-Dichloroethene	9.000000	UG/L	1.000000
0410	11/08/2002	Tetrachloroethene	1.800000	UG/L	0.300000
0410	11/08/2002	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
0410	11/08/2002	Trichloromethane	1.100000	UG/L	0.500000
0410	02/05/2003	Tetrachloroethene	2.600000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0410	02/05/2003	Trichloroethylene (TCE)	6.300000	UG/L	1.200000
0410	05/19/2003	Tetrachloroethene	1.600000	UG/L	0.300000
0410	05/19/2003	Tetrachloroethene	1.600000	UG/L	0.300000
0410	05/19/2003	Trichloroethylene (TCE)	5.600000	UG/L	1.200000
0410	05/19/2003	Trichloroethylene (TCE)	5.600000	UG/L	1.200000
0410	05/27/2003	Trichloroethylene (TCE)	5.900000	UG/L	1.200000
0410	06/02/2003	1,2-cis-Dichloroethene	5.800000	UG/L	1.000000
0410	06/02/2003	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0410	06/02/2003	Trichloromethane	0.900000	UG/L	0.500000
0410	06/09/2003	Tetrachloroethene	2.000000	UG/L	0.300000
0410	06/09/2003	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
0410	06/09/2003	Trichloromethane	1.100000	UG/L	0.500000
0410	06/30/2003	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0410	06/30/2003	Trichloromethane	1.000000	UG/L	0.500000
0410	07/14/2003	1,1,2-Trichloroethane	0.200000	UG/L	0.200000
0410	07/14/2003	1,1,2-Trichloroethane	0.200000	UG/L	0.200000
0410	07/14/2003	Carbon Tetrachloride	1.600000	UG/L	1.200000
0410	07/14/2003	Carbon Tetrachloride	1.600000	UG/L	1.200000
0410	07/14/2003	FREON-113	2.200000	UG/L	2.000000
0410	07/14/2003	FREON-113	2.200000	UG/L	2.000000
0410	07/14/2003	Tetrachloroethene	4.100000	UG/L	0.300000
0410	07/14/2003	Tetrachloroethene	4.100000	UG/L	0.300000
0410	07/14/2003	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
0410	07/14/2003	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
0410	07/14/2003	Trichloromethane	1.500000	UG/L	0.500000
0410	07/14/2003	Trichloromethane	1.500000	UG/L	0.500000
0410	08/13/2003	FREON-113	2.000000	UG/L	2.000000
0410	08/13/2003	Tetrachloroethene	2.900000	UG/L	0.300000
0410	08/13/2003	Trichloroethylene (TCE)	20.000000	UG/L	1.200000
0410	08/13/2003	Trichloromethane	1.500000	UG/L	0.500000
0410	09/16/2003	1,2-cis-Dichloroethene	2.200000	UG/L	1.000000
0410	09/16/2003	Tetrachloroethene	1.800000	UG/L	0.300000
0410	09/16/2003	Trichloroethylene (TCE)	5.300000	UG/L	1.200000
0410	10/17/2003	1,1,1-Trichloroethane	0.690000	UG/L	0.300000
0410	10/17/2003	1,1,1-Trichloroethane	0.690000	UG/L	0.300000
0410	10/17/2003	1,2-cis-Dichloroethene	18.000000	UG/L	1.000000
0410	10/17/2003	1,2-cis-Dichloroethene	18.000000	UG/L	1.000000
0410	10/17/2003	FREON-113	2.500000	UG/L	2.000000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0410	10/17/2003	FREON-113	2.500000	UG/L	2.000000
0410	10/17/2003	Tetrachloroethene	4.000000	UG/L	0.300000
0410	10/17/2003	Tetrachloroethene	4.000000	UG/L	0.300000
0410	10/17/2003	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
0410	10/17/2003	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
0410	10/17/2003	Trichloromethane	1.200000	UG/L	0.500000
0410	10/17/2003	Trichloromethane	1.200000	UG/L	0.500000
0417	03/30/1998	1,1,1-Trichloroethane	2.500000	UG/L	0.300000
0417	03/30/1998	1,1,1-Trichloroethane	2.300000	UG/L	0.300000
0417	03/30/1998	Tetrachloroethene	0.770000	UG/L	0.300000
0417	03/30/1998	Tetrachloroethene	0.620000	UG/L	0.300000
0417	03/30/1998	Trichloroethylene (TCE)	1.600000	UG/L	1.200000
0417	03/30/1998	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
0417	06/18/1998	1,1,1-Trichloroethane	5.000000	UG/L	0.300000
0417	06/18/1998	1,1,1-Trichloroethane	4.400000	UG/L	0.300000
0417	06/18/1998	Tetrachloroethene	1.400000	UG/L	0.300000
0417	06/18/1998	Tetrachloroethene	0.780000	UG/L	0.300000
0417	06/18/1998	Trichloroethylene (TCE)	2.600000	UG/L	1.200000
0417	06/18/1998	Trichloroethylene (TCE)	2.600000	UG/L	1.200000
0417	10/13/1998	1,1,1-Trichloroethane	1.800000	UG/L	0.300000
0417	10/13/1998	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
0417	10/13/1998	Tetrachloroethene	0.590000	UG/L	0.300000
0417	10/13/1998	Trichloroethylene (TCE)	1.500000	UG/L	1.200000
0417	10/13/1998	Trichloroethylene (TCE)	1.500000	UG/L	1.200000
0417	01/07/1999	1,1,1-Trichloroethane	2.700000	UG/L	0.300000
0417	01/07/1999	Tetrachloroethene	0.560000	UG/L	0.300000
0417	04/29/1999	1,1,1-Trichloroethane	4.000000	UG/L	0.300000
0417	04/29/1999	Tetrachloroethene	1.400000	UG/L	0.300000
0417	04/29/1999	Trichloroethylene (TCE)	2.100000	UG/L	1.200000
0417	06/15/1999	1,1,1-Trichloroethane	4.100000	UG/L	0.300000
0417	06/15/1999	Tetrachloroethene	0.720000	UG/L	0.300000
0417	06/15/1999	Trichloroethylene (TCE)	1.400000	UG/L	1.200000
0417	08/31/1999	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
0417	08/31/1999	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
0417	08/31/1999	Tetrachloroethene	0.390000	UG/L	0.300000
0417	08/31/1999	Tetrachloroethene	0.560000	UG/L	0.300000
0417	01/20/2000	Bromodichloromethane	1.100000	UG/L	1.000000
0417	01/20/2000	Trichloromethane	0.660000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0417	04/11/2000	Bromodichloromethane	1.900000	UG/L	1.000000
0417	04/11/2000	Dibromochloromethane	1.400000	UG/L	0.900000
0417	04/11/2000	Tetrachloroethene	1.200000	UG/L	0.300000
0417	04/11/2000	Trichloromethane	1.300000	UG/L	0.500000
0417	06/20/2000	1,1,1-Trichloroethane	0.350000	UG/L	0.300000
0417	06/20/2000	Bromodichloromethane	1.300000	UG/L	1.000000
0417	06/20/2000	Dibromochloromethane	1.800000	UG/L	0.900000
0417	06/20/2000	Tetrachloroethene	1.400000	UG/L	0.300000
0417	06/20/2000	Trichloroethylene (TCE)	1.200000	UG/L	1.200000
0417	06/20/2000	Trichloromethane	0.990000	UG/L	0.500000
0417	09/20/2000	1,1,1-Trichloroethane	0.650000	UG/L	0.300000
0417	09/20/2000	Bromodichloromethane	2.100000	UG/L	1.000000
0417	09/20/2000	Dibromochloromethane	1.200000	UG/L	0.900000
0417	09/20/2000	Tetrachloroethene	0.730000	UG/L	0.300000
0417	09/20/2000	Trichloromethane	2.300000	UG/L	0.500000
0417	02/01/2001	1,1,1-Trichloroethane	0.540000	UG/L	0.300000
0417	02/01/2001	Tetrachloroethene	0.860000	UG/L	0.300000
0417	02/01/2001	Trichloromethane	1.500000	UG/L	0.500000
0417	05/02/2001	1,1,1-Trichloroethane	0.680000	UG/L	0.300000
0417	05/02/2001	Trichloromethane	1.200000	UG/L	0.500000
0417	07/26/2001	1,1,1-Trichloroethane	0.930000	UG/L	0.300000
0417	07/26/2001	Tetrachloroethene	0.850000	UG/L	0.300000
0417	07/26/2001	Trichloromethane	1.700000	UG/L	0.500000
0417	10/22/2001	1,1,1-Trichloroethane	0.550000	UG/L	0.300000
0417	10/22/2001	1,1,1-Trichloroethane	0.410000	UG/L	0.300000
0417	10/22/2001	Tetrachloroethene	0.800000	UG/L	0.300000
0417	10/22/2001	Tetrachloroethene	0.860000	UG/L	0.300000
0417	10/22/2001	Trichloromethane	2.100000	UG/L	0.500000
0417	10/22/2001	Trichloromethane	1.100000	UG/L	0.500000
0417	02/01/2002	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
0417	02/01/2002	Tetrachloroethene	0.640000	UG/L	0.300000
0417	02/01/2002	Trichloromethane	1.000000	UG/L	0.500000
0417	04/23/2002	1,1,1-Trichloroethane	0.970000	UG/L	0.300000
0417	04/23/2002	Tetrachloroethene	0.610000	UG/L	0.300000
0417	04/23/2002	Trichloromethane	1.800000	UG/L	0.500000
0417	07/26/2002	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
0417	07/26/2002	Tetrachloroethene	0.780000	UG/L	0.300000
0417	07/26/2002	Trichloromethane	2.200000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0417	11/13/2002	1,1,1-Trichloroethane	0.590000	UG/L	0.300000
0417	11/13/2002	Tetrachloroethene	0.750000	UG/L	0.300000
0417	02/14/2003	Tetrachloroethene	0.540000	UG/L	0.300000
0417	05/19/2003	1,1,1-Trichloroethane	0.460000	UG/L	0.300000
0417	05/19/2003	1,1,1-Trichloroethane	0.460000	UG/L	0.300000
0417	05/19/2003	Tetrachloroethene	0.980000	UG/L	0.300000
0417	05/19/2003	Tetrachloroethene	0.980000	UG/L	0.300000
0417	05/19/2003	Trichloromethane	1.500000	UG/L	0.500000
0417	05/19/2003	Trichloromethane	1.500000	UG/L	0.500000
0417	05/27/2003	1,1,1-Trichloroethane	0.480000	UG/L	0.300000
0417	05/27/2003	2-Butanone	2.700000	UG/L	2.000000
0417	05/27/2003	Trichloromethane	0.960000	UG/L	0.500000
0417	06/02/2003	1,1,1-Trichloroethane	0.730000	UG/L	0.300000
0417	06/02/2003	Tetrachloroethene	0.610000	UG/L	0.300000
0417	06/02/2003	Trichloromethane	0.810000	UG/L	0.500000
0417	06/09/2003	Tetrachloroethene	0.800000	UG/L	0.300000
0417	06/09/2003	Trichloromethane	1.700000	UG/L	0.500000
0417	07/14/2003	Trichloromethane	1.800000	UG/L	0.500000
0417	07/14/2003	Trichloromethane	1.800000	UG/L	0.500000
0417	08/15/2003	1,1,1-Trichloroethane	0.360000	UG/L	0.300000
0417	08/15/2003	Tetrachloroethene	1.200000	UG/L	0.300000
0417	08/15/2003	Trichloroethylene (TCE)	3.000000	UG/L	1.200000
0417	08/15/2003	Trichloromethane	1.900000	UG/L	0.500000
0417	09/16/2003	1,1,1-Trichloroethane	0.510000	UG/L	0.300000
0417	09/16/2003	Tetrachloroethene	1.400000	UG/L	0.300000
0417	09/16/2003	Trichloroethylene (TCE)	5.700000	UG/L	1.200000
0417	09/16/2003	Trichloromethane	2.600000	UG/L	0.500000
0417	10/14/2003	1,1,1-Trichloroethane	0.530000	UG/L	0.300000
0417	10/14/2003	1,1,1-Trichloroethane	0.530000	UG/L	0.300000
0417	10/14/2003	Tetrachloroethene	1.400000	UG/L	0.300000
0417	10/14/2003	Tetrachloroethene	1.400000	UG/L	0.300000
0417	10/14/2003	Trichloroethylene (TCE)	2.500000	UG/L	1.200000
0417	10/14/2003	Trichloroethylene (TCE)	2.500000	UG/L	1.200000
0418	03/30/1998	1,1,1-Trichloroethane	2.300000	UG/L	0.300000
0418	03/30/1998	1,1,1-Trichloroethane	2.400000	UG/L	0.300000
0418	03/30/1998	Tetrachloroethene	10.000000	UG/L	0.300000
0418	03/30/1998	Tetrachloroethene	11.000000	UG/L	0.300000
0418	03/30/1998	Trichloroethylene (TCE)	10.000000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0418	03/30/1998	Trichloroethylene (TCE)	13.000000	UG/L	1.200000
0418	06/18/1998	1,1,1-Trichloroethane	4.400000	UG/L	0.300000
0418	06/18/1998	1,1,1-Trichloroethane	4.000000	UG/L	0.300000
0418	06/18/1998	Tetrachloroethene	11.000000	UG/L	0.300000
0418	06/18/1998	Tetrachloroethene	12.000000	UG/L	0.300000
0418	06/18/1998	Trichloroethylene (TCE)	9.600000	UG/L	1.200000
0418	06/18/1998	Trichloroethylene (TCE)	12.000000	UG/L	1.200000
0418	10/13/1998	1,1,1-Trichloroethane	3.900000	UG/L	0.300000
0418	10/13/1998	1,1,1-Trichloroethane	1.700000	UG/L	0.300000
0418	10/13/1998	Tetrachloroethene	7.500000	UG/L	0.300000
0418	10/13/1998	Tetrachloroethene	5.300000	UG/L	0.300000
0418	10/13/1998	Trichloroethylene (TCE)	5.200000	UG/L	1.200000
0418	10/13/1998	Trichloroethylene (TCE)	3.700000	UG/L	1.200000
0418	01/07/1999	1,1,1-Trichloroethane	5.000000	UG/L	0.300000
0418	01/07/1999	Tetrachloroethene	7.900000	UG/L	0.300000
0418	01/07/1999	Trichloroethylene (TCE)	5.000000	UG/L	1.200000
0418	04/29/1999	1,1,1-Trichloroethane	6.800000	UG/L	0.300000
0418	04/29/1999	Tetrachloroethene	10.000000	UG/L	0.300000
0418	04/29/1999	Trichloroethylene (TCE)	8.500000	UG/L	1.200000
0418	06/15/1999	1,1,1-Trichloroethane	5.600000	UG/L	0.300000
0418	06/15/1999	Tetrachloroethene	7.200000	UG/L	0.300000
0418	06/15/1999	Trichloroethylene (TCE)	5.400000	UG/L	1.200000
0418	08/31/1999	1,1,1-Trichloroethane	5.000000	UG/L	0.300000
0418	08/31/1999	1,1,1-Trichloroethane	3.900000	UG/L	0.300000
0418	08/31/1999	Tetrachloroethene	5.100000	UG/L	0.300000
0418	08/31/1999	Tetrachloroethene	5.100000	UG/L	0.300000
0418	08/31/1999	Trichloroethylene (TCE)	3.000000	UG/L	1.200000
0418	08/31/1999	Trichloroethylene (TCE)	2.300000	UG/L	1.200000
0418	01/24/2000	1,1,1-Trichloroethane	0.890000	UG/L	0.300000
0418	01/24/2000	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
0418	01/24/2000	Tetrachloroethene	2.900000	UG/L	0.300000
0418	01/24/2000	Tetrachloroethene	2.600000	UG/L	0.300000
0418	01/24/2000	Trichloroethylene (TCE)	3.200000	UG/L	1.200000
0418	01/24/2000	Trichloroethylene (TCE)	3.300000	UG/L	1.200000
0418	01/24/2000	Trichloromethane	0.940000	UG/L	0.500000
0418	01/24/2000	Trichloromethane	0.750000	UG/L	0.500000
0418	04/10/2000	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
0418	04/10/2000	Bromodichloromethane	1.300000	UG/L	1.000000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0418	04/10/2000	Dibromochloromethane	1.100000	UG/L	0.900000
0418	04/10/2000	Tetrachloroethene	2.500000	UG/L	0.300000
0418	04/10/2000	Trichloroethylene (TCE)	2.900000	UG/L	1.200000
0418	04/10/2000	Trichloromethane	2.000000	UG/L	0.500000
0418	06/20/2000	1,1,1-Trichloroethane	0.770000	UG/L	0.300000
0418	06/20/2000	Bromodichloromethane	2.200000	UG/L	1.000000
0418	06/20/2000	Dibromochloromethane	1.400000	UG/L	0.900000
0418	06/20/2000	Tetrachloroethene	1.500000	UG/L	0.300000
0418	06/20/2000	Trichloroethylene (TCE)	2.000000	UG/L	1.200000
0418	06/20/2000	Trichloromethane	1.000000	UG/L	0.500000
0418	09/20/2000	1,1,1-Trichloroethane	0.880000	UG/L	0.300000
0418	09/20/2000	Bromodichloromethane	1.900000	UG/L	1.000000
0418	09/20/2000	Dibromochloromethane	1.400000	UG/L	0.900000
0418	09/20/2000	Tetrachloroethene	2.400000	UG/L	0.300000
0418	09/20/2000	Trichloroethylene (TCE)	2.500000	UG/L	1.200000
0418	09/20/2000	Trichloromethane	1.700000	UG/L	0.500000
0418	02/01/2001	1,1,1-Trichloroethane	0.940000	UG/L	0.300000
0418	02/01/2001	Tetrachloroethene	2.500000	UG/L	0.300000
0418	02/01/2001	Trichloroethylene (TCE)	2.700000	UG/L	1.200000
0418	02/01/2001	Trichloromethane	1.100000	UG/L	0.500000
0418	05/02/2001	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
0418	05/02/2001	Tetrachloroethene	2.000000	UG/L	0.300000
0418	05/02/2001	Trichloroethylene (TCE)	1.500000	UG/L	1.200000
0418	05/02/2001	Trichloromethane	2.000000	UG/L	0.500000
0418	07/26/2001	1,1,1-Trichloroethane	0.790000	UG/L	0.300000
0418	07/26/2001	Tetrachloroethene	2.700000	UG/L	0.300000
0418	07/26/2001	Trichloroethylene (TCE)	2.200000	UG/L	1.200000
0418	07/26/2001	Trichloromethane	1.700000	UG/L	0.500000
0418	10/22/2001	1,1,1-Trichloroethane	0.780000	UG/L	0.300000
0418	10/22/2001	Tetrachloroethene	2.200000	UG/L	0.300000
0418	10/22/2001	Trichloroethylene (TCE)	1.600000	UG/L	1.200000
0418	10/22/2001	Trichloromethane	1.900000	UG/L	0.500000
0418	02/01/2002	1,1,1-Trichloroethane	0.950000	UG/L	0.300000
0418	02/01/2002	Tetrachloroethene	2.500000	UG/L	0.300000
0418	02/01/2002	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
0418	02/01/2002	Trichloromethane	0.920000	UG/L	0.500000
0418	04/22/2002	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
0418	04/22/2002	Tetrachloroethene	2.700000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0418	04/22/2002	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
0418	04/22/2002	Trichloromethane	1.600000	UG/L	0.500000
0418	07/29/2002	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
0418	07/29/2002	Tetrachloroethene	2.800000	UG/L	0.300000
0418	07/29/2002	Trichloroethylene (TCE)	2.100000	UG/L	1.200000
0418	07/29/2002	Trichloromethane	1.800000	UG/L	0.500000
0418	11/08/2002	Tetrachloroethene	2.200000	UG/L	0.300000
0418	11/08/2002	Trichloroethylene (TCE)	1.400000	UG/L	1.200000
0418	02/14/2003	1,1,1-Trichloroethane	0.840000	UG/L	0.300000
0418	02/14/2003	Tetrachloroethene	2.200000	UG/L	0.300000
0418	02/14/2003	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
0418	06/09/2003	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
0418	06/09/2003	2-Butanone	2.700000	UG/L	2.000000
0418	06/09/2003	Tetrachloroethene	2.500000	UG/L	0.300000
0418	06/09/2003	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
0418	06/09/2003	Trichloromethane	0.710000	UG/L	0.500000
0418	07/17/2003	1,1,1-Trichloroethane	0.760000	UG/L	0.300000
0418	07/17/2003	Tetrachloroethene	2.300000	UG/L	0.300000
0418	07/17/2003	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
0418	07/17/2003	Trichloromethane	1.700000	UG/L	0.500000
0418	10/14/2003	1,1,1-Trichloroethane	0.920000	UG/L	0.300000
0418	10/14/2003	1,1,1-Trichloroethane	0.920000	UG/L	0.300000
0418	10/14/2003	1,2-cis-Dichloroethene	1.000000	UG/L	1.000000
0418	10/14/2003	1,2-cis-Dichloroethene	1.000000	UG/L	1.000000
0418	10/14/2003	Tetrachloroethene	2.300000	UG/L	0.300000
0418	10/14/2003	Tetrachloroethene	2.300000	UG/L	0.300000
0418	10/14/2003	Trichloroethylene (TCE)	2.900000	UG/L	1.200000
0418	10/14/2003	Trichloroethylene (TCE)	2.900000	UG/L	1.200000
0418	10/14/2003	Trichloromethane	1.300000	UG/L	0.500000
0418	10/14/2003	Trichloromethane	1.300000	UG/L	0.500000
0419	03/26/1998	1,2-cis-Dichloroethene	4.600000	UG/L	1.000000
0419	03/26/1998	1,2-cis-Dichloroethene	5.300000	UG/L	1.000000
0419	03/26/1998	FREON-113	3.300000	UG/L	2.000000
0419	03/26/1998	FREON-113	3.000000	UG/L	2.000000
0419	03/26/1998	Tetrachloroethene	13.000000	UG/L	0.300000
0419	03/26/1998	Tetrachloroethene	18.000000	UG/L	0.300000
0419	03/26/1998	Trichloroethylene (TCE)	34.000000	UG/L	1.200000
0419	03/26/1998	Trichloroethylene (TCE)	35.000000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0419	03/26/1998	Trichloromethane	1.400000	UG/L	0.500000
0419	03/26/1998	Trichloromethane	1.200000	UG/L	0.500000
0419	06/25/1998	1,2-cis-Dichloroethene	4.000000	UG/L	1.000000
0419	06/25/1998	1,2-cis-Dichloroethene	3.500000	UG/L	1.000000
0419	06/25/1998	Tetrachloroethene	8.000000	UG/L	0.300000
0419	06/25/1998	Tetrachloroethene	8.800000	UG/L	0.300000
0419	06/25/1998	Trichloroethylene (TCE)	18.000000	UG/L	1.200000
0419	06/25/1998	Trichloroethylene (TCE)	21.000000	UG/L	1.200000
0419	06/25/1998	Trichloromethane	1.400000	UG/L	0.500000
0419	06/25/1998	Trichloromethane	1.400000	UG/L	0.500000
0419	10/13/1998	1,2-cis-Dichloroethene	14.000000	UG/L	1.000000
0419	10/13/1998	FREON-113	2.400000	UG/L	2.000000
0419	10/13/1998	Tetrachloroethene	11.000000	UG/L	0.300000
0419	10/13/1998	Trichloroethylene (TCE)	28.000000	UG/L	1.200000
0419	10/13/1998	Trichloromethane	2.100000	UG/L	0.500000
0419	01/08/1999	1,2-cis-Dichloroethene	75.000000	UG/L	2.000000
0419	01/08/1999	1,2-cis-Dichloroethene	56.000000	UG/L	2.000000
0419	01/08/1999	Tetrachloroethene	18.000000	UG/L	0.600000
0419	01/08/1999	Tetrachloroethene	12.000000	UG/L	0.600000
0419	01/08/1999	Trichloroethylene (TCE)	43.000000	UG/L	2.400000
0419	01/08/1999	Trichloroethylene (TCE)	29.000000	UG/L	2.400000
0419	01/08/1999	Trichloromethane	2.300000	UG/L	1.000000
0419	01/08/1999	Trichloromethane	2.500000	UG/L	1.000000
0419	04/30/1999	1,2-cis-Dichloroethene	3.500000	UG/L	1.000000
0419	04/30/1999	Carbon Tetrachloride	1.400000	UG/L	1.200000
0419	04/30/1999	Tetrachloroethene	16.000000	UG/L	0.300000
0419	04/30/1999	Trichloroethylene (TCE)	44.000000	UG/L	1.200000
0419	04/30/1999	Trichloromethane	1.800000	UG/L	0.500000
0419	06/15/1999	1,2-cis-Dichloroethene	1.900000	UG/L	1.000000
0419	06/15/1999	FREON-113	2.100000	UG/L	2.000000
0419	06/15/1999	Tetrachloroethene	14.000000	UG/L	0.300000
0419	06/15/1999	Trichloroethylene (TCE)	40.000000	UG/L	1.200000
0419	06/15/1999	Trichloromethane	1.200000	UG/L	0.500000
0419	08/31/1999	1,2-cis-Dichloroethene	23.000000	UG/L	1.000000
0419	08/31/1999	1,2-cis-Dichloroethene	27.000000	UG/L	1.000000
0419	08/31/1999	Carbon Tetrachloride	1.300000	UG/L	1.200000
0419	08/31/1999	Carbon Tetrachloride	1.700000	UG/L	1.200000
0419	08/31/1999	FREON-113	3.000000	UG/L	2.000000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0419	08/31/1999	FREON-113	2.400000	UG/L	2.000000
0419	08/31/1999	Tetrachloroethene	11.000000	UG/L	0.300000
0419	08/31/1999	Tetrachloroethene	14.000000	UG/L	0.300000
0419	08/31/1999	Trichloroethylene (TCE)	33.000000	UG/L	1.200000
0419	08/31/1999	Trichloroethylene (TCE)	37.000000	UG/L	1.200000
0419	08/31/1999	Trichloromethane	2.000000	UG/L	0.500000
0419	08/31/1999	Trichloromethane	1.100000	UG/L	0.500000
0419	01/24/2000	1,2-cis-Dichloroethene	20.000000	UG/L	1.000000
0419	01/24/2000	Carbon Tetrachloride	1.900000	UG/L	1.200000
0419	01/24/2000	FREON-113	2.300000	UG/L	2.000000
0419	01/24/2000	Tetrachloroethene	12.000000	UG/L	0.300000
0419	01/24/2000	Trichloroethylene (TCE)	30.000000	UG/L	1.200000
0419	01/24/2000	Trichloromethane	1.700000	UG/L	0.500000
0419	04/10/2000	1,2-cis-Dichloroethene	14.000000	UG/L	1.000000
0419	04/10/2000	Carbon Tetrachloride	1.900000	UG/L	1.200000
0419	04/10/2000	Tetrachloroethene	10.000000	UG/L	0.300000
0419	04/10/2000	Trichloroethylene (TCE)	21.000000	UG/L	1.200000
0419	04/10/2000	Trichloromethane	1.600000	UG/L	0.500000
0419	06/20/2000	1,2-cis-Dichloroethene	5.500000	UG/L	1.000000
0419	06/20/2000	Carbon Tetrachloride	1.300000	UG/L	1.200000
0419	06/20/2000	FREON-113	2.400000	UG/L	2.000000
0419	06/20/2000	Tetrachloroethene	7.200000	UG/L	0.300000
0419	06/20/2000	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
0419	06/20/2000	Trichloromethane	1.500000	UG/L	0.500000
0419	09/20/2000	1,1,1-Trichloroethane	0.360000	UG/L	0.300000
0419	09/20/2000	1,2-cis-Dichloroethene	40.000000	UG/L	1.000000
0419	09/20/2000	Carbon Tetrachloride	1.700000	UG/L	1.200000
0419	09/20/2000	Tetrachloroethene	10.000000	UG/L	0.300000
0419	09/20/2000	Trichloroethylene (TCE)	26.000000	UG/L	1.200000
0419	09/20/2000	Trichloromethane	2.600000	UG/L	0.500000
0419	02/20/2001	1,2-cis-Dichloroethene	38.000000	UG/L	1.000000
0419	02/20/2001	1,2-trans-Dichloroethene	1.800000	UG/L	1.000000
0419	02/20/2001	Carbon Tetrachloride	1.400000	UG/L	1.200000
0419	02/20/2001	FREON-113	3.600000	UG/L	2.000000
0419	02/20/2001	Tetrachloroethene	8.700000	UG/L	0.300000
0419	02/20/2001	Trichloroethylene (TCE)	20.000000	UG/L	1.200000
0419	02/20/2001	Trichloromethane	2.000000	UG/L	0.500000
0419	05/02/2001	1,2-cis-Dichloroethene	15.000000	UG/L	1.000000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0419	05/02/2001	FREON-113	2.700000	UG/L	2.000000
0419	05/02/2001	Tetrachloroethene	9.800000	UG/L	0.300000
0419	05/02/2001	Trichloroethylene (TCE)	22.000000	UG/L	1.200000
0419	05/02/2001	Trichloromethane	1.300000	UG/L	0.500000
0419	07/26/2001	1,2-cis-Dichloroethene	3.100000	UG/L	1.000000
0419	07/26/2001	FREON-113	3.200000	UG/L	2.000000
0419	07/26/2001	Tetrachloroethene	11.000000	UG/L	0.300000
0419	07/26/2001	Trichloroethylene (TCE)	23.000000	UG/L	1.200000
0419	07/26/2001	Trichloromethane	1.400000	UG/L	0.500000
0419	10/23/2001	1,2-cis-Dichloroethene	2.600000	UG/L	1.000000
0419	10/23/2001	Carbon Tetrachloride	2.200000	UG/L	1.200000
0419	10/23/2001	Tetrachloroethene	7.800000	UG/L	0.300000
0419	10/23/2001	Trichloroethylene (TCE)	21.000000	UG/L	1.200000
0419	10/23/2001	Trichloromethane	1.400000	UG/L	0.500000
0419	01/31/2002	Tetrachloroethene	8.900000	UG/L	0.300000
0419	01/31/2002	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0419	04/23/2002	Tetrachloroethene	3.100000	UG/L	0.300000
0419	04/23/2002	Trichloroethylene (TCE)	4.300000	UG/L	1.200000
0419	07/29/2002	Tetrachloroethene	5.800000	UG/L	0.300000
0419	07/29/2002	Trichloroethylene (TCE)	9.100000	UG/L	1.200000
0419	11/13/2002	1,2-cis-Dichloroethene	9.200000	UG/L	1.000000
0419	11/13/2002	Tetrachloroethene	7.200000	UG/L	0.300000
0419	11/13/2002	Trichloroethylene (TCE)	16.000000	UG/L	1.200000
0419	02/19/2003	Tetrachloroethene	5.400000	UG/L	0.300000
0419	02/19/2003	Trichloroethylene (TCE)	9.300000	UG/L	1.200000
0419	05/19/2003	Carbon Tetrachloride	1.500000	UG/L	1.200000
0419	05/19/2003	Carbon Tetrachloride	1.500000	UG/L	1.200000
0419	05/19/2003	FREON-113	2.800000	UG/L	2.000000
0419	05/19/2003	FREON-113	2.800000	UG/L	2.000000
0419	05/19/2003	Tetrachloroethene	5.400000	UG/L	0.300000
0419	05/19/2003	Tetrachloroethene	5.400000	UG/L	0.300000
0419	05/19/2003	Trichloroethylene (TCE)	11.000000	UG/L	1.200000
0419	05/19/2003	Trichloroethylene (TCE)	11.000000	UG/L	1.200000
0419	05/19/2003	Trichloromethane	1.200000	UG/L	0.500000
0419	05/19/2003	Trichloromethane	1.200000	UG/L	0.500000
0419	05/27/2003	1,2-cis-Dichloroethene	3.600000	UG/L	1.000000
0419	05/27/2003	2-Butanone	2.100000	UG/L	2.000000
0419	05/27/2003	Tetrachloroethene	5.300000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0419	05/27/2003	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0419	05/27/2003	Trichloromethane	0.720000	UG/L	0.500000
0419	06/02/2003	1,2-cis-Dichloroethene	5.100000	UG/L	1.000000
0419	06/02/2003	Tetrachloroethene	4.800000	UG/L	0.300000
0419	06/02/2003	Trichloroethylene (TCE)	14.000000	UG/L	1.200000
0419	06/02/2003	Trichloromethane	0.820000	UG/L	0.500000
0419	06/09/2003	1,2-cis-Dichloroethene	5.000000	UG/L	1.000000
0419	06/09/2003	Tetrachloroethene	5.000000	UG/L	0.300000
0419	06/09/2003	Trichloroethylene (TCE)	16.000000	UG/L	1.200000
0419	06/09/2003	Trichloromethane	1.100000	UG/L	0.500000
0419	06/30/2003	Carbon Tetrachloride	2.200000	UG/L	1.200000
0419	06/30/2003	FREON-113	2.200000	UG/L	2.000000
0419	06/30/2003	Tetrachloroethene	4.100000	UG/L	0.300000
0419	06/30/2003	Trichloroethylene (TCE)	14.000000	UG/L	1.200000
0419	06/30/2003	Trichloromethane	1.700000	UG/L	0.500000
0419	07/14/2003	Carbon Tetrachloride	1.200000	UG/L	1.200000
0419	07/14/2003	Carbon Tetrachloride	1.200000	UG/L	1.200000
0419	07/14/2003	Tetrachloroethene	4.700000	UG/L	0.300000
0419	07/14/2003	Tetrachloroethene	4.700000	UG/L	0.300000
0419	07/14/2003	Trichloroethylene (TCE)	8.300000	UG/L	1.200000
0419	07/14/2003	Trichloroethylene (TCE)	8.300000	UG/L	1.200000
0419	07/14/2003	Trichloromethane	0.980000	UG/L	0.500000
0419	07/14/2003	Trichloromethane	0.980000	UG/L	0.500000
0419	08/13/2003	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
0419	08/13/2003	Tetrachloroethene	5.100000	UG/L	0.300000
0419	08/13/2003	Trichloroethylene (TCE)	15.000000	UG/L	1.200000
0419	08/13/2003	Trichloromethane	1.400000	UG/L	0.500000
0419	09/16/2003	Carbon Tetrachloride	1.600000	UG/L	1.200000
0419	09/16/2003	Tetrachloroethene	5.200000	UG/L	0.300000
0419	09/16/2003	Trichloroethylene (TCE)	9.000000	UG/L	1.200000
0419	09/16/2003	Trichloromethane	1.300000	UG/L	0.500000
0419	10/17/2003	1,2-cis-Dichloroethene	2.300000	UG/L	1.000000
0419	10/17/2003	1,2-cis-Dichloroethene	2.300000	UG/L	1.000000
0419	10/17/2003	Carbon Tetrachloride	1.400000	UG/L	1.200000
0419	10/17/2003	Carbon Tetrachloride	1.400000	UG/L	1.200000
0419	10/17/2003	Tetrachloroethene	5.000000	UG/L	0.300000
0419	10/17/2003	Tetrachloroethene	5.000000	UG/L	0.300000
0419	10/17/2003	Trichloroethylene (TCE)	12.000000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0419	10/17/2003	Trichloroethylene (TCE)	12.000000	UG/L	1.200000
0419	10/17/2003	Trichloromethane	0.950000	UG/L	0.500000
0419	10/17/2003	Trichloromethane	0.950000	UG/L	0.500000
0424	03/23/1998	1,1,1-Trichloroethane	3.700000	UG/L	0.300000
0424	03/23/1998	1,1,1-Trichloroethane	4.100000	UG/L	0.300000
0424	03/23/1998	Tetrachloroethene	0.370000	UG/L	0.300000
0424	03/23/1998	Tetrachloroethene	0.530000	UG/L	0.300000
0424	06/18/1998	1,1,1-Trichloroethane	4.500000	UG/L	0.300000
0424	06/18/1998	1,1,1-Trichloroethane	4.500000	UG/L	0.300000
0424	06/18/1998	Tetrachloroethene	0.710000	UG/L	0.300000
0424	06/18/1998	Tetrachloroethene	0.470000	UG/L	0.300000
0424	10/07/1998	1,1,1-Trichloroethane	7.100000	UG/L	0.300000
0424	10/07/1998	1,1,1-Trichloroethane	6.400000	UG/L	0.300000
0424	10/07/1998	Trichloroethylene (TCE)	1.100000	UG/L	1.200000
0424	10/07/1998	Trichloroethylene (TCE)	1.200000	UG/L	1.200000
0424	01/06/1999	1,1,1-Trichloroethane	6.900000	UG/L	0.300000
0424	01/06/1999	Tetrachloroethene	0.640000	UG/L	0.300000
0424	04/28/1999	1,1,1-Trichloroethane	7.500000	UG/L	0.300000
0424	04/28/1999	Tetrachloroethene	0.690000	UG/L	0.300000
0424	06/17/1999	1,1,1-Trichloroethane	5.800000	UG/L	0.300000
0424	09/01/1999	1,1,1-Trichloroethane	5.100000	UG/L	0.300000
0424	09/01/1999	1,1,1-Trichloroethane	4.200000	UG/L	0.300000
0424	09/01/1999	Tetrachloroethene	0.340000	UG/L	0.300000
0424	09/01/1999	Tetrachloroethene	0.380000	UG/L	0.300000
0424	01/20/2000	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
0424	01/20/2000	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
0424	01/20/2000	Bromodichloromethane	1.100000	UG/L	1.000000
0424	01/20/2000	Bromodichloromethane	1.200000	UG/L	1.000000
0424	01/20/2000	Tetrachloroethene	0.960000	UG/L	0.300000
0424	01/20/2000	Tetrachloroethene	0.950000	UG/L	0.300000
0424	01/20/2000	Trichloromethane	1.200000	UG/L	0.500000
0424	01/20/2000	Trichloromethane	0.570000	UG/L	0.500000
0424	04/11/2000	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
0424	04/11/2000	Bromodichloromethane	1.800000	UG/L	1.000000
0424	04/11/2000	Dibromochloromethane	1.800000	UG/L	0.900000
0424	04/11/2000	Tetrachloroethene	0.900000	UG/L	0.300000
0424	04/11/2000	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
0424	04/11/2000	Trichloromethane	1.300000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0424	06/21/2000	1,1,1-Trichloroethane	0.730000	UG/L	0.300000
0424	06/21/2000	Bromodichloromethane	1.200000	UG/L	1.000000
0424	06/21/2000	Dibromochloromethane	1.700000	UG/L	0.900000
0424	06/21/2000	Tetrachloroethene	0.580000	UG/L	0.300000
0424	06/21/2000	Trichloroethylene (TCE)	1.200000	UG/L	1.200000
0424	06/21/2000	Trichloromethane	0.910000	UG/L	0.500000
0424	09/19/2000	1,1,1-Trichloroethane	0.970000	UG/L	0.300000
0424	09/19/2000	Bromodichloromethane	1.500000	UG/L	1.000000
0424	09/19/2000	Dibromochloromethane	1.100000	UG/L	0.900000
0424	09/19/2000	Tetrachloroethene	0.680000	UG/L	0.300000
0424	09/19/2000	Trichloromethane	0.830000	UG/L	0.500000
0424	01/31/2001	1,1,1-Trichloroethane	3.100000	UG/L	0.300000
0424	01/31/2001	Tetrachloroethene	0.760000	UG/L	0.300000
0424	01/31/2001	Trichloromethane	1.400000	UG/L	0.500000
0424	05/01/2001	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
0424	05/01/2001	Tetrachloroethene	0.740000	UG/L	0.300000
0424	05/01/2001	Trichloromethane	1.300000	UG/L	0.500000
0424	07/23/2001	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
0424	07/23/2001	Tetrachloroethene	0.490000	UG/L	0.300000
0424	07/23/2001	Trichloromethane	1.300000	UG/L	0.500000
0424	10/17/2001	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
0424	10/17/2001	Tetrachloroethene	0.460000	UG/L	0.300000
0424	10/17/2001	Trichloromethane	1.400000	UG/L	0.500000
0424	01/23/2002	1,1,1-Trichloroethane	0.800000	UG/L	0.300000
0424	01/23/2002	Tetrachloroethene	0.350000	UG/L	0.300000
0424	01/23/2002	Trichloromethane	0.850000	UG/L	0.500000
0424	04/19/2002	1,1,1-Trichloroethane	0.840000	UG/L	0.300000
0424	07/29/2002	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
0424	07/29/2002	Tetrachloroethene	0.380000	UG/L	0.300000
0424	02/13/2003	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
0424	04/30/2003	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
0424	07/16/2003	1,1,1-Trichloroethane	0.530000	UG/L	0.300000
0424	07/16/2003	Trichloromethane	1.400000	UG/L	0.500000
0424	10/14/2003	1,1,1-Trichloroethane	0.960000	UG/L	0.300000
0424	10/14/2003	1,1,1-Trichloroethane	0.960000	UG/L	0.300000
0424	10/14/2003	Tetrachloroethene	0.680000	UG/L	0.300000
0424	10/14/2003	Tetrachloroethene	0.680000	UG/L	0.300000
0424	10/14/2003	Trichloromethane	0.740000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0424	10/14/2003	Trichloromethane	0.740000	UG/L	0.500000
0425	03/23/1998	1,1,1-Trichloroethane	5.800000	UG/L	0.300000
0425	03/23/1998	1,1,1-Trichloroethane	6.800000	UG/L	0.300000
0425	03/23/1998	Tetrachloroethene	0.460000	UG/L	0.300000
0425	03/23/1998	Tetrachloroethene	0.500000	UG/L	0.300000
0425	06/18/1998	1,1,1-Trichloroethane	7.000000	UG/L	0.300000
0425	06/18/1998	1,1,1-Trichloroethane	8.100000	UG/L	0.300000
0425	06/18/1998	Tetrachloroethene	0.480000	UG/L	0.300000
0425	06/18/1998	Tetrachloroethene	0.340000	UG/L	0.300000
0425	01/06/1999	1,1,1-Trichloroethane	9.000000	UG/L	0.300000
0425	01/06/1999	1,1,1-Trichloroethane	9.100000	UG/L	0.300000
0425	01/06/1999	Tetrachloroethene	0.350000	UG/L	0.300000
0425	01/06/1999	Tetrachloroethene	0.300000	UG/L	0.300000
0425	04/28/1999	1,1,1-Trichloroethane	12.000000	UG/L	0.300000
0425	04/28/1999	Tetrachloroethene	0.610000	UG/L	0.300000
0425	06/17/1999	1,1,1-Trichloroethane	8.700000	UG/L	0.300000
0425	06/17/1999	Tetrachloroethene	0.450000	UG/L	0.300000
0425	09/01/1999	1,1,1-Trichloroethane	5.600000	UG/L	0.300000
0425	09/01/1999	1,1,1-Trichloroethane	4.800000	UG/L	0.300000
0425	09/01/1999	1,1,1-Trichloroethane	4.900000	UG/L	0.300000
0425	09/01/1999	1,1,1-Trichloroethane	5.100000	UG/L	0.300000
0425	01/20/2000	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
0425	01/20/2000	Tetrachloroethene	1.300000	UG/L	0.300000
0425	01/20/2000	Trichloromethane	1.100000	UG/L	0.500000
0425	04/11/2000	1,1,1-Trichloroethane	0.570000	UG/L	0.300000
0425	04/11/2000	Bromodichloromethane	1.400000	UG/L	1.000000
0425	04/11/2000	Dibromochloromethane	1.700000	UG/L	0.900000
0425	04/11/2000	Tetrachloroethene	0.890000	UG/L	0.300000
0425	06/21/2000	1,1,1-Trichloroethane	0.580000	UG/L	0.300000
0425	06/21/2000	Bromodichloromethane	1.400000	UG/L	1.000000
0425	06/21/2000	Dibromochloromethane	2.000000	UG/L	0.900000
0425	06/21/2000	Tetrachloroethene	0.730000	UG/L	0.300000
0425	06/21/2000	Trichloromethane	1.100000	UG/L	0.500000
0425	09/19/2000	1,1,1-Trichloroethane	0.940000	UG/L	0.300000
0425	09/19/2000	Bromodichloromethane	1.700000	UG/L	1.000000
0425	09/19/2000	Dibromochloromethane	1.200000	UG/L	0.900000
0425	09/19/2000	Tetrachloroethene	0.860000	UG/L	0.300000
0425	09/19/2000	Trichloromethane	1.300000	UG/L	0.500000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
0425	01/31/2001	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
0425	01/31/2001	Tetrachloroethene	0.800000	UG/L	0.300000
0425	01/31/2001	Trichloromethane	1.200000	UG/L	0.500000
0425	05/01/2001	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
0425	05/01/2001	Trichloromethane	1.600000	UG/L	0.500000
0425	07/23/2001	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
0425	07/23/2001	Trichloromethane	1.600000	UG/L	0.500000
0425	10/17/2001	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
0425	10/17/2001	Tetrachloroethene	0.370000	UG/L	0.300000
0425	10/17/2001	Trichloromethane	1.900000	UG/L	0.500000
0425	01/24/2002	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
0425	01/24/2002	Tetrachloroethene	0.300000	UG/L	0.300000
0425	01/24/2002	Trichloromethane	0.640000	UG/L	0.500000
0425	04/19/2002	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
0425	07/29/2002	1,1,1-Trichloroethane	0.630000	UG/L	0.300000
0425	02/13/2003	1,1,1-Trichloroethane	0.940000	UG/L	0.300000
0425	06/10/2003	1,1,1-Trichloroethane	0.720000	UG/L	0.300000
0425	06/10/2003	1,1,1-Trichloroethane	0.720000	UG/L	0.300000
0425	06/10/2003	2-Butanone	2.500000	UG/L	2.000000
0425	06/10/2003	2-Butanone	2.500000	UG/L	2.000000
0425	06/10/2003	Trichloromethane	0.740000	UG/L	0.500000
0425	06/10/2003	Trichloromethane	0.740000	UG/L	0.500000
0425	07/15/2003	1,1,1-Trichloroethane	0.640000	UG/L	0.300000
0425	07/15/2003	1,1,1-Trichloroethane	0.640000	UG/L	0.300000
0425	07/15/2003	Trichloromethane	1.700000	UG/L	0.500000
0425	07/15/2003	Trichloromethane	1.700000	UG/L	0.500000
0425	08/14/2003	1,1,1-Trichloroethane	0.770000	UG/L	0.300000
0425	08/14/2003	Tetrachloroethene	0.440000	UG/L	0.300000
0425	08/14/2003	Trichloromethane	0.790000	UG/L	0.500000
0425	09/16/2003	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
0425	09/16/2003	Trichloromethane	1.500000	UG/L	0.500000
0425	10/14/2003	1,1,1-Trichloroethane	0.910000	UG/L	0.300000
0425	10/14/2003	1,1,1-Trichloroethane	0.910000	UG/L	0.300000
0425	10/14/2003	Tetrachloroethene	0.830000	UG/L	0.300000
0425	10/14/2003	Tetrachloroethene	0.830000	UG/L	0.300000
0425	10/14/2003	Trichloromethane	0.820000	UG/L	0.500000
0425	10/14/2003	Trichloromethane	0.820000	UG/L	0.500000
P015	04/01/1998	1,2-cis-Dichloroethene	14.000000	UG/L	1.000000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P015	04/01/1998	1,2-cis-Dichloroethene	17.000000	UG/L	1.000000
P015	04/01/1998	Tetrachloroethene	3.900000	UG/L	0.300000
P015	04/01/1998	Tetrachloroethene	5.000000	UG/L	0.300000
P015	04/01/1998	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
P015	04/01/1998	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
P015	04/01/1998	Trichloromethane	1.700000	UG/L	0.500000
P015	04/01/1998	Trichloromethane	1.600000	UG/L	0.500000
P015	06/24/1998	1,2-cis-Dichloroethene	7.000000	UG/L	1.000000
P015	06/24/1998	1,2-cis-Dichloroethene	8.400000	UG/L	1.000000
P015	06/24/1998	Tetrachloroethene	3.500000	UG/L	0.300000
P015	06/24/1998	Tetrachloroethene	5.400000	UG/L	0.300000
P015	06/24/1998	Trichloroethylene (TCE)	10.000000	UG/L	1.200000
P015	06/24/1998	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
P015	06/24/1998	Trichloromethane	1.300000	UG/L	0.500000
P015	06/24/1998	Trichloromethane	1.700000	UG/L	0.500000
P015	10/14/1998	1,2-cis-Dichloroethene	4.200000	UG/L	1.000000
P015	10/14/1998	1,2-cis-Dichloroethene	3.700000	UG/L	1.000000
P015	10/14/1998	Tetrachloroethene	5.400000	UG/L	0.300000
P015	10/14/1998	Tetrachloroethene	5.400000	UG/L	0.300000
P015	10/14/1998	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
P015	10/14/1998	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
P015	10/14/1998	Trichloromethane	1.600000	UG/L	0.500000
P015	10/14/1998	Trichloromethane	2.000000	UG/L	0.500000
P015	01/19/1999	1,2-cis-Dichloroethene	4.400000	UG/L	1.000000
P015	01/19/1999	1,2-cis-Dichloroethene	4.100000	UG/L	1.000000
P015	01/19/1999	Tetrachloroethene	8.300000	UG/L	0.300000
P015	01/19/1999	Tetrachloroethene	7.200000	UG/L	0.300000
P015	01/19/1999	Trichloroethylene (TCE)	26.000000	UG/L	1.200000
P015	01/19/1999	Trichloroethylene (TCE)	24.000000	UG/L	1.200000
P015	01/19/1999	Trichloromethane	1.500000	UG/L	0.500000
P015	01/19/1999	Trichloromethane	1.200000	UG/L	0.500000
P015	04/27/1999	1,2-cis-Dichloroethene	6.900000	UG/L	1.000000
P015	04/27/1999	1,2-trans-Dichloroethene	1.000000	UG/L	1.000000
P015	04/27/1999	Tetrachloroethene	8.300000	UG/L	0.300000
P015	04/27/1999	Trichloroethylene (TCE)	25.000000	UG/L	1.200000
P015	04/27/1999	Trichloromethane	1.900000	UG/L	0.500000
P015	06/21/1999	1,2-cis-Dichloroethene	1.700000	UG/L	1.000000
P015	06/21/1999	Tetrachloroethene	4.400000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P015	06/21/1999	Trichloroethylene (TCE)	14.000000	UG/L	1.200000
P015	06/21/1999	Trichloromethane	0.770000	UG/L	0.500000
P015	09/02/1999	1,2-cis-Dichloroethene	4.200000	UG/L	1.000000
P015	09/02/1999	1,2-cis-Dichloroethene	4.000000	UG/L	1.000000
P015	09/02/1999	Tetrachloroethene	5.900000	UG/L	0.300000
P015	09/02/1999	Tetrachloroethene	6.800000	UG/L	0.300000
P015	09/02/1999	Trichloroethylene (TCE)	19.000000	UG/L	1.200000
P015	09/02/1999	Trichloroethylene (TCE)	20.000000	UG/L	1.200000
P015	09/02/1999	Trichloromethane	1.100000	UG/L	0.500000
P015	09/02/1999	Trichloromethane	1.300000	UG/L	0.500000
P015	02/01/2000	1,2-cis-Dichloroethene	3.000000	UG/L	1.000000
P015	02/01/2000	Tetrachloroethene	6.000000	UG/L	0.300000
P015	02/01/2000	Trichloroethylene (TCE)	25.000000	UG/L	1.200000
P015	02/01/2000	Trichloromethane	1.500000	UG/L	0.500000
P015	04/14/2000	1,2-cis-Dichloroethene	3.000000	UG/L	1.000000
P015	04/14/2000	Tetrachloroethene	5.000000	UG/L	0.300000
P015	04/14/2000	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
P015	06/23/2000	1,2-cis-Dichloroethene	3.000000	UG/L	1.000000
P015	06/23/2000	Tetrachloroethene	5.000000	UG/L	0.300000
P015	06/23/2000	Trichloroethylene (TCE)	17.000000	UG/L	1.200000
P015	06/23/2000	Trichloromethane	2.000000	UG/L	0.500000
P015	09/29/2000	1,1,1-Trichloroethane	0.320000	UG/L	0.300000
P015	09/29/2000	1,2-cis-Dichloroethene	2.200000	UG/L	1.000000
P015	09/29/2000	2-Butanone	6.800000	UG/L	2.000000
P015	09/29/2000	Tetrachloroethene	5.600000	UG/L	0.300000
P015	09/29/2000	Trichloroethylene (TCE)	16.000000	UG/L	1.200000
P015	09/29/2000	Trichloromethane	1.700000	UG/L	0.500000
P015	03/01/2001	1,2-cis-Dichloroethene	1.900000	UG/L	1.000000
P015	03/01/2001	Tetrachloroethene	6.000000	UG/L	0.300000
P015	03/01/2001	Trichloroethylene (TCE)	14.000000	UG/L	1.200000
P015	03/01/2001	Trichloromethane	0.720000	UG/L	0.500000
P015	05/03/2001	1,2-cis-Dichloroethene	2.400000	UG/L	1.000000
P015	05/03/2001	Tetrachloroethene	4.300000	UG/L	0.300000
P015	05/03/2001	Trichloroethylene (TCE)	9.600000	UG/L	1.200000
P015	05/03/2001	Trichloromethane	0.750000	UG/L	0.500000
P015	07/27/2001	1,2-cis-Dichloroethene	2.000000	UG/L	1.000000
P015	07/27/2001	Tetrachloroethene	5.800000	UG/L	0.300000
P015	07/27/2001	Trichloroethylene (TCE)	13.000000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P015	07/27/2001	Trichloromethane	1.600000	UG/L	0.500000
P015	10/23/2001	1,2-cis-Dichloroethene	2.100000	UG/L	1.000000
P015	10/23/2001	Tetrachloroethene	5.800000	UG/L	0.300000
P015	10/23/2001	Trichloroethylene (TCE)	13.000000	UG/L	1.200000
P015	10/23/2001	Trichloromethane	1.200000	UG/L	0.500000
P015	01/25/2002	1,2-cis-Dichloroethene	1.200000	UG/L	1.000000
P015	01/25/2002	Tetrachloroethene	4.500000	UG/L	0.300000
P015	01/25/2002	Trichloroethylene (TCE)	8.300000	UG/L	1.200000
P015	01/25/2002	Trichloromethane	0.670000	UG/L	0.500000
P015	04/24/2002	1,2-cis-Dichloroethene	1.500000	UG/L	1.000000
P015	04/24/2002	Tetrachloroethene	5.200000	UG/L	0.300000
P015	04/24/2002	Trichloroethylene (TCE)	9.500000	UG/L	1.200000
P015	04/24/2002	Trichloromethane	0.990000	UG/L	0.500000
P015	07/25/2002	Tetrachloroethene	4.900000	UG/L	0.300000
P015	07/25/2002	Trichloroethylene (TCE)	9.800000	UG/L	1.200000
P015	11/04/2002	Tetrachloroethene	4.200000	UG/L	0.300000
P015	11/04/2002	Trichloroethylene (TCE)	8.000000	UG/L	1.200000
P015	02/19/2003	Tetrachloroethene	3.000000	UG/L	0.300000
P015	02/19/2003	Trichloroethylene (TCE)	6.600000	UG/L	1.200000
P015	05/19/2003	1,1,1-Trichloroethane	0.700000	UG/L	0.300000
P015	05/19/2003	1,1,1-Trichloroethane	0.700000	UG/L	0.300000
P015	05/19/2003	1,2-Dichloroethane	0.550000	UG/L	0.300000
P015	05/19/2003	1,2-Dichloroethane	0.550000	UG/L	0.300000
P015	05/19/2003	Carbon Tetrachloride	1.300000	UG/L	1.200000
P015	05/19/2003	Carbon Tetrachloride	1.300000	UG/L	1.200000
P015	05/19/2003	Tetrachloroethene	3.300000	UG/L	0.300000
P015	05/19/2003	Tetrachloroethene	3.300000	UG/L	0.300000
P015	05/19/2003	Trichloroethylene (TCE)	5.500000	UG/L	1.200000
P015	05/19/2003	Trichloroethylene (TCE)	5.500000	UG/L	1.200000
P015	05/19/2003	Trichloromethane	1.300000	UG/L	0.500000
P015	05/19/2003	Trichloromethane	1.300000	UG/L	0.500000
P015	05/27/2003	2-Butanone	2.400000	UG/L	2.000000
P015	05/27/2003	Tetrachloroethene	2.600000	UG/L	0.300000
P015	05/27/2003	Trichloroethylene (TCE)	6.100000	UG/L	1.200000
P015	06/03/2003	1,1,1-Trichloroethane	0.430000	UG/L	0.300000
P015	06/03/2003	2-Butanone	2.400000	UG/L	2.000000
P015	06/03/2003	Tetrachloroethene	2.500000	UG/L	0.300000
P015	06/03/2003	Trichloroethylene (TCE)	6.000000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P015	06/09/2003	Tetrachloroethene	2.200000	UG/L	0.300000
P015	06/09/2003	Trichloroethylene (TCE)	4.000000	UG/L	1.200000
P015	06/09/2003	Trichloromethane	0.790000	UG/L	0.500000
P015	06/30/2003	Tetrachloroethene	2.500000	UG/L	0.300000
P015	06/30/2003	Trichloroethylene (TCE)	4.700000	UG/L	1.200000
P015	06/30/2003	Trichloromethane	0.790000	UG/L	0.500000
P015	07/14/2003	Tetrachloroethene	1.900000	UG/L	0.300000
P015	07/14/2003	Tetrachloroethene	1.900000	UG/L	0.300000
P015	07/14/2003	Trichloroethylene (TCE)	3.300000	UG/L	1.200000
P015	07/14/2003	Trichloroethylene (TCE)	3.300000	UG/L	1.200000
P015	07/14/2003	Trichloromethane	0.740000	UG/L	0.500000
P015	07/14/2003	Trichloromethane	0.740000	UG/L	0.500000
P015	08/13/2003	Tetrachloroethene	2.600000	UG/L	0.300000
P015	08/13/2003	Trichloroethylene (TCE)	6.000000	UG/L	1.200000
P015	09/16/2003	Tetrachloroethene	2.800000	UG/L	0.300000
P015	09/16/2003	Trichloroethylene (TCE)	6.500000	UG/L	1.200000
P015	09/16/2003	Trichloromethane	0.990000	UG/L	0.500000
P015	10/15/2003	1,2-cis-Dichloroethene	1.100000	UG/L	1.000000
P015	10/15/2003	1,2-cis-Dichloroethene	1.100000	UG/L	1.000000
P015	10/15/2003	Tetrachloroethene	3.100000	UG/L	0.300000
P015	10/15/2003	Tetrachloroethene	3.100000	UG/L	0.300000
P015	10/15/2003	Trichloroethylene (TCE)	7.600000	UG/L	1.200000
P015	10/15/2003	Trichloroethylene (TCE)	7.600000	UG/L	1.200000
P025	06/25/1998	1,1,1-Trichloroethane	2.000000	UG/L	0.300000
P025	06/25/1998	1,1,1-Trichloroethane	1.800000	UG/L	0.300000
P025	04/17/2000	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
P025	06/26/2000	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
P025	06/26/2000	Bromodichloromethane	2.000000	UG/L	1.000000
P025	06/26/2000	Dibromochloromethane	1.500000	UG/L	0.900000
P025	06/26/2000	Trichloromethane	1.700000	UG/L	0.500000
P025	02/23/2001	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P025	02/23/2001	Trichloromethane	0.540000	UG/L	0.500000
P025	04/27/2001	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
P025	10/23/2001	1,1,1-Trichloroethane	0.960000	UG/L	0.300000
P025	01/21/2002	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
P025	01/21/2002	Trichloromethane	0.670000	UG/L	0.500000
P025	05/07/2002	1,1,1-Trichloroethane	0.710000	UG/L	0.300000
P025	04/30/2003	1,1,1-Trichloroethane	1.500000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P025	04/30/2003	Trichloromethane	1.200000	UG/L	0.500000
P025	07/25/2003	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P025	07/25/2003	Trichloromethane	1.300000	UG/L	0.500000
P027	03/25/1998	1,1,1-Trichloroethane	3.000000	UG/L	0.300000
P027	03/25/1998	1,1,1-Trichloroethane	3.300000	UG/L	0.300000
P027	03/25/1998	Tetrachloroethene	1.400000	UG/L	0.300000
P027	03/25/1998	Tetrachloroethene	1.600000	UG/L	0.300000
P027	06/25/1998	1,1,1-Trichloroethane	2.000000	UG/L	0.300000
P027	06/25/1998	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
P027	06/25/1998	Tetrachloroethene	1.400000	UG/L	0.300000
P027	06/25/1998	Tetrachloroethene	1.400000	UG/L	0.300000
P027	06/25/1998	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
P027	06/25/1998	Trichloroethylene (TCE)	1.400000	UG/L	1.200000
P027	10/08/1998	1,1,1-Trichloroethane	3.600000	UG/L	0.300000
P027	10/08/1998	1,1,1-Trichloroethane	3.000000	UG/L	0.300000
P027	10/08/1998	Tetrachloroethene	1.200000	UG/L	0.300000
P027	10/08/1998	Tetrachloroethene	1.400000	UG/L	0.300000
P027	10/08/1998	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P027	01/06/1999	1,1,1-Trichloroethane	4.100000	UG/L	0.300000
P027	01/06/1999	Tetrachloroethene	0.870000	UG/L	0.300000
P027	01/06/1999	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P027	05/03/1999	1,1,1-Trichloroethane	5.000000	UG/L	0.300000
P027	05/03/1999	Tetrachloroethene	1.800000	UG/L	0.300000
P027	05/03/1999	Trichloroethylene (TCE)	1.600000	UG/L	1.200000
P027	06/17/1999	1,1,1-Trichloroethane	2.900000	UG/L	0.300000
P027	06/17/1999	Tetrachloroethene	1.200000	UG/L	0.300000
P027	09/01/1999	1,1,1-Trichloroethane	4.200000	UG/L	0.300000
P027	09/01/1999	1,1,1-Trichloroethane	3.400000	UG/L	0.300000
P027	01/19/2000	1,1,1-Trichloroethane	2.100000	UG/L	0.300000
P027	01/19/2000	Tetrachloroethene	0.840000	UG/L	0.300000
P027	04/13/2000	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
P027	04/13/2000	Tetrachloroethene	0.960000	UG/L	0.300000
P027	06/26/2000	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
P027	06/26/2000	Bromodichloromethane	1.300000	UG/L	1.000000
P027	06/26/2000	Dibromochloromethane	1.000000	UG/L	0.900000
P027	06/26/2000	Tetrachloroethene	0.850000	UG/L	0.300000
P027	06/26/2000	Trichloromethane	1.300000	UG/L	0.500000
P027	09/28/2000	1,1,1-Trichloroethane	0.890000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P027	09/28/2000	Tetrachloroethene	0.400000	UG/L	0.300000
P027	09/28/2000	Trichloromethane	1.100000	UG/L	0.500000
P027	02/06/2001	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
P027	02/06/2001	Tetrachloroethene	0.980000	UG/L	0.300000
P027	02/06/2001	Trichloromethane	0.880000	UG/L	0.500000
P027	05/02/2001	1,1,1-Trichloroethane	1.600000	UG/L	0.300000
P027	05/02/2001	Tetrachloroethene	0.860000	UG/L	0.300000
P027	05/02/2001	Trichloromethane	0.730000	UG/L	0.500000
P027	07/26/2001	1,1,1-Trichloroethane	2.000000	UG/L	0.300000
P027	07/26/2001	Tetrachloroethene	1.100000	UG/L	0.300000
P027	07/26/2001	Trichloromethane	1.500000	UG/L	0.500000
P027	10/23/2001	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P027	10/23/2001	Tetrachloroethene	0.800000	UG/L	0.300000
P027	10/23/2001	Trichloromethane	1.600000	UG/L	0.500000
P027	01/24/2002	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P027	01/24/2002	Tetrachloroethene	1.000000	UG/L	0.300000
P027	04/24/2002	1,1,1-Trichloroethane	1.700000	UG/L	0.300000
P027	04/24/2002	Tetrachloroethene	1.000000	UG/L	0.300000
P027	07/24/2002	1,1,1-Trichloroethane	1.800000	UG/L	0.300000
P027	07/24/2002	Tetrachloroethene	0.980000	UG/L	0.300000
P027	11/06/2002	Tetrachloroethene	0.770000	UG/L	0.300000
P027	02/13/2003	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
P027	02/13/2003	Tetrachloroethene	0.800000	UG/L	0.300000
P027	06/09/2003	1,1,1-Trichloroethane	0.950000	UG/L	0.300000
P027	06/09/2003	1,1,1-Trichloroethane	0.950000	UG/L	0.300000
P027	06/09/2003	Tetrachloroethene	0.620000	UG/L	0.300000
P027	06/09/2003	Tetrachloroethene	0.620000	UG/L	0.300000
P027	06/09/2003	Trichloromethane	1.000000	UG/L	0.500000
P027	06/09/2003	Trichloromethane	1.000000	UG/L	0.500000
P027	07/15/2003	1,1,1-Trichloroethane	0.740000	UG/L	0.300000
P027	07/15/2003	1,1,1-Trichloroethane	0.740000	UG/L	0.300000
P027	07/15/2003	Tetrachloroethene	0.710000	UG/L	0.300000
P027	07/15/2003	Tetrachloroethene	0.710000	UG/L	0.300000
P027	07/15/2003	Trichloromethane	0.960000	UG/L	0.500000
P027	07/15/2003	Trichloromethane	0.960000	UG/L	0.500000
P027	08/14/2003	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
P027	08/14/2003	Tetrachloroethene	0.750000	UG/L	0.300000
P027	09/17/2003	1,1,1-Trichloroethane	1.300000	UG/L	0.300000

PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P027	09/17/2003	Tetrachloroethene	0.890000	UG/L	0.300000
P027	09/17/2003	Trichloromethane	1.500000	UG/L	0.500000
P027	10/14/2003	1,1,1-Trichloroethane	0.710000	UG/L	0.300000
P027	10/14/2003	1,1,1-Trichloroethane	0.710000	UG/L	0.300000
P027	10/14/2003	Tetrachloroethene	0.700000	UG/L	0.300000
P027	10/14/2003	Tetrachloroethene	0.700000	UG/L	0.300000
P027	10/14/2003	Trichloromethane	0.740000	UG/L	0.500000
P027	10/14/2003	Trichloromethane	0.740000	UG/L	0.500000
P031	03/25/1998	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
P031	03/25/1998	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
P031	03/25/1998	Tetrachloroethene	1.600000	UG/L	0.300000
P031	03/25/1998	Tetrachloroethene	1.700000	UG/L	0.300000
P031	03/25/1998	Trichloroethylene (TCE)	2.300000	UG/L	1.200000
P031	03/25/1998	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
P031	06/25/1998	1,1,1-Trichloroethane	1.700000	UG/L	0.300000
P031	06/25/1998	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
P031	06/25/1998	Tetrachloroethene	1.800000	UG/L	0.300000
P031	06/25/1998	Tetrachloroethene	1.800000	UG/L	0.300000
P031	06/25/1998	Trichloroethylene (TCE)	2.100000	UG/L	1.200000
P031	06/25/1998	Trichloroethylene (TCE)	2.100000	UG/L	1.200000
P031	10/08/1998	1,1,1-Trichloroethane	2.700000	UG/L	0.300000
P031	10/08/1998	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
P031	10/08/1998	Tetrachloroethene	2.200000	UG/L	0.300000
P031	10/08/1998	Tetrachloroethene	1.500000	UG/L	0.300000
P031	10/08/1998	Trichloroethylene (TCE)	3.800000	UG/L	1.200000
P031	10/08/1998	Trichloroethylene (TCE)	2.000000	UG/L	1.200000
P031	01/06/1999	1,1,1-Trichloroethane	2.900000	UG/L	0.300000
P031	01/06/1999	Tetrachloroethene	1.600000	UG/L	0.300000
P031	01/06/1999	Trichloroethylene (TCE)	3.100000	UG/L	1.200000
P031	05/03/1999	1,1,1-Trichloroethane	2.600000	UG/L	0.300000
P031	05/03/1999	Tetrachloroethene	2.500000	UG/L	0.300000
P031	05/03/1999	Trichloroethylene (TCE)	3.200000	UG/L	1.200000
P031	06/17/1999	1,1,1-Trichloroethane	2.800000	UG/L	0.300000
P031	06/17/1999	Tetrachloroethene	2.000000	UG/L	0.300000
P031	06/17/1999	Trichloroethylene (TCE)	2.600000	UG/L	1.200000
P031	09/01/1999	1,1,1-Trichloroethane	3.600000	UG/L	0.300000
P031	09/01/1999	1,1,1-Trichloroethane	2.700000	UG/L	0.300000
P031	09/01/1999	Tetrachloroethene	2.200000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P031	09/01/1999	Tetrachloroethene	2.200000	UG/L	0.300000
P031	09/01/1999	Trichloroethylene (TCE)	3.100000	UG/L	1.200000
P031	09/01/1999	Trichloroethylene (TCE)	2.800000	UG/L	1.200000
P031	01/19/2000	1,1,1-Trichloroethane	2.400000	UG/L	0.300000
P031	01/19/2000	Tetrachloroethene	1.800000	UG/L	0.300000
P031	01/19/2000	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
P031	04/14/2000	1,1,1-Trichloroethane	0.980000	UG/L	0.300000
P031	04/14/2000	Tetrachloroethene	1.600000	UG/L	0.300000
P031	04/14/2000	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P031	06/22/2000	1,1,1-Trichloroethane	6.700000	UG/L	0.300000
P031	06/22/2000	Dibromochloromethane	1.300000	UG/L	0.900000
P031	06/22/2000	Tetrachloroethene	1.500000	UG/L	0.300000
P031	06/22/2000	Trichloroethylene (TCE)	3.000000	UG/L	1.200000
P031	06/22/2000	Trichloromethane	3.500000	UG/L	0.500000
P031	09/28/2000	1,1,1-Trichloroethane	0.680000	UG/L	0.300000
P031	09/28/2000	Tetrachloroethene	0.930000	UG/L	0.300000
P031	09/28/2000	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
P031	09/28/2000	Trichloromethane	0.900000	UG/L	0.500000
P031	02/05/2001	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
P031	02/05/2001	Tetrachloroethene	1.900000	UG/L	0.300000
P031	02/05/2001	Trichloroethylene (TCE)	1.600000	UG/L	1.200000
P031	05/01/2001	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
P031	05/01/2001	Tetrachloroethene	1.600000	UG/L	0.300000
P031	05/01/2001	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P031	07/26/2001	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
P031	07/26/2001	Tetrachloroethene	1.900000	UG/L	0.300000
P031	07/26/2001	Trichloroethylene (TCE)	2.300000	UG/L	1.200000
P031	07/26/2001	Trichloromethane	1.700000	UG/L	0.500000
P031	10/23/2001	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P031	10/23/2001	Tetrachloroethene	2.100000	UG/L	0.300000
P031	10/23/2001	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
P031	10/23/2001	Trichloromethane	1.500000	UG/L	0.500000
P031	01/24/2002	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
P031	01/24/2002	Tetrachloroethene	1.800000	UG/L	0.300000
P031	01/24/2002	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P031	04/24/2002	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
P031	04/24/2002	Tetrachloroethene	1.700000	UG/L	0.300000
P031	04/24/2002	Trichloroethylene (TCE)	1.700000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P031	07/25/2002	1,1,1-Trichloroethane	1.100000	UG/L	0.300000
P031	07/25/2002	Tetrachloroethene	2.300000	UG/L	0.300000
P031	07/25/2002	Trichloroethylene (TCE)	2.200000	UG/L	1.200000
P031	11/13/2002	1,1,1-Trichloroethane	1.300000	UG/L	0.300000
P031	11/13/2002	Tetrachloroethene	2.200000	UG/L	0.300000
P031	02/13/2003	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
P031	06/09/2003	1,1,1-Trichloroethane	0.910000	UG/L	0.300000
P031	06/09/2003	1,1,1-Trichloroethane	0.910000	UG/L	0.300000
P031	06/09/2003	Tetrachloroethene	1.800000	UG/L	0.300000
P031	06/09/2003	Tetrachloroethene	1.800000	UG/L	0.300000
P031	06/09/2003	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P031	06/09/2003	Trichloroethylene (TCE)	1.300000	UG/L	1.200000
P031	06/09/2003	Trichloromethane	0.990000	UG/L	0.500000
P031	06/09/2003	Trichloromethane	0.990000	UG/L	0.500000
P031	07/15/2003	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
P031	07/15/2003	1,1,1-Trichloroethane	1.000000	UG/L	0.300000
P031	07/15/2003	Tetrachloroethene	1.600000	UG/L	0.300000
P031	07/15/2003	Tetrachloroethene	1.600000	UG/L	0.300000
P031	07/15/2003	Trichloromethane	0.980000	UG/L	0.500000
P031	07/15/2003	Trichloromethane	0.980000	UG/L	0.500000
P031	08/14/2003	1,1,1-Trichloroethane	1.400000	UG/L	0.300000
P031	08/14/2003	Tetrachloroethene	1.900000	UG/L	0.300000
P031	08/14/2003	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
P031	09/17/2003	1,1,1-Trichloroethane	1.200000	UG/L	0.300000
P031	09/17/2003	Tetrachloroethene	2.000000	UG/L	0.300000
P031	09/17/2003	Trichloroethylene (TCE)	1.700000	UG/L	1.200000
P031	09/17/2003	Trichloromethane	1.300000	UG/L	0.500000
P031	10/14/2003	1,1,1-Trichloroethane	0.950000	UG/L	0.300000
P031	10/14/2003	1,1,1-Trichloroethane	0.950000	UG/L	0.300000
P031	10/14/2003	Tetrachloroethene	2.200000	UG/L	0.300000
P031	10/14/2003	Tetrachloroethene	2.200000	UG/L	0.300000
P031	10/14/2003	Trichloroethylene (TCE)	1.500000	UG/L	1.200000
P031	10/14/2003	Trichloroethylene (TCE)	1.500000	UG/L	1.200000
P031	10/14/2003	Trichloromethane	0.790000	UG/L	0.500000
P031	10/14/2003	Trichloromethane	0.790000	UG/L	0.500000
P044	03/25/1998	1,1,1-Trichloroethane	2.900000	UG/L	0.300000
P044	03/25/1998	1,1,1-Trichloroethane	2.900000	UG/L	0.300000
P044	03/25/1998	1,1,1-Trichloroethane	3.000000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P044	03/25/1998	1,1,1-Trichloroethane	2.800000	UG/L	0.300000
P044	06/18/1998	1,1,1-Trichloroethane	3.000000	UG/L	0.300000
P044	06/18/1998	1,1,1-Trichloroethane	3.100000	UG/L	0.300000
P044	10/08/1998	1,1,1-Trichloroethane	2.900000	UG/L	0.300000
P044	10/08/1998	1,1,1-Trichloroethane	2.500000	UG/L	0.300000
P044	01/06/1999	1,1,1-Trichloroethane	3.600000	UG/L	0.300000
P044	05/03/1999	1,1,1-Trichloroethane	4.800000	UG/L	0.300000
P044	06/17/1999	1,1,1-Trichloroethane	2.800000	UG/L	0.300000
P044	09/01/1999	1,1,1-Trichloroethane	3.200000	UG/L	0.300000
P044	09/01/1999	1,1,1-Trichloroethane	2.400000	UG/L	0.300000
P044	01/19/2000	1,1,1-Trichloroethane	3.200000	UG/L	0.300000
P044	04/13/2000	1,1,1-Trichloroethane	2.900000	UG/L	0.300000
P044	06/26/2000	1,1,1-Trichloroethane	2.400000	UG/L	0.300000
P044	06/26/2000	Trichloromethane	1.800000	UG/L	0.500000
P044	09/26/2000	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P044	02/05/2001	1,1,1-Trichloroethane	2.500000	UG/L	0.300000
P044	02/05/2001	Trichloromethane	1.000000	UG/L	0.500000
P044	05/01/2001	1,1,1-Trichloroethane	5.900000	UG/L	0.300000
P044	05/01/2001	Trichloromethane	1.200000	UG/L	0.500000
P044	07/23/2001	1,1,1-Trichloroethane	3.600000	UG/L	0.300000
P044	10/17/2001	1,1,1-Trichloroethane	1.900000	UG/L	0.300000
P044	10/17/2001	Trichloromethane	1.000000	UG/L	0.500000
P044	01/24/2002	1,1,1-Trichloroethane	2.700000	UG/L	0.300000
P044	04/24/2002	1,1,1-Trichloroethane	3.300000	UG/L	0.300000
P044	07/24/2002	1,1,1-Trichloroethane	3.600000	UG/L	0.300000
P044	02/13/2003	1,1,1-Trichloroethane	2.600000	UG/L	0.300000
P044	02/13/2003	Trichloromethane	0.930000	UG/L	0.500000
P044	04/30/2003	1,1,1-Trichloroethane	3.100000	UG/L	0.300000
P044	04/30/2003	Trichloromethane	1.300000	UG/L	0.500000
P044	07/16/2003	1,1,1-Trichloroethane	2.000000	UG/L	0.300000
P044	07/16/2003	Trichloromethane	0.800000	UG/L	0.500000
P046	03/26/1998	Tetrachloroethene	0.670000	UG/L	0.300000
P046	03/26/1998	Tetrachloroethene	0.700000	UG/L	0.300000
P046	03/26/1998	Trichloroethylene (TCE)	2.500000	UG/L	1.200000
P046	03/26/1998	Trichloroethylene (TCE)	1.600000	UG/L	1.200000
P046	06/22/1998	Tetrachloroethene	0.740000	UG/L	0.300000
P046	06/22/1998	Tetrachloroethene	0.300000	UG/L	0.300000
P046	06/22/1998	Trichloroethylene (TCE)	1.700000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P046	06/22/1998	Trichloroethylene (TCE)	1.900000	UG/L	1.200000
P046	10/08/1998	Tetrachloroethene	0.370000	UG/L	0.300000
P046	10/08/1998	Tetrachloroethene	0.490000	UG/L	0.300000
P046	10/08/1998	Trichloroethylene (TCE)	1.800000	UG/L	1.200000
P046	10/08/1998	Trichloroethylene (TCE)	1.100000	UG/L	1.200000
P046	01/06/1999	Tetrachloroethene	0.640000	UG/L	0.300000
P046	01/06/1999	Trichloroethylene (TCE)	1.900000	UG/L	1.200000
P046	01/06/1999	Trichloromethane	0.900000	UG/L	0.500000
P046	05/03/1999	Tetrachloroethene	0.740000	UG/L	0.300000
P046	05/03/1999	Tetrachloroethene	0.590000	UG/L	0.300000
P046	05/03/1999	Trichloroethylene (TCE)	2.300000	UG/L	1.200000
P046	05/03/1999	Trichloroethylene (TCE)	2.400000	UG/L	1.200000
P046	05/03/1999	Trichloromethane	0.580000	UG/L	0.500000
P046	05/03/1999	Trichloromethane	0.620000	UG/L	0.500000
P046	06/18/1999	Tetrachloroethene	1.100000	UG/L	0.300000
P046	06/18/1999	Trichloroethylene (TCE)	3.200000	UG/L	1.200000
P046	06/18/1999	Trichloromethane	0.750000	UG/L	0.500000
P046	09/07/1999	Tetrachloroethene	0.850000	UG/L	0.300000
P046	09/07/1999	Tetrachloroethene	0.730000	UG/L	0.300000
P046	09/07/1999	Tetrachloroethene	0.850000	UG/L	0.300000
P046	09/07/1999	Tetrachloroethene	0.740000	UG/L	0.300000
P046	09/07/1999	Trichloroethylene (TCE)	3.700000	UG/L	1.200000
P046	09/07/1999	Trichloroethylene (TCE)	2.800000	UG/L	1.200000
P046	09/07/1999	Trichloroethylene (TCE)	3.700000	UG/L	1.200000
P046	09/07/1999	Trichloroethylene (TCE)	2.800000	UG/L	1.200000
P046	09/07/1999	Trichloromethane	0.660000	UG/L	0.500000
P046	09/07/1999	Trichloromethane	0.760000	UG/L	0.500000
P046	09/07/1999	Trichloromethane	0.660000	UG/L	0.500000
P046	09/07/1999	Trichloromethane	0.750000	UG/L	0.500000
P046	01/25/2000	Tetrachloroethene	0.720000	UG/L	0.300000
P046	01/25/2000	Trichloroethylene (TCE)	2.500000	UG/L	1.200000
P046	01/25/2000	Trichloromethane	0.850000	UG/L	0.500000
P046	06/30/2000	Tetrachloroethene	0.460000	UG/L	0.300000
P046	06/30/2000	Trichloroethylene (TCE)	4.400000	UG/L	1.200000
P046	06/30/2000	Trichloromethane	0.840000	UG/L	0.500000
P046	02/20/2001	1,1,1-Trichloroethane	0.920000	UG/L	0.300000
P046	02/20/2001	Tetrachloroethene	0.640000	UG/L	0.300000
P046	02/20/2001	Trichloroethylene (TCE)	3.600000	UG/L	1.200000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P046	02/20/2001	Trichloromethane	0.570000	UG/L	0.500000
P046	05/01/2001	1,1,1-Trichloroethane	0.880000	UG/L	0.300000
P046	05/01/2001	Tetrachloroethene	0.620000	UG/L	0.300000
P046	05/01/2001	Trichloroethylene (TCE)	4.000000	UG/L	1.200000
P046	05/01/2001	Trichloromethane	1.100000	UG/L	0.500000
P046	07/23/2001	1,1,1-Trichloroethane	0.800000	UG/L	0.300000
P046	07/23/2001	Tetrachloroethene	0.810000	UG/L	0.300000
P046	07/23/2001	Trichloroethylene (TCE)	5.300000	UG/L	1.200000
P046	10/23/2001	1,1,1-Trichloroethane	0.700000	UG/L	0.300000
P046	10/23/2001	Tetrachloroethene	0.750000	UG/L	0.300000
P046	10/23/2001	Trichloroethylene (TCE)	5.100000	UG/L	1.200000
P046	10/23/2001	Trichloromethane	1.300000	UG/L	0.500000
P046	01/24/2002	1,1,1-Trichloroethane	0.860000	UG/L	0.300000
P046	01/24/2002	Tetrachloroethene	0.600000	UG/L	0.300000
P046	01/24/2002	Trichloroethylene (TCE)	4.700000	UG/L	1.200000
P046	04/24/2002	1,1,1-Trichloroethane	0.850000	UG/L	0.300000
P046	04/24/2002	Tetrachloroethene	0.780000	UG/L	0.300000
P046	04/24/2002	Trichloroethylene (TCE)	6.100000	UG/L	1.200000
P046	07/23/2002	1,1,1-Trichloroethane	0.940000	UG/L	0.300000
P046	07/23/2002	Tetrachloroethene	0.900000	UG/L	0.300000
P046	07/23/2002	Trichloroethylene (TCE)	7.000000	UG/L	1.200000
P046	11/06/2002	Tetrachloroethene	0.770000	UG/L	0.300000
P046	11/06/2002	Trichloroethylene (TCE)	6.800000	UG/L	1.200000
P046	02/13/2003	1,1,1-Trichloroethane	0.440000	UG/L	0.300000
P046	02/13/2003	Tetrachloroethene	0.530000	UG/L	0.300000
P046	02/13/2003	Trichloroethylene (TCE)	7.400000	UG/L	1.200000
P046	04/30/2003	1,1,1-Trichloroethane	0.650000	UG/L	0.300000
P046	04/30/2003	Tetrachloroethene	1.100000	UG/L	0.300000
P046	04/30/2003	Trichloroethylene (TCE)	6.000000	UG/L	1.200000
P046	04/30/2003	Trichloromethane	0.970000	UG/L	0.500000
P046	07/17/2003	1,1,1-Trichloroethane	1.500000	UG/L	0.300000
P046	07/17/2003	1,2-Dichloroethane	0.420000	UG/L	0.300000
P046	07/17/2003	Carbon Tetrachloride	1.800000	UG/L	1.200000
P046	07/17/2003	Tetrachloroethene	0.740000	UG/L	0.300000
P046	07/17/2003	Trichloroethylene (TCE)	4.900000	UG/L	1.200000
P046	07/17/2003	Trichloromethane	1.500000	UG/L	0.500000
P046	10/17/2003	1,1,1-Trichloroethane	0.440000	UG/L	0.300000
P046	10/17/2003	1,1,1-Trichloroethane	0.440000	UG/L	0.300000

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PRS 414 VOC Groundwater Detections

Station	Date Collected	Parameter Name	Results	Units of Measure	Detection Limit
P046	10/17/2003	Tetrachloroethene	0.600000	UG/L	0.300000
P046	10/17/2003	Tetrachloroethene	0.600000	UG/L	0.300000
P046	10/17/2003	Trichloroethylene (TCE)	2.900000	UG/L	1.200000
P046	10/17/2003	Trichloroethylene (TCE)	2.900000	UG/L	1.200000

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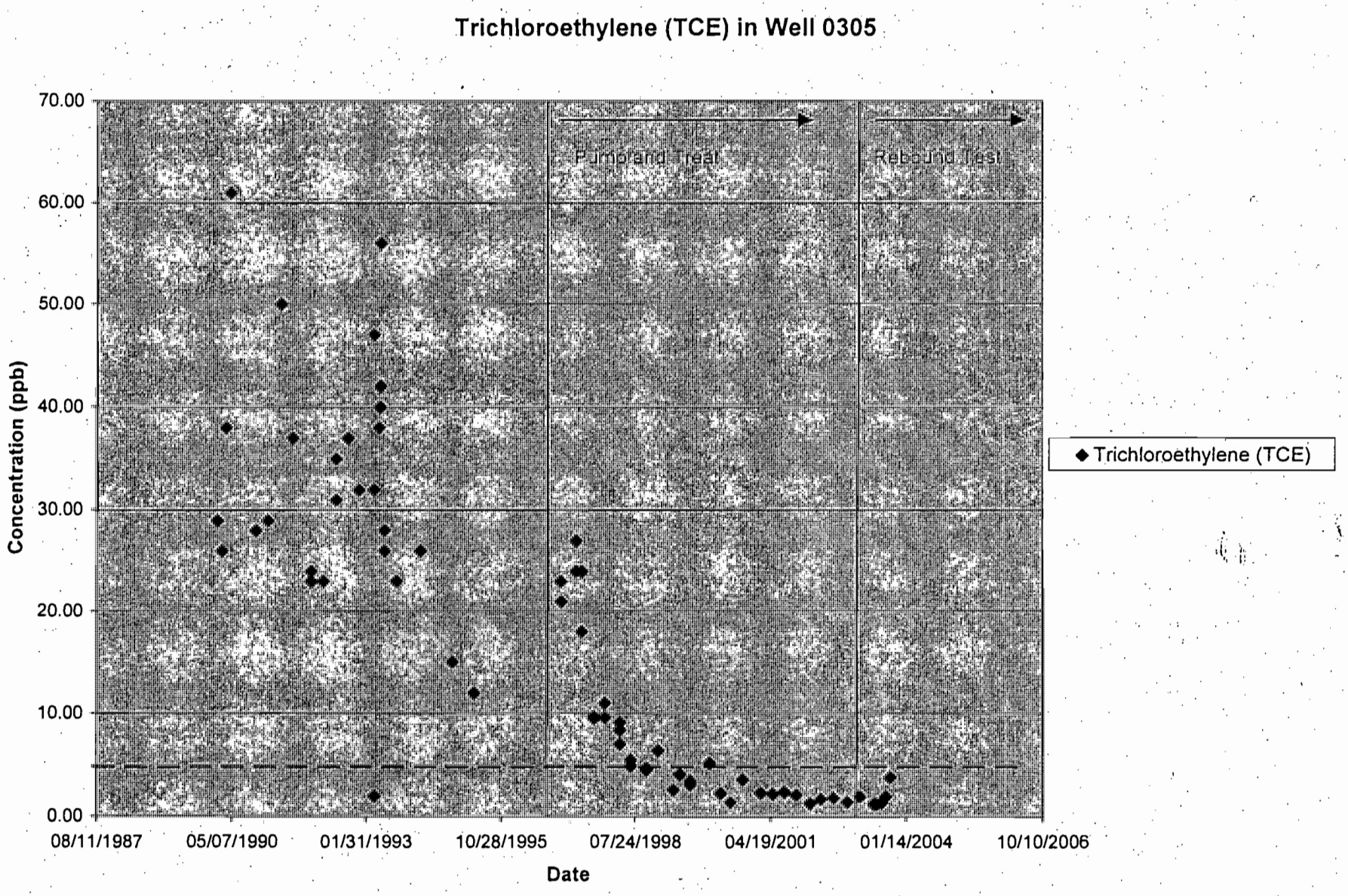
APPENDIX B

TIME SERIES CHARTS


Trichloroethylene (TCE) in Well 0305
Concentration (ppb)
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
10/10/2006
Date
Pump and Treat
Rebound Test
Trichloroethylene (TCE)

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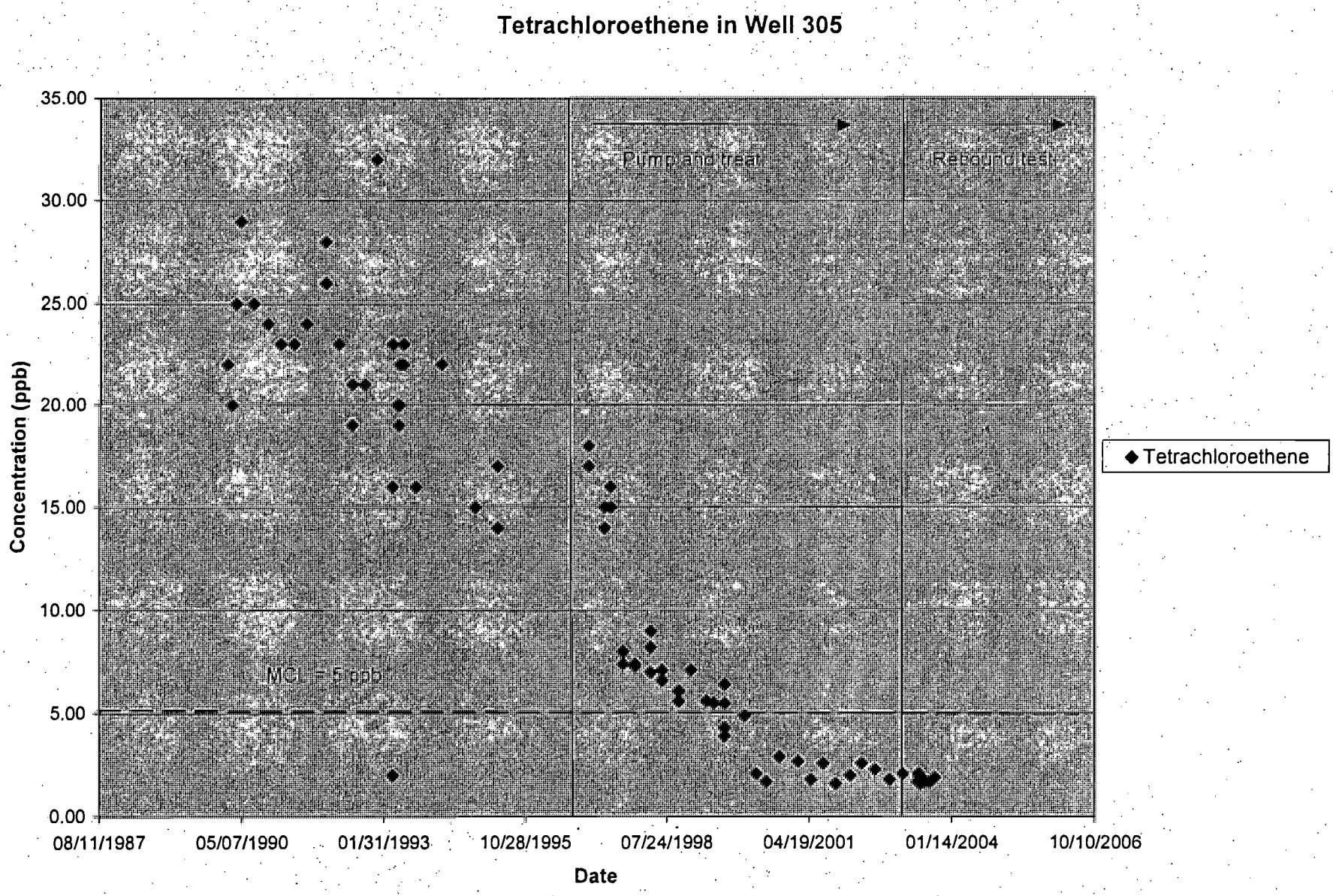
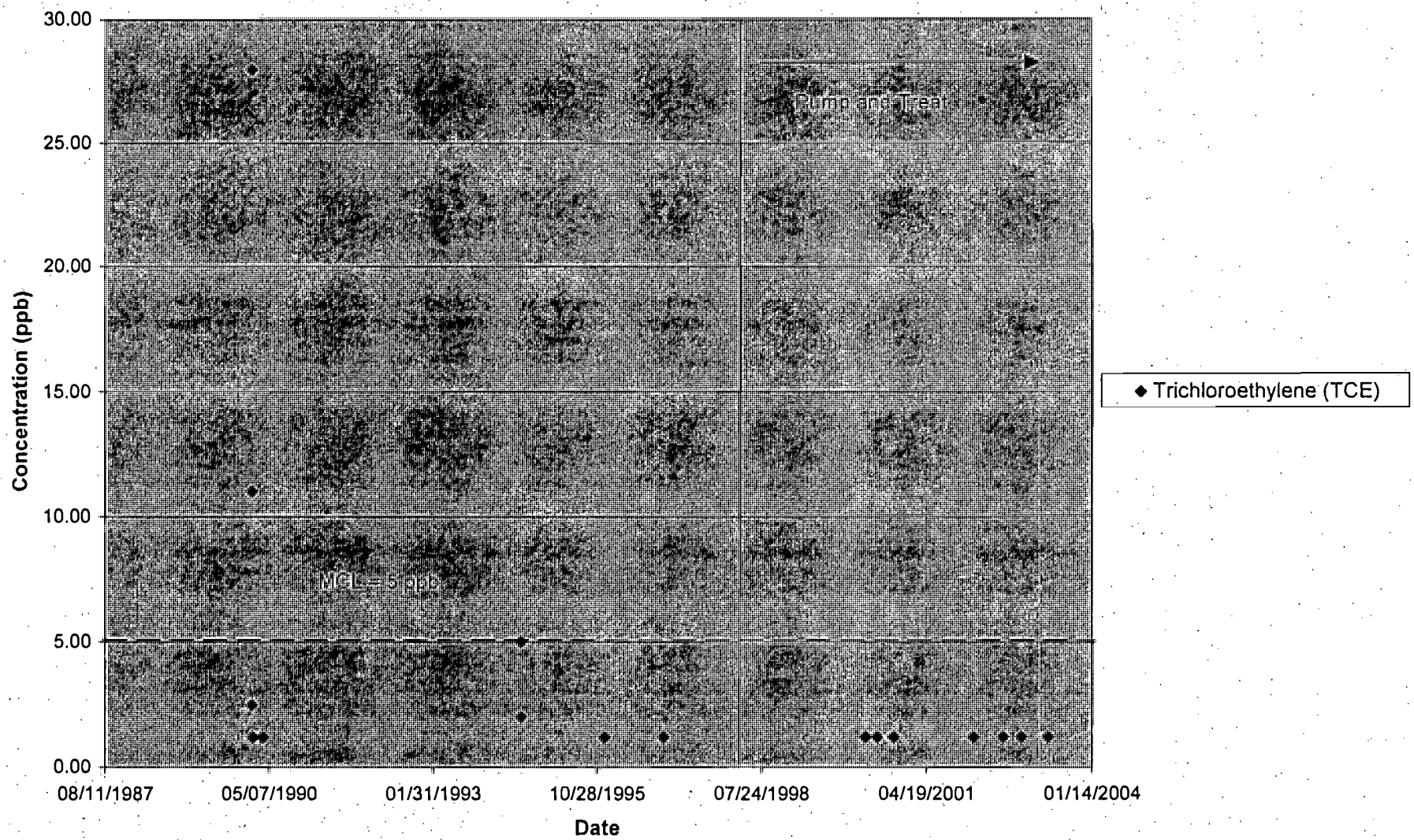

Tetrachloroethene in Well 305
Concentration (ppb)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
10/10/2006
Date
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene

Exh 6

Trichloroethylene (TCE) in Well 402



E4)

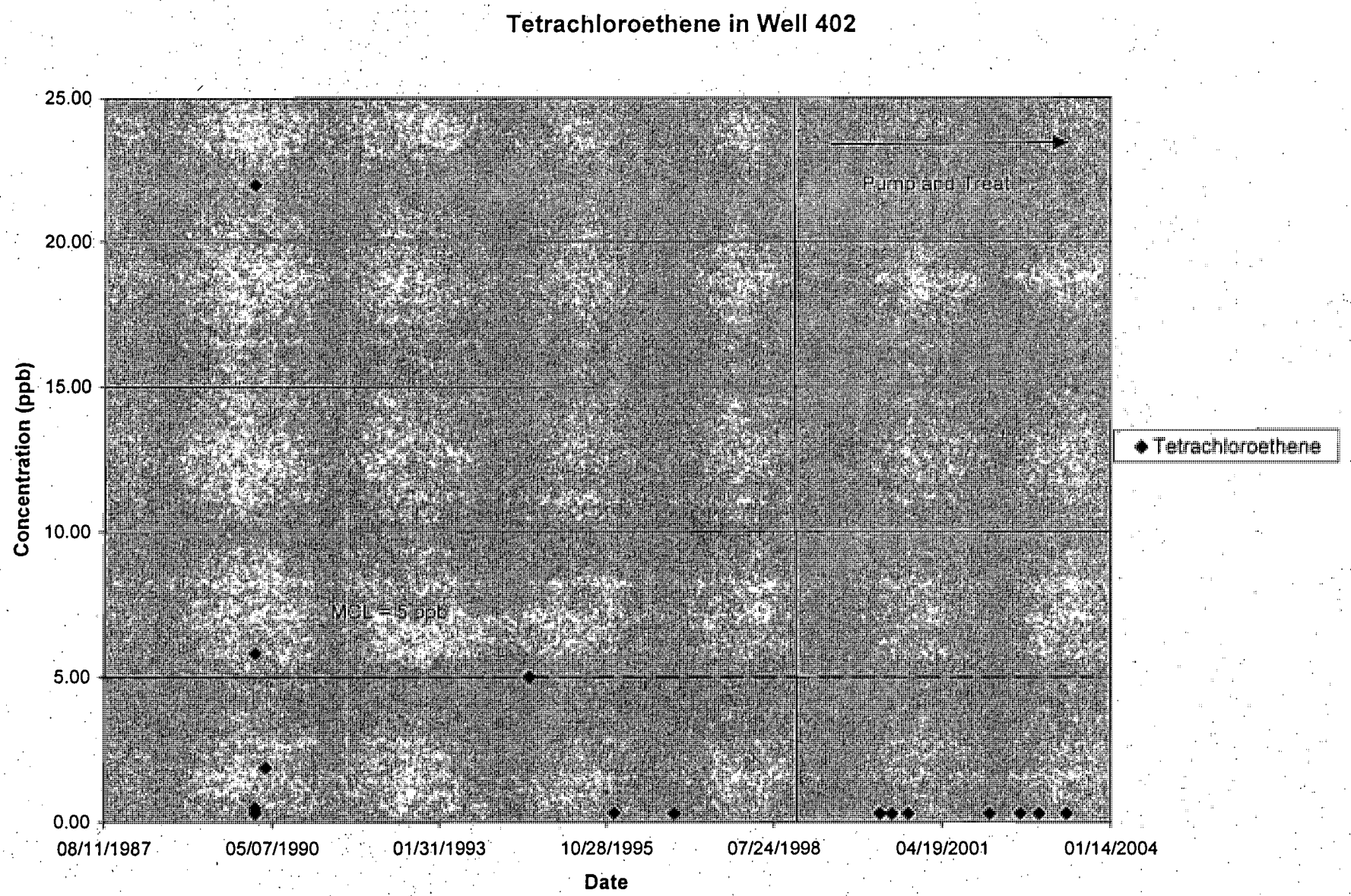
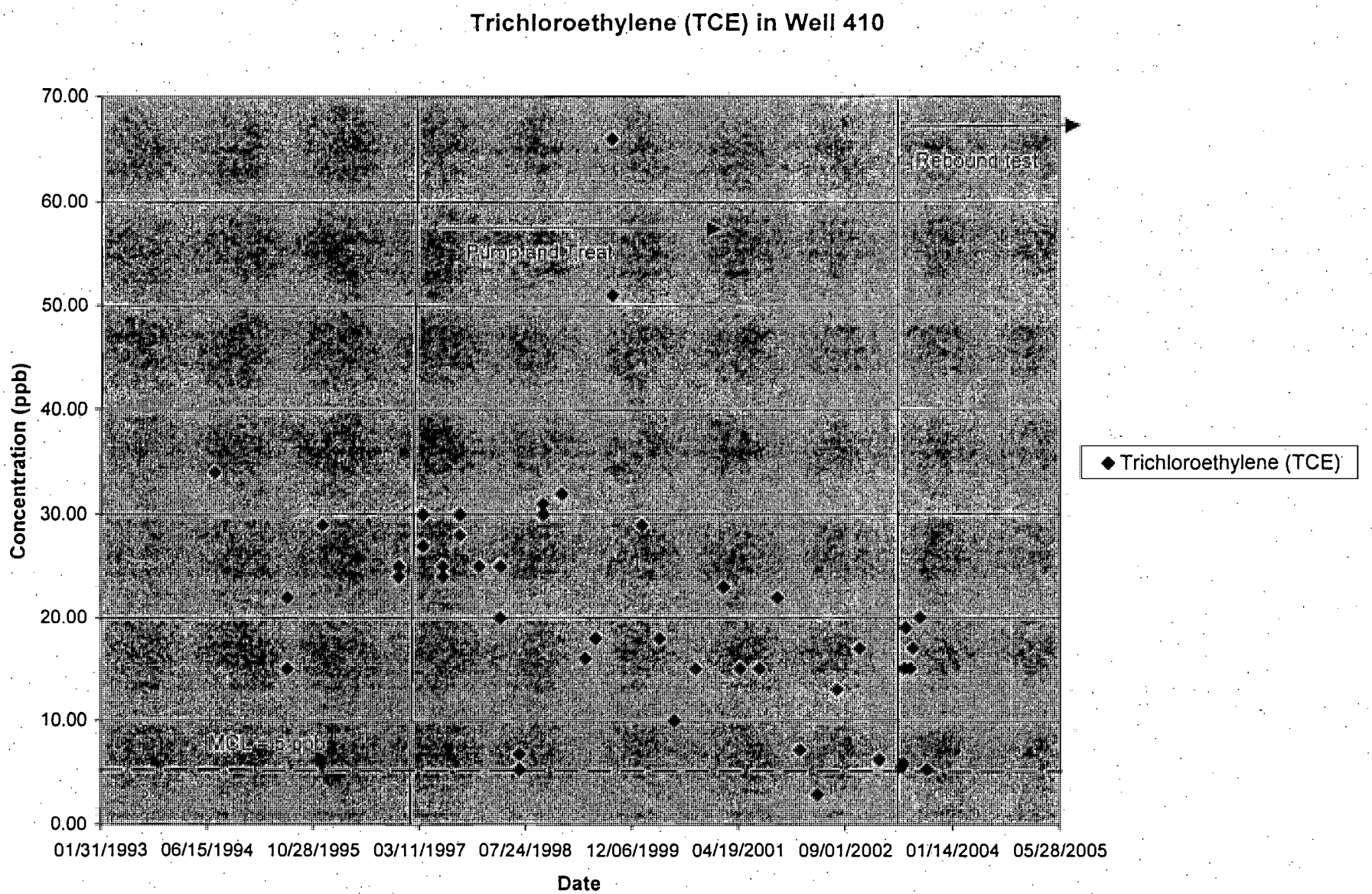
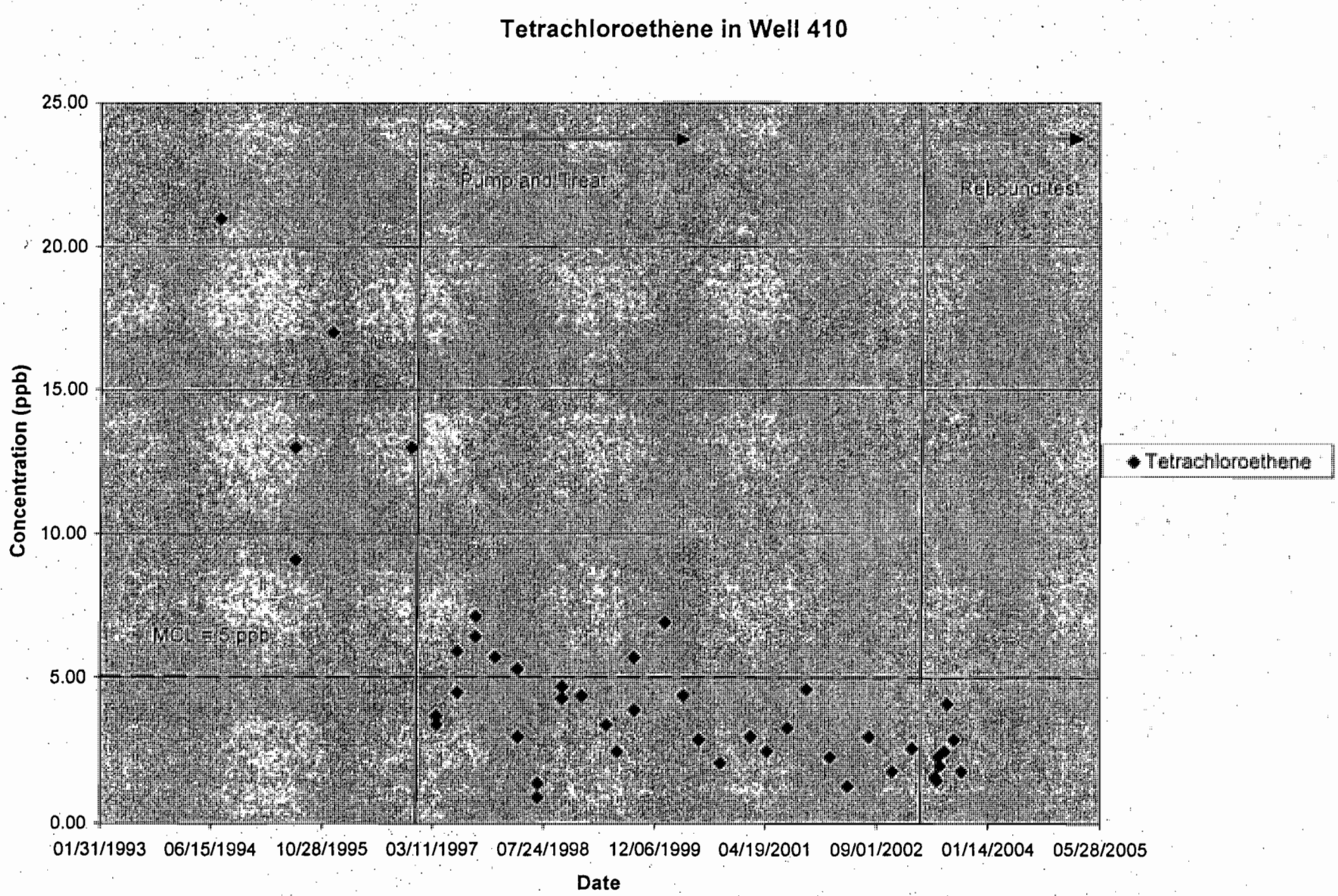

Tetrachloroethene in Well 402
25.00
20.00
15.00
10.00
5.00
0.00
Concentration (ppb)
MCL = 5 ppb
Pump and Treat
Tetrachloroethene
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
Date

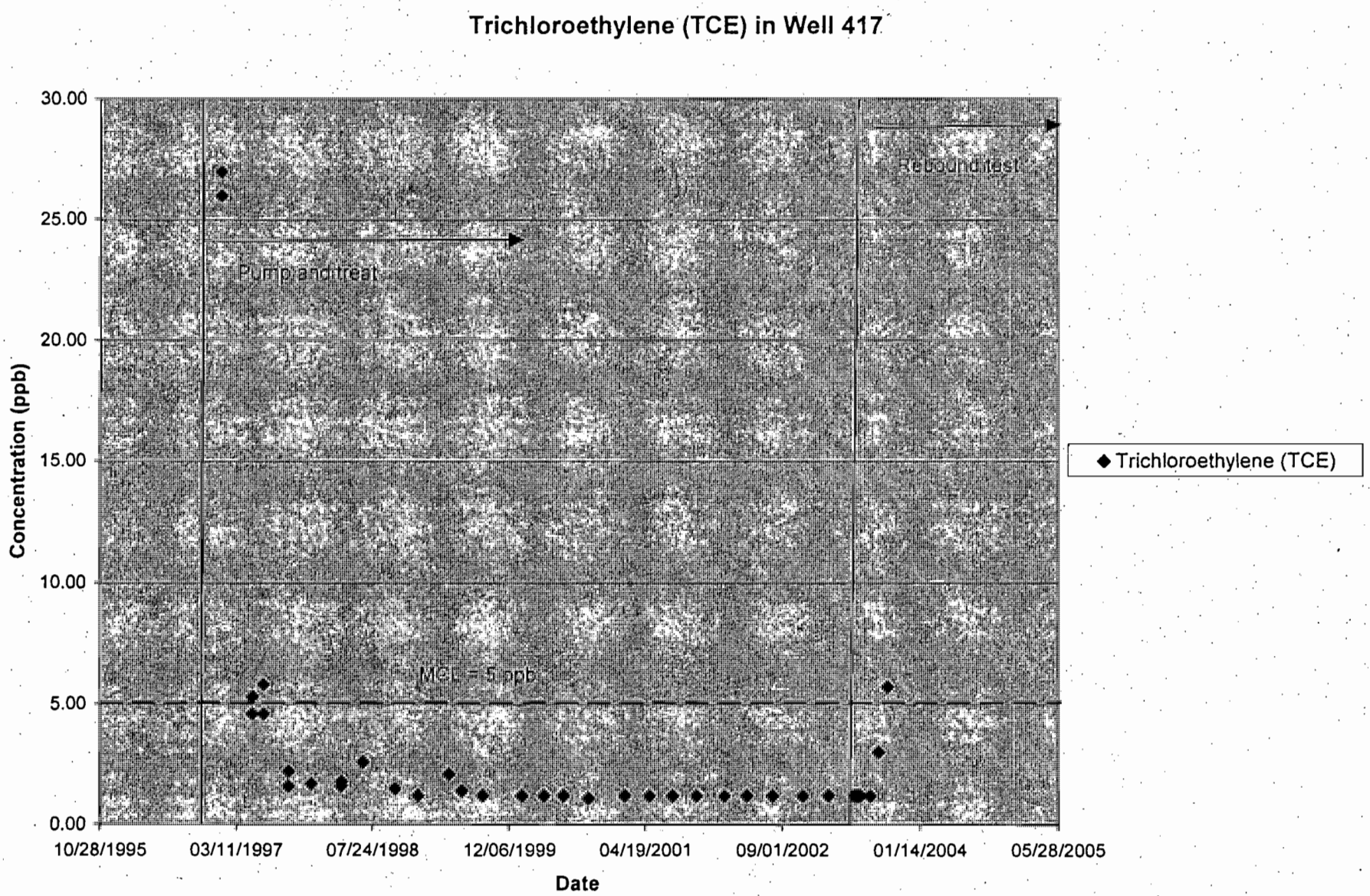
Fig 8


Trichloroethylene (TCE) in Well 410
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Concentration (ppb)
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Pump and Treat
Rebound Test
Trichloroethylene (TCE)

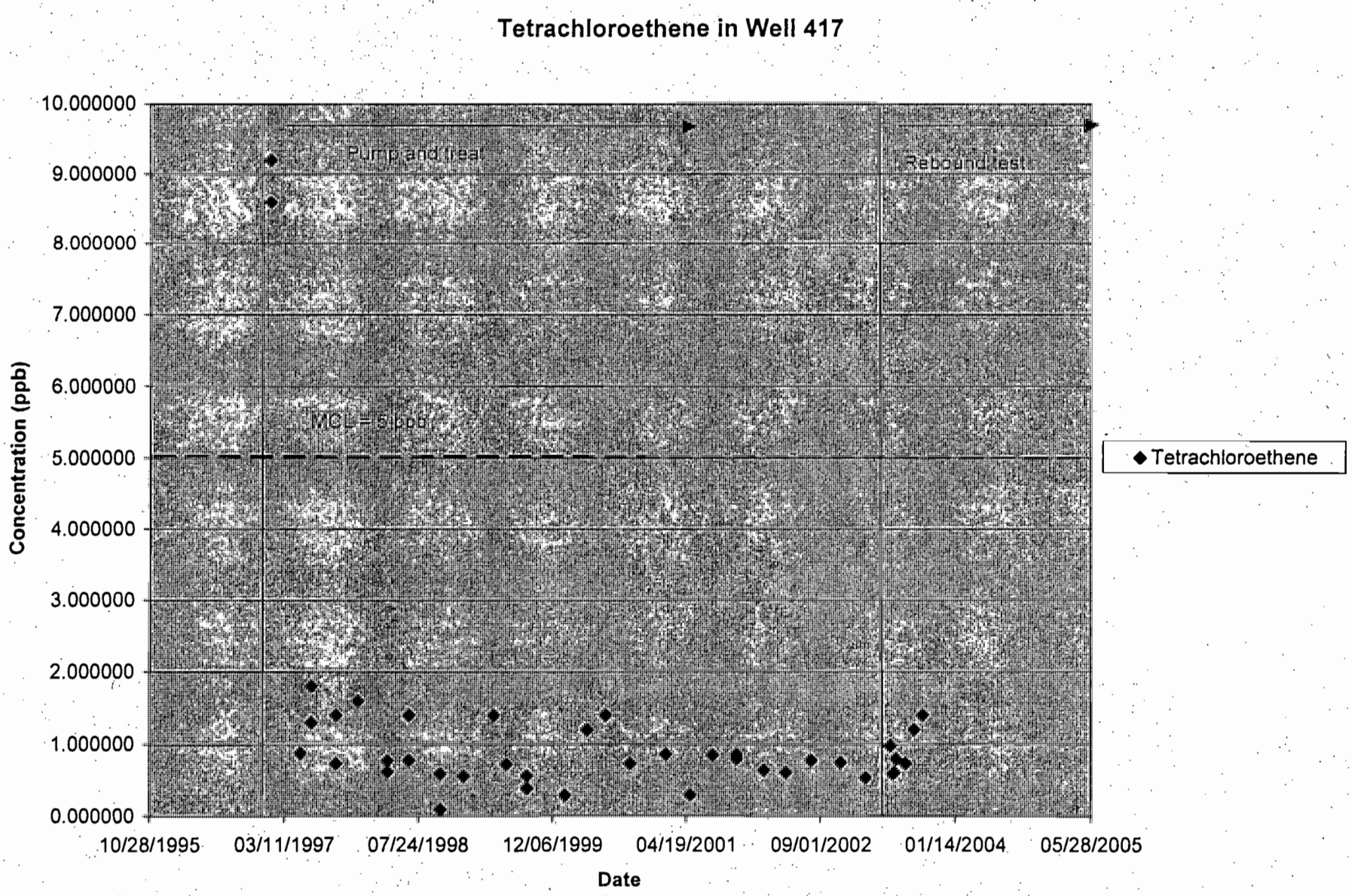
E49


Tetrachloroethene in Well 410
Pump and Treat
Rebound test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
25.00
20.00
15.00
10.00
5.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

E50

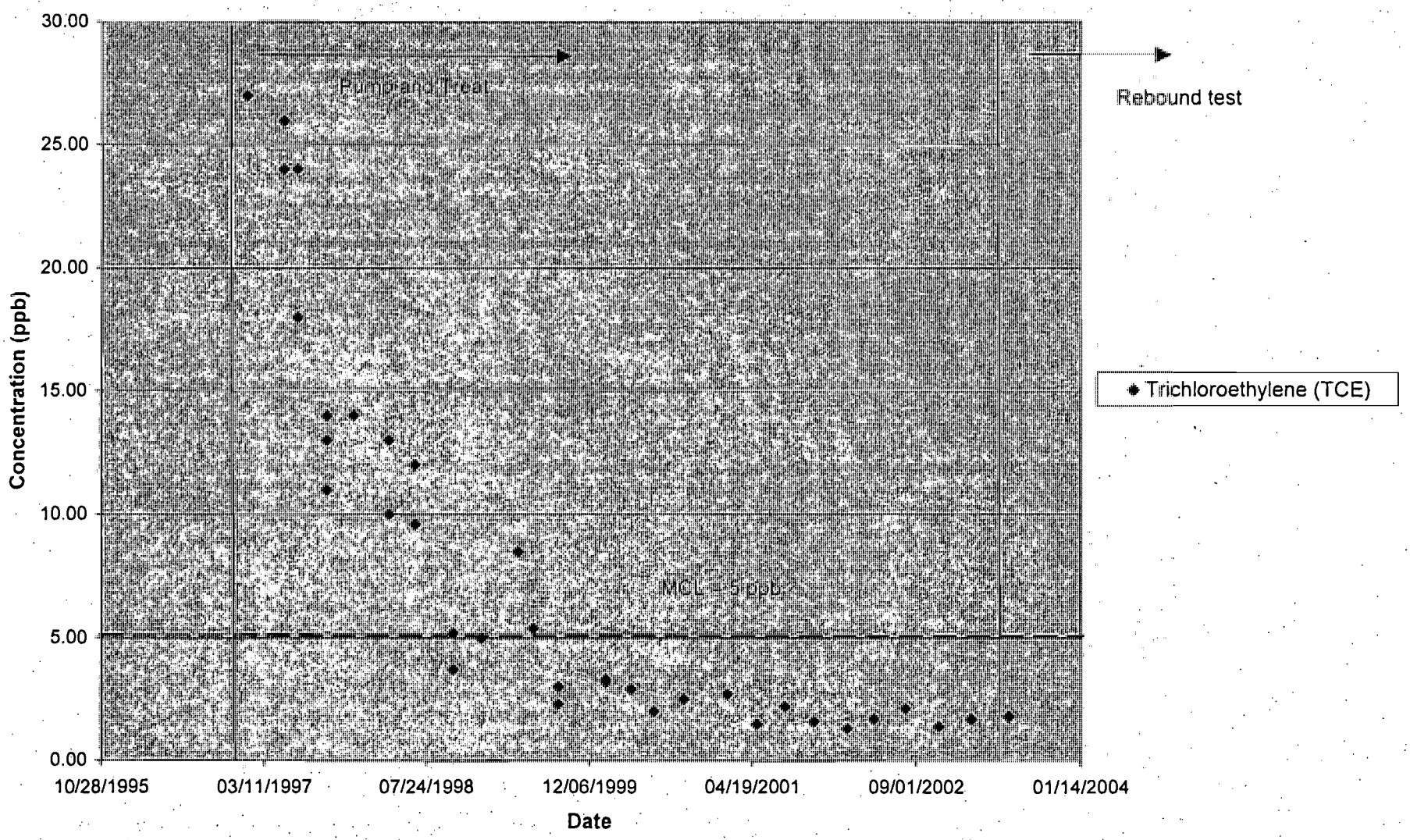

Trichloroethylene (TCE) in Well 417
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Concentration (ppb)
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

ES1

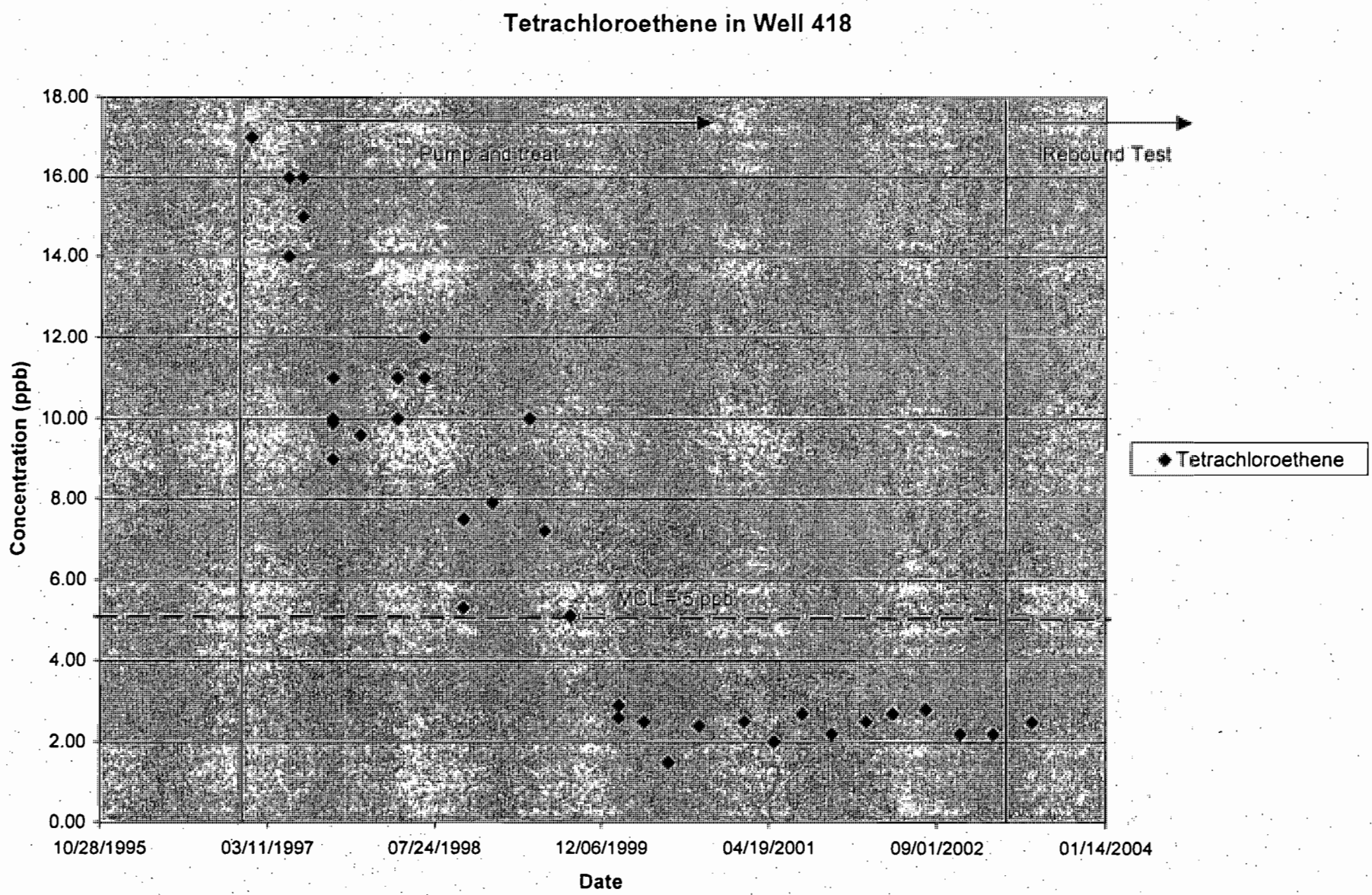

Tetrachloroethene in Well 417
Pump and Treat
Rebound test
MCL = 5 ppb
Concentration (ppb)
10.000000
9.000000
8.000000
7.000000
6.000000
5.000000
4.000000
3.000000
2.000000
1.000000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

ES2

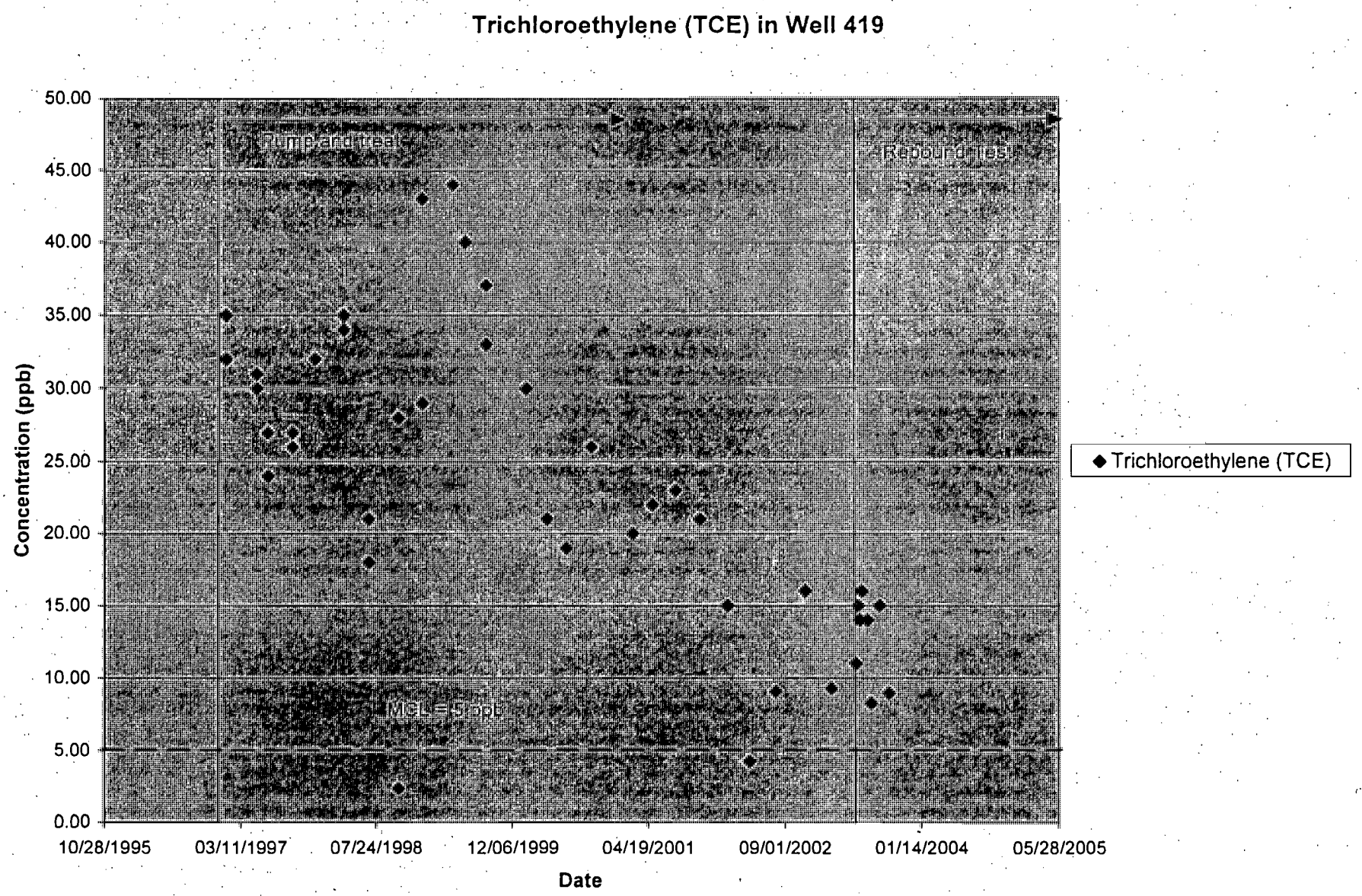
Trichloroethylene (TCE) in Well 418



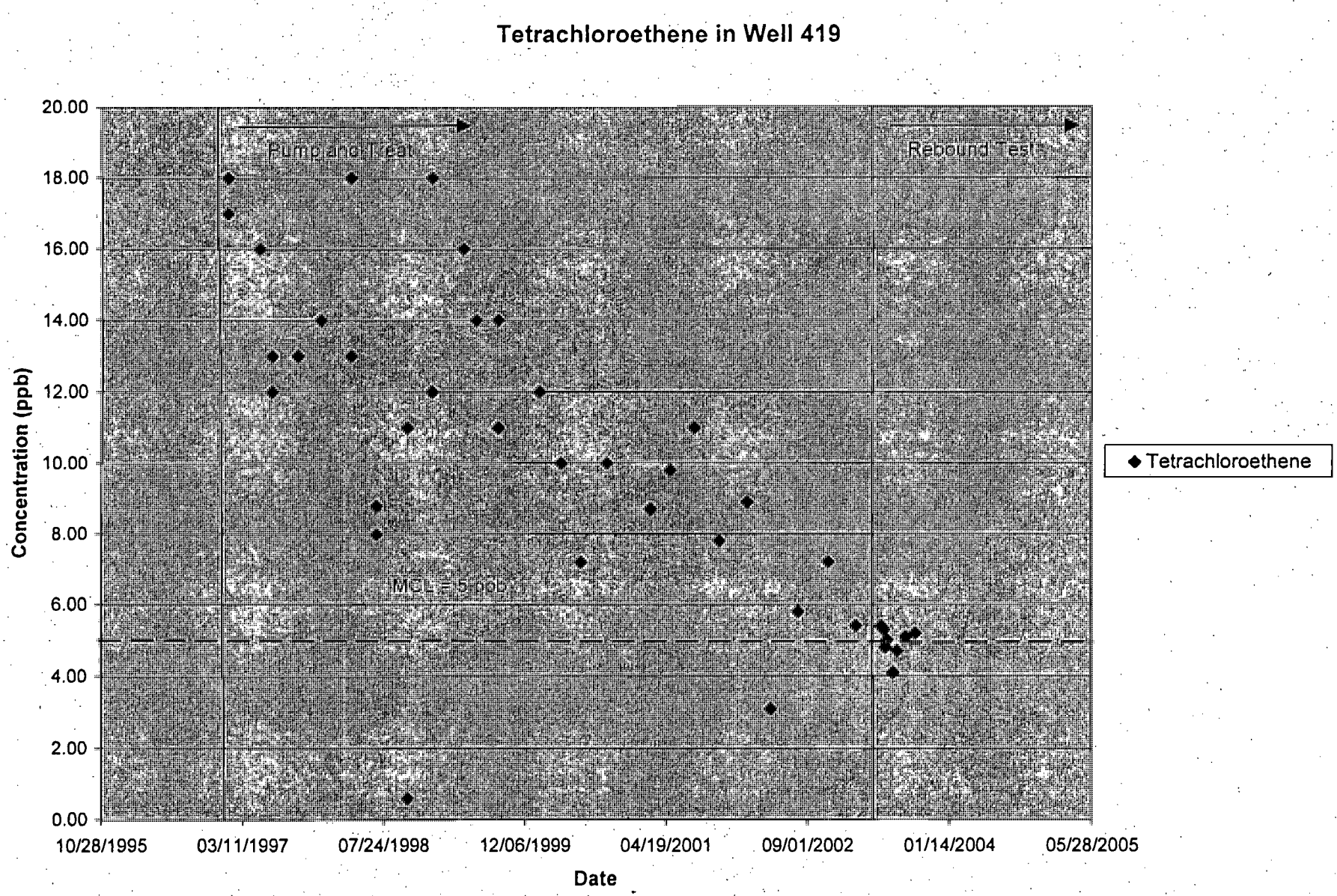
E53


Tetrachloroethene in Well 418
Pump and treat
Rebound Test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date

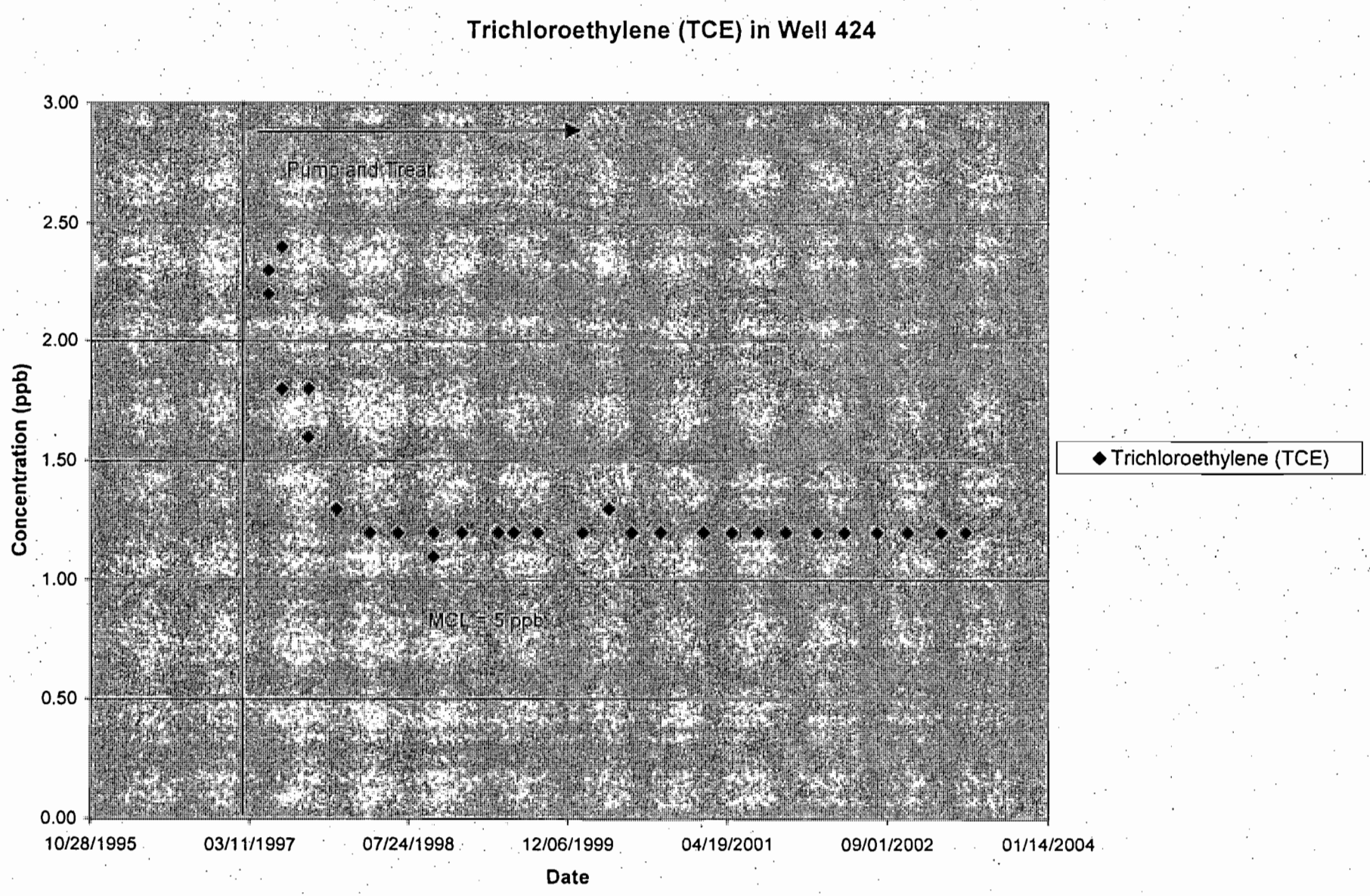
E54


Trichloroethylene (TCE) in Well 419
Pump and treat
Rebound test
MCL=5 ppb
Concentration (ppb)
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

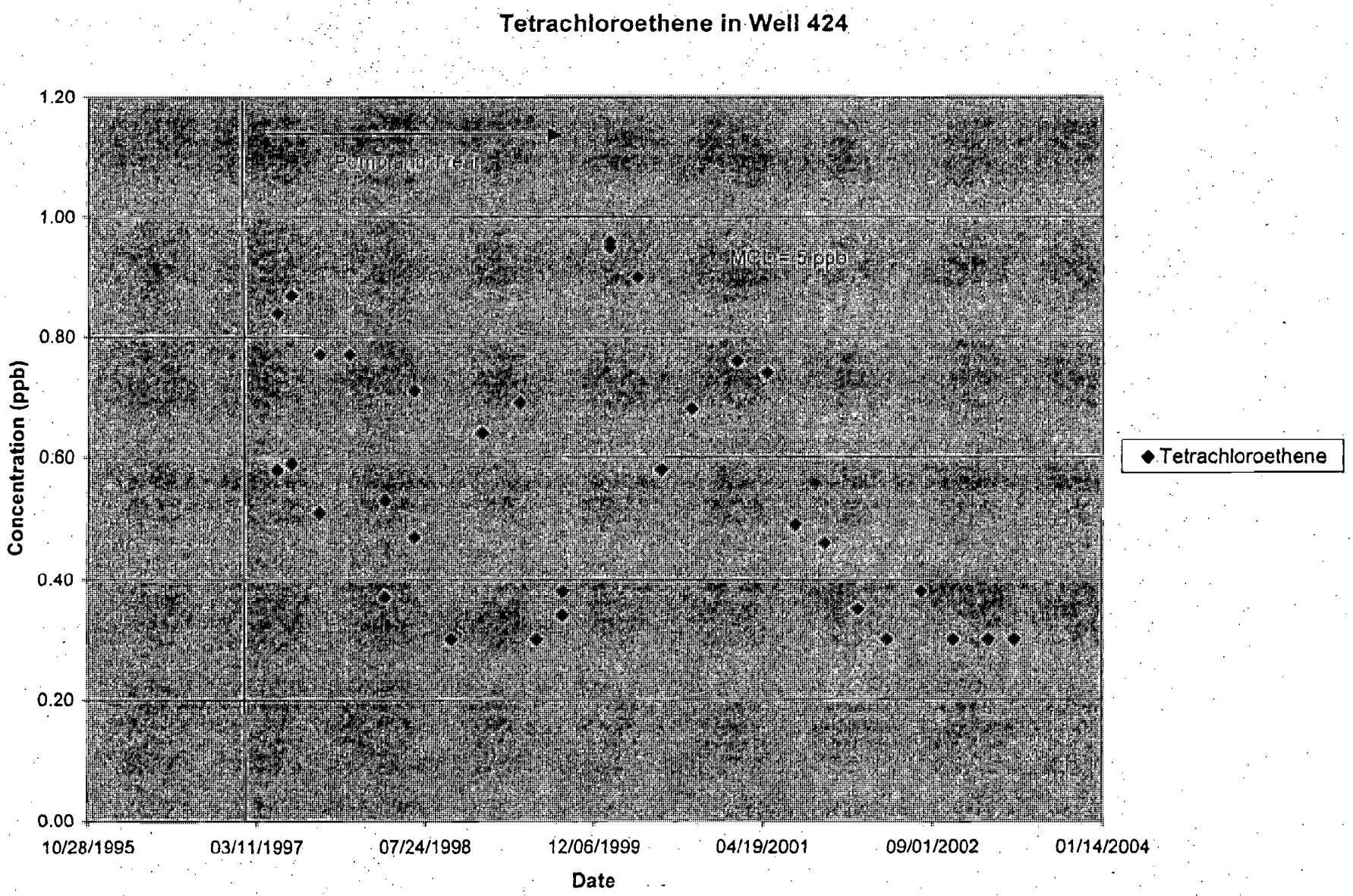
E55


Tetrachloroethene in Well 419
Pump and Treat
Rebound Test
MCL = 5 ppb
Concentration (ppb)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

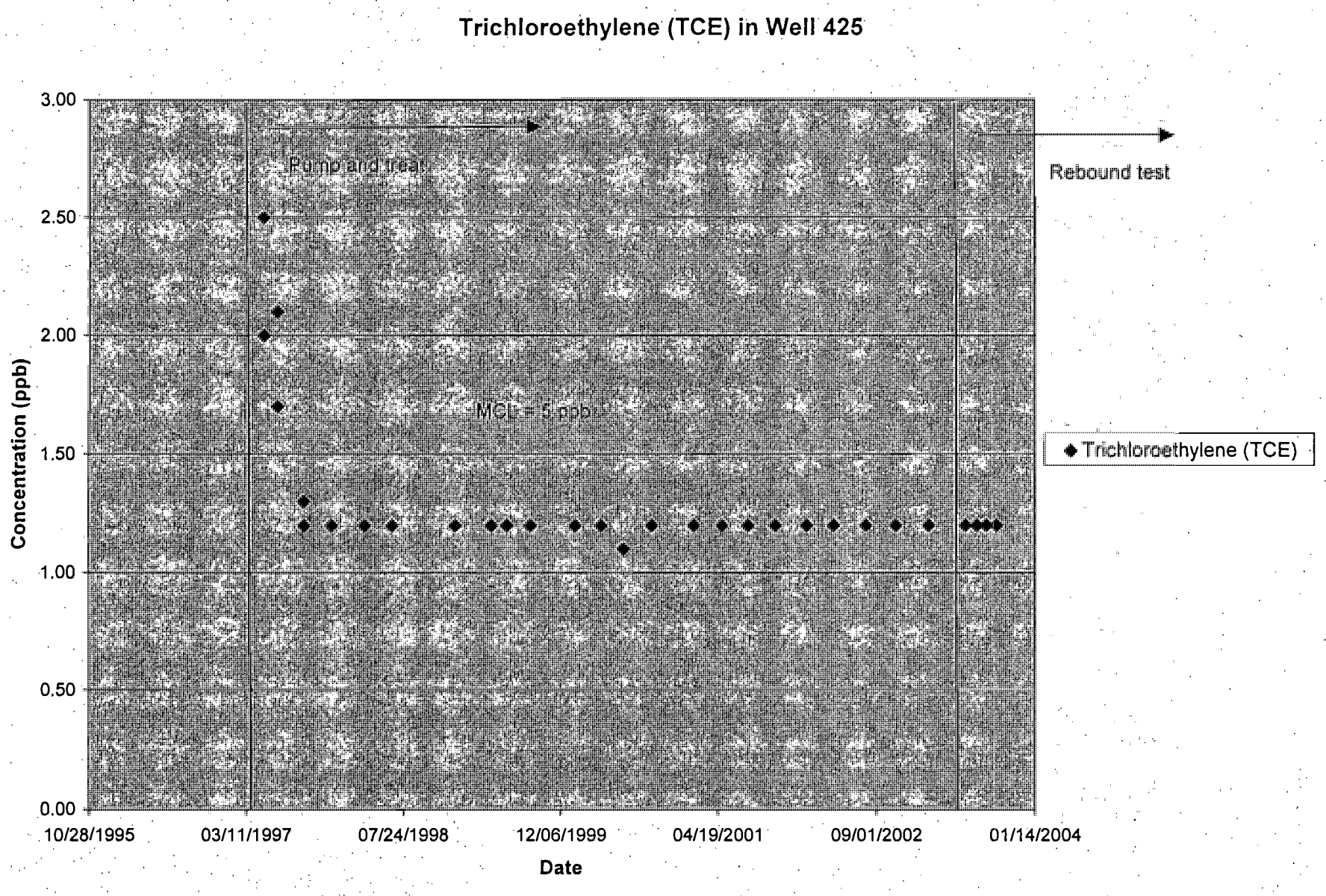
E56


Trichloroethylene (TCE) in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

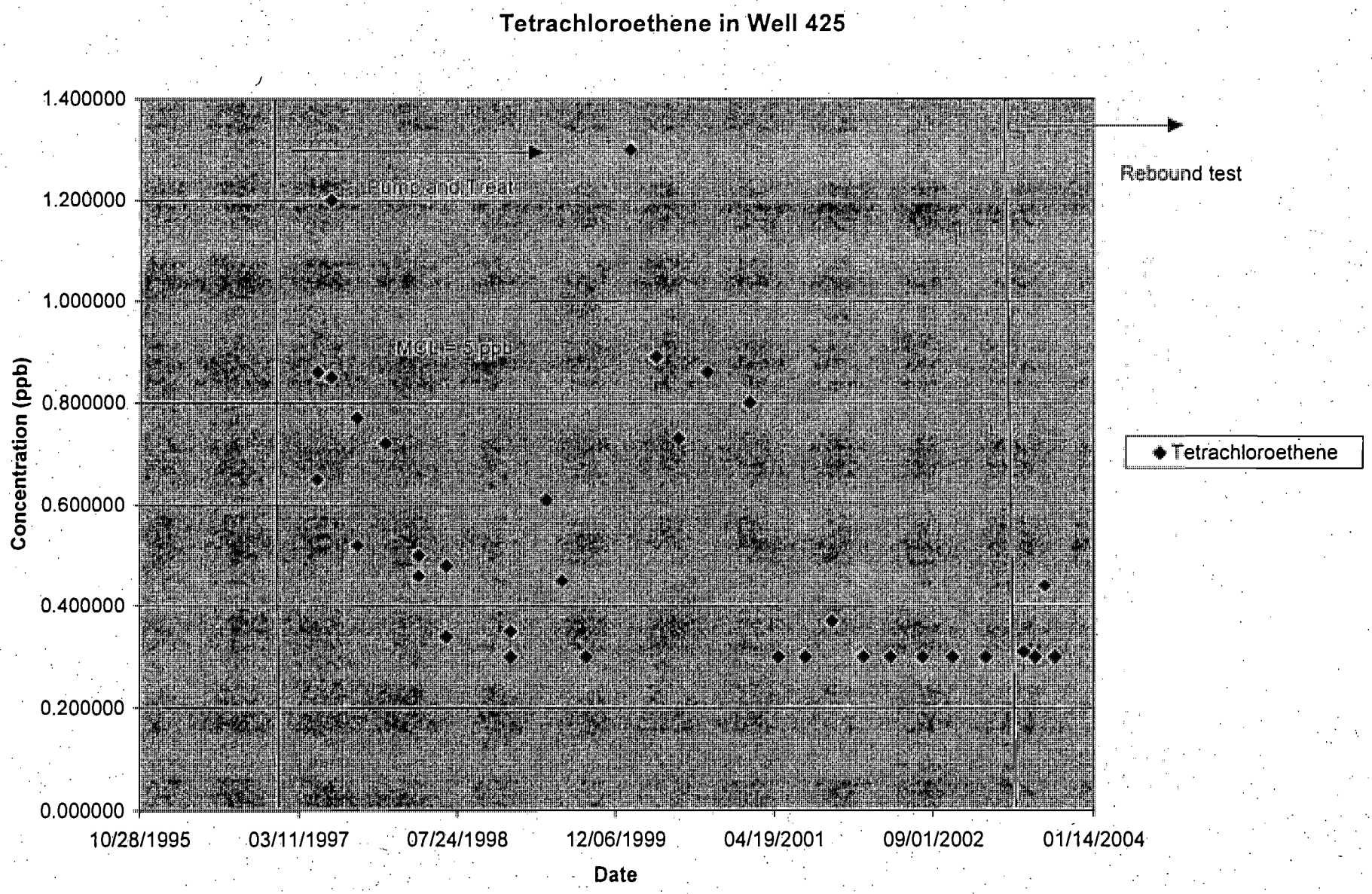
E57


Tetrachloroethene in Well 424
1.20
1.00
0.80
0.60
0.40
0.20
0.00
Concentration (ppb)
MCLs = 5 ppb
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Tetrachloroethene

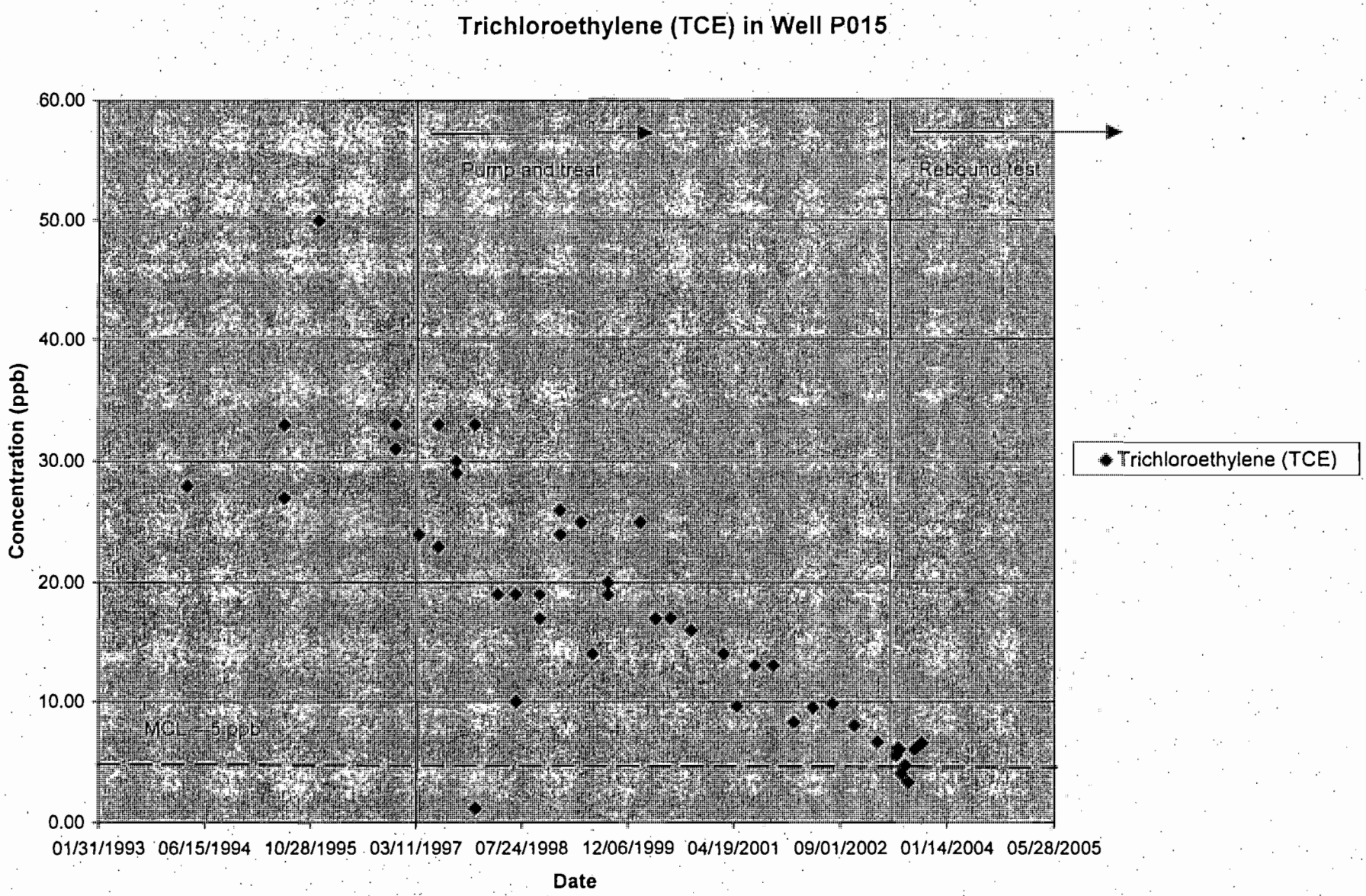
E 58


Trichloroethylene (TCE) in Well 425
Pump and Treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date

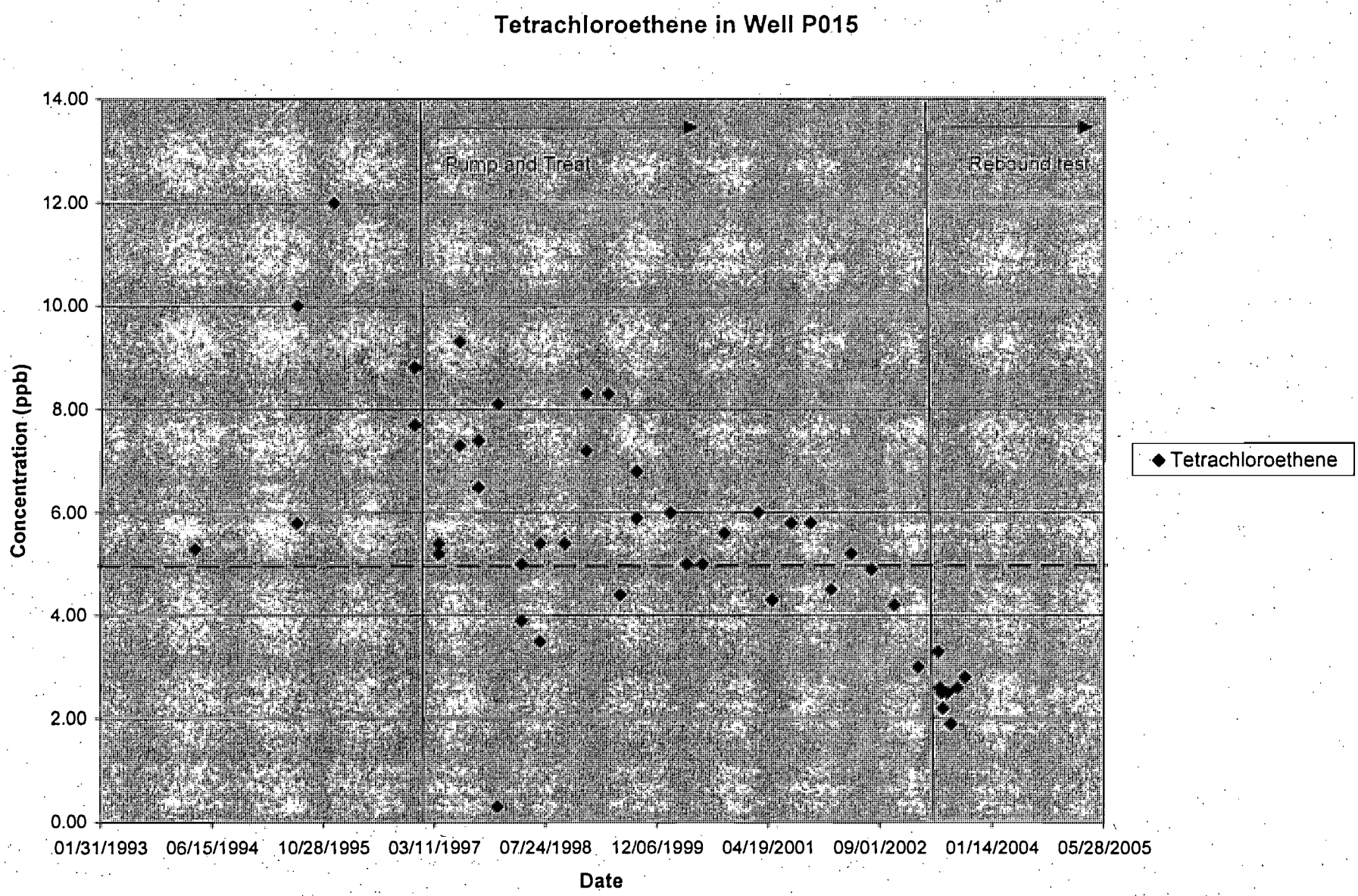
E59


Tetrachloroethene in Well 425
Pump and Treat
MCL = 5 ppb
Rebound test
Tetrachloroethene
Concentration (ppb)
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date

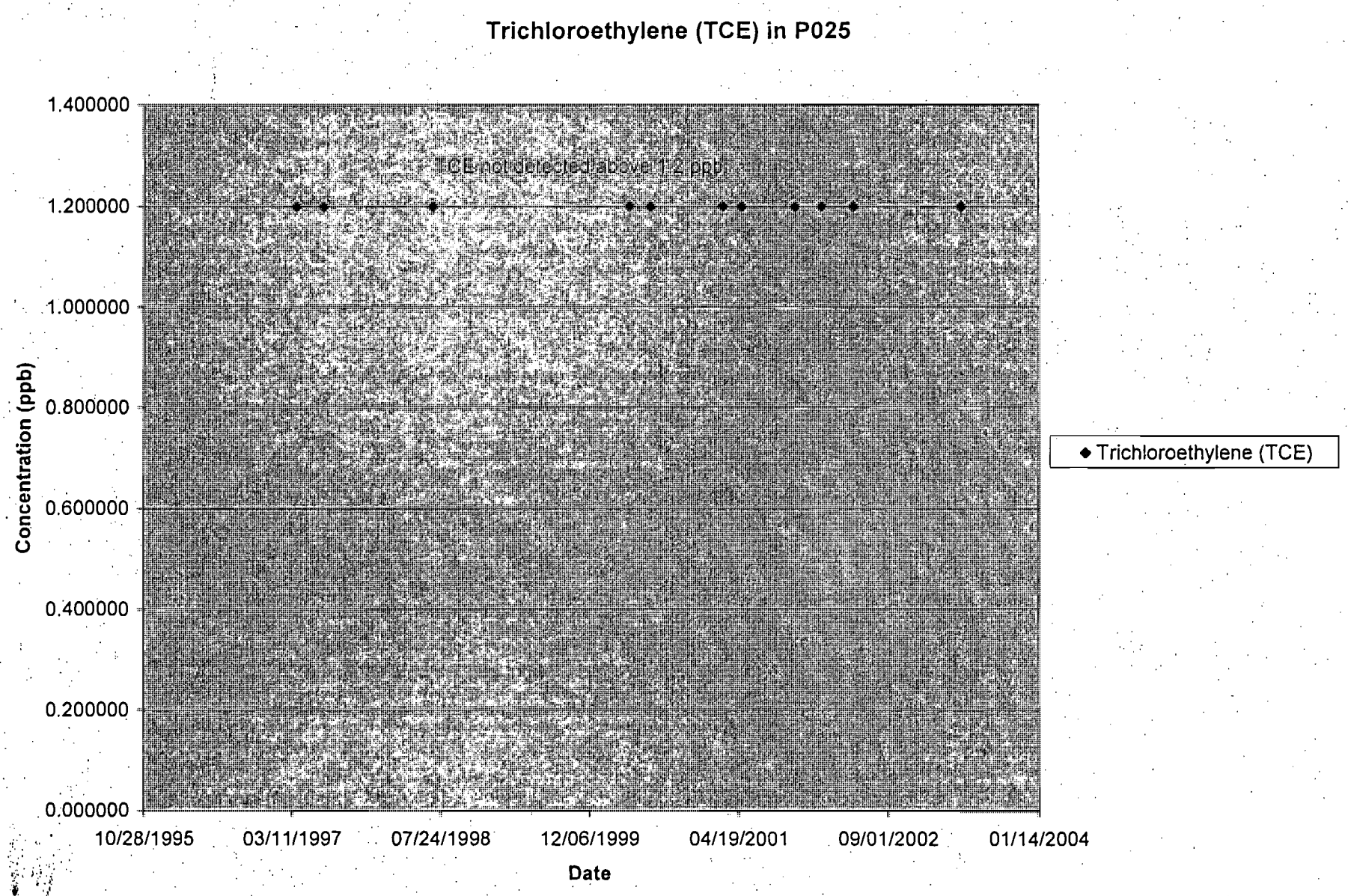
E 60

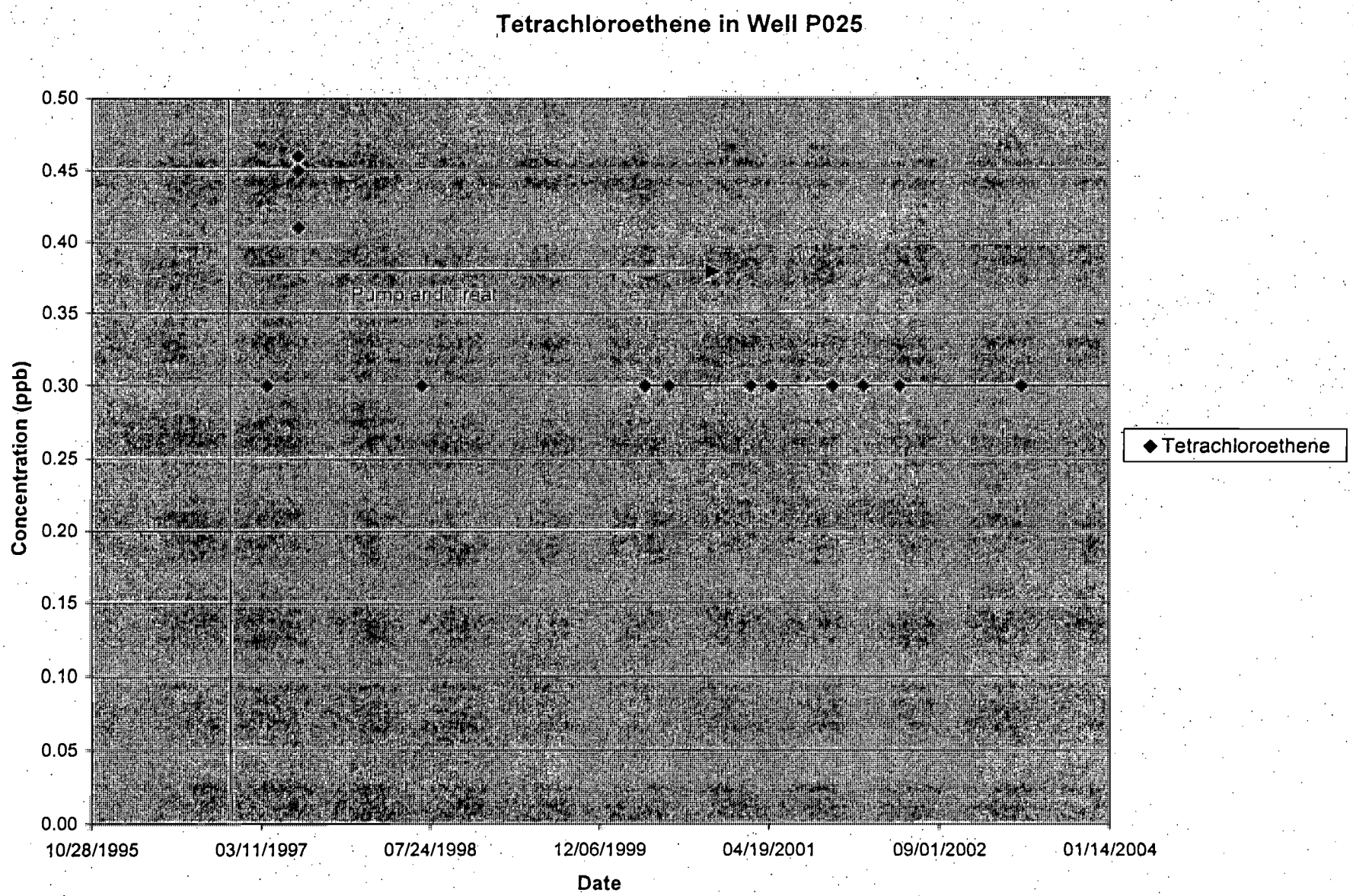

Trichloroethylene (TCE) in Well P015
Pump and treat
Rebound test
MCL = 5 ppb
Concentration (ppb)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

E61


Tetrachloroethene in Well P015
Pump and Treat
Rebound test
Concentration (ppb)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

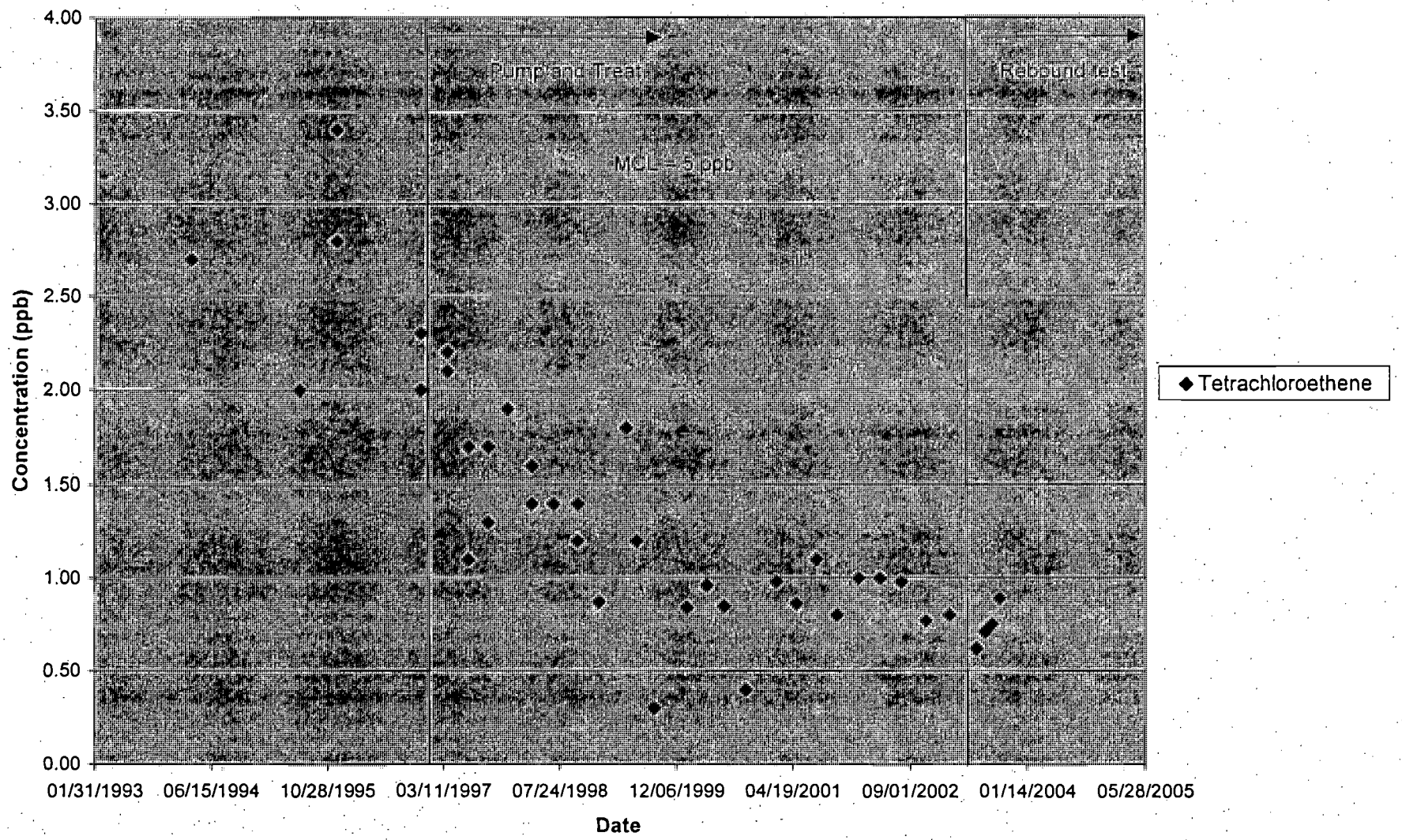
E6.2


Trichloroethylene (TCE) in P025
TCE not detected above 1.2 ppb
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
Concentration (ppb)
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

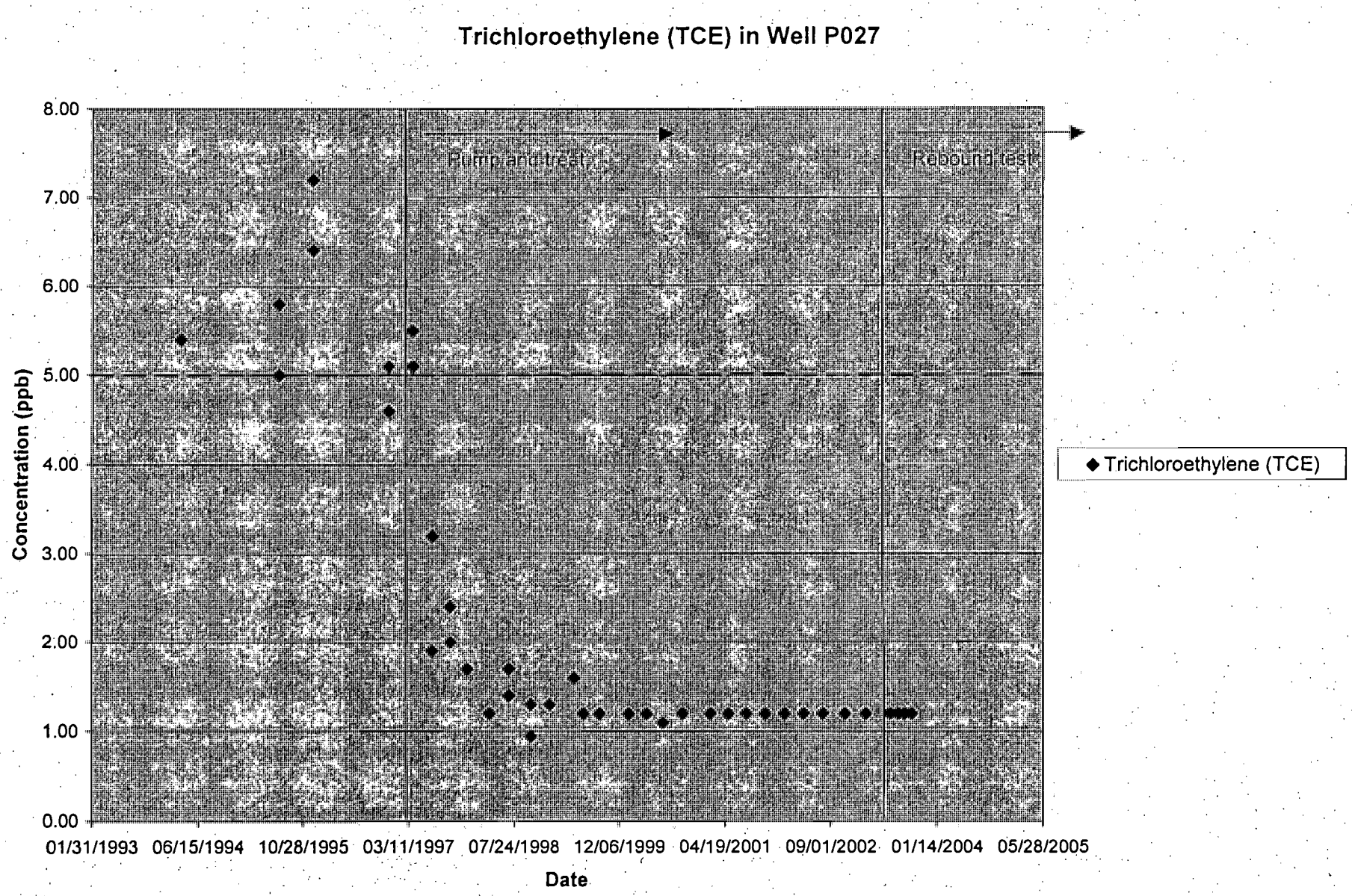

Tetrachloroethene in Well P025
Concentration (ppb)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Pump and Treat
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Tetrachloroethene

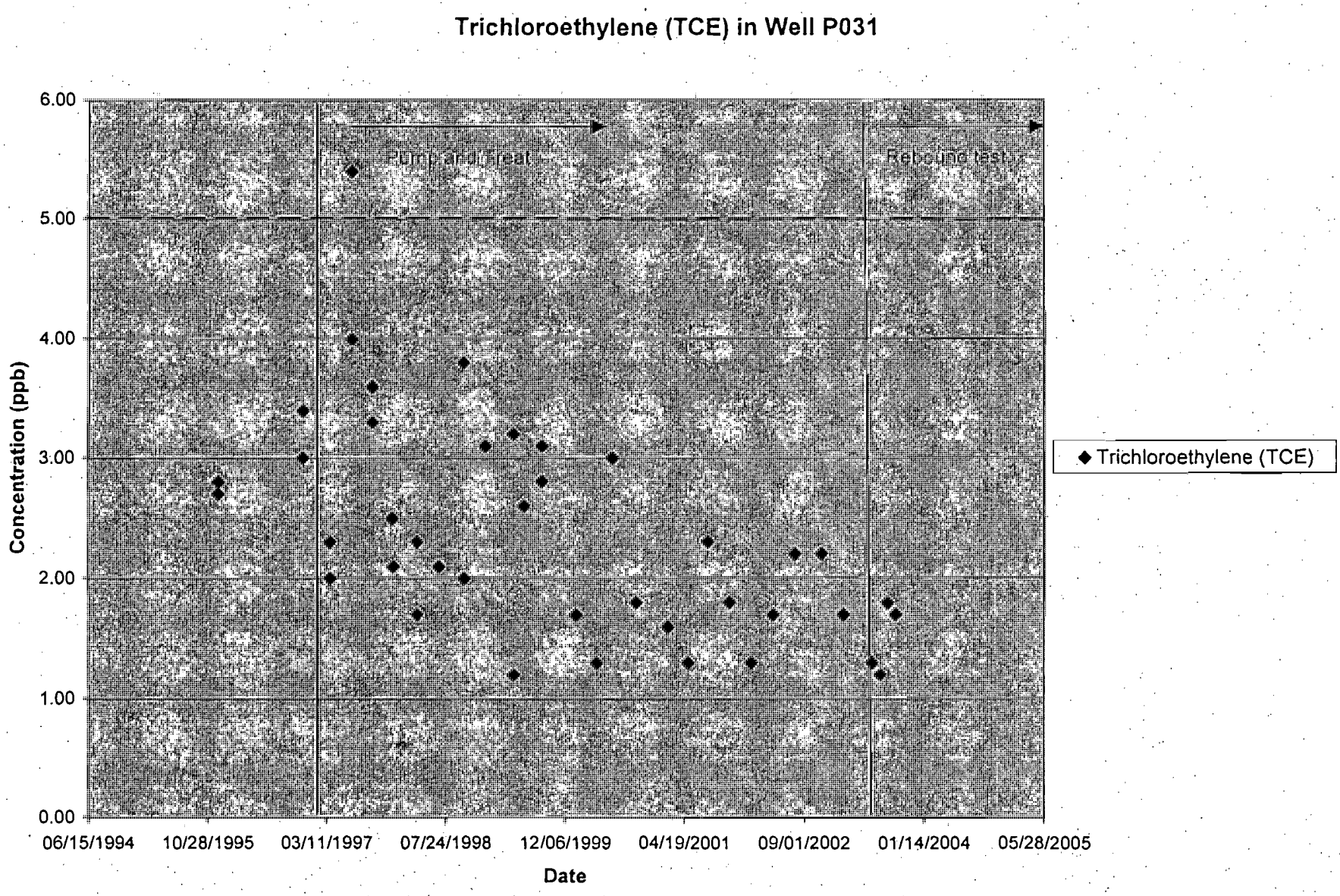
E67

Tetrachloroethene in Well P027

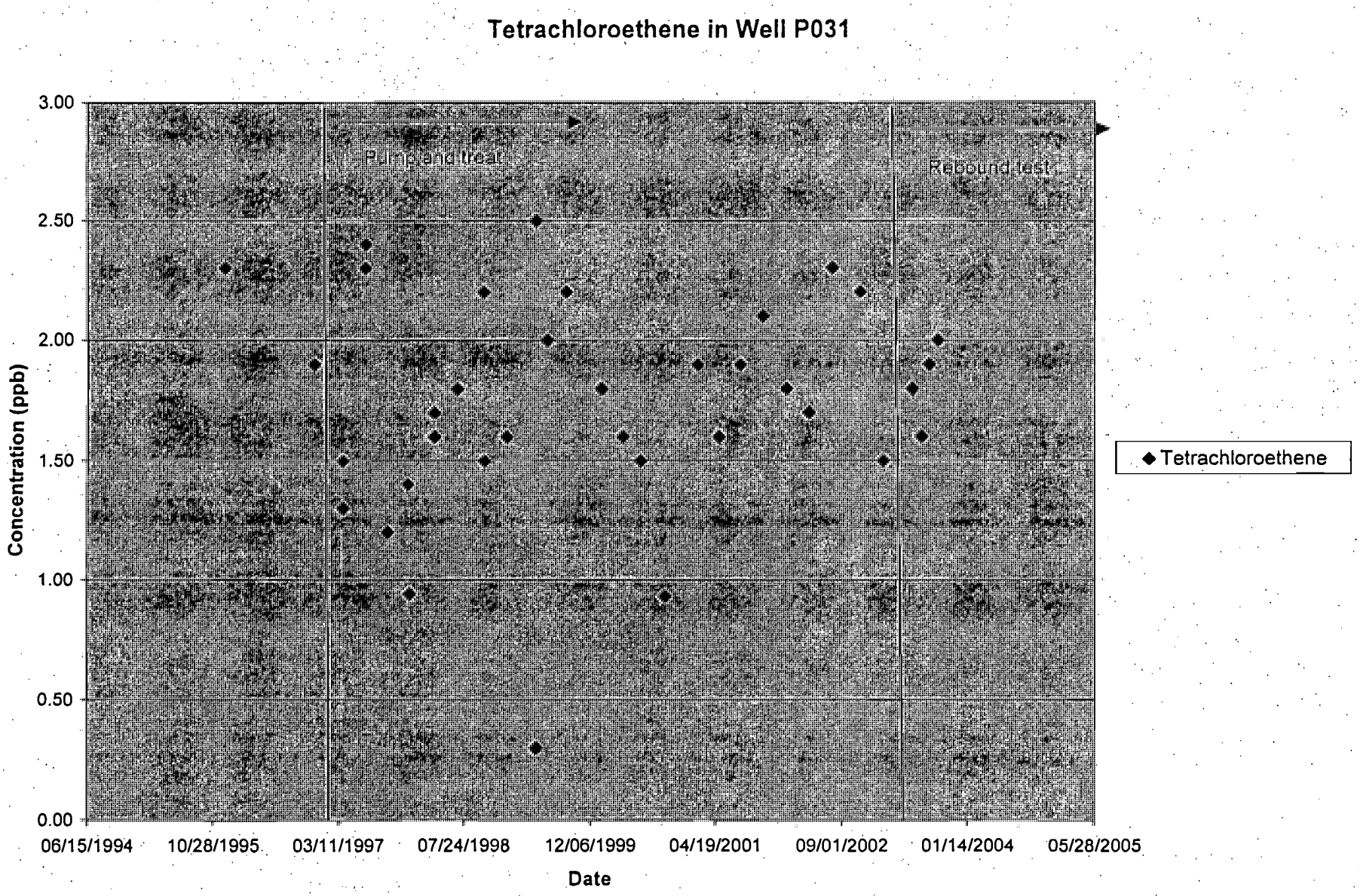


E65

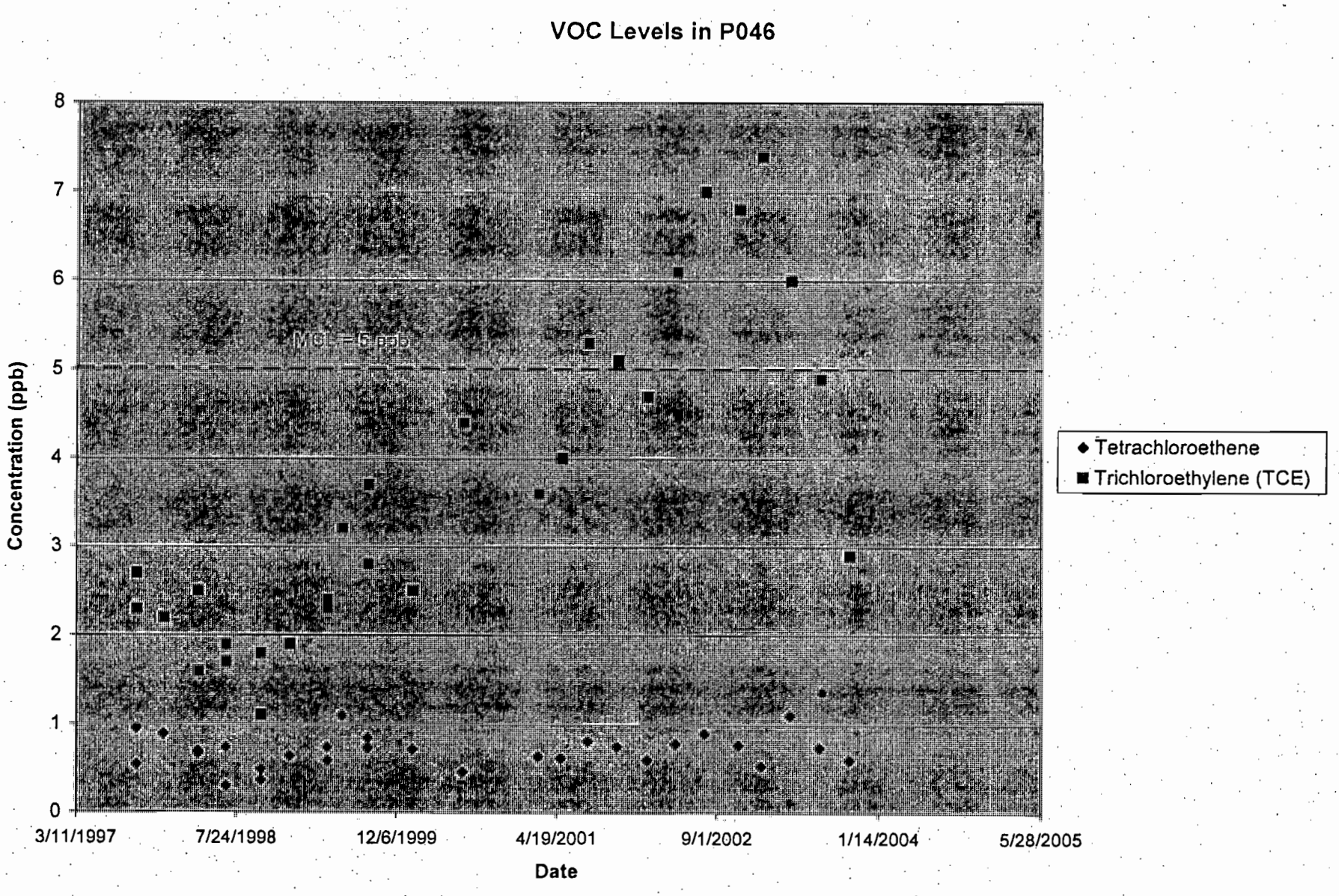

Trichloroethylene (TCE) in Well P027
Pump and treat
Rebound test
Concentration (ppb)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)


Trichloroethylene (TCE) in Well P031
Pump and treat
Rebound test
Concentration (ppb)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

E67


Tetrachloroethene in Well P031
Pump and treat
Rebound test
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

E68


VOC Levels in P046
Concentration (ppb)
8
7
6
5
4
3
2
1
0
MCL = 5 ppb
3/11/1997
7/24/1998
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
Date
Tetrachloroethene
Trichloroethylene (TCE)

E69

APPENDIX C

GEOLOGIC WELL LOGS

E70

GEOLOGIC LOG	MOUND PLANT	Project Manager William Little	PAGE: 1 of 3

Drilling Company	NORTH STAR DRILLING	Borehole/Well Id	P015
Drilling Method	ROTO SONIC	STATE PLANE COORDINATES	
Drilling Fluid	NONE	North (ft)	596352.10
Date Started	10/26/92	East (ft)	1495271.70
Date Completed	10/26/92	Ground Surface Elev. (ft)	734.99
Logged By	ERIC LARSEN	Top of Casing Elev. (ft)	737.52
Checked By	TOM THARP	Total Depth (ft)	57.0
Comments:	Piezometer located within the north-central portion of the spoils area, directly east of Mound production well 0071, and southeast of monitoring wells 0305/0309.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Casing: PVC, 2"			FL	0.0 to 10.0' - Dark yellowish brown (10YR 4/4) silt, clay, sand, and gravel, soft to firm, variably proportioned, occasional zones of large cobbles and boulders, dry. Fill.
				Backfill: Cement and bentonite grout				
5	O	GC	0005					
10	O	GC	0010					10.0 to 20.0' - Dark grayish brown (2.5Y 4/2) clayey silt, slightly firm, some fine to medium gravel, boulder at 13.1', moist. Fill.
	O	GC	0014					
15		GC	1014					
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	49.20	11:55	10/26/92
▼	46.92		11/24/92

E71

WESTON

GEOLOGIC LOG

MOUND PLANT

Project Manager: William Little

Borehole/Well Id: P015

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
	O	GC	0048	Filter Pack: 20/40 quartz sand			GM-GP	
50				Screen: PVC, 2"			SP	50.3 to 53.9' - Yellowish brown (10YR 5/4) sand, loose, predominantly coarse to very coarse grained, well sorted, minor very fine to fine gravel, trace silt, trace fine to medium grained sand, saturated. Outwash.
55	O	GC	0055				GM-GP	53.9 to 55.0' - Yellowish brown (10YR 5/6) silty, sandy gravel, loose, fine to very coarse grained sand, fine to very coarse gravel, many large cobbles, poorly sorted, trace clay, saturated. Outwash.
	O	GC	0056	Backfill: Native sediment			SH	55.0 to 57.0' - Gray to dark gray (7.5YR 6/0 to 4/0) shale, hard, slightly fossiliferous, 10 - 20% silt, some foliation, limonite staining along partings, dry. Bedrock.
60								Total Depth = 57.0'.
65								
70								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	49.20	11:55	10/26/92
▼	46.92		11/24/92

E72

WESTON

GEOLOGIC LOG	MOUND - OU9	Project Manager GORDON HORN	PAGE: 1 of 2

Drilling Company	NORTH STAR DRILLING	Borehole/Well Id	P025
Drilling Method	ROTOSONIC DRILL	STATE PLANE COORDINATES	
Drilling Fluid	WATER	North (ft)	596238.43
Date Started	2/2/93	East (ft)	1494979.56
Date Completed	2/2/93	Ground Surface Elev. (ft)	703.77
Logged By	DARLENE WILLIAMS	Top of Casing Elev. (ft)	703.77
Checked By	PAUL DARR	Total Depth (ft)	25.0
Comments:	East access road.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Casing: PVC, 2"			FL	0.0 to 0.5' - Sandy gravel, loose, fresh, dry. Fill.
							SC	0.5 to 4.5' - Dark brown clayey sand, organic rich, little silt, little fine gravel, moist.
				Backfill: Cement - bentonite grout				
5							GP	4.5 to 5.0' - Sandy gravel, little silt, loose, slight petroleum odor, angular to subrounded, dry. 5.0 to 10.0' - Sandy gravel, little silt, loose, slight petroleum odor, angular to subrounded, dry.
10	A	GC	0011					10.0 to 11.0' - Sandy gravel, loose, little silt, slight petroleum odor, angular to subrounded, dry.
							TI	11.0 to 14.0' - Sandy clay, trace gravel, some silt, firm, dry. Till.
15				Seal: 1/4" Bentonite chips Filter Pack: 10/20 Colorado silica sand			GP	14.0 to 15.0' - Sandy gravel, some silt, fine to coarse, loose, subangular to subrounded, petroleum odor, damp. 15.0 to 20.0' - Sandy gravel, some silt, large pieces of limestone, fine to coarse, loose, subangular to subrounded, petroleum odor, damp.
20				Screen: PVC, 2", slot				

GROUNDWATER

	DEPTH	HOUR	DATE
▽	21.38	08:55	02/06/93
▼	22.18	09:14	05/19/93

E73

WESTON

GEOLOGIC LOG	MOUND - OU9	Project Manager GORDON HORN	PAGE: 1 of 2

Drilling Company	NORTH STAR DRILLING	Borehole/Well Id	P027
Drilling Method	ROTOSONIC DRILL	STATE PLANE COORDINATES	
Drilling Fluid	WATER	North (ft)	596249.25
Date Started	1/9/93	East (ft)	1495078.43
Date Completed	1/9/93	Ground Surface Elev. (ft)	703.39
Logged By	DALE FLORES	Top of Casing Elev. (ft)	705.72
Checked By	PAUL DARR	Total Depth (ft)	40.0
Comments:	South of Area B landfill.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Casing: PVC, 2"			TS	0.0 to 1.5' - Brown gravelly clay, root structures. Topsoil.
							FL	1.5 to 5.0' - Dark brown to olive brown gravelly clay, fine to coarse gravels, dense, moist. Fill.
				Backfill: Cement - bentonite grout				
5							CL	5.0 to 6.5' - Greenish brown clay, trace gravel, root structures, probable buried soil horizon.
							GP	6.5 to 15.0' - Light brown sandy gravel, trace clay, rounded, poorly sorted. Outwash.
10								
15								15.0 to 17.0' - Light brown sandy gravel, trace silt, pieces of angular limestone, rounded, poorly sorted. Outwash.
							TI	17.0 to 20.0' - Yellowish brown silty clay, fine to coarse sand, gravel to 2", high plasticity, very stiff. Till.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▼	22.30	09:55	02/06/93
▼	24.71	09:57	05/19/93

E74

WESTON

GEOLOGIC LOG	MOUND - OU9	Project Manager GORDON HORN	PAGE: 1 of 2

Drilling Company	NORTH STAR DRILLING	Borehole/Well Id	P031
Drilling Method	ROTOSONIC DRILL	STATE PLANE COORDINATES	
Drilling Fluid	WATER	North (ft)	596023.27
Date Started	1/9/93	East (ft)	1495119.06
Date Completed	1/11/93	Ground Surface Elev. (ft)	700.97
Logged By	DALE FLORES	Top of Casing Elev. (ft)	703.35
Checked By	PAUL DARR	Total Depth (ft)	35.0
Comments:	Near Mound Plant production wells.		

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				Casing: PVC, 2"			TS	0.0 to 1.0' - Light brown to tan clay, trace gravel, good root structure, medium dense clay, moist. Topsoil.
							FL	1.0 to 5.0' - Dark brown silty clay, trace gravel, very dense, high plasticity. Fill.
				Backfill: Cement - bentonite grout				
5								5.0 to 6.0' - Silty sand, fine to medium grained sand 40 to 50% silt, moist. Fill. 6.0 to 7.0' - Light to dark brown silty clay, trace sand, trace root structure. Fill.
							GC	7.0 to 8.0' - Light brown to yellowish brown clayey gravel, trace sand, significant cobbles to 4".
							TI	8.0 to 9.0' - Yellow brown gravelly clay, moderate plasticity, angular to rounded. Till.
10							GP	9.0 to 16.0' - Sandy gravel, trace clay, gravel to cobble size, angular to rounded, 60% gravel, 30% coarse sand, 10% silty clay.
15								16.0 to 19.0' - Rust brown sandy gravel, trace clay, gravel to cobble size, angular to rounded, 60% gravel, 30% coarse sand, 10% silty clay.
20							SP	19.0 to 22.0' - Light brown gravelly sand, coarse sand, fine gravel.

GROUNDWATER

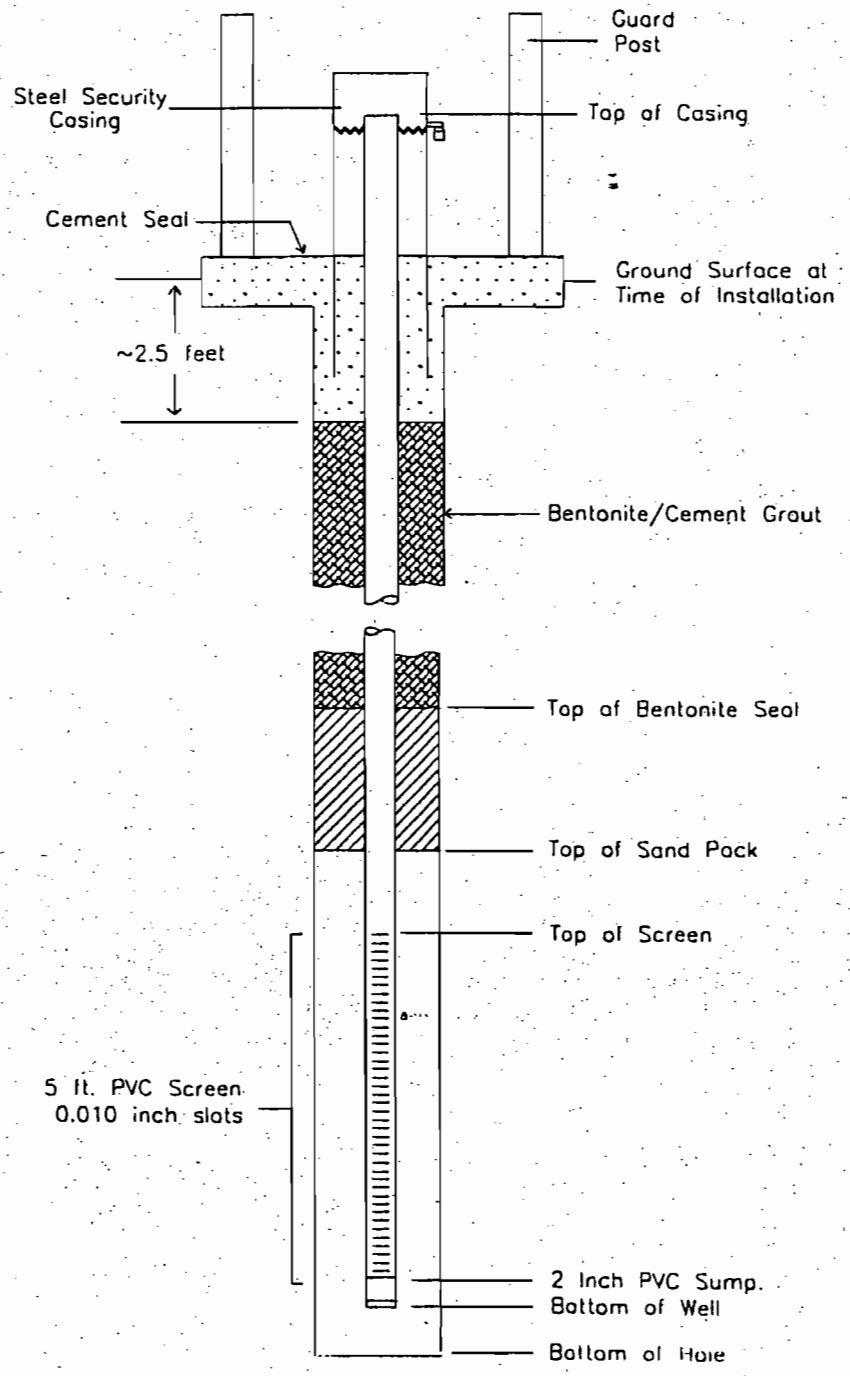
DEPTH	HOUR	DATE
18.50	08:15	01/11/93
22.22	09:32	05/19/93

E75

WESTON

GROUNDWATER MONITORING WELL

Well Diameter	2 inch	Well Number	P043
Borehole Diameter	6 inch	Completion Date	3/12/97
Casing Material	PVC	Completed By	Terran / Bowser Morner
Screen Material	PVC Slotted	Drilling Method	Hollow Stem Auger
Project	EGG297	Location	EG&G Mound



	Vertical	Elevation
Guard Post	+2.06'	704.803
Ground Surface at Time of Installation	0'	702.74
Top of Bentonite Seal	36.5'	666.24
Top of Sand Pack	43.0'	666.24
Top of Screen	46.33'	656.41
Bottom of Well	51.50'	651.24
Bottom of Hole	52.5'	650.24

E76

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P043
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		SHEET 1 OF 1
	SAMPLING METHOD: N/A		DRILLING

					START DATE	FINISH DATE
WATER LEVEL						
TIME					3/12/97	3/12/97
DATE					TIME	TIME
CASING DEPTH					1300	1625

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	

BORING P043 WAS NOT LOGGED

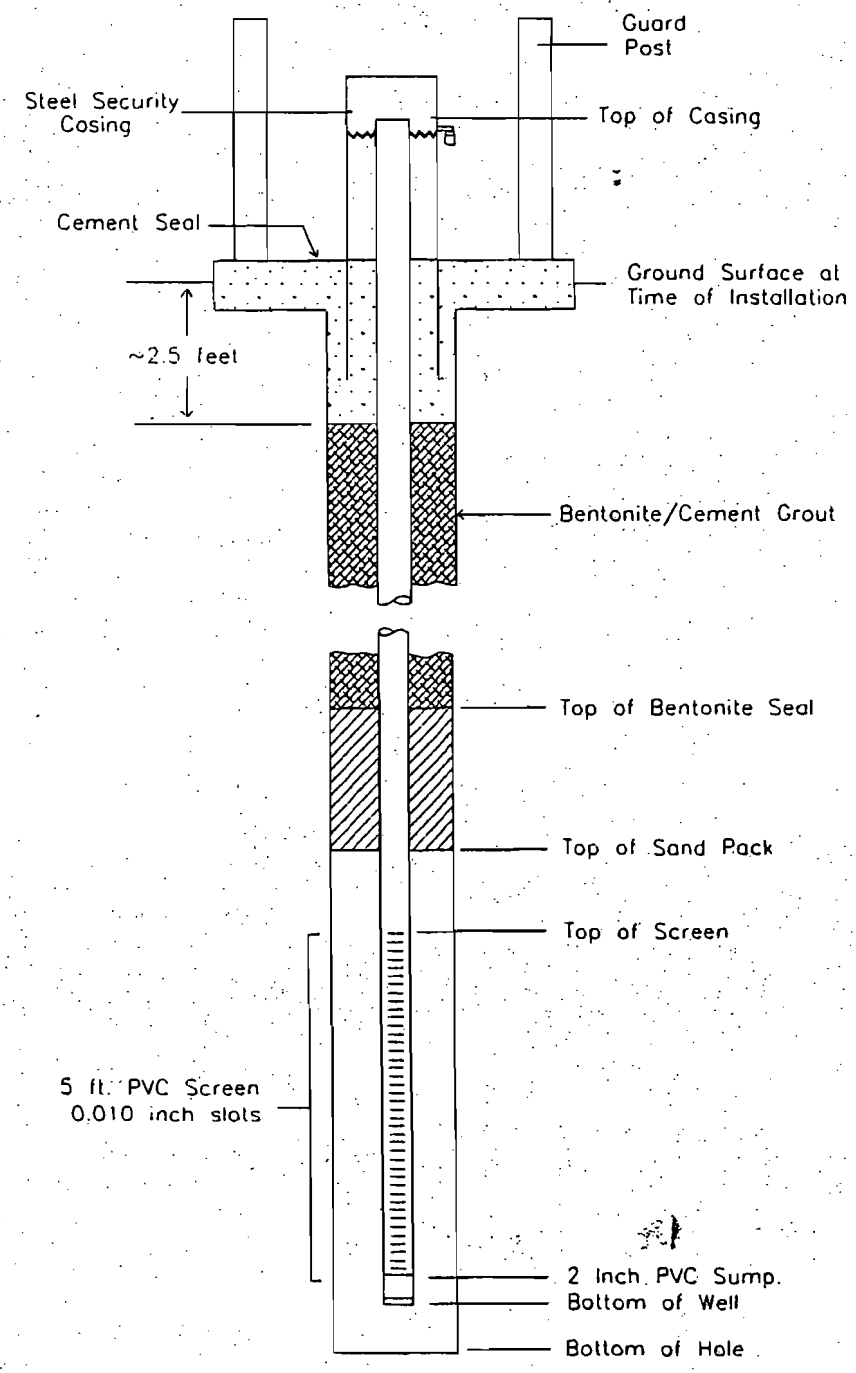
CHECKED BY KWM

IE 3/12/97

E77

GROUNDWATER MONITORING WELL

Well Diameter	2 inch	Well Number	P044
Borehole Diameter	6 inch	Completion Date	3/10/97
Casing Material	PVC	Completed By	Terran / Bowser Morner
Screen Material	PVC Slotted	Drilling Method	Hollow Stem Auger
Project	EGG297	Location	EG&G Mound



	Vertical	Elevation
Top of Casing	+2.42'	704.38
Ground Surface at Time of Installation	0'	701.96
Top of Bentonite Seal	33.50'	668.46
Top of Sand Pack	41.50'	660.46
Top of Screen	44.06'	657.90
Bottom of Well	49.23'	652.73
Bottom of Hole	49.92'	652.04

E78

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P044
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		SHEET 1 OF 3
	SAMPLING METHOD: N/A		DRILLING

						START	FINISH
WATER LEVEL						DATE	DATE
TIME						3/10/97	3/10/97
DATE						TIME	TIME
CASING DEPTH						0920	1330

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
0930	24/24			5,4, 4,7		1	OL	7.5 YR 3/4 2.5 Kg/cm2. MOIST. ORGANIC CLAY WITH GRASS & PLANT ROOTS. LOW TO MED PLASTICITY. MOIST. DARK BROWN. SOME SUBROUNDED PEBBLES. SOFT. GROUP SYMBOL (OL). NO ODOR.
0934	24/24			3,5, 6,6		2, 3	OL	7.5 YR 3/3. 3.25 Kg/cm2. CLAYEY SILT WITH ORGANIC CLAY. LOW TO MED. PLASTICITY. DRY. DARK BROWN. SOME SUBROUNDED PEBBLES. FIRM. GROUP SYMBOL (OL). NO ODOR.
0941	24/15			3,4, 4,12		4, 5	SM	10 YR 2/2. 0.25 Kg/cm2. MOIST. SILTY SAND. WITH SUBROUNDED PEBBLES AND POORLY SORTED SAND @ TOP SIX INCHES OF SAMPLE. MED. PLASTICITY. SOFT. GROUP (SM). NO ODOR. SOFT.
0947	24/20			7,13, 13,15		6, 7	SM-SC	10 YR 3/3. 0.75 Kg/cm2. DRY. SILTY SAND WITH SUBROUNDED PEBBLES. MED. TO HIGH PLASTICITY. DARK BROWN. SOFT. NO ODOR. GROUP (SM-SC).
0953	24/20			8,12, 22,28		8, 9	GP	7.5 YR 4/3 0.25 Kg/cm2 DRY. SANDY-SILTY GRAVEL WITH COBBLES. SUBANGULAR TO SUBROUNDED. POORLY SORTED. LOW PLASTICITY. DRY. SOFT. LT. TO DARK BROWN. GROUP SYMBOL (GP). NO ODOR.
0956	24/15			4,16, 18,19		10, 11	CL	10 YR 3/3. 0.5 Kg/cm2 MOIST. SANDY. SILTY CLAY TOP 10 INCHES. GROUP (CL). MED. PLASTICITY. LIGHT TO DARK BROWN. SOFT. SOME SUBROUNDED PEBBLES. LOWER 5 INCHES IS SILTY GRAVEL WITH COBBLES.
1003	24/16			15,17, 16,20		12, 13	CL-ML	10 YR 3/4. MOIST. CLAYEY SILT @ TOP 4 INCHES. SOFT. MED. PLASTICITY. GROUP (CL-ML). 0.25 Kg/cm2. LOWER 12 INCHES IS SUBANGULAR L.S. COBBLES. DRY. NO ODOR. N6/6
1007	24/16			8,17, 18,22		14, 15	GP	SUBANGULAR L.S. COBBLES. DRY. 5 GY 6/1. POORLY GRADED WITH SUBANGULAR GRAVEL. GROUP SYMBOL (GP).
1015	24/16			8,21, 24,42		16, 17	GP	AS ABOVE. WET.
1023	24/16			9,27, 37,50		18, 19	CL-ML	SANDY-SILTY CLAY WITH SUBANGULAR PEBBLES. 10 YR 4/2. SATURATED TOP 8 INCHES. MED. TO HIGH PLASTICITY. SOFT. GROUP (CL-ML). LOWER 8 INCHES IS SUBANGULAR L.S. COBBLES. DRY. 5G Y 6/1 WITH SUBANGULAR GRAVEL.
								50 BLOWS FOR 3 INCHES.

CHECKED BY RWM

DATE 3/19/97

E79

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P044
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		
			SHEET 2 OF 3
	SAMPLING METHOD: N/A		

					DRILLING START DATE	DRILLING FINISH DATE
WATER LEVEL						
TIME					3/10/97	3/10/97
DATE					TIME	TIME
CASING DEPTH					0920	1330

DATUM ELEVATION

DRILLING CONTRACTOR BOWSER MORNER

MIKE BRADY - TERRAN CORPORATION

CHECKED BY RWM

DATE 3/19/97

SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
1027	24/18			17,21, 44,25		21	ML-OH	SATURATED ANGULAR L.S. COBBLES, NO ODOR, 10 YR 3/2. SANDY-SILTY CLAY ZONE @ TOP 4 INCHES OF SAMPLE, GROUP SYMBOL (ML-OL), BOTTOM 14 INCHES ARE ANGULAR L.S. FRAGMENTS, N 6/6.
1035	24/4			9,50		22, 23	GP	SATURATED 4 INCHES OF ANGULAR L.S. FRAGMENTS AND POORLY SORTED SAND AND GRAVEL. 50 BLOWS FOR 4 INCHES, GROUP (GP).
1044	24/15			10,12, 17,18		24, 25	ML-OL	TOP 4 INCHES IS SILTY-SANDY CLAY, MED. TO HIGH PLASTICITY, SOFT, SATURATED, GROUP (ML-OL), TRACE SUBROUNDED PEBBLES. 10 YR 3/1, THE LOWER 11 INCHES IS A MIX OF ANGULAR L.S. FRAGMENTS AND SUBROUNDED S&G, POORLY SORTED. GROUP (GP-SP).
1049	24/24			8,11, 12,14		26, 27	GP-SP	SILTY-SANDY GRAVEL @ TOP 12 INCHES, SATURATED & POORLY SORTED, BOTTOM 12" IS WELL SORTED AND STRATIFIED.
1053	24/24			8,8, 10,12		28, 29	SW	SAND & GRAVEL SUBROUNDED & POORLY SORTED, TOP 6 INCHES, LOWER 18 INCHES IS WELL SORTED SAND, SATURATED, NO ODOR, SOME STRATIFICATION IN THE SAND ZONE, GROUP SYMBOL (SW).
1059	24/24			7,3, 5,10		30, 31	SW	MODERATELY WELL SORTED SAND, SOME SUBROUNDED PEBBLES THROUGHOUT, SOME STRATIFICATION, SATURATED, NO ODOR, 2.5 Y 4/2, SOFT LOW PLASTICITY GROUP (SW).
1110	24/24			12,18, 47,40		32, 33	SW	AS ABOVE.
1117	24/24			10,21, 26,29		34, 35	SW	AS ABOVE WITH SUBROUNDED PEBBLES.
1128	24/12			15,20, 46,21		36, 37	GP	SILTY GRAVEL, 2.5 Y 4/3, SATURATED POORLY SORTED @ TOP 6 INCHES, LOWER 6 INCHES IS ANGULAR L.S. FRAGMENTS (GP).
1135	24/22			4,17, 22,24		38, 39	SW-SP	WELL SORTED SAND @ TOP 15 INCHES OF SAMPLE, SATURATED 2.5 Y 4/4, SOFT, NON-PLASTIC, GROUP (SW-SP). LOWER 7 INCHES IS POORLY SORTED S&G ZONE WITH ANGULAR L.S. COBBLES, SG 4/1.

E80

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P044
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		
			SHEET 3 OF 3
	SAMPLING METHOD: N/A		
			DRILLING
			START / FINISH
	WATER LEVEL		DATE / DATE
	TIME		3/10/97 / 3/10/97
	DATE		TIME / TIME
DATUM ELEVATION	CASING DEPTH		0920 / 1330

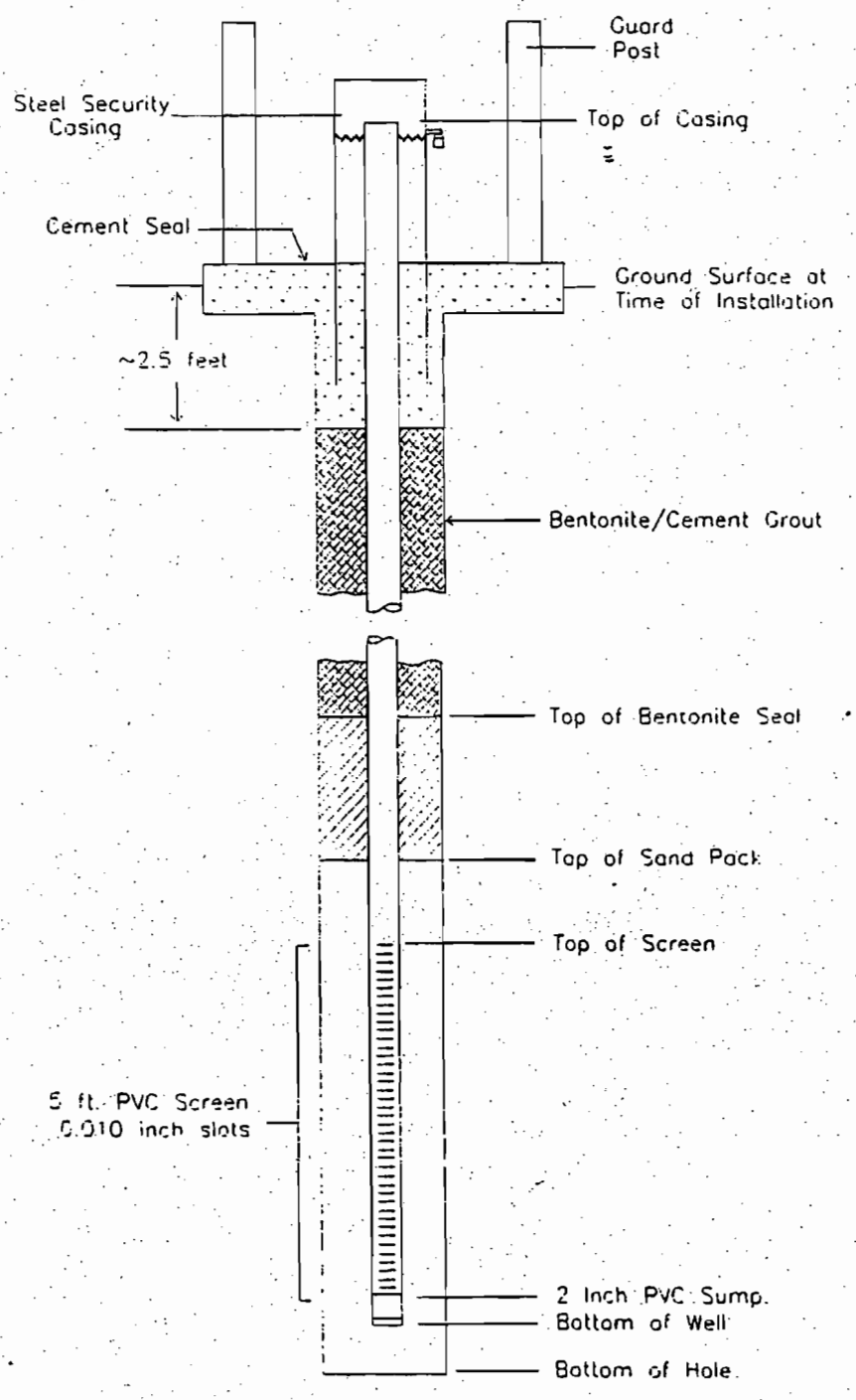
SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
1143	24/24			19,21, 24,25		41	SW-SP	TOP 12 INCHES OF SURFACE AS ABOVE, i.e. SAND, LOWER 12 INCHES AS ABOVE, i.e. S&G & L.S. FRAGMENTS, SATURATED.
1304	24/24			12,23, 30,32		42, 43, 44	SW-SP	2.5 Y 4/4 TOP 10-12 INCHES AS ABOVE, i.e. SAND, LOWER 12-14 INCHES AS ABOVE, i.e. S&G & TRACE L.S. FRAGMENTS, SATURATED. L.S. IS 5B 4/1.
1312	24/12			13,20, 17,13		45, 46	SW-SP	L.S. ANGULAR FRAGMENTS 2.5 Y 4/4, NO ODOR. SATURATED SAND SLUFF @ TOP 3 INCHES OF SAMPLE. WELL SORTED 2.5 Y 4/4.
1321	24/24			9,12, 17,20		47, 48	GP-SP	MODERATELY SORTED SANDY GRAVEL, COARSEN DOWNWARD. TOP 4 INCHES WELL SORTED SAND (SLUFF ?), SUBANGULAR, SATURATED. 2.5 Y 4/3. GROUP NAME (GP-SP), NO ODOR.
1328	24/24			10,12, 13,16		49	GP-SP	AS ABOVE
						50, 51, 52		
						53, 54		
						55, 56		
						57, 58		
						59		

E81

GROUNDWATER MONITORING WELL

Well Diameter	2 inch	Well Number	P045
Borehole Diameter	6 inch	Completion Date	3/11/97
Casing Material	PVC	Completed By	Terran / Bowser Morner
Screen Material	PVC Slotted	Drilling Method	Hollow Stem Auger
Project	EGG297	Location	EG&G Mound



	Vertical	Elevation
Top of Casing	+2.34'	704.19
Ground Surface at Time of Installation	0'	701.85
Top of Bentonite Seal	31.00'	670.85
Top of Sand Pack	38.50'	663.35
Top of Screen	43.58'	658.27
Bottom of Well	48.75'	653.10
Bottom of Hole	49.5'	652.35

E82

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P045
	CONTINUOUS 2" SPLIT-SPOON SAMPLING		SHEET 1 OF 1
	SAMPLING METHOD: N/A		DRILLING

						START	FINISH
WATER LEVEL						DATE	DATE
TIME						3/11/97	3/11/97
DATE						TIME	TIME
CASING DEPTH						0745	1330

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

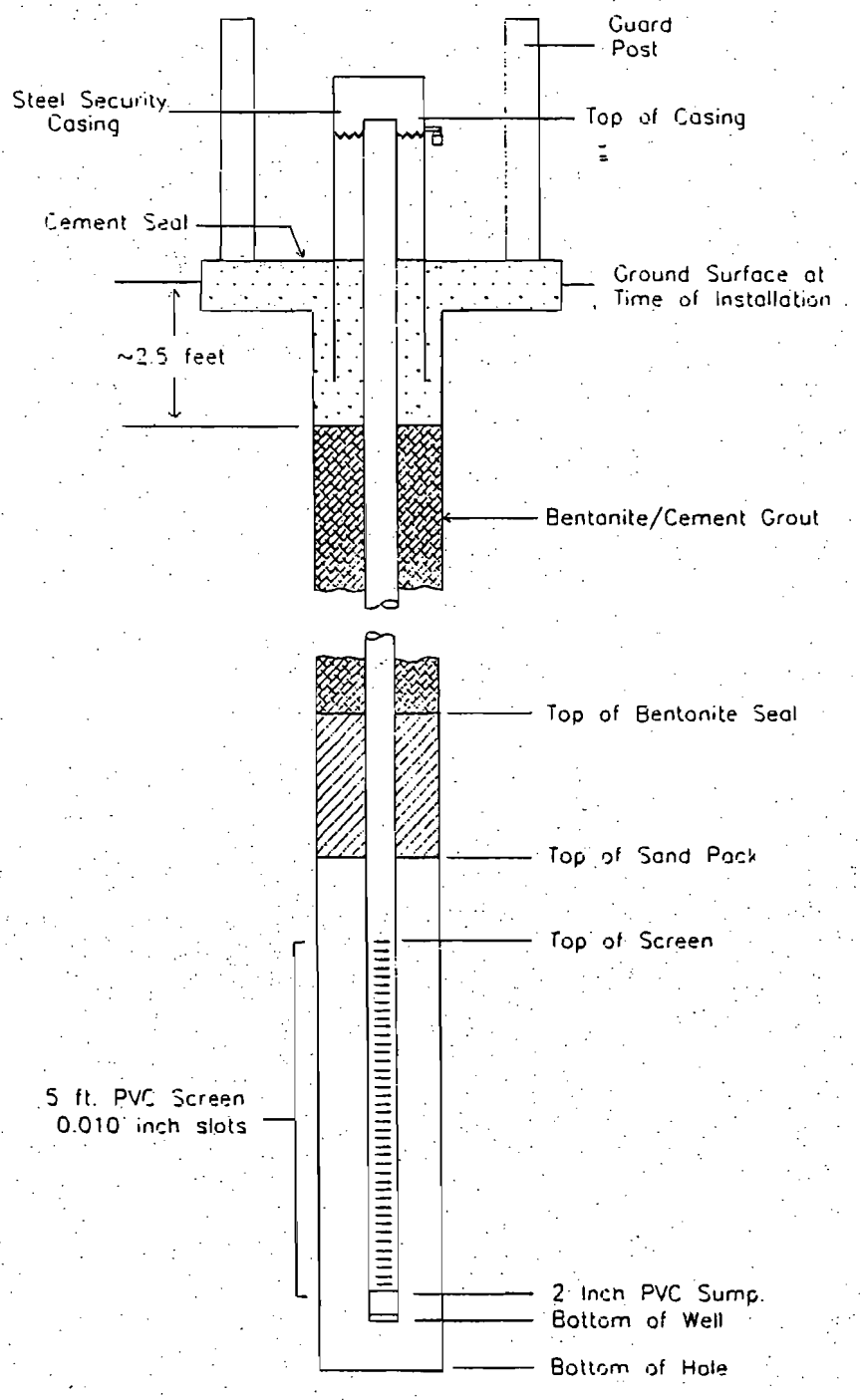
SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS
						0	
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	

BORING P045 WAS NOT LOGGED

E83

GROUNDWATER MONITORING WELL

Well Diameter	2 inch	Well Number	P046
Borehole Diameter	6 inch	Completion Date	3/12/97
Casing Material	PVC	Completed By	Terran / Bowser Morner
Screen Material	PVC Slotted	Drilling Method	Hollow Stem Auger
Project	EGG297	Location	EG&G Mound



	Vertical	Elevation
Top of Casing	+2.33'	703.05
Ground Surface at Time of Installation	0'	700.72
Top of Bentonite Seal	37.5'	663.22
Top of Sand Pack	43.0'	657.72
Top of Screen	46.79'	653.93
Bottom of Well	51.96'	648.76
Bottom of Hole	52.50'	648.22

E84

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P046
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		
			SHEET 1 OF 3
	SAMPLING METHOD: N/A		

					DRILLING START DATE	DRILLING FINISH DATE
WATER LEVEL						
TIME					3/11/97	3/11/97
DATE					TIME	TIME
CASING DEPTH					1445	1722

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
1445	24/10			4,4,6,8		1	OL-OH	ORGANIC CLAY OR SILT (OL-OH) 90% CLAY, 2.5 Y 4/3, MOIST, SOFT, HOMOGENEOUS, NO ODOR, GRASS & PLANT ROOTS, TRACE SUBROUNDED PEBBLES, 0.75 Kg/cm2.
1447	24/20			6,6,8,12		2 3	OL	TOP 6 INCHES AS ABOVE, LOWER 14 INCHES ORGANIC CLAY OR SILT (OL), MED. PLASTICITY, 2.75 kg/cm2, 2.5 Y 3/1, DRY, NO ODOR.
1450	24/22			4,6,8,8		4 5	OH-SC	SANDY CLAY (OH-SC), DRY, 0.25 Kg/cm2, 10 YR 2/2, SOME SUBROUNDED PEBBLES, DRY TO MOIST, LOWER 20 INCHES IS 2.25 Kg/cm2, NO ODOR.
1456	24/4			3,8,12,13	▽	6 7 8	OL	ORGANIC CLAY OR SILT (OL) MED. PLASTICITY, 0.5 kg/cm2, PLANT, 2.5 Y 4/2, SOME SUBROUNDED GRAVEL, MOIST TO DRY, NO ODORS, ANGULAR L.S. FRAGMENTS @ BOTTOM OF SAMPLE.
1500	24/18			8,6,8,14		9 10	CH	FAT CALY (CH), HIGH PLASTICITY, ANGULAR GRAVEL THROUGHOUT, 2.5 Y 4/2, SATURATED, SOFT, NO ODOR, SOME PLANT ROOTS, POORLY GRADED, GRAVEL @ THE LOWER 9 INCHES OF THE SAMPLE, 0.75 Kg/cm2.
1505	24/12			4,6,10,16		11	SG-GP / GP	POORLY SORTED S&G (SG-GP) @ TOP 4 INCHES OF SAMPLE, 75% GRAVEL (GP) @ LOWER 8 INCHES OF SAMPLE, SATURATED NO ODOR.
1509	24/24			6,7,12,12		12 13	SG-GP / SC-CL	POORLY SORTED S&G (SG-GP) @ TOP 5 INCHES OF SAMPLE MIXED WITH CLAYEY SAND (SC), GRAINS ARE SUBROUNDED, LOWER 19 INCHES IS A LEAN CLAY (CL).
1515	24/18			6,12,50		14 15	CL	MED. PLASTICITY, 5 Y 3/2, MOIST, TRACE SUBROUNDED PEBBLES, 4.5 Kg/cm2. LEAN CLAY, LOW TO MED. PLASTICITY, STIFF 3.5 Kg/cm2, 2.5 Y 3/2, SATURATED, NO ODOR, SOME SUBROUNDED PEBBLES.
1521	24/12			5,22,50		16 17	SC-GC	50 BLOWS FOR 4 INCHES, CLAYEY S&G (SC-GC), SATURATED L.S. FRAGMENTS @ LOWER TWO INCHES OF SAMPLE, SOFT, MED. TO HIGH PLASTICITY, 2.5 Y 3/2, NO ODOR.
1527	24/24			4,10,26,30		18 19	GP	TOP EIGHT INCHES AS ABOVE, LOWER 16 INCHES IS POORLY GRADED GRAVEL (GP), SUBROUNDED MIXED WITH SOME ANGULAR L.S. FRAGMENTS, 2.5 Y 4/4, LOOSE, SATURATED, NO ODOR.

E85

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P046
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		
			SHEET 2 OF 3
	SAMPLING METHOD: N/A		

					DRILLING START DATE	DRILLING FINISH DATE
WATER LEVEL					3/11/97	3/11/97
TIME					TIME	TIME
DATE					1445	1722
CASING DEPTH						

DATUM ELEVATION

DRILLING CONTRACTOR BOWSER MORNER

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	SURFACE CONDITIONS: GRASS
1534	24/18			10,28, 24,32			CH	TOP EIGHT INCHES POORLY GRADED GRAVEL. AS ABOVE.
						21		6 INCHES OF SANDY CLAY 0.25 Kg/cm2
							GP-SP	(CH). 10 YR 3/2. SATURATED. SOFT. LOWER SANDY GRAVEL ZONE (GP-SP).
						22		50/50 S&G SUBANGULAR TO SUBROUNDED. 10 YR 5/4.
1540	24/8			6,24, 50			CH	AS ABOVE. POORLY GRADED GRAVEL.
						23		
						24		
1548	24/24			14,16, 17,18			GP-SP	TOP 16 INCHES OF SAMPLE AS ABOVE. LOWER
						25		8 INCHES MODERATELY WELL SORTED SAND.
								POORLY GRADED. ROUNDED. SATURATED. NON-STRATIFIED.
						26		NO-ODOR. 10 YR 4/4.
1555	24/20			16,12, 16,24			GP-SP	POORLY SORTED S&G (GP-SP) SUBROUNDED GRAINS.
						27		SATUARTED. NO ODOR. ANGUALR L.S. COBBLES @
								LOWER 4 INCHES OF SAMPLE. 2.5 YR 4/3.
						28		
1600	24/18			12,12, 18,16			GP-SP	AS ABOVE. BUT W/ A LARGER PERCENTAGE (75%) OF
						29		MODERATELY WELL SORTED SAND. LOWER SIX INCHES IS SUBANGULAR L.S.
							CL	FRAGMENTS MIXED WITH LEAN CLAY (CL).
						30		
1605	24/24			16,24, 17,23			SP	TOP 14 INCHES CLAYEY SAND. POORLY GRADED (SP)
						31		60% SAND. 40% CLAY. SUBROUNDED GRAINS. SATURATED.
								2.5Y 4/3. LOWER 10 INCHES S&G POORLY GRADED 70/30 % 2.5 Y 4/4.
						32		
1614	24/20			6,18, 20,24			GP-SP	AS ABOVE POORLY GRADED S&G 70% GRAVEL TO
						33		30% SAND 2.5 Y 4/4 SATURATED.
						34		
1621	24/12			6,12, 14,4			GP-SP	AS ABOVE.
						35		
						36		
1631	24/20			12,16, 18,36			GP-SP	AS ABOVE. BUT LOWER 8 INCHES IS TILL.
						37		
						38		
1636	24			12,12, 14,16			GP-SP	AS ABOVE. POORLY GRADED S&G 70% GRAVEL TO 30% SAND 2.5 YR 4/4
						39		SATURATED.

B E BRADY - TERRAN CORPORATION CHECKED BY RWM

DATE 3/11/97

E86

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. P046
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		SHEET 3 OF 3
	SAMPLING METHOD: N/A		DRILLING

					START DATE	FINISH DATE
WATER LEVEL					3/11/97	3/11/97
TIME					TIME	TIME
DATE					1445	1722
CASING DEPTH						

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
1645	24/24			10,13, 13,14		40	GP-SP	AS ABOVE
						41		
1657	24/24			10,16, 16,26		42	GP-SP	AS ABOVE. COARSENING UPWARD, 90% GRAVEL.
						43		
1705	24/24			16,18, 18,18		44	GP-SP	AS ABOVE. FINING UPWARD S&G.
						45		
1714	24/24			11,16, 26,24		46	GP-SP	AS ABOVE.
						47		
1722	24/15			12,18, 32,24		48	GP-SP	AS ABOVE.
						49		
						50		
						51		
						52		
						53		
						54		
						55		
						56		
						57		
						58		
						59		

E87

GEOLOGIC LOG — MOUND PLANT

Project Manager: John B. Price

Drilling Company	Bowser Morner	Borehole/Well Id	0305
Drilling Method	Cable Tool	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596493.51
Date Started	8/21/89	East (ft)	1495084.47
Date Completed	8/22/89	Ground Surface Elev. (ft)	710.00
Logged By	Tom Tharp	Top of Casing Elev. (ft)	711.76
Checked By	Jim Brinkman	Total Depth (ft)	40.1

Comments:

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				CASING: Stainless steel, 4".			CL	Gray clay, trace silt.
5	SS	LI	0001	BACKFILL: Cement and bentonite grout.			CL	Gray clay, trace silt.
10	SS	LI	0002				CL	Brown clay, trace silt.
15	SS	LI	0003				SM	Silty sand, well graded.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
▽	34.50	17:25	08/21/89
▼	30.28	11:56	09/20/90

E88

WESTON

GEOLOGIC LOG	MOUND PLANT	Project Manager John B. Price	PAGE: 1 of 3

Drilling Company	Bowser Morner	Borehole/Well Id	0317
Drilling Method	Cable Tool	STATE PLANE COORDINATES	
Drilling Fluid	None	North (ft)	596206.65
Date Started	8/16/89	East (ft)	1495023.69
Date Completed	8/18/89	Ground Surface Elev. (ft)	703.80
Logged By	Tom Tharp	Top of Casing Elev. (ft)	705.64
Checked By	Jim Brinkman	Total Depth (ft)	63.5

Comments:

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
0				BACKFILL: Type 1 Portland cement, 5% bentonite slurry.			GM	Silty, sandy gravel, gravel up to 1 inch in diameter.
5	SS	LI	0001	CASING: Stainless steel, 4".			GC-GM	Sandy, silty, clayey gravel, gravel consists of limestone fragments up to 1 inch in diameter.
10	SS	LI	0002				CL	Gray to brown gravelly clay.
15	SS	LI	0003				GC	Sandy, clayey gravel, gravel consists of limestone fragments up to 1.5 inches in diameter.
20								

GROUNDWATER

	DEPTH	HOUR	DATE
∇	28.00	18:35	08/16/89
▼	24.21	12:03	09/20/90

E89

WESTON

GEOLOGIC LOG

MOUND PLANT

Project Manager: John B. Price

Borehole/Well Id 0317

Depth	Sample T	Sample A	Sample ID	Well Materials	Well Con	Lith	USCS or Rock Type	Lithologic Description
	SS	LI	0008				GM	Brown sand, some pebbles to .3 feet in diameter, < 10% silt.
50								
	SS	LI	0009				GM	Silty sand, fine to coarse grained, some pebbles.
55	SS	LI	0010					
				SCREEN: Stainless steel, 4", with .01" wire wrap slot.			SC-SM-SP	Clayey, silty sand, fine grained, some limestone gravel.
60				FILTER PACK: #5 quartz torpedo sand.				
	SS	LI	0011				LS	Gray crystalline limestone (bedrock).
	SS	LI	0012					
65								Total Depth = 63.5 feet.
70								

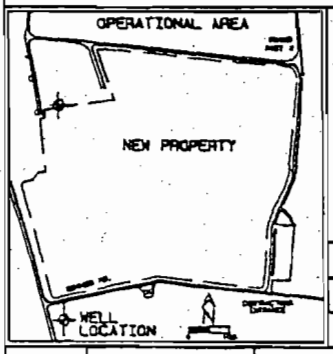
GROUNDWATER

	DEPTH	HOUR	DATE
▽	28.00	18:35	08/16/89
▼	24.21	12:03	09/20/90

E90

WESTON

MOUND / NEW PROPERTY	OU5 NEW PROPERTY EXTENDED PHASE FIELD INVESTIGATION	WELL LOG W402	Page 1 of 1



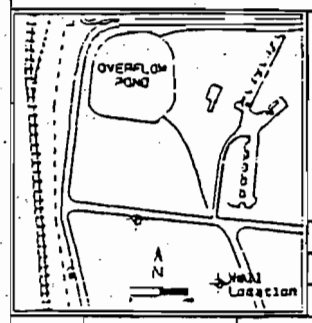
Area of Concern: New Property
Drilling Company: Bowser-Morner
Drilling Method: Cable Tool
Drilling Fluid: Water
Drilling Completed: 8/30/94
Well Installed: 8/30/94, 7/18/94
Logged By: Susan Abston
Total Depth (ft BGS): 32.6

COORDINATES
State Plane; Northing: 595983.0000
Easting: 1495287.6500
Mound Plant; South: 3671.0002
West: 4850.2214
Ground Surface Elevation (ft MSL): 704.56
Top of Casing Elevation (ft MSL): 706.08

GROUNDWATER	DATE	DEPTH (ft BGS)	COMMENTS
▼	8/30/94	22.09	Encountered during drilling.
▽	7/20/94	21.87	Sample collected.

DEPTH (ft BGS)	SAMPLES: Water	SAMPLES: Soil	WELL CONSTRUCTION	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
0	B40201		steel protective casing with locking cap (2.30 ft AGS); concrete pad		CL	0–5.5 CLAY, some silt, trace gravel; 7.5YR4/2 brown.
4						
			cement bentonite grout		GC	F.I.D.=4.0ppm; 5.5–12.0 CLAY, GRAVEL and SAND; subangular to rounded granules and pebbles; 7.5YR5/3 brown.
8			2" stainless steel riser			
12					SW	12.0–23.5 SAND and GRAVEL; poorly sorted.
16			(15.30 ft BGS); 3/8" bentonite pellet seal			
20			(19.13 ft BGS); (20.74 ft BGS)			
▽ ▼						
24	B40202		2", 0.01 slotted stainless steel screen		SP	23.5–26.8 SAND; fine; well sorted; saturated; 5YR4/4 brown.
28	W40201 W40211		Global #5 sand pack		SM GW	26.8–27.0 SAND, some silt and clay; fine sand; well sorted; 5YR4/1 brownish grey. 27.0–32.8 SAND and GRAVEL; fine to coarse sand; poorly sorted.
32			(31.01 ft BGS); stainless steel cap (32.80 ft BGS); 8" borehole diameter			

MOUND / NON-AOC	OUS OPERATIONAL AREA PHASE I RI/FS FIELD INVESTIGATION	WELL LOG W410	Page 1 of 2



Area of Concern: Non-AOC
Drilling Company: Bowser-Morner
Drilling Method: Cable Tool
Drilling Fluid: Water
Drilling Completed: 7/11/94
Well Installed: 7/12/94, 7/13/94
Logged By: Susan Abston
Total Depth (ft BGS): 41.2

COORDINATES	
State Plane: Northing:	598520.9127
Easting:	1495228.1001
Mound Plant: South:	3145.7534
West:	4857.5850
Ground Surface Elevation (ft MSL):	713.25
Top of Casing Elevation (ft MSL):	715.50

GROUNDWATER	DATE	DEPTH (ft BGS)	COMMENTS
▼	7/11/94	30.95	Encountered during drilling.
▽	7/21/94	32.10	Sample collected.

DEPTH (ft BGS)	SAMPLES Water	SAMPLES Soil	WELL CONSTRUCTION	LITHOLOGY	USCS	DESCRIPTION / COMMENTS
0		841001	steel protective casing with locking cap (2.25 ft AGS); concrete pad		CL	0-5.0 CLAY and SILT, trace coarse sand and gravel; dry; 7.5YR4/2 brown.
4					SC	5.0-14.0 CLAY, SILT, and SAND, trace gravel; dry; 7.5YR5/3 brown.
8			cement bentonite grout			
12			2" stainless steel riser			
					SP	14.0-18.0 SAND, some gravel, trace silt; coarse sand; dry.
18					SW	18.0-28.0 SAND, some gravel; fine to coarse sand; dry.
20			(21.48 ft BGS) 3/8" bentonite pellet seal			
24						

Figure 2.10. Well Log of Monitoring Well W410 (Page 1 of 2)

MOODY'S
of Dayton, Inc.
P.O. Drawer 509
4359 Infirmary Road
Miamisburg, Ohio 45343-0509
513-859-4482

PIEZOMETER/MONITORING WELL LOG

MER: Mound JOB NO. 46199 DATE 6-13 BORING NO. 417

ONS: SURFACE TOP OF PIPE

ELL: MW
4"
SS

N TYPE, SIZE & SLOT: 020 slot
" x 10' 4"

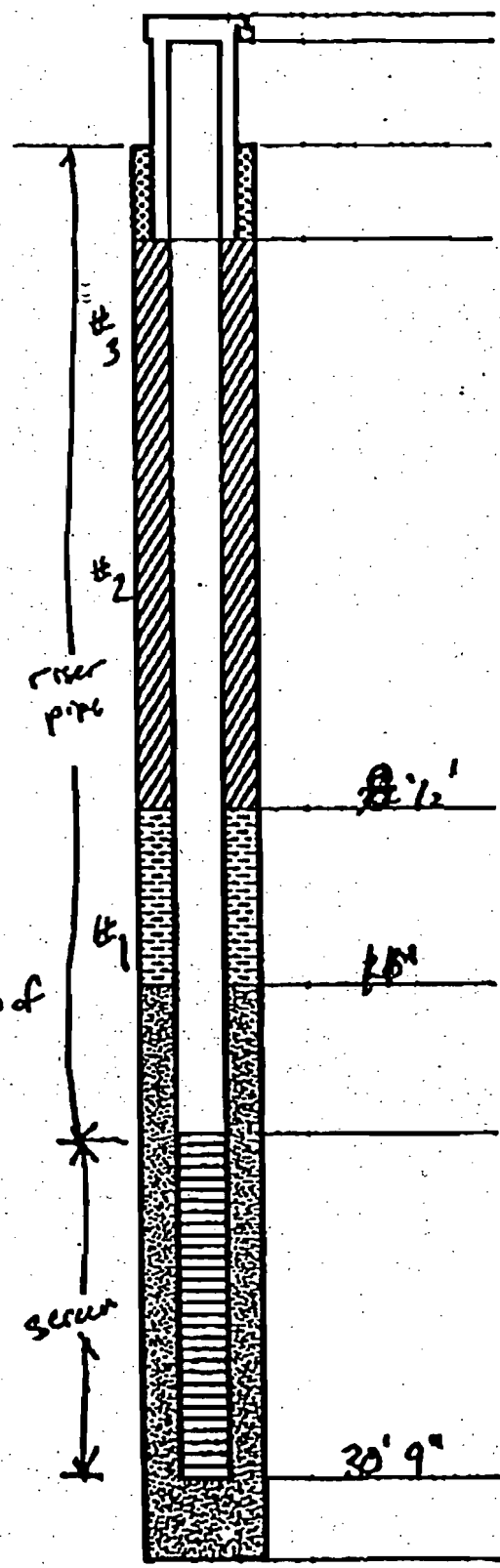
ATION TIME & REMARKS: plug = 5"
Bers = #1 10'
#2 10'
#3 4' 11"

PMENT TIME & REMARKS: ~~plug 5'~~

WATER LEVELS

DATE	DEPTH
6-19-96	22' 3½" from top of well

ENTS: used
bags of sand = 6
buckets of pellets = 2
bags of bentonite = ½
bags of cement = 6
ulty setting seal experienced while setting
sand:



Sand, Gravel Pack
Bentonite
Cement/Bentonite Grout
Concrete

E93

BORING NO.: 417 LOCATION: OD Unit-1

DATE STARTED: 6-12-96 DATE FINISHED: 6-13-96 JOB NO.: 46F99

WEATHER: DRILLER: JD CREW: Mike

of Dayton, Inc.
P.O. Drawer 509
Miamisburg, Ohio 45343-0509
513-859-4482

TEST BORING LOG

DEPTH	COLOR	SOIL DESCRIPTION AND REMARKS		MOISTURE	SAMPLE NO	SAMPLE TYPE	DEPTH	BLOW COUNTS	RECOVERY
0-5	Gray	Gravel & Cobbles	Loose	Dry	1	A	5-7	26, 19, 10, 14	5"
5-10	Brown	Clay (packed) & gravel	Tight	Dry	2	A	10-12	10 8, 10 9	24"
10-15	Brown/Gray	Clay with Cobbles	Tight	Dry	3	A	15-17	10, 10, 9, 9	14"
15-20	Gray	Rock		Dry	4	A	~~20-22~~	~~10, 15, 14, 14~~	1"
20-25	Brown	Clay sand & gravel EPA Requested	Tight	Wet	5	A	22-24	10, 34, 48, ~~57~~ No office time	8"
~~30-32~~ 30-32	Brown	Gravel clay & Cobbles	Loose	Wet	6	A	~~30-32~~	35, 14, 34, 36	16"

METHOD OF DRILLING:

AUGER ✓ SIZE 6¼

ROTARY SIZE(S)

AIR MUD WATER

WATER LEVELS 22' 3½" P. top of well

INITIAL

COMPLETION

24 HR

TYPE AND SIZE SAMPLER:

A. SPLIT SPOON: 2" ✓ 3"

B. SHELBY TUBE ( )

C. NX CORE

MACHINE CME 75

HAMMER: 140 LB ✓ 300 LB

Page ____ of ____

JUN-25-96 TUE 11:01 MOODY'S OF DAYTON P.08

MOODY'S
of Dayton, Inc.
P.O. Drawer 509
4359 Infirmary Road
Miamisburg, Ohio 45343-0509
513-859-4482

PIEZOMETER/MONITORING WELL LOG

MER: Mound JOB NO. 46199 DATE 6-17-96 BORING NO. 418

IONS: SURFACE TOP OF PIPE

ELL: MW
4"
SS

L TYPE, SIZE & SLOT: .020
X 10"

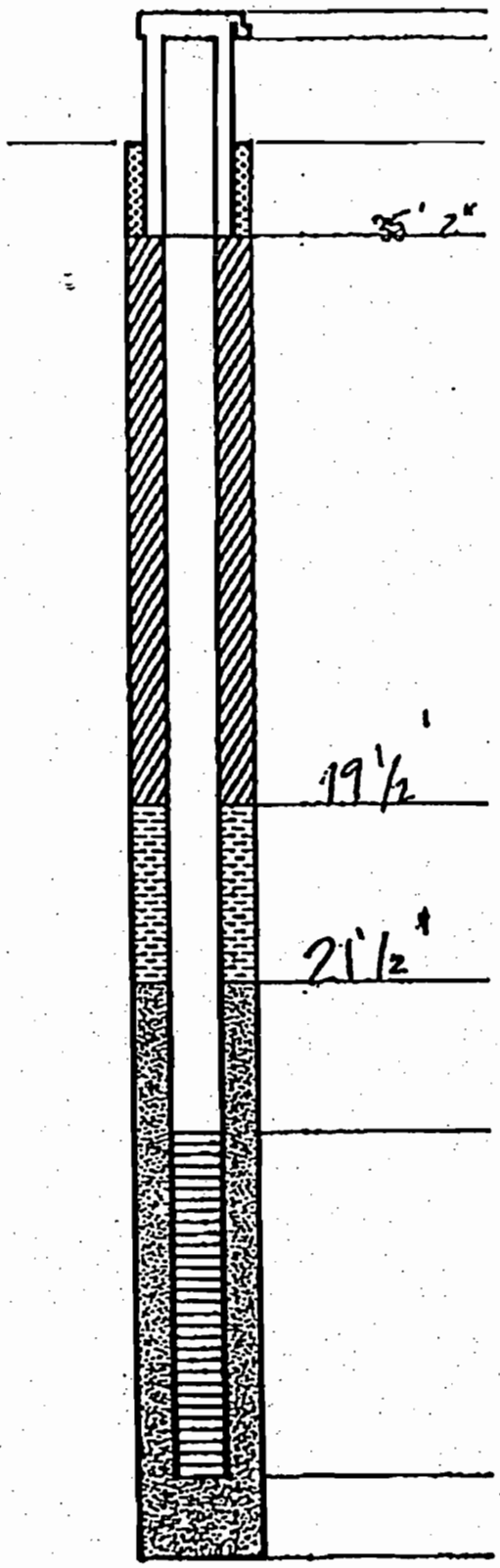
ATION TIME & REMARKS: plug = 5"
ters: #1 10' 1/2"
#2 10' 1"
#3 10'

PMENT TIME & REMARKS:

WATER LEVELS

DATE	DEPTH
19-96	27' from top of well

ENTS: used
gs of sand = 9
ckets of pellets = 2
gs of bentonite = 1/2
gs of cement = 8



E95

Sand, Gravel Pack
Bentonite
Cement/Bentonite Grout
Concrete

BORING NO.: 118 LOCATION: OP Unit 1

DATE STARTED: 6-13-96 DATE FINISHED: 6-17-96 JOB NO.: 46199

WEATHER: Sunny & Warm DRILLER: JD CREW: Mike

P.O. Drawer 509
Miamisburg, Ohio 45343-0509
513-859-4482

TEST BORING LOG

DEPTH	COLOR	SOIL DESCRIPTION AND REMARKS	MOISTURE	SAMPLE NO.	SAMPLE TYPE	DEPTH	BLOW COUNTS	RECOVERY
0-5	Brown/Gray	Clay & Gravel Tight	Dry	1	A	5-7	12, 14, 14, 12	9"
5-10	Brown	Hard packed clay Lots of Rock Tight	Dry	2	A	10-12	11, 14, 16, 18	15"
10-15	Gray/Brown	Cobbles, gravel, sand & Clay Tight	Dry	3	A	15-17	11, 16, 18, 19	24"
15-20		No Recovery ~ rock		4	A	20-22	50/1"	None
20-25	Brown	Clay with gravel, coarse sand & cobbles Tight	Wet	4	A	25-27	14, 16, 18, 20	22"
25-30	Brown	Sand & gravel	Wet	5	A	30-32	11, 12, 11, 12	24"
30-35	Gray/Brown	~~Gyp~~ Bedrock sand & clay	Wet	6	A	35-37	50/1/2"	1/2" top of shoe
		Auger refusal @ ~ 34-35ft						

METHOD OF DRILLING:
AUGER ✓ SIZE 6 1/4
ROTARY SIZE(S)
AIR MUD WATER

WATER LEVELS 27' ft. top of well
INITIAL
COMPLETION
24 HR

TYPE AND SIZE SAMPLER:
A. SPLIT SPOON: 2" ✓ 3"
B. SHELBY TUBE ( )
C. NX-CORE

MACHINE CME 75
HAMMER: 140 LB ✓ 300 LB

Page ___ of ___

7-12-96 TUE 11:03 MOODY'S OF DAYTON P.10

E96

MOODY'S
of Dayton, Inc.

P.O. Drawer 509
4359 Infirmary Road
Miamisburg, Ohio 45343-0509
513-859-4482

PIEZOMETER/MONITORING WELL LOG

ER: Mound JOB NO. 46199 DATE 6-20-86 BORING NO. 419

419 A

TIONS: SURFACE TOP OF PIPE

WELL: MW

4"

SS

EN TYPE, SIZE & SLOT:

4" x 10'

LLATION TIME & REMARKS: plug = 5"

isers = #1 10' 1/2"

#2 10' 1/2"

#3 10' 1/2"

#4 10' 1/2

OPMENT TIME & REMARKS:

WATER LEVELS

DATE	DEPTH
	3' 7½"

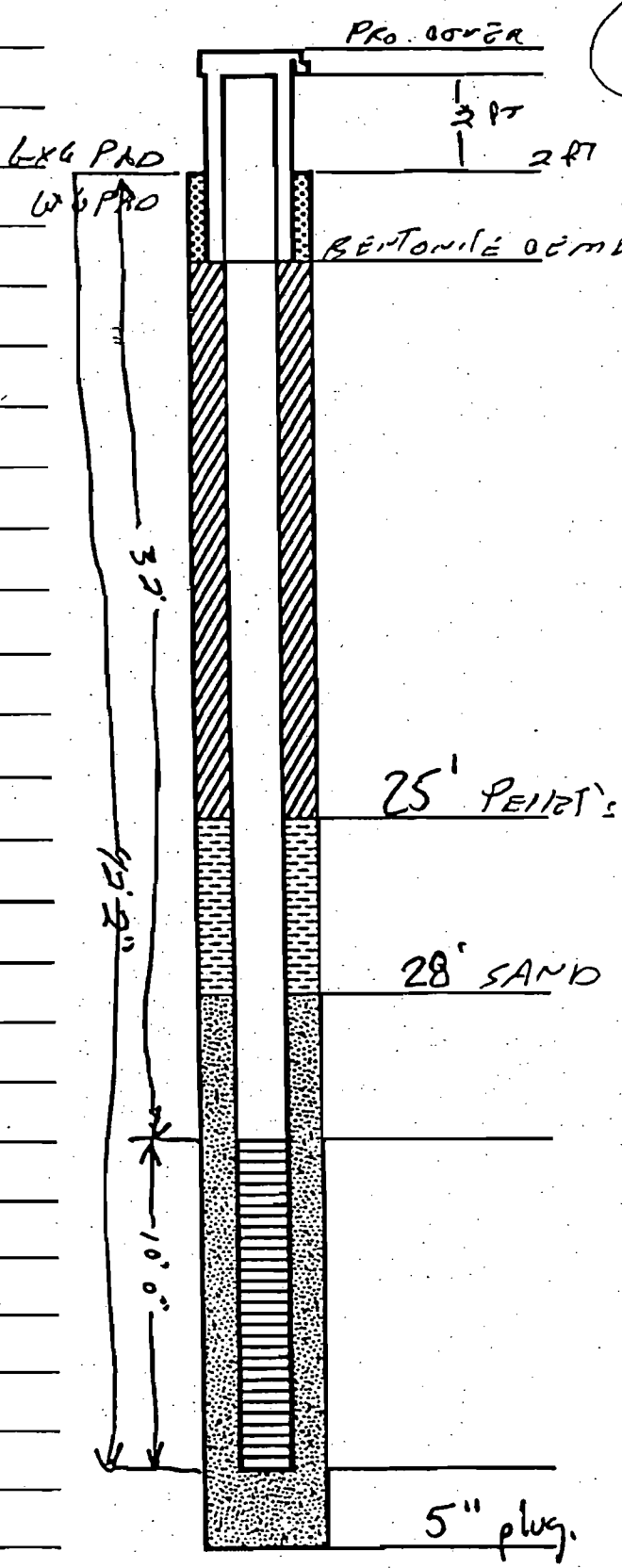
MENTS: used

ags of sand = 8

uckets of chips = 2

ags of bentonite = 1

ags of cement = 9



E97

Sand, Gravel Pack
Bentonite
Cement/Bentonite Grout
Concrete

CONSULTANT: Felix OWNER: [illegible]

BORING NO.: 419 LOCATION: Mound OP Unit-1

DATE STARTED: 6-19-96 DATE FINISHED: JOB NO.: 46199

WEATHER: DRILLER: JD CREW: Mike

of Dayton, Inc.
P.O. Drawer 509
Miamisburg, Ohio 45343-0509
513-859-4482

TEST BORING LOG

DEPTH	COLOR	SOIL DESCRIPTION AND REMARKS		MOISTURE	SAMPLE NO	SAMPLE TYPE	DEPTH	BLOW COUNTS	RECOVERY
0-5	Brown	Hard packed clay	Tight	Dry	1	A	5-7	8, 12, 16, 18	12"
5-10	Brown	Hard packed clay few stones	Tight	Dry	2	A	10-12	19, 22, 14, 16	16"
10-15	Gray	Gravel & course sand	Tight	Dry	3	A	15-17	12, 22, 24, 23	13"
15-20	Brown	Gravel sand & clay	Loose	Dry	4	A	20-22	14, 23, 23, 17	15"
20-25	Gray	Sand & gravel	Tight	Dry	5	A	25-27	22, 37, 42, 57	13"
25-30	Gray	Sand & gravel	Loose	Dry	6	A	30-32	10, 12, 14, 18	9"
30-35	Brown	Clay sand & gravel	Loose	Wet	7	A	35-37	10, 10, 10, 10	12"
35-40	Brown	Course sand & gravel & Bedrock	Loose	Wet	8	A	40-42	10, 10, 21, 100	18"
		Auger refusal @ ~ 42'							

METHOD OF DRILLING:
AUGER ✓ SIZE 6 1/4"
ROTARY SIZE(S)
AIR MUD WATER

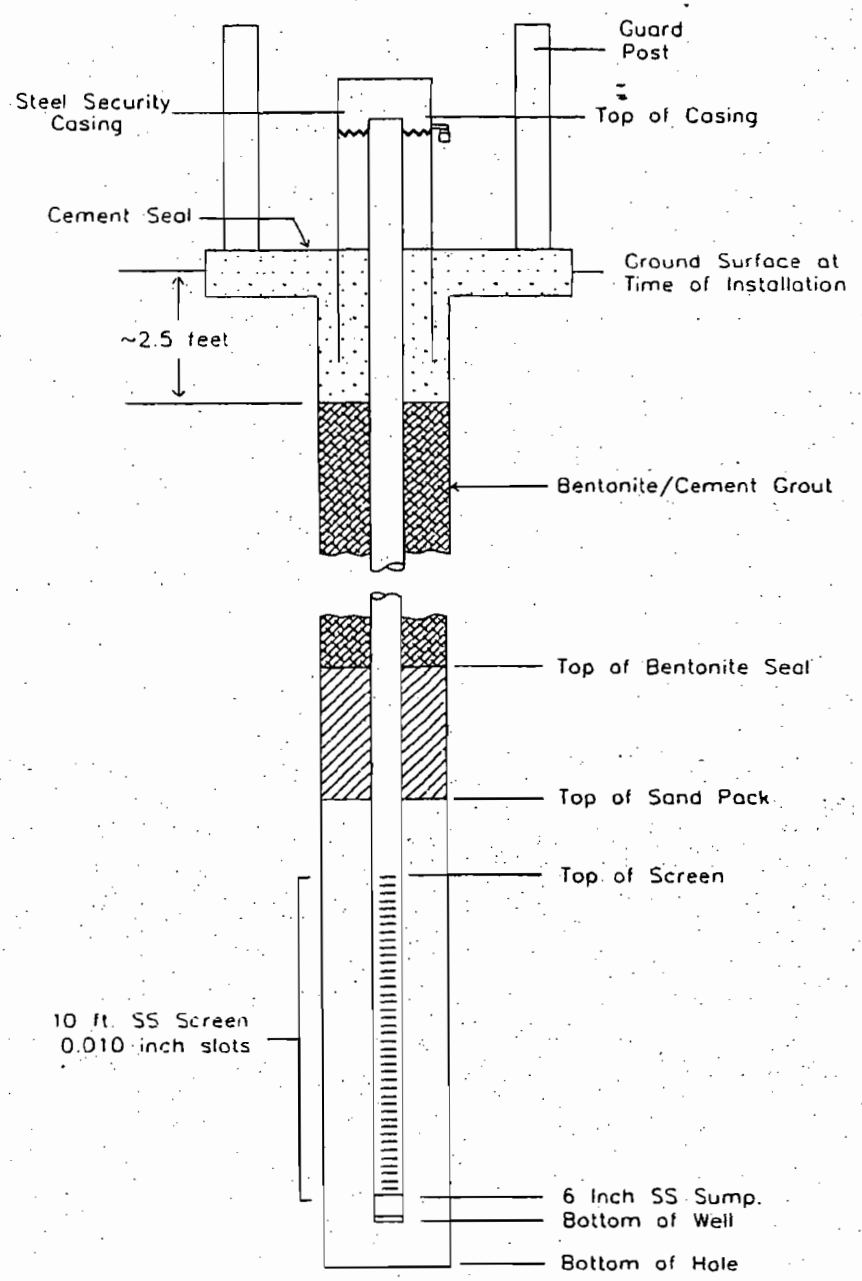
WATER LEVELS 35' 11'
INITIAL
COMPLETION
24 HR

TYPE AND SIZE SAMPLER:
A. SPLIT SPOON: 2" ✓ 3"
B. SHELBY TUBE ( )
C. NX CORE

MACHINE CME 75
HAMMER: 140 LB ✓ 300 LB

GROUNDWATER MONITORING WELL

Well Diameter	4 inch	Well Number	0424
Borehole Diameter	10 inch	Completion Date	3/13/97
Casing Material	304 Stainless Steel	Completed By	Terran / Bowser Morner
Screen Material	304 Wirewrap Stainless Steel	Drilling Method	Hollow Stem Auger
Project	EGG297	Location	EG&G Mound



	Vertical	Elevation
Top of Casing	+2.26'	704.49
Ground Surface at Time of Installation	0'	702.23
Top of Bentonite Seal	16.0'	686.23
Top of Sand Pack	18.0'	684.23
Top of Screen	22.77'	679.46
6 Inch SS Sump. / Bottom of Well	33.27'	668.96
Bottom of Hole	45.0'	657.23

E99

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. 0424
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		SHEET 1 OF 3
	SAMPLING METHOD: N/A		

					DRILLING START DATE	DRILLING FINISH DATE
WATER LEVEL						
TIME					3/13/97	3/13/97
DATE					TIME	TIME
CASING DEPTH					0800	1115

DATUM ELEVATION

DRILLING CONTRACTOR BOWSER MORNER

SURFACE CONDITIONS: TOP SOIL

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
0805	24/12			4,5, 6,7		1	OL-OH	5 YR 3/1, 2.25 Kg/cm2, ORGANIC CLAY OR SILT (OL-OH), MED. TO HIGH PLASTICITY, DRY, STIFF, TRACE SUBROUNDED PEBBLES, NO ODOR, SUBROUNDED PEBBLES @ TOP 6 INCHES OF SAMPLE, DARK REDDISH BROWN.
0807	24/12			5,5, 6,6		2, 3, 4	OL-OH	AS ABOVE, ORGANIC CLAY OR SILT (OL-OH).
0811	24/6			5,5, 7,7		5	CL-SM	2.5 YR 4/2 SOFT MOIST, SILTY-SANDY CLAY (CL-SM), 1.0 Kg/cm2, MED. PLASTICITY, TRACE SUBROUNDED PEBBLES, NO ODOR.
0815	24/20			11,18, 19,26		6, 7, 8	OL-OH / GP-SP	2.5 YR 4/2, 0.75 Kg/cm2, MOIST ORGANIC CLAY OR SILT, (OL-OH) @ TOP SIX INCHES, SOFT TRACE SUBROUNDED PEBBLES, LOWER 14 INCHES IS POORLY GRADED GRAVEL & SAND (GP-SP), MIXED WITH (OL-OH), AS ABOVE.
0837	24/15			12,21, 21,26		9	GP-SP	2.5 Y 4/4 MATRIX SUPPORTED, POORLY GRADED SAND AND GRAVEL (GP-SP), SUBANGULAR TO SUBROUNDED PEBBLES, 70% SAND TO 30% PEBBLES, TILL.
0842	24/12			12,15, 20,29		10, 11, 12	GP-SP	AS ABOVE.
0847	24/18			11,12, 7,10		13	CH	2.5 Y 3/2, 2.0 Kg/cm2, MED TO HIGH PLASTICITY, TRACE SUBROUNDED PEBBLES, FAT CLAY (CH), MOIST, NO ODOR, STIFF, DARK BROWN, 2 INCHES OF SLUFF @ TOP.
0856	24/10			4,9, 12,16		14, 15, 16	CH	AS ABOVE.
0900	24/20			6,10, 11,13		17	CH	AS ABOVE, SOME SUBANGULAR PEBBLES, MOIST, 4.25 Kg/cm2.
0905	24/24			6,10, 11,12	▽	18, 19	CH	AS ABOVE, 1.75 Kg/cm2, MOIST TO WET, TOP 2 INCHES OF SAMPLE, SANDY, CLAY AND SUBROUNDED PEBBLES, 70% SAND & 30% CLAY/PEBBLES.

CHECKED BY RWM

3/13/97

E100

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. 0424
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		
	SAMPLING METHOD: N/A		SHEET 2 OF 3

					DRILLING START DATE	DRILLING FINISH DATE
WATER LEVEL						
TIME					3/13/97	3/13/97
DATE					TIME	TIME
CASING DEPTH					0800	1115

DATUM ELEVATION

SURFACE CONDITIONS: TOP SOIL

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
0913	24/20			11,12, 20,25		21	SM-SC	5 Y 4/2 SANDY-SILTY CLAY, 2.5 Kg/cm2, GROUP (SM-SC), MED. TO HIGH PLASTICITY, MED STIFF, WET, DARK GRAY-BROWN, NO ODOR, TRACE SUBANGULAR PEBBLES.
0925	24/18			16,17, 19,20		22, 23	GP-SP	POORLY GRADED S&G (GP-SP), SATURATED, 2.5Y 5/4, AND SUBANGULAR L.S. FRAGMENTS THROUGHOUT THE TOP 15 INCHES. LOWER 3 INCHES IS SANDY CLAY, MED. STIFF, MED. PLASTICITY, 80% SAND.
0931	24/24			10,13, 20,27		24, 25	SW CL	WELL SORTED SAND & SOME SUBROUNDED GRAVEL @ TOP (SW) 18 INCHES OF SAMPLE, SATURATED, SOFT, LOWER 6 INCHES IS STIFF, MED. PLASTICITY, LEAN CLAY (CL), 5Y 4/1, >4.5 Kg/cm2.
0940	24/24			14,26, 29,35		26, 27		TOP 8 INCHES IS SANDY CLAY, MED. STIFF, LOW TO MED. PLASTICITY, WET, 2.5 Y 4/4, LOWER 16 INCHES IS STIFF, MED. PLASTICITY, LEAN CLAY (CL), 5 Y 4/1, >4.5 kg/cm2, NO ODOR
0945	24/18			20,22, 23,25		28, 29	GP-SP	POORLY SORTED S&G & L.S. CHIPS, GROUP (GP-SP), SATURATED, NO ODOR, 50% SAND & 50% GRAVEL.
0953	24/18			17,18, 16,14		30, 31	GP-SP	AS ABOVE.
1010	24/12			21,24, 26,27		32, 33	GP-SP	AS ABOVE, SATURATED.
1027	24/24			35,29, 25,26		34, 35	GP-SP	AS ABOVE 70% GRAVEL TO 30% SAND.
1035	24/12			23,26, 28,50		36, 37	CL-SC	50 BLOWS OVER 4 INCHES, AS ABOVE, BUT TOP 6 INCHES IS SILTY SANDY CLAY (CL-SC), 2.5Y 3/3, SATURATED, STIFF, NO ODOR, >4.5 Kg/cm2.
1040	24/24			27,31, 50		38, 39	GP-SP CL-SC	50 BLOWS FOR 5 INCHES, SATURATED S&G (GP-SP), 70% GRAVEL TO 30% SAND, 2.5Y 5/4, TOP 6 INCHES IS SILTY SANDY CLAY (CL-SC), 2.5 Y 3/3, STIFF, SATURATED, >4.5 Kg/cm2.

CHECKED BY RYM DATE 3/13/97

E101

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. 0424
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		SHEET 3 OF 3
	SAMPLING METHOD: N/A		

					DRILLING START	DRILLING FINISH
WATER LEVEL					DATE	DATE
TIME					3/13/97	3/13/97
DATE					TIME	TIME
CASING DEPTH					0800	1115

DATUM ELEVATION

SURFACE CONDITIONS: TOP SOIL

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS	
1053	24 / 20			24,26, 27,28			GP-SP	AS ABOVE, S&G SATURATED (GP-SP). 70% GRAVEL TO 30% SAND.
						41		
						42		
1106	24 / 12			29,32, 34,35				WEATHERED L.S. FRAGMENTS, 3 INCHES OF SILTY-SANDY CLAY @ TOP OF SAMPLE, SATURATED.
						43		
						44		
						45		
						46		
						47		
						48		
						49		
						50		
						51		
						52		
						53		
						54		
						55		
						56		
						57		
						58		
						59		

DRILLING CONTRACTOR BOWSER MORNER

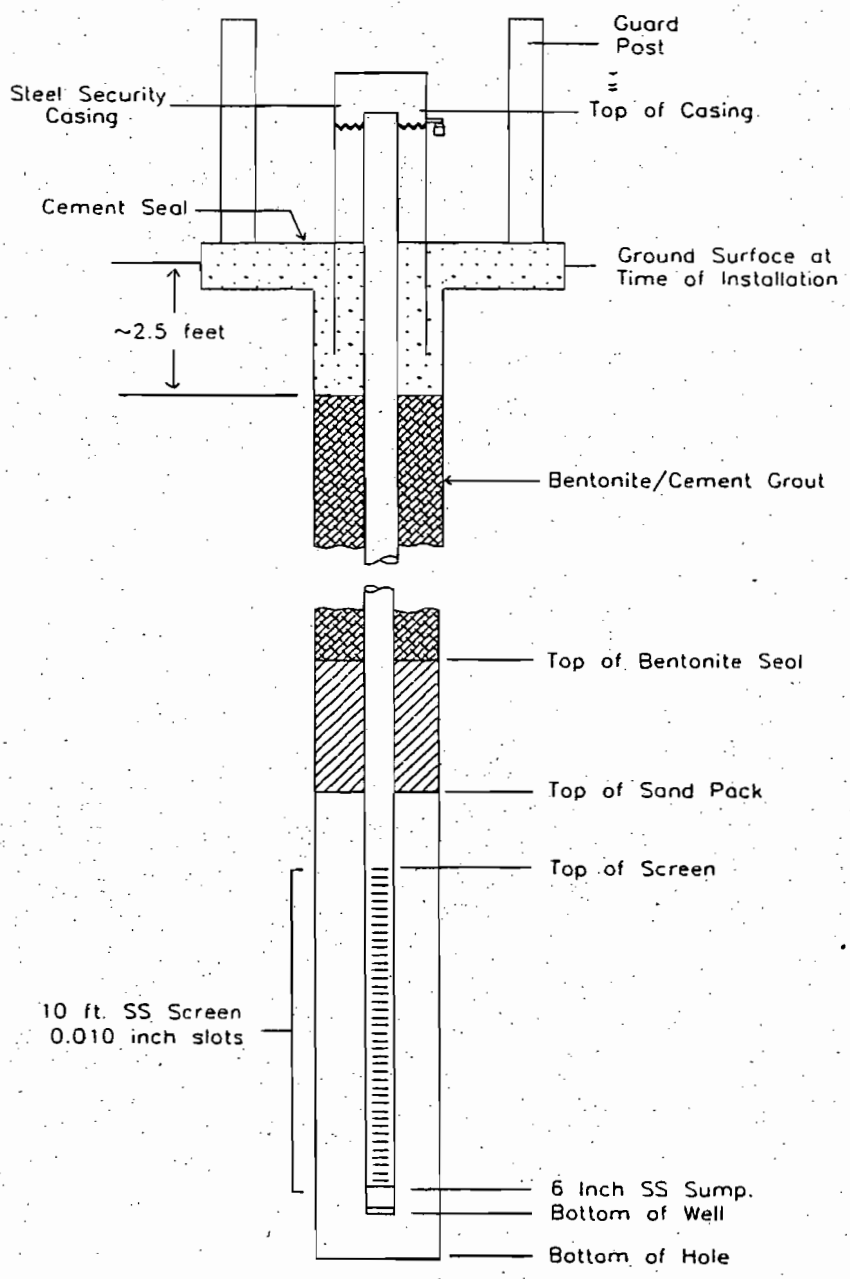
MIKE BRADY - TERRAN CORPORATION

DATE 3/13/97 CHECKED BY RWM

E102

GROUNDWATER MONITORING WELL

Well Diameter	4 inch	Well Number	0425
Borehole Diameter	10 inch	Completion Date	3/17/97
Casing Material	304 Stainless Steel	Completed By	Terran / Bowser Morner
Screen Material	304 Wirewrap Stainless Steel	Drilling Method	Hollow Stem Auger
Project	EGG297	Location	EG&G Mound



	Vertical	Elevation
Top of Casing	+2.2'	704.58
Ground Surface at Time of Installation	0'	702.38
Top of Bentonite Seal	27.0'	675.38
Top of Sand Pack	30.0'	672.38
Top of Screen	34.61'	667.77
Bottom of Well	45.11'	657.27
Bottom of Hole	45.5'	656.88

E103

LOCATION OF BORING	JOB NO. EGG297	CLIENT EG&G MOUND APPLIED TECHNOLOGIES	LOCATION MIAMISBURG, OHIO
	DRILLING METHOD: HOLLOW STEM AUGERS		BORING NO. 0425
	CONTINUOUS 2' SPLIT-SPOON SAMPLING		SHEET 1 OF 1
	SAMPLING METHOD: N/A		DRILLING

					START	FINISH
WATER LEVEL					DATE	DATE
TIME					3/17/97	3/17/97
DATE					TIME	TIME
CASING DEPTH					0810	1445

DATUM ELEVATION

SURFACE CONDITIONS: GRASS

SAMPLER TYPE	INCHES DRIVEN / INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. / SAMPLE DEPTH	BLOWS/FT SAMPLER	WELL CONST.	DEPTH IN FEET	SOIL CLASS
						1	
						2	
						3	
						4	
						5	
						6	
						7	
						8	
						9	
						10	
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	

BORING 0425 WAS NOT LOGGED

DRILLING CONTRACTOR BOWSER MORNER

Y MIKE BRADY - TERRAN CORPORATION

ATE 3/17/97 CHECKED BY RWM

E104

Attachment F

PRS 414 Further Assessment Data Report, March 2004, Rev. 1

PRS 414

FURTHER ASSESSMENT DATA REPORT

March 2004

Rev. 1

MIAMISBURG
CLOSURE PROJECT

CH2MHILL

F1

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CH2M HILL
Mound, Inc.
1 Mound Road
P.O. Box 3030
Miamisburg, OH
45343-3030

ER-014/04
March 9, 2004

Ms. Margaret L. Marks, Acting Director
Miamisburg Closure Project
U. S. Department of Energy
500 Capstone Circle
Miamisburg, OH 45342

SUBJECT: Contract No. DE-AC24-03OH20152
Contract Deliverable 039 – PRS Documents
PRS 414 FURTHER ASSESSMENT DATA REPORT, REV. 1

Dear Ms. Marks:

Attached please find revisions to the PRS 414 Further Assessment Data Report, Rev 0. The revisions were agreed to based on a teleconference held March 4 with USEPA, OEPA, DOE and CH2M HILL. These revisions can simply be used in place of the original pages in Rev 0. The attachments are as follows:

1) New cover sheet indicating Revision 1

2) New Appendix B which includes all applicable OU-1 rebound test data

3) New page 4 with last sentence of section 3.1 edited to reflect that only those wells with TCE and PCE detection's are included as time series charts.

If you have any questions or concerns please call me at 937-865- 4543

Sincerely,

Monte A. Williams
Deputy Project Manager, Environmental Restoration

MAW/MDG/jdg

Enclosure

cc: David Seely, USEPA, (1) w/attachments
Mary C. Wojciechowski, Tetra Tech EM, Inc., (1) w/attachments
Brian Nickel, OEPA, (4) w/attachments
Ruth Vandegrift, ODH, (1) w/attachments
Paul Lucas, DOE/MCP, (1) w/attachments
Danny Punch, DOE/MCP, (1) w/attachments
Lisa Rawls, DOE/MCP, w/o attachments
Monte Williams, CH2M HILL, (1) w/attachments
John Fulton, CH2M HILL, w/o attachments
Gene Valett, CH2M HILL, w/o attachments
Dave Rakel, CH2M HILL, w/o attachments
DCC, (1) w/attachments

F3

2.2 SAMPLE SUMMARY

Samples were collected and analyzed in accordance with procedures outlined in the Methods Compendium (MD-80045, May 2000).

3.0 RESULTS

The following analytical providers were used in support of the SAP:

- RCRA Lionville for offsite volatile organic compound analysis.

3.1 VOC GROUNDWATER RESULTS

Offsite chemical analysis for VOCs was performed on all groundwater samples. Appendix A shows all VOC groundwater detections for the monitoring period of interest (Jan 1997 through May 2003). Trichloroethene (TCE) and Tetrachloroethene (PCE) are the only VOCs that currently occur above Federal Maximum Contaminant Levels (MCLs) within the groundwater associated with PRS 414. Appendix B shows time series groundwater concentration charts for TCE and PCE in those PRS 414 monitoring wells that have had detections of those compounds.

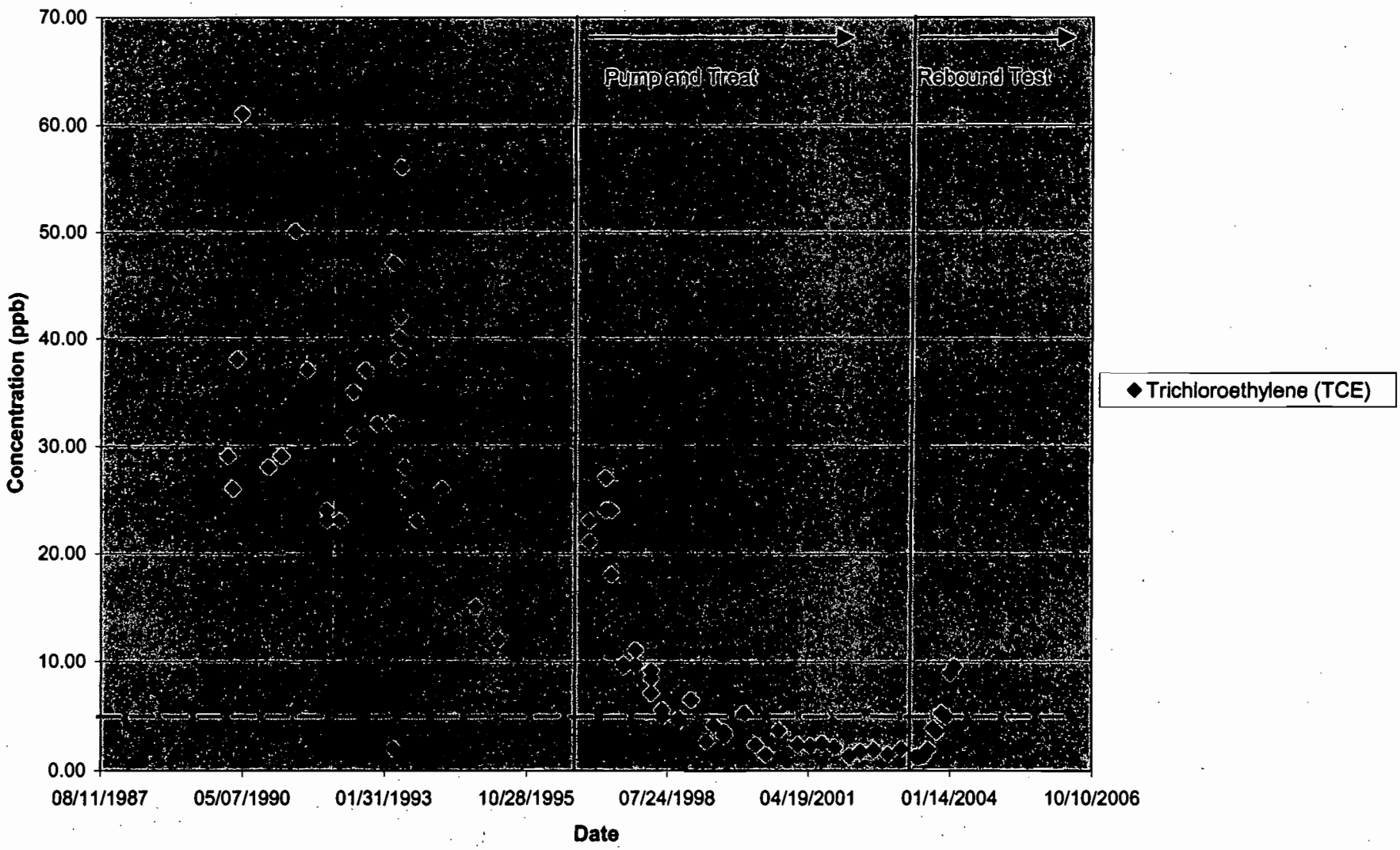
3.2 PRS 282 VOC SOIL RESULTS

VOC soil samples were collected as part of the PRS 282 Further Assessment. Based on the results it was determined that the soils posed no threat to the underlying groundwater system (see PRS 282 Data Report). The PRS was binned No Further Assessment (NFA) by the Core Team on December 11, 2002.

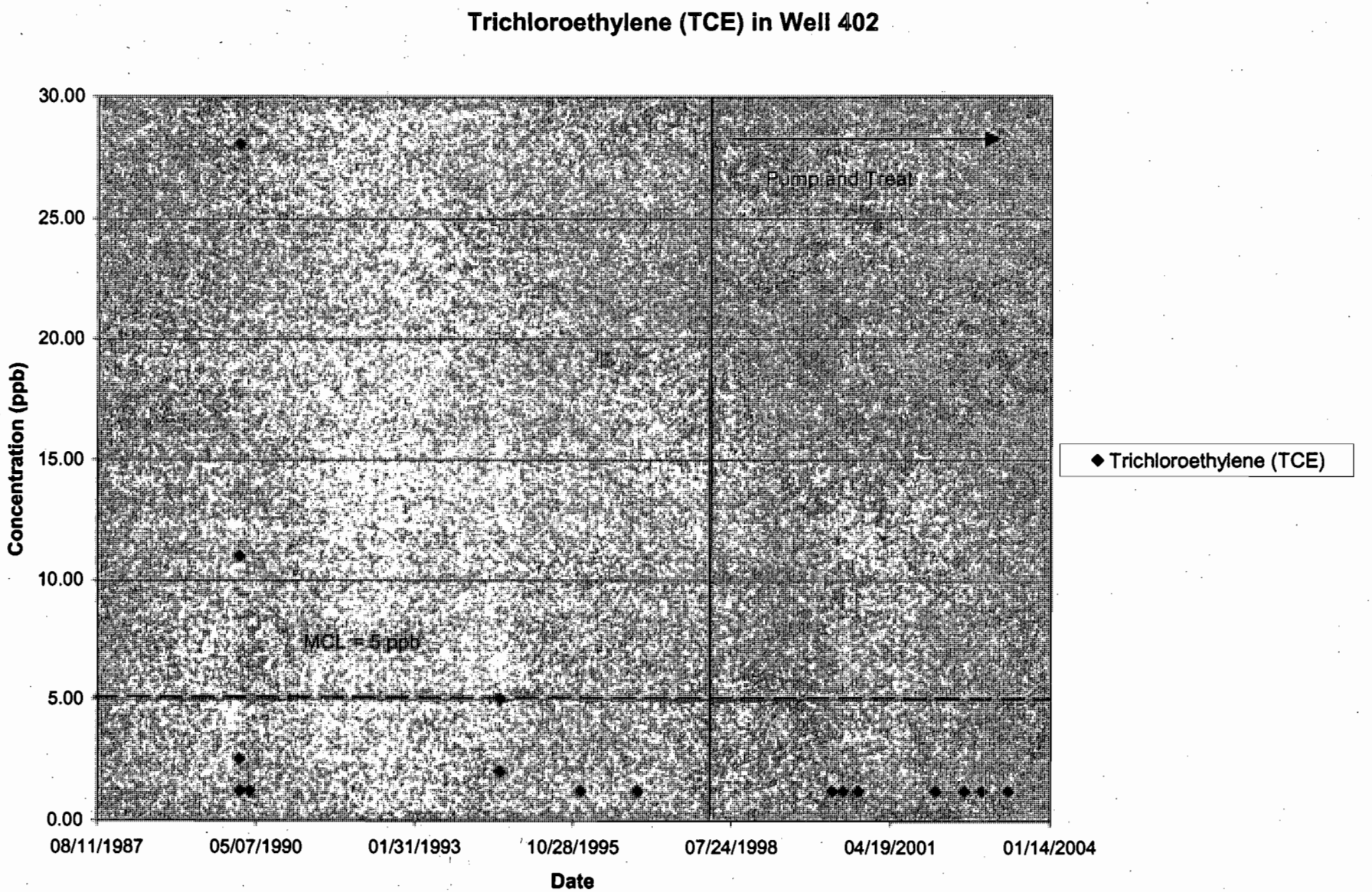
APPENDIX B

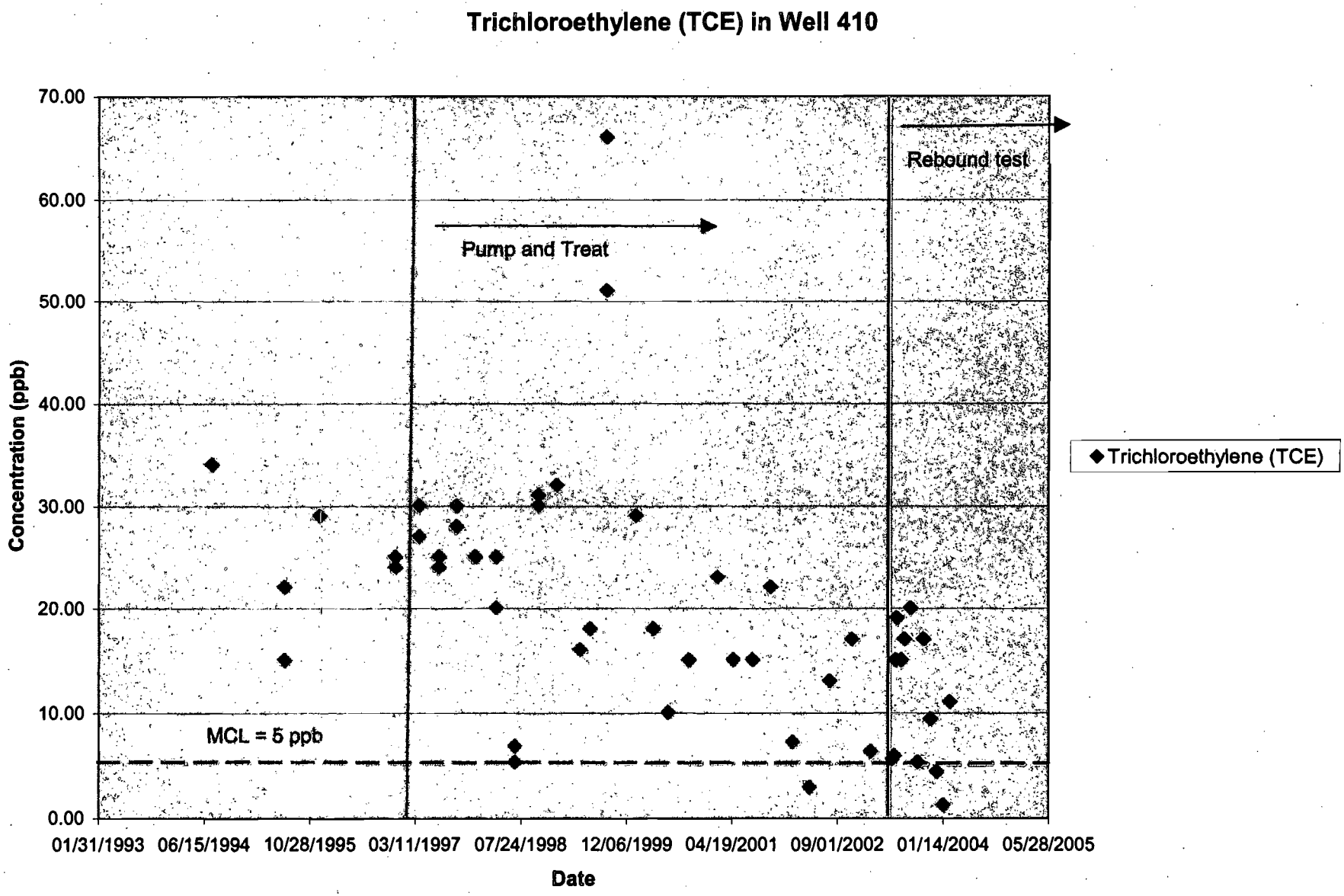
TIME SERIES CHARTS (INCLUDING OU-1 REBOUND TEST RESULTS)

Trichloroethylene (TCE) in Well 0305



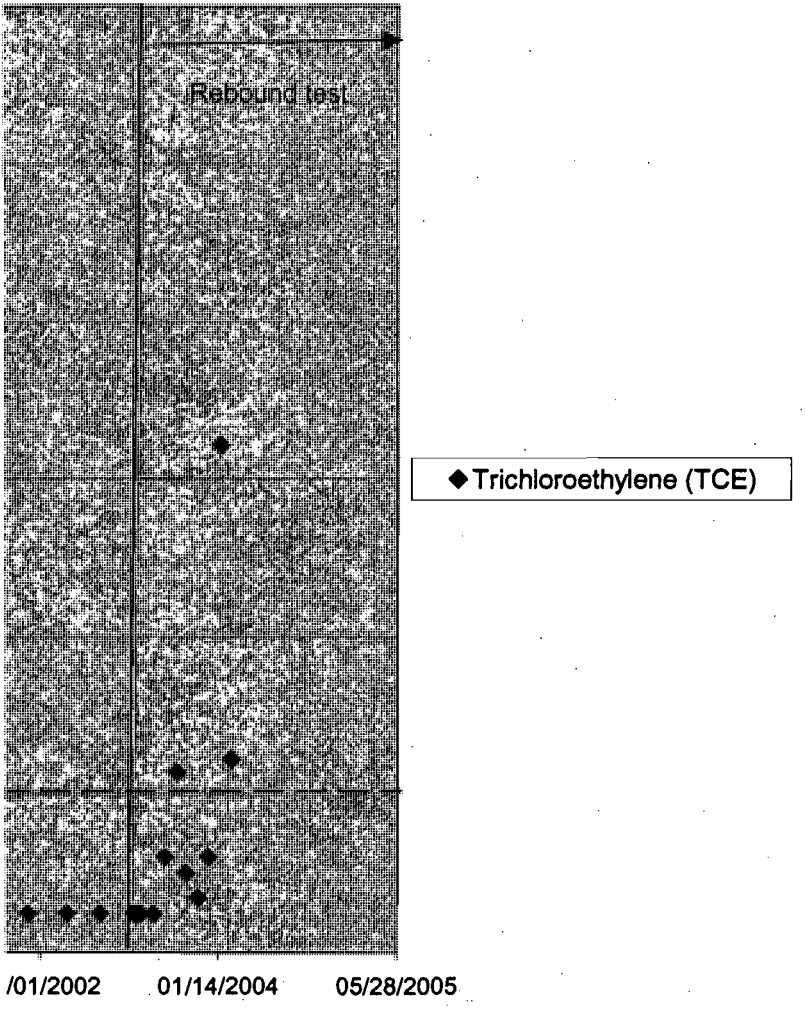
F6

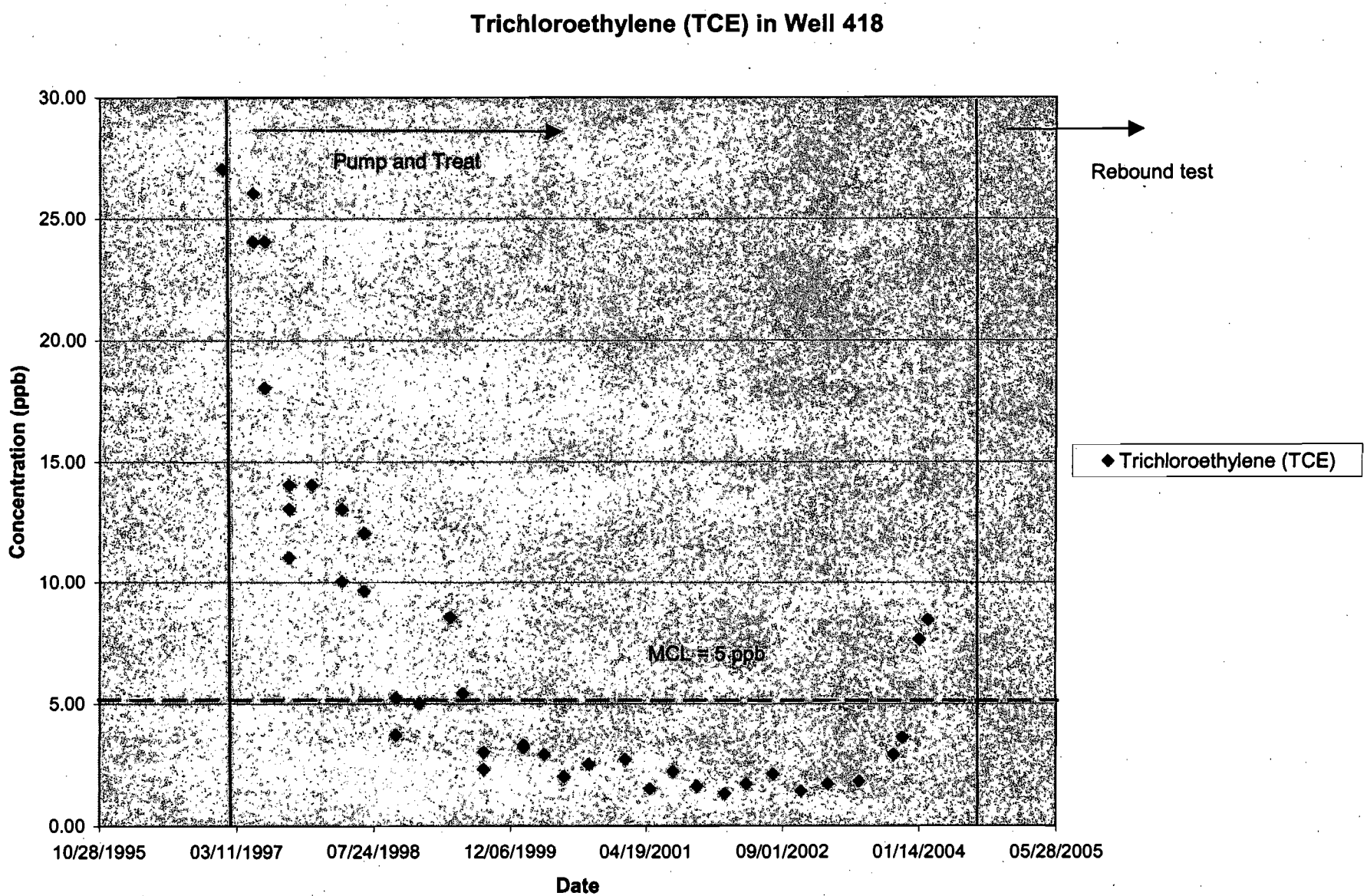

Trichloroethylene (TCE) in Well 402
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Concentration (ppb)
Pump and Treat
MCL = 5 ppb
Trichloroethylene (TCE)
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
Date


Trichloroethylene (TCE) in Well 410
70.00
60.00
50.00
40.00
30.00
20.00
10.00
0.00
Concentration (ppb)
Pump and Treat
Rebound test
MCL = 5 ppb
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

F8

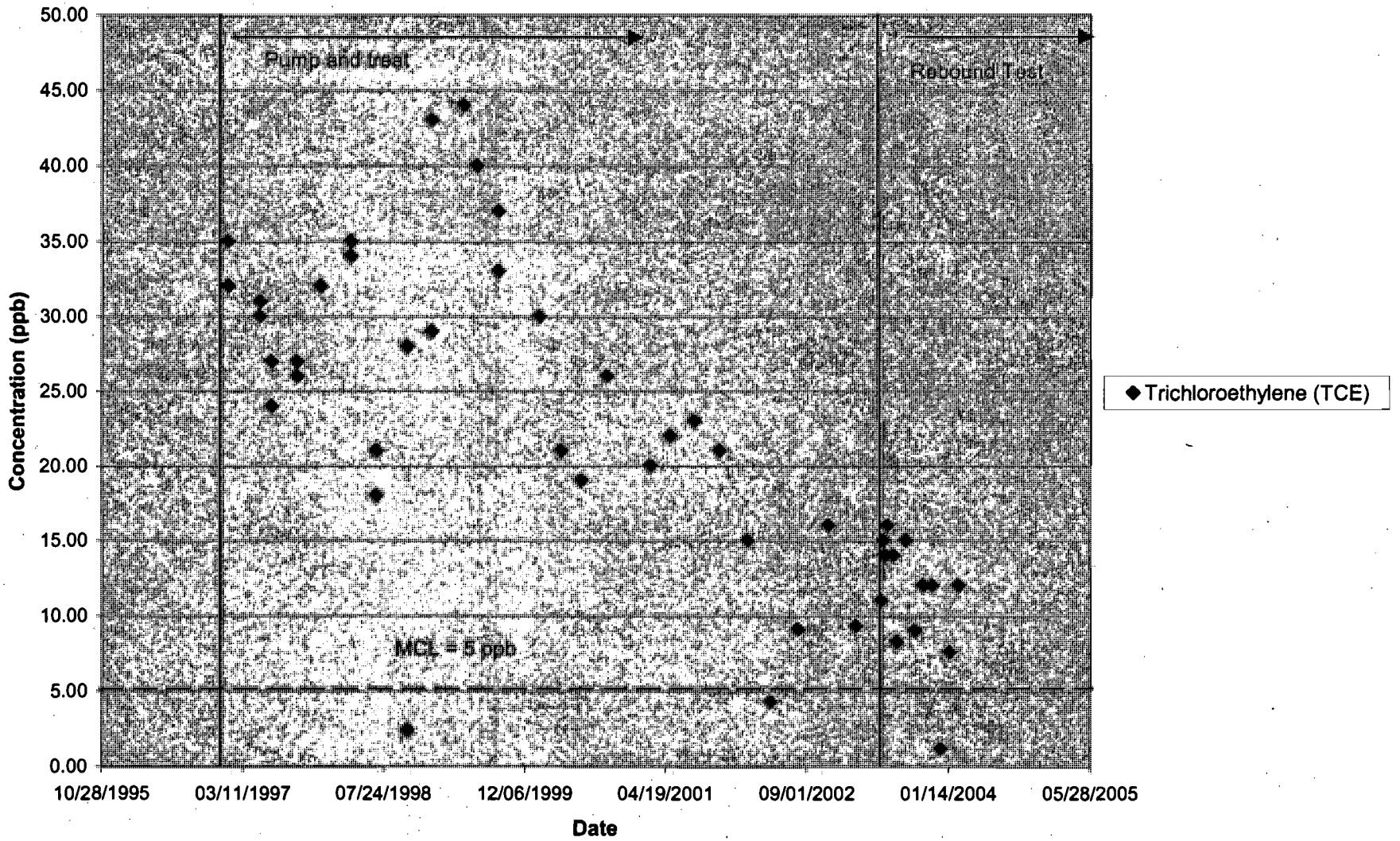
in Well 417


Rebound test
Trichloroethylene (TCE)
/01/2002
01/14/2004
05/28/2005


Trichloroethylene (TCE) in Well 418
Pump and Treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
30.00
25.00
20.00
15.00
10.00
5.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

Fig

Trichloroethylene (TCE) in Well 419



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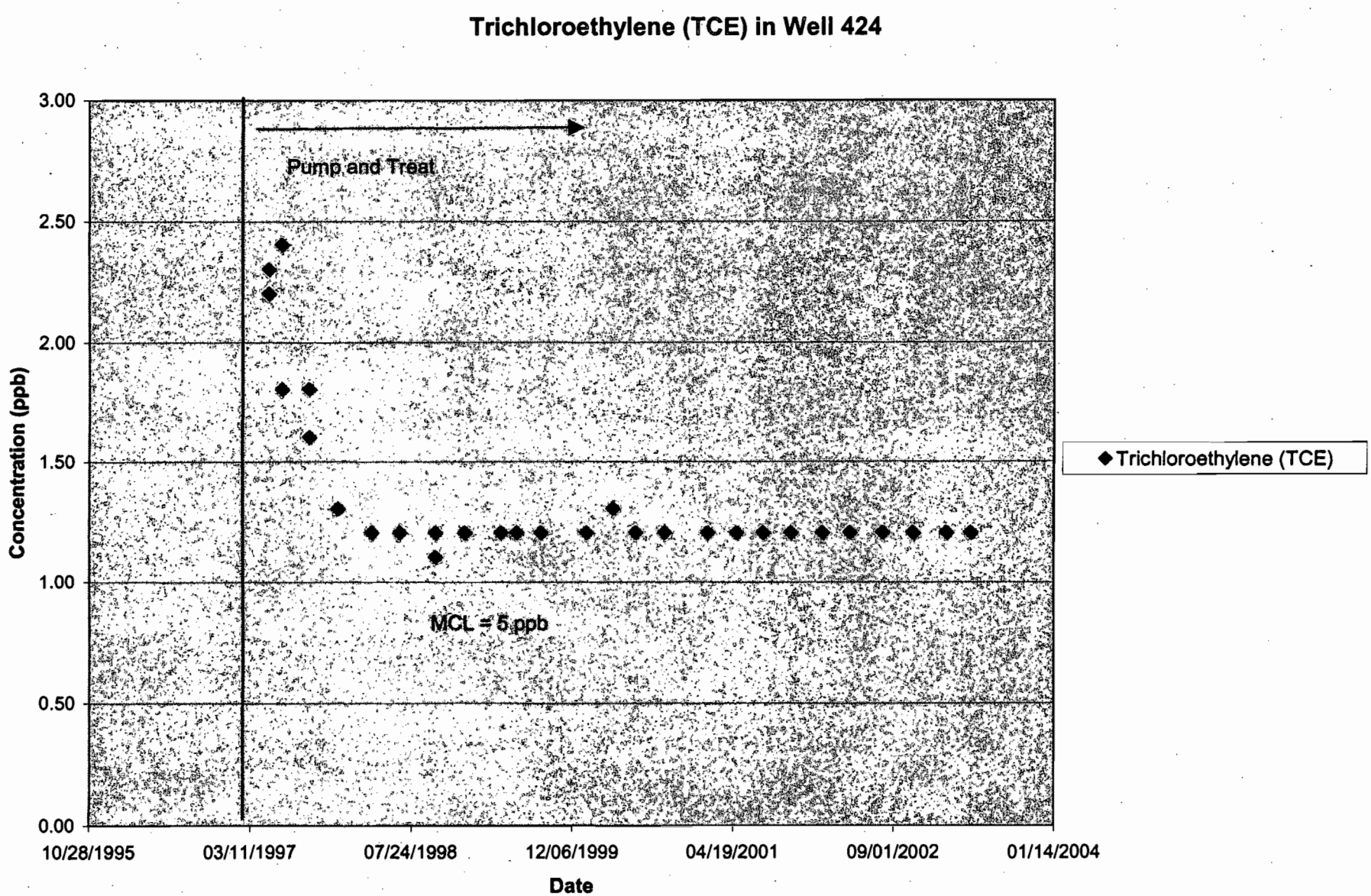
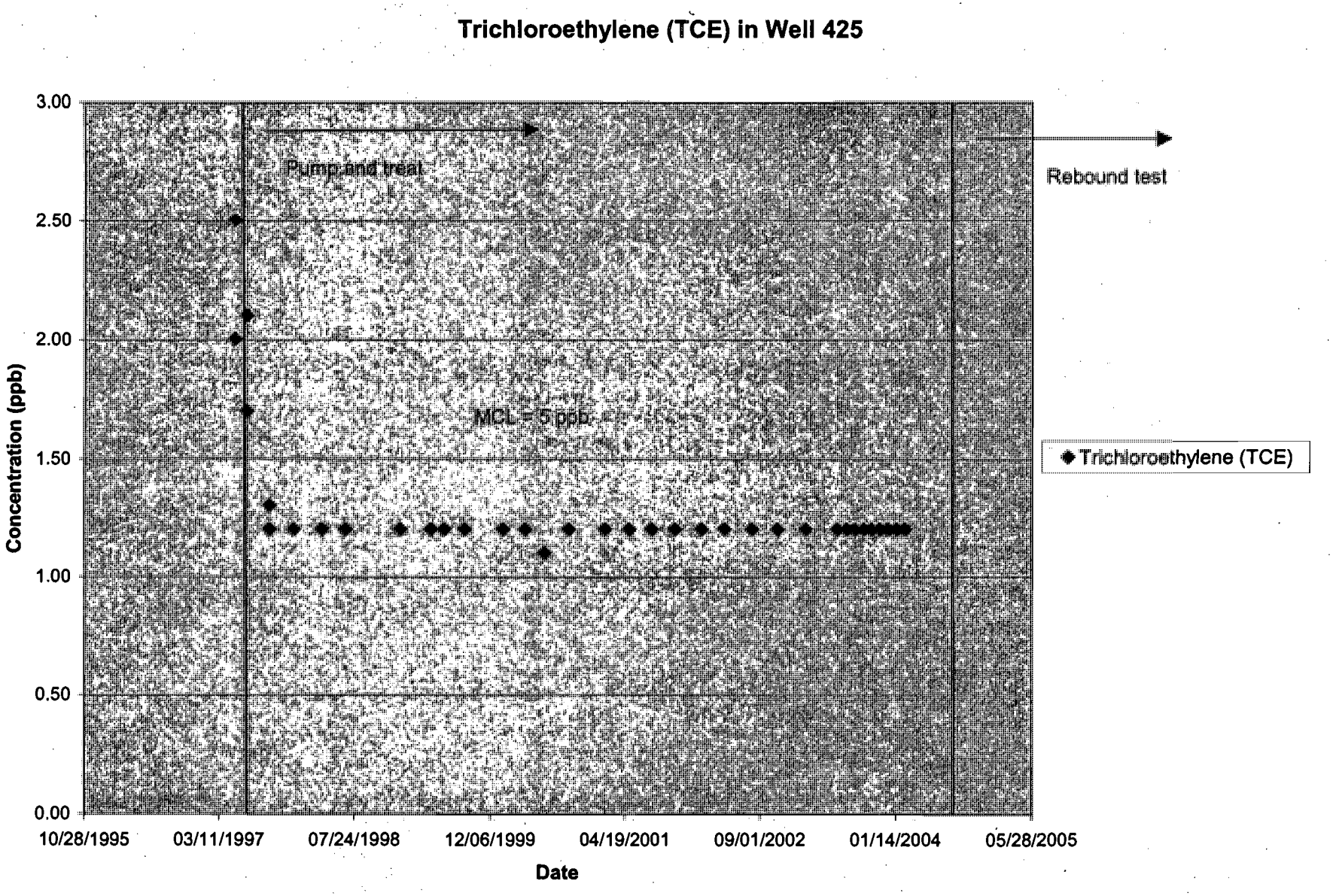
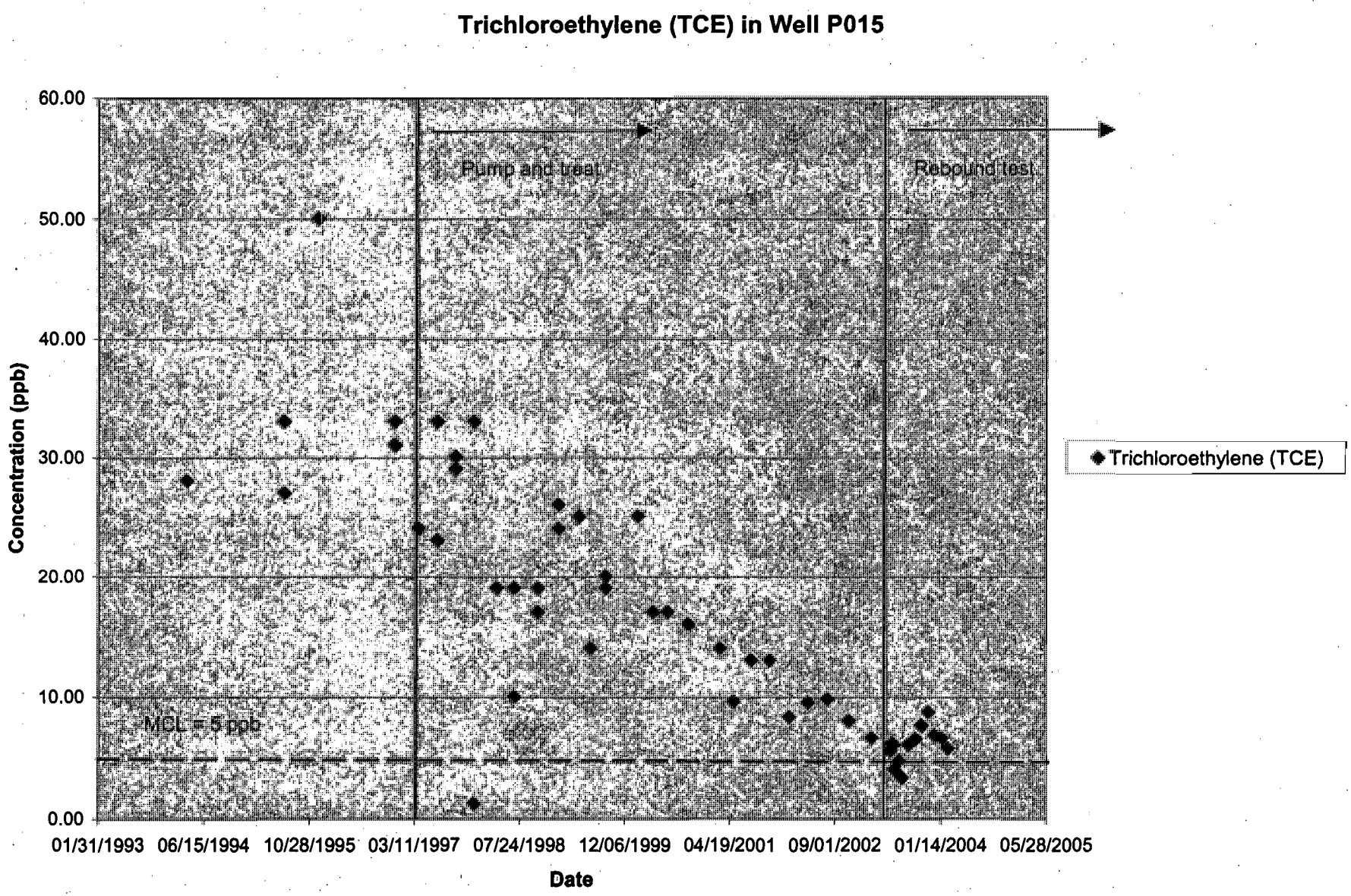

Trichloroethylene (TCE) in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

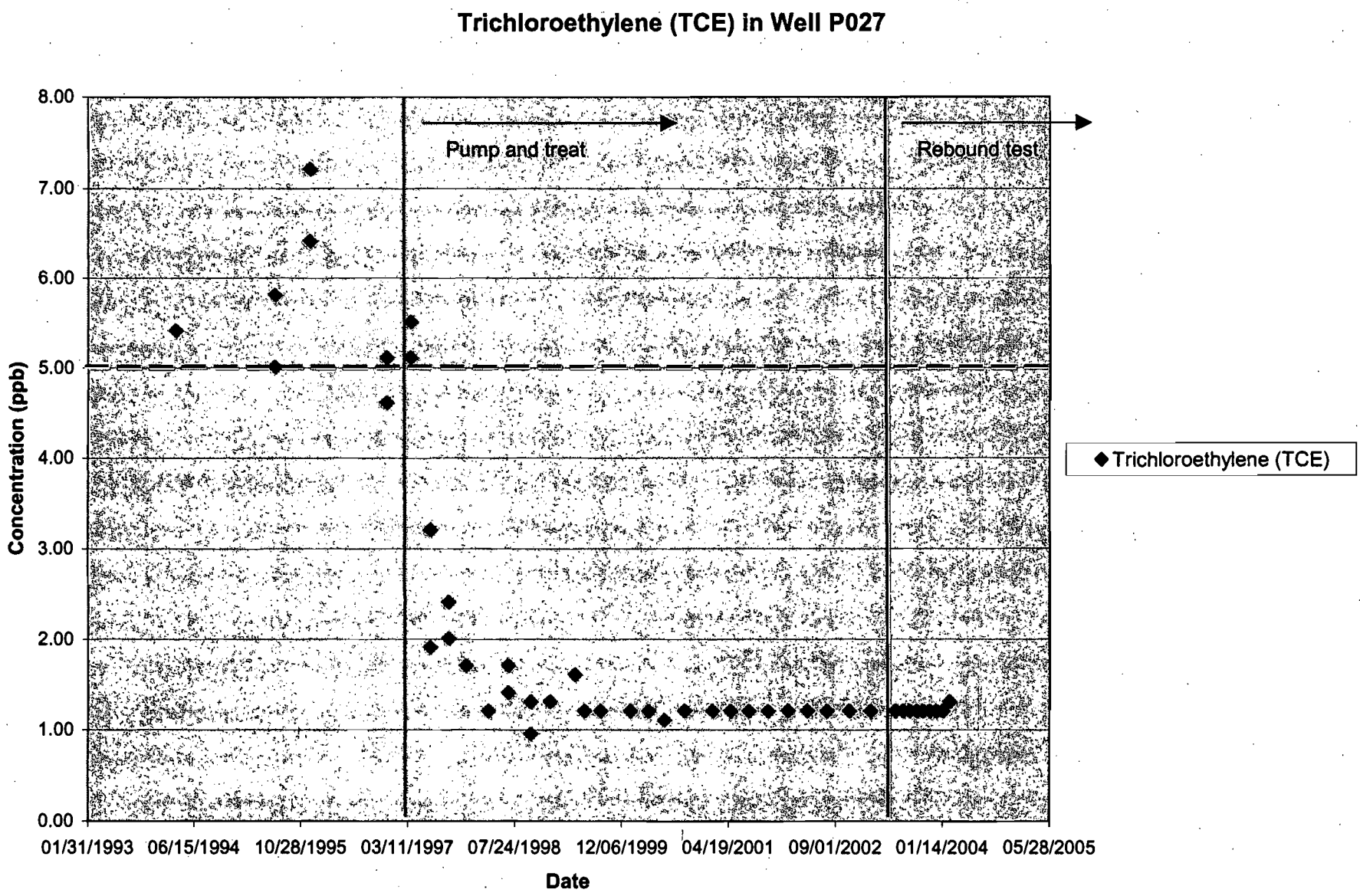
F12


Trichloroethylene (TCE) in Well 425
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

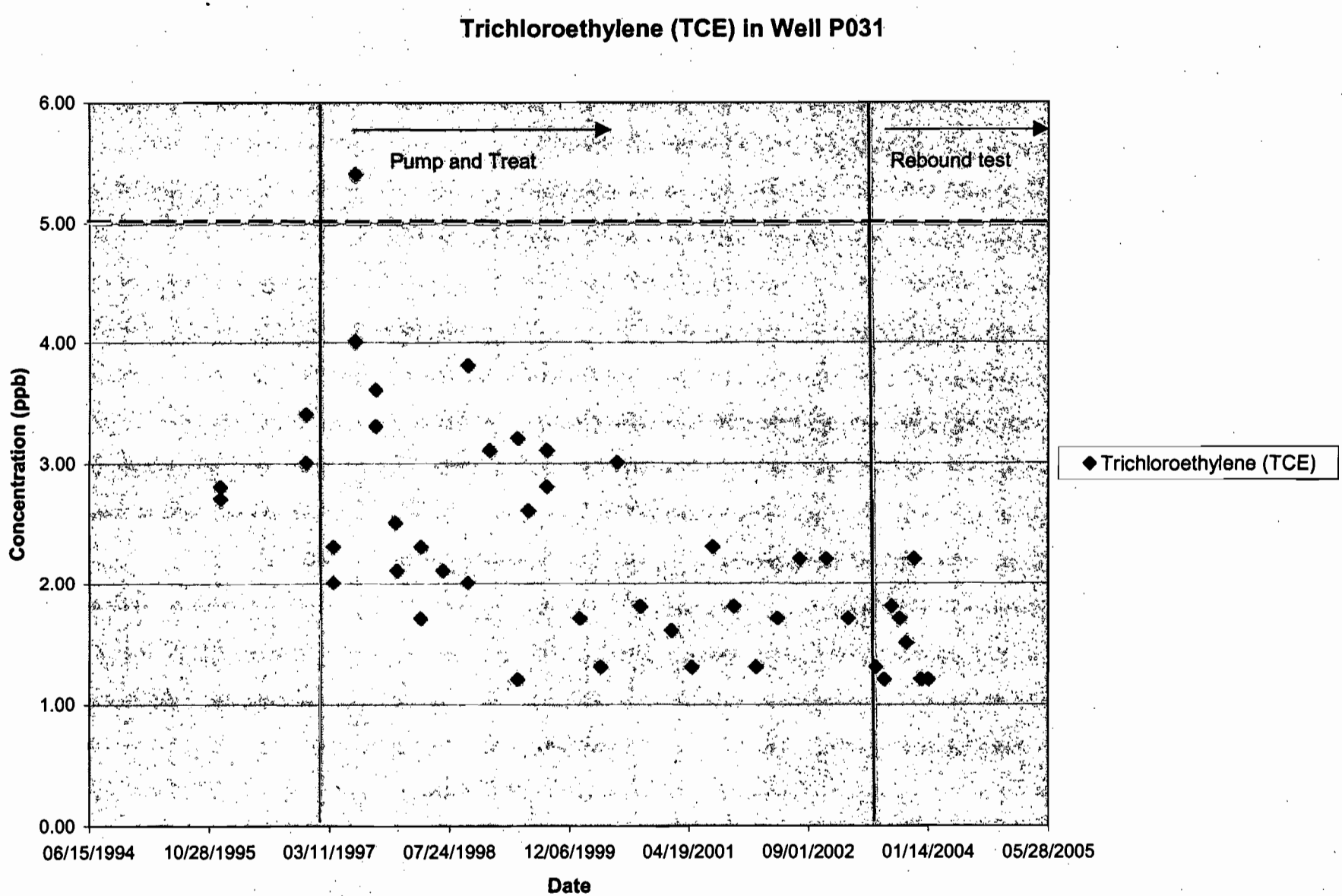
F13


Trichloroethylene (TCE) in Well P015
Pump and treat
Rebound test
MCL = 5 ppb
Trichloroethylene (TCE)
Concentration (ppb)
60.00
50.00
40.00
30.00
20.00
10.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

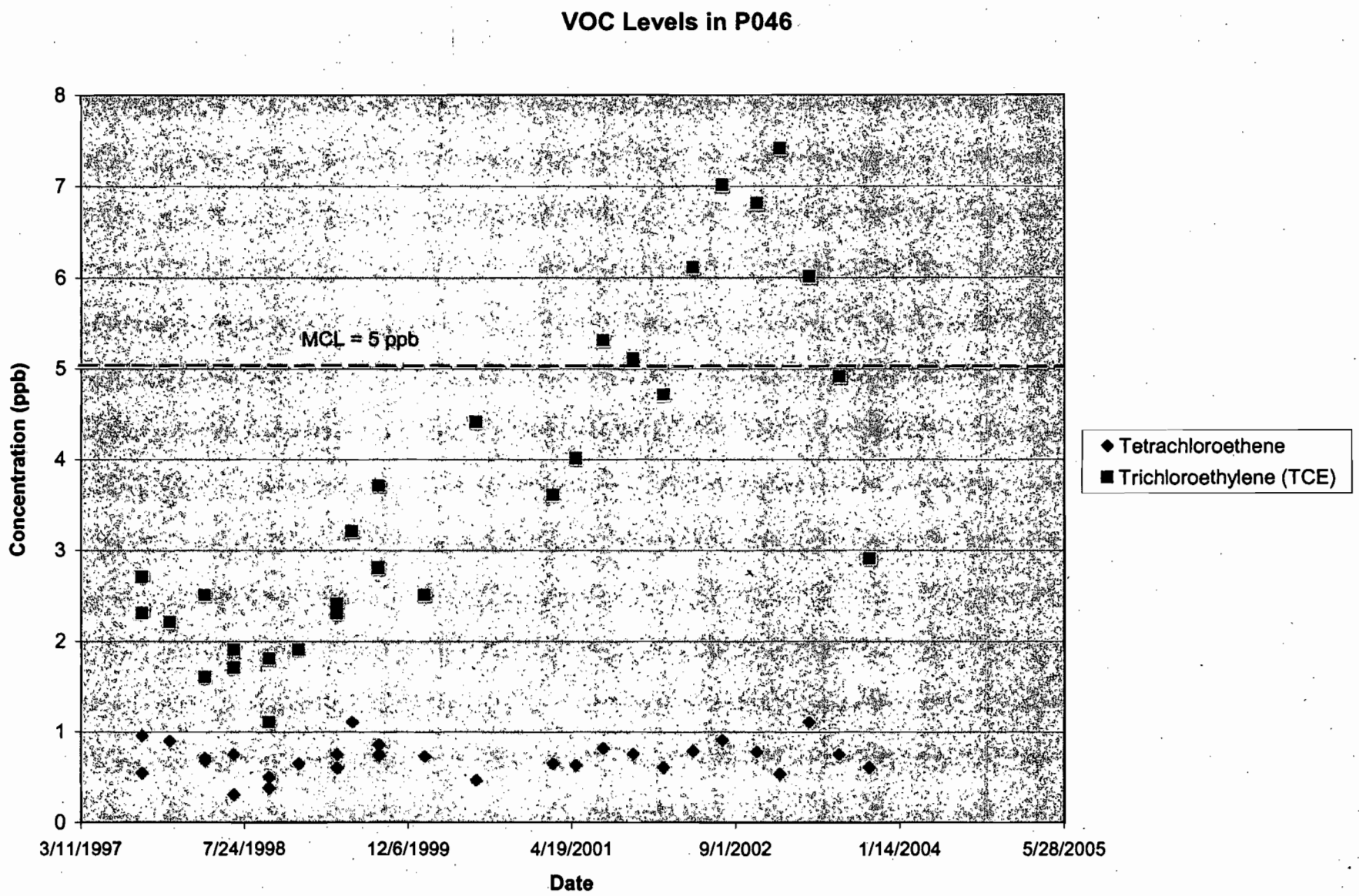
Fig


Trichloroethylene (TCE) in Well P027
Pump and treat
Rebound test
Concentration (ppb)
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

F15


Trichloroethylene (TCE) in Well P031
Pump and Treat
Rebound test
Concentration (ppb)
6.00
5.00
4.00
3.00
2.00
1.00
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Trichloroethylene (TCE)

F16


VOC Levels in P046
Concentration (ppb)
8
7
6
5
4
3
2
1
0
MCL = 5 ppb
3/11/1997
7/24/1998
12/6/1999
4/19/2001
9/1/2002
1/14/2004
5/28/2005
Date
Tetrachloroethene
Trichloroethylene (TCE)

F17

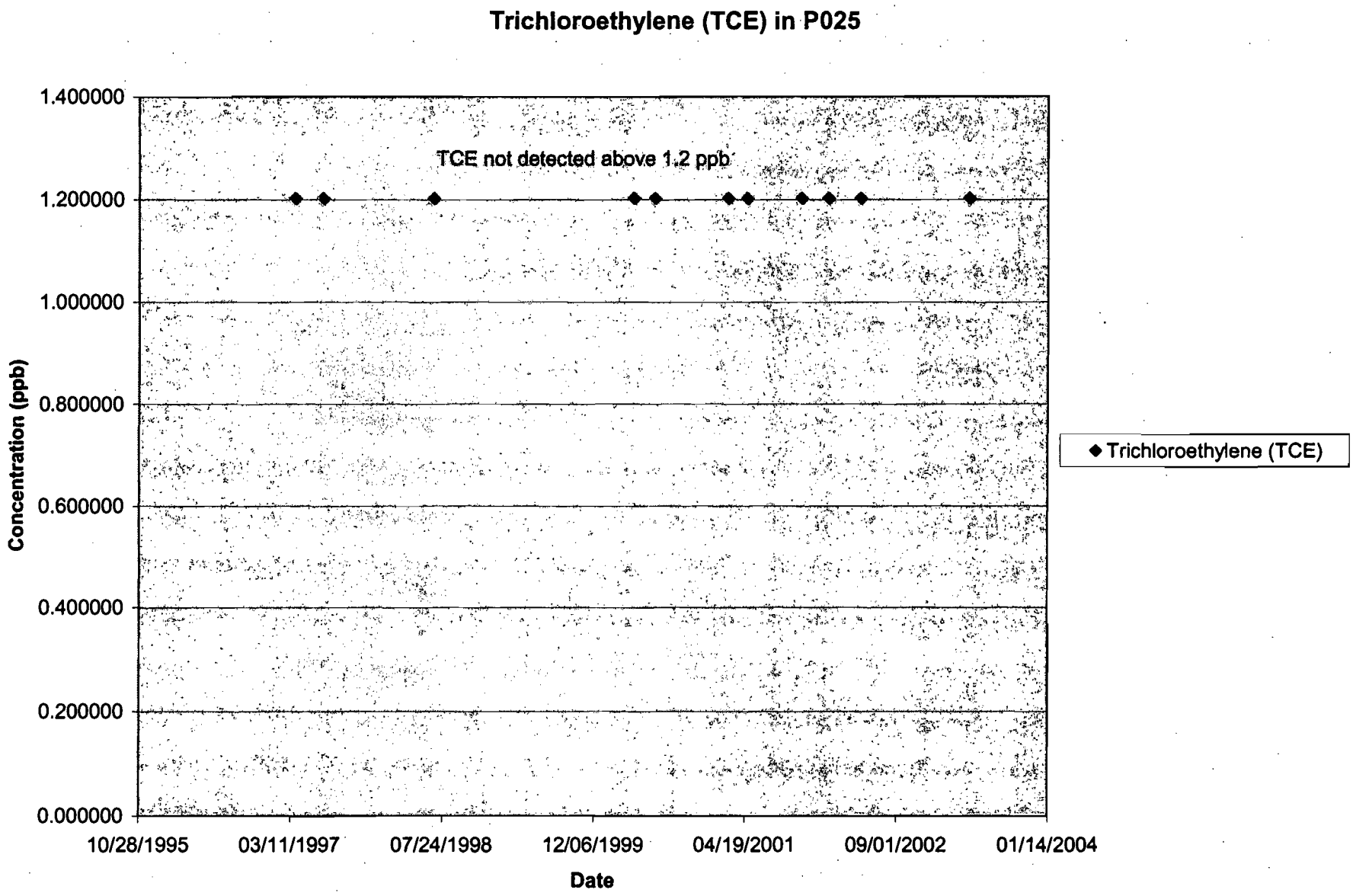
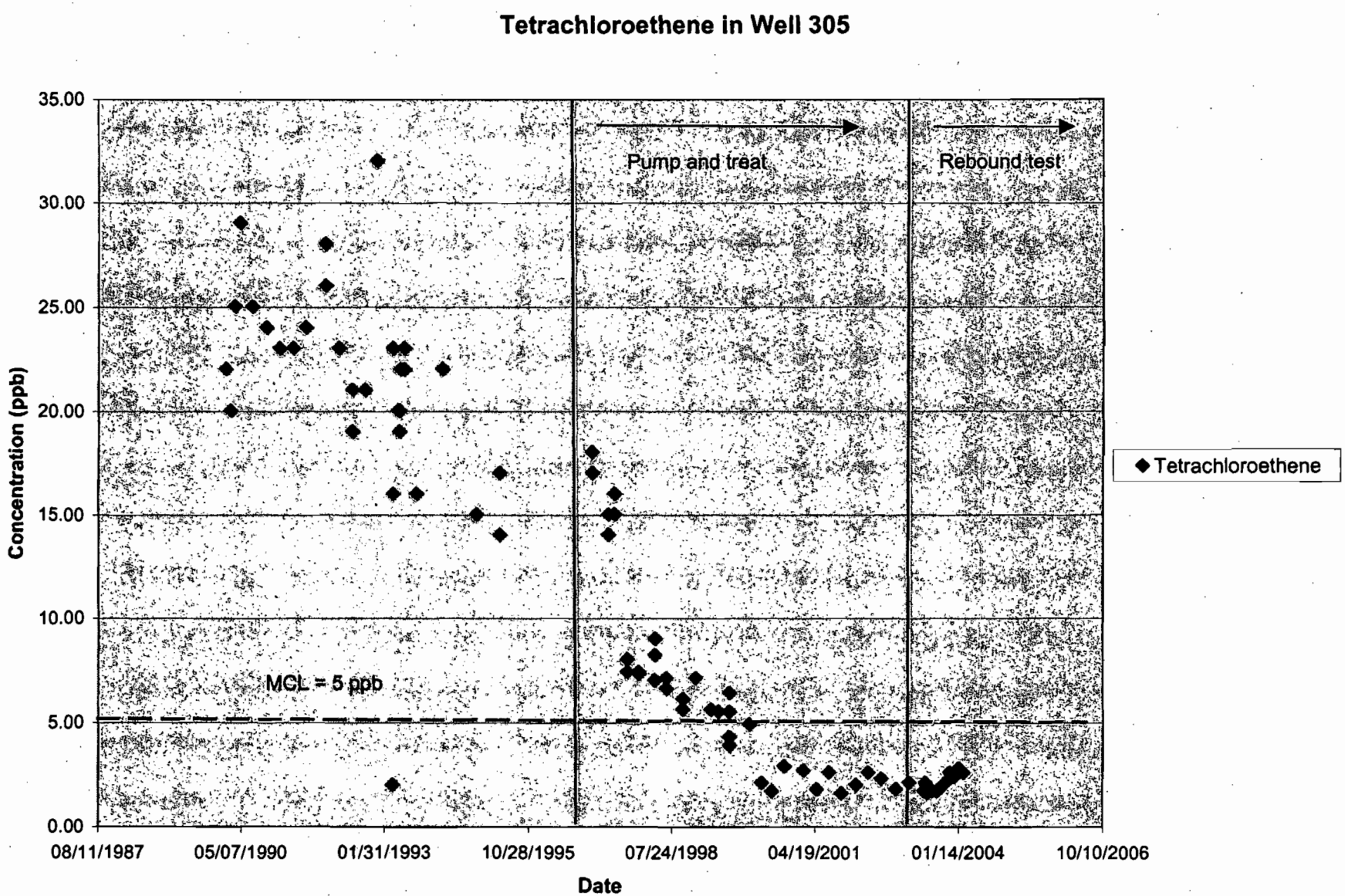

Trichloroethylene (TCE) in P025
TCE not detected above 1.2 ppb
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
Concentration (ppb)
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Trichloroethylene (TCE)

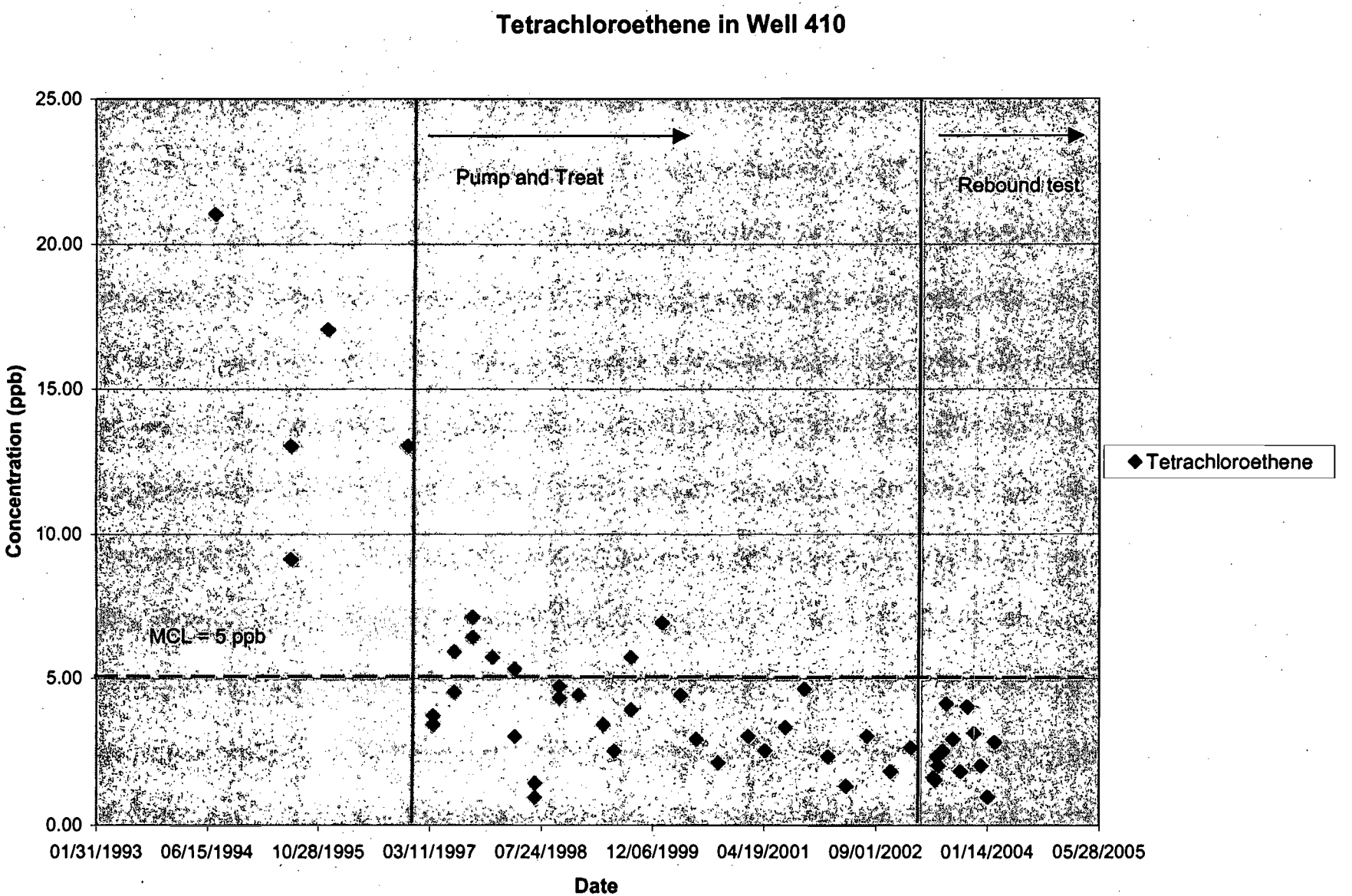
Fig 8


Tetrachloroethene in Well 305
Concentration (ppb)
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
08/11/1987
05/07/1990
01/31/1993
10/28/1995
07/24/1998
04/19/2001
01/14/2004
10/10/2006
Date
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene

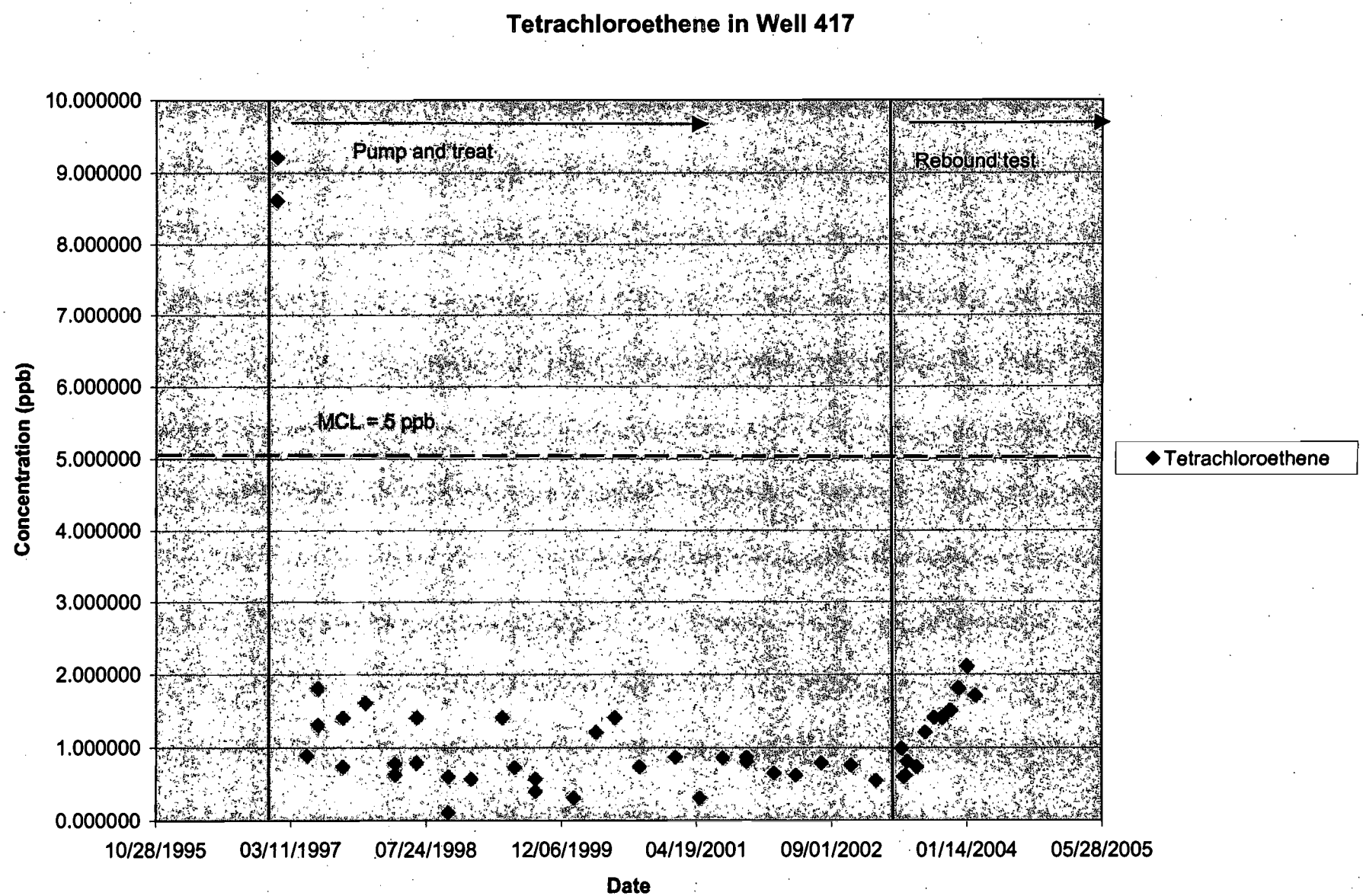
Fig

◆ Tetrachloroethene

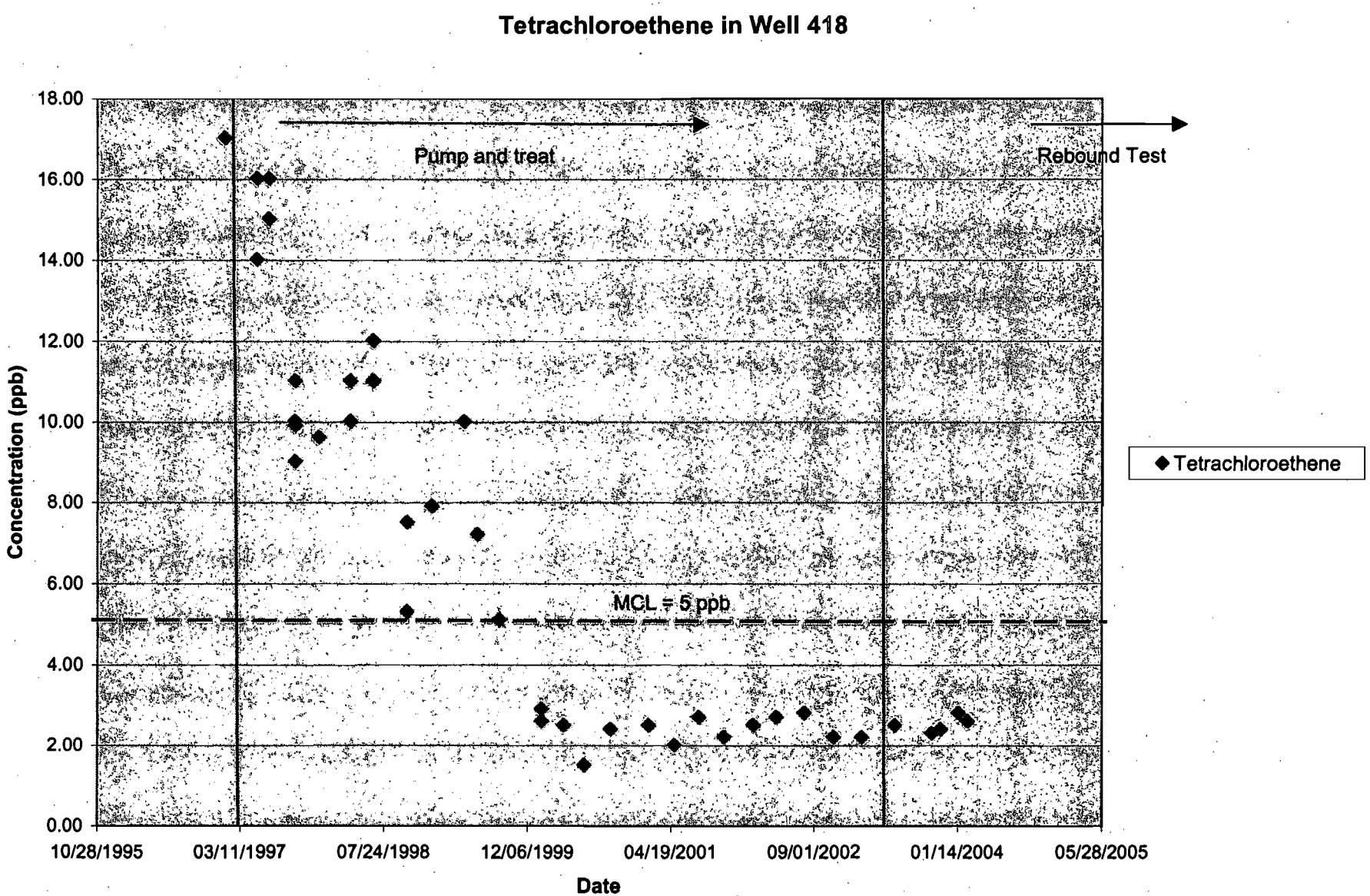
4/2004


Tetrachloroethene in Well 410
Pump and Treat
Rebound test
MCL = 5 ppb
Concentration (ppb)
25.00
20.00
15.00
10.00
5.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

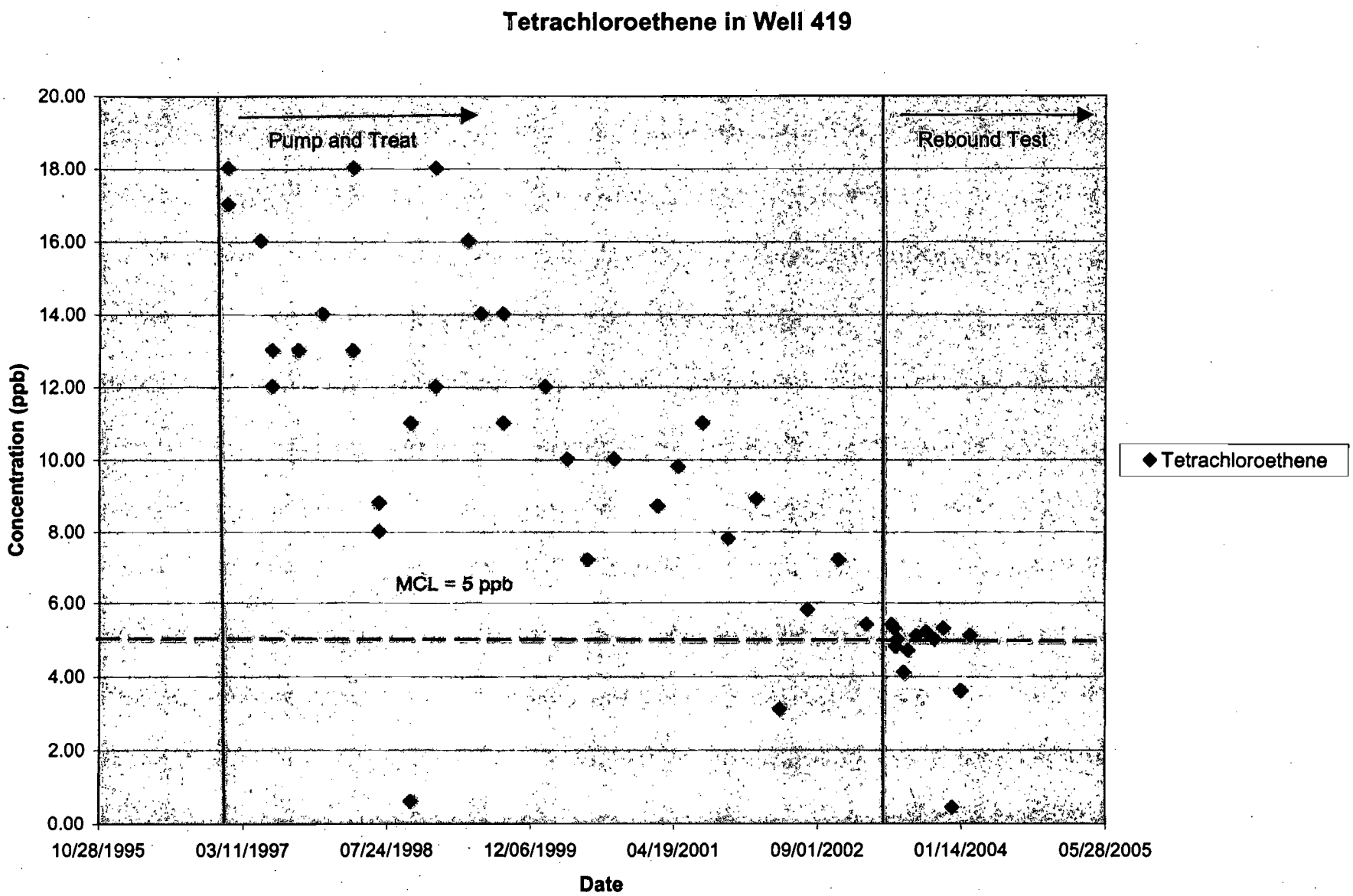
F21


Tetrachloroethene in Well 417
Pump and treat
Rebound test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
10.000000
9.000000
8.000000
7.000000
6.000000
5.000000
4.000000
3.000000
2.000000
1.000000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

F22

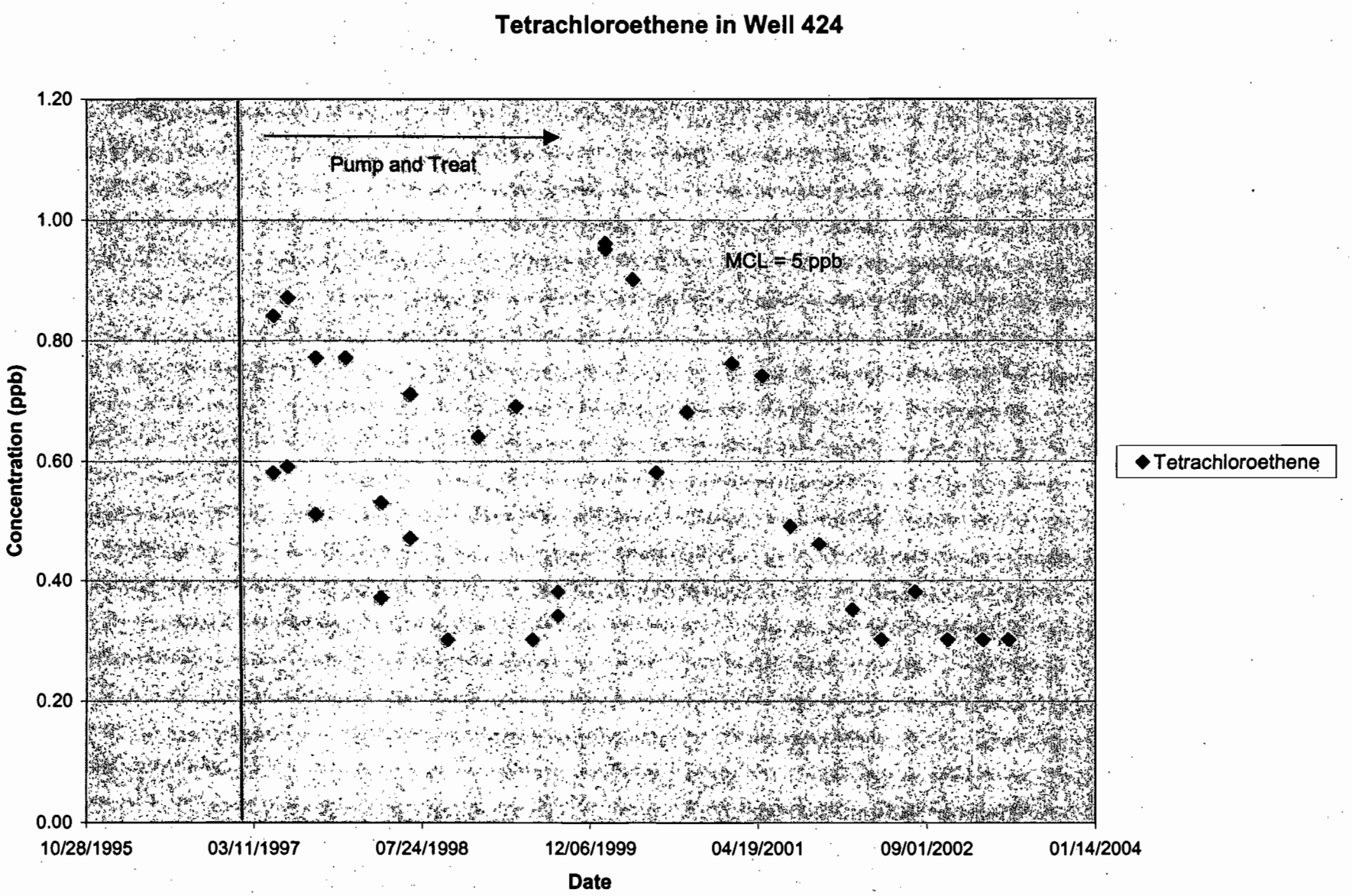

Tetrachloroethene in Well 418
Pump and treat
Rebound Test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

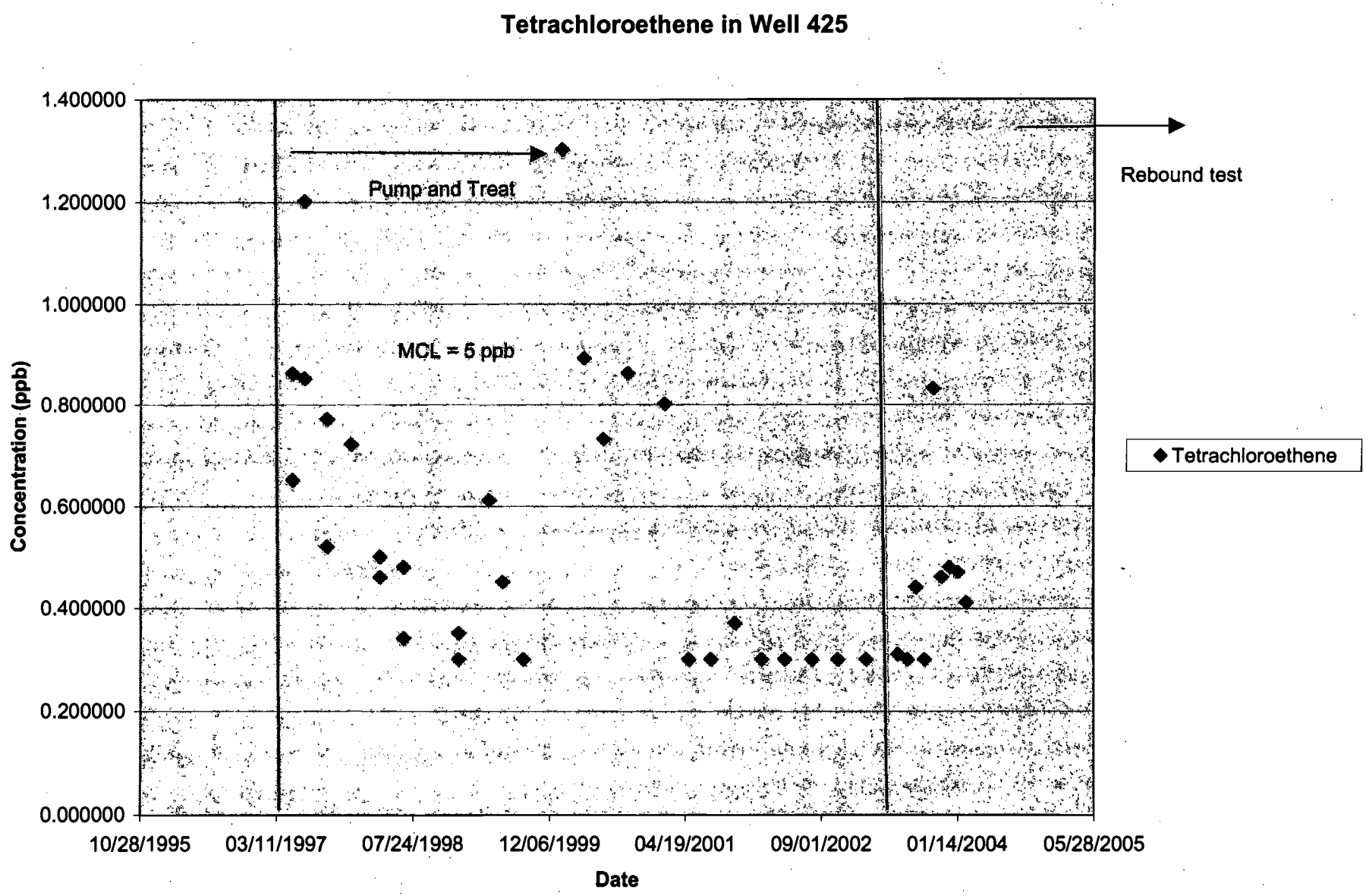
F23


Tetrachloroethene in Well 419
Pump and Treat
Rebound Test
MCL = 5 ppb
Concentration (ppb)
20.00
18.00
16.00
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

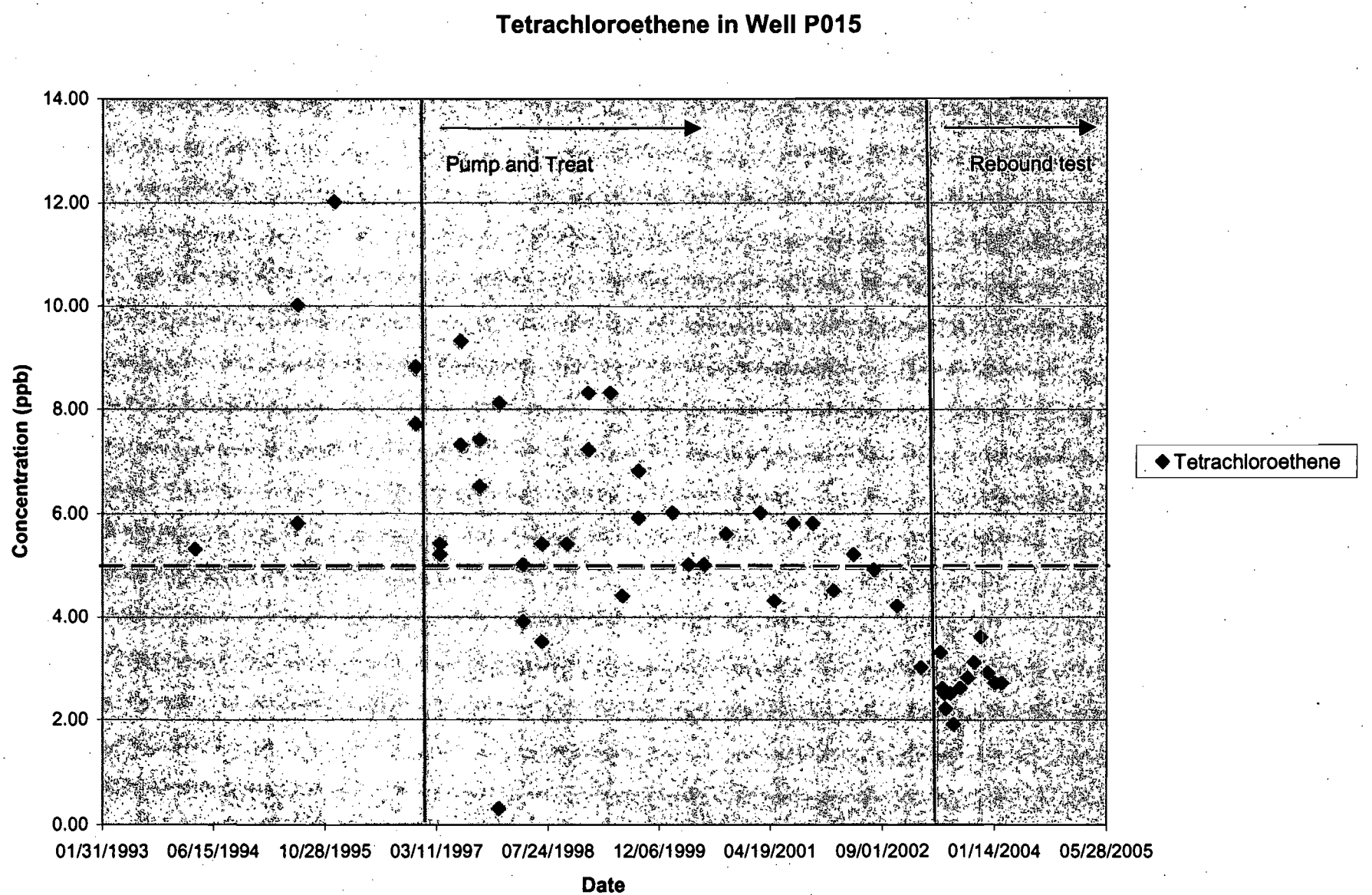
F24

F25

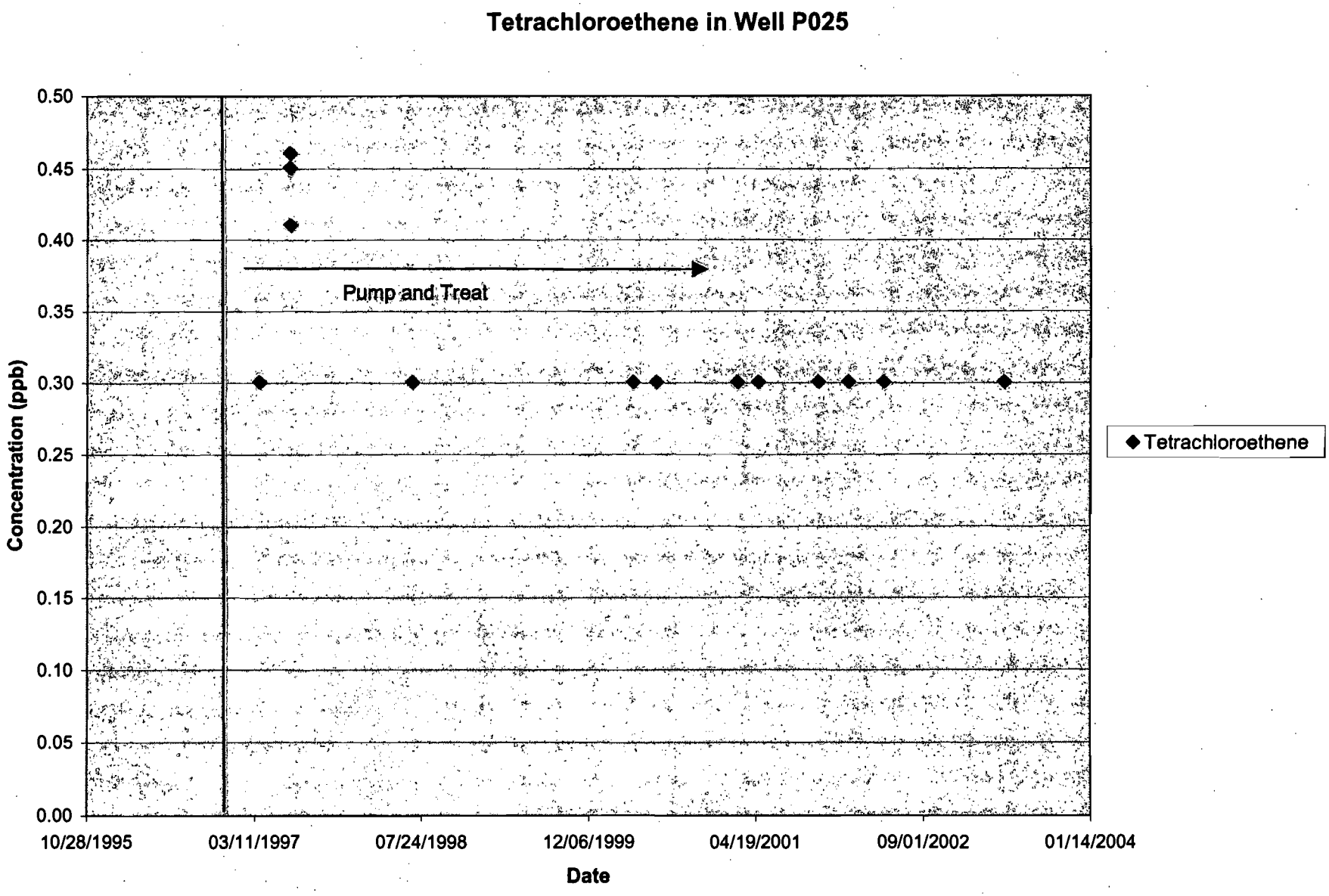

Tetrachloroethene in Well 424
Pump and Treat
MCL = 5 ppb
Concentration (ppb)
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Tetrachloroethene


Tetrachloroethene in Well 425
Pump and Treat
Rebound test
MCL = 5 ppb
Tetrachloroethene
Concentration (ppb)
1.400000
1.200000
1.000000
0.800000
0.600000
0.400000
0.200000
0.000000
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date

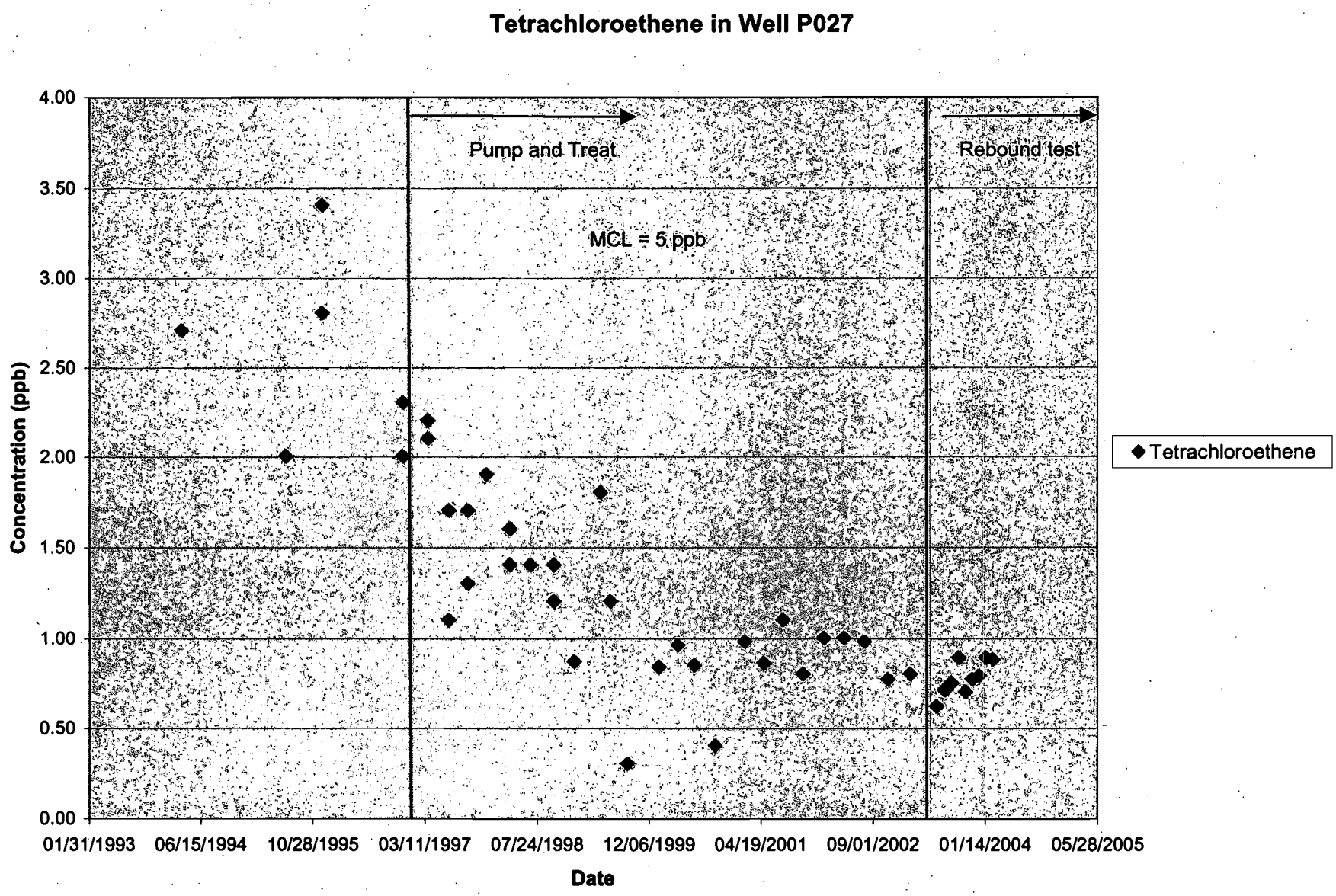
F26


Tetrachloroethene in Well P015
Pump and Treat
Rebound test
Concentration (ppb)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

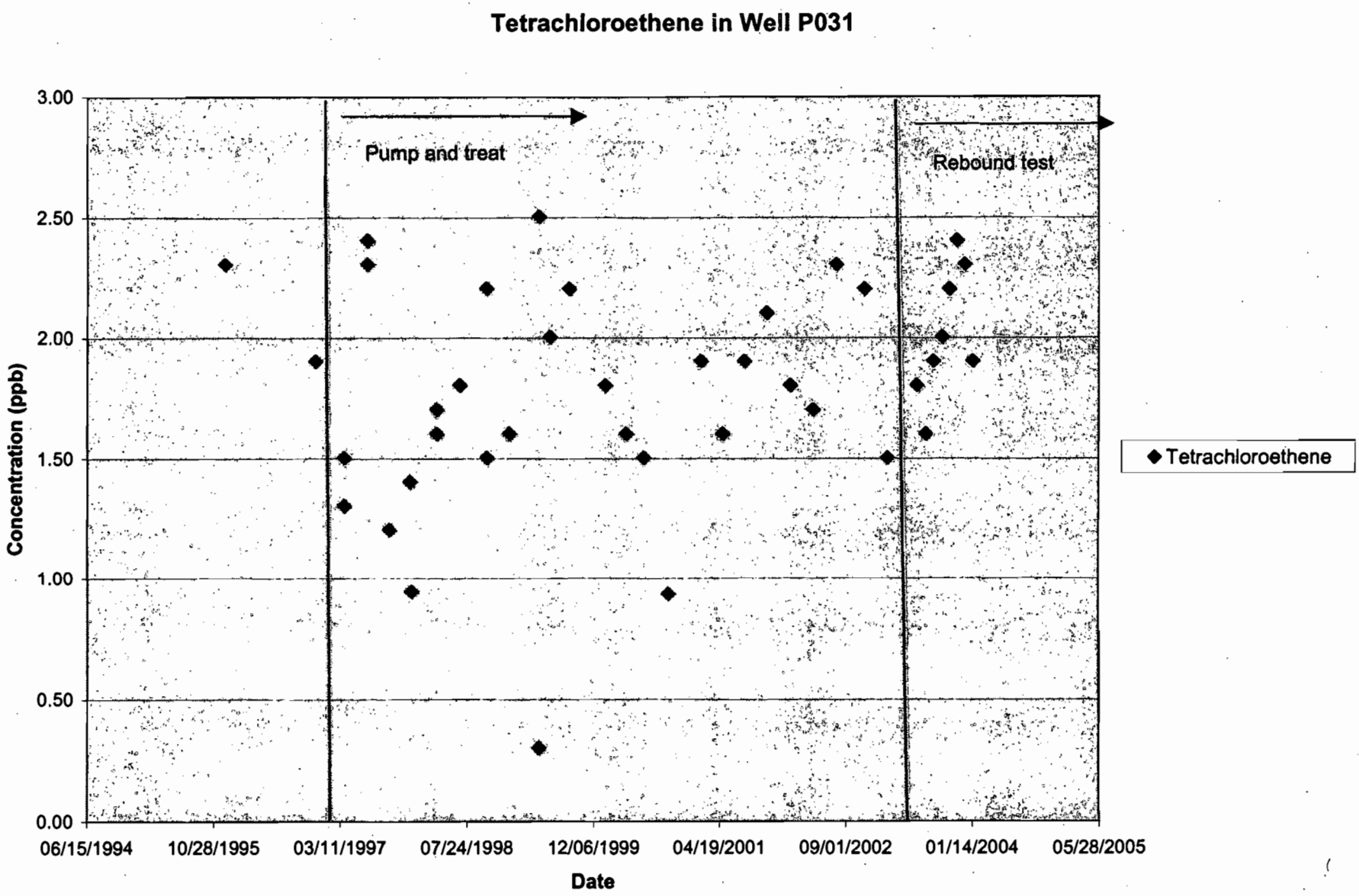
F27


Tetrachloroethene in Well P025
Concentration (ppb)
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
Pump and Treat
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
Date
Tetrachloroethene

F 28

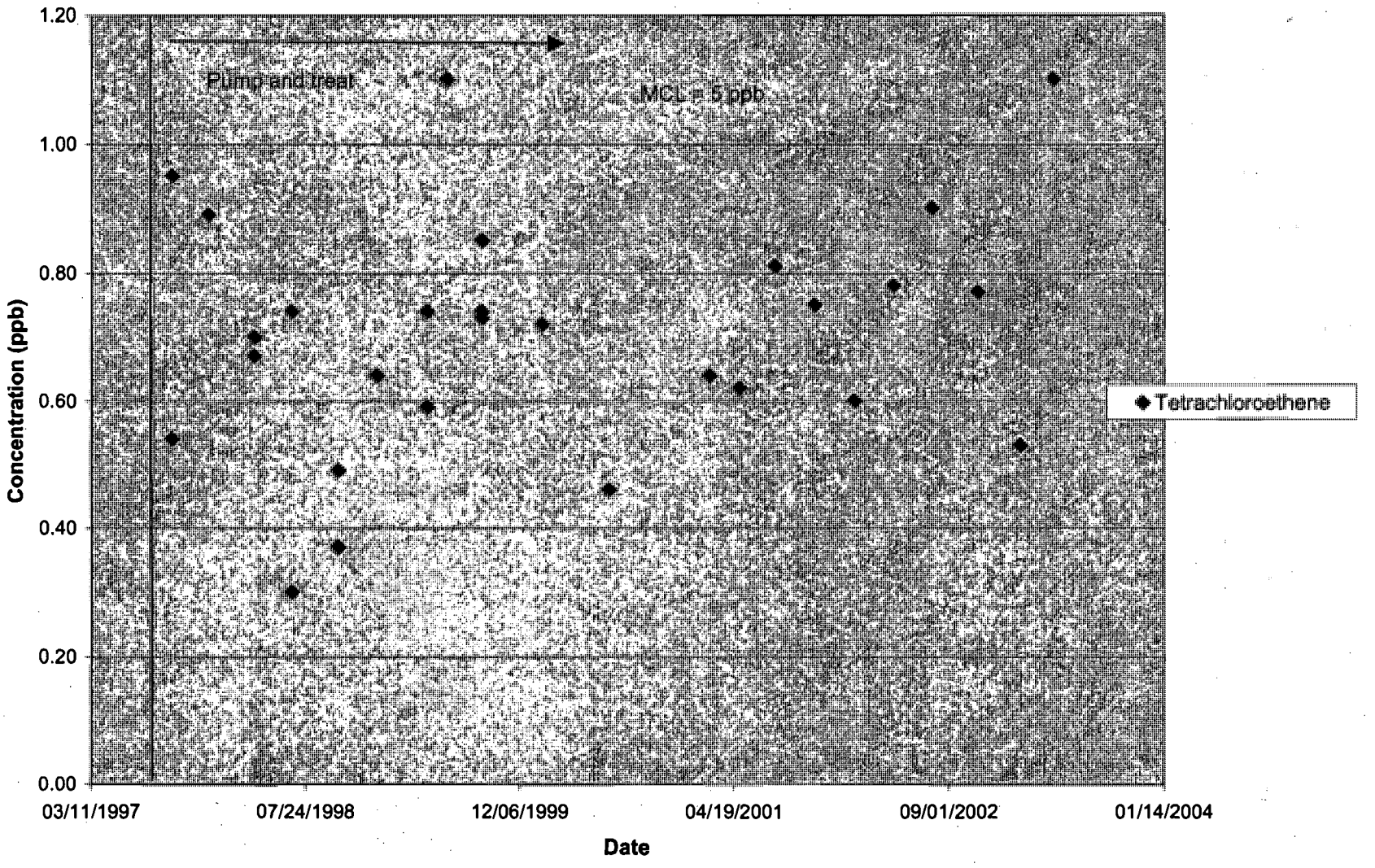

Tetrachloroethene in Well P027
Pump and Treat
Rebound test
MCL = 5 ppb
Concentration (ppb)
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
01/31/1993
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

F29


Tetrachloroethene in Well P031
Pump and treat
Rebound test
Concentration (ppb)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
06/15/1994
10/28/1995
03/11/1997
07/24/1998
12/06/1999
04/19/2001
09/01/2002
01/14/2004
05/28/2005
Date
Tetrachloroethene

F30

Tetrachloroethene in Well P046



Attachment G

OU-1 VOC Data Collected Subsequent to January 2004

Well name	Collection_date	Value_name	Measured value	Value units	Lab qualifier	Detection limit
63	20040715	1,2-cis-Dichloroethene	1	UG/L	U	1
63	20040715	Tetrachloroethene	**4.6**	UG/L		0.3
63	20040715	Trichloroethylene (TCE)	**2.7**	UG/L		1.2
63	20040715	Vinyl Chloride	1	UG/L	U	1
305	20040415	1,2-cis-Dichloroethene	**2.2**	UG/L		1
305	20040415	Tetrachloroethene	**2.4**	UG/L		0.3
305	20040415	Trichloroethylene (TCE)	**11**	UG/L		1.2
305	20040415	Vinyl Chloride	1	UG/L	U	1
305	20040716	1,2-cis-Dichloroethene	**1**	UG/L	U	1
305	20040716	Tetrachloroethene	**2**	UG/L		0.3
305	20040716	Trichloroethylene (TCE)	**6.1**	UG/L		1.2
305	20040716	Vinyl Chloride	1	UG/L	U	1
370	20040719	1,2-cis-Dichloroethene	1	UG/L	U	1
370	20040719	Tetrachloroethene	**24**	UG/L		0.3
370	20040719	Trichloroethylene (TCE)	**4.6**	UG/L		1.2
370	20040719	Vinyl Chloride	1	UG/L	U	1
373	20040715	1,2-cis-Dichloroethene	1	UG/L	U	1
373	20040715	Tetrachloroethene	**7.4**	UG/L		0.3
373	20040715	Trichloroethylene (TCE)	**3.7**	UG/L		1.2
373	20040715	Vinyl Chloride	1	UG/L	U	1
374	20040719	1,2-cis-Dichloroethene	**6.7**	UG/L		1
374	20040719	Tetrachloroethene	**3**	UG/L		0.3
374	20040719	Trichloroethylene (TCE)	**4**	UG/L		1.2
374	20040719	Vinyl Chloride	1	UG/L	U	1
379	20040707	1,2-cis-Dichloroethene	1	UG/L	U	1
379	20040707	Tetrachloroethene	**0.37**	UG/L		0.3
379	20040707	Trichloroethylene (TCE)	**1.7**	UG/L		1.2
379	20040707	Vinyl Chloride	1	UG/L	U	1
397	20040719	1,2-cis-Dichloroethene	1	UG/L	U	1
397	20040719	Tetrachloroethene	**3.1**	UG/L		0.3
397	20040719	Trichloroethylene (TCE)	**1.3**	UG/L		1.2
397	20040719	Vinyl Chloride	1	UG/L	U	1
400	20040422	1,2-cis-Dichloroethene	1	UG/L	U	1
400	20040422	Tetrachloroethene	0.3	UG/L	U	0.3
400	20040422	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
400	20040422	Vinyl Chloride	1	UG/L	U	1
400	20040713	1,2-cis-Dichloroethene	1	UG/L	U	1
400	20040713	Tetrachloroethene	0.3	UG/L	U	0.3
400	20040713	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
400	20040713	Vinyl Chloride	1	UG/L	U	1
402	20040421	1,2-cis-Dichloroethene	1	UG/L	U	1
402	20040421	Tetrachloroethene	0.3	UG/L	U	0.3

Well name	Collection_date	Value_name	Measured value	Value units	Lab qualifier	Detection limit
402	20040421	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
402	20040421	Vinyl Chloride	1	UG/L	U	1
402	20040713	1,2-cis-Dichloroethene	1	UG/L	U	1
402	20040713	Tetrachloroethene	0.3	UG/L	U	0.3
402	20040713	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
402	20040713	Vinyl Chloride	1	UG/L	U	1
410	20040716	1,2-cis-Dichloroethene	1	UG/L	U	1
410	20040716	Tetrachloroethene	**2.1**	UG/L		0.3
410	20040716	Trichloroethylene (TCE)	**2.7**	UG/L		1.2
410	20040716	Vinyl Chloride	1	UG/L	U	1
415	20040715	1,2-cis-Dichloroethene	1	UG/L	U	1
415	20040715	Tetrachloroethene	**1**	UG/L		0.3
415	20040715	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
415	20040715	Vinyl Chloride	1	UG/L	U	1
416	20040415	1,2-cis-Dichloroethene	1	UG/L	U	1
416	20040415	Tetrachloroethene	0.29	UG/L	J	0.3
416	20040415	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
416	20040415	Vinyl Chloride	1	UG/L	U	1
416	20040714	1,2-cis-Dichloroethene	1	UG/L	U	1
416	20040714	Tetrachloroethene	**0.49**	UG/L		0.3
416	20040714	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
416	20040714	Vinyl Chloride	1	UG/L	U	1
417	20040415	1,2-cis-Dichloroethene	1	UG/L	U	1
417	20040415	Tetrachloroethene	**0.84**	UG/L		0.3
417	20040415	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
417	20040415	Vinyl Chloride	1	UG/L	U	1
417	20040716	1,2-cis-Dichloroethene	1	UG/L	U	1
417	20040716	Tetrachloroethene	**0.73**	UG/L		0.3
417	20040716	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
417	20040716	Vinyl Chloride	1	UG/L	U	1
418	20040415	1,2-cis-Dichloroethene	**2.1**	UG/L		1
418	20040415	Tetrachloroethene	**2.6**	UG/L		0.3
418	20040415	Trichloroethylene (TCE)	**11**	UG/L		1.2
418	20040415	Vinyl Chloride	1	UG/L	U	1
418	20040716	1,2-cis-Dichloroethene	1	UG/L	U	1
418	20040716	Tetrachloroethene	**2.4**	UG/L		0.3
418	20040716	Trichloroethylene (TCE)	**8.4**	UG/L		1.2
418	20040716	Vinyl Chloride	1	UG/L	U	1
419	20040415	1,2-cis-Dichloroethene	0.9	UG/L	J	1
419	20040415	Tetrachloroethene	**5.3**	UG/L		0.3
419	20040415	Trichloroethylene (TCE)	**11**	UG/L		1.2
419	20040415	Vinyl Chloride	1	UG/L	U	1
419	20040716	1,2-cis-Dichloroethene	1	UG/L	U	1

Well name	Collection_date	Value_name	Measured value	Value units	Lab qualifier	Detection limit
419	20040716	Tetrachloroethene	**5.2**	UG/L		0.3
419	20040716	Trichloroethylene (TCE)	**7.9**	UG/L		1.2
419	20040716	Vinyl Chloride	1	UG/L	U	1
423	20040714	1,2-cis-Dichloroethene	1	UG/L	U	1
423	20040714	Tetrachloroethene	**1.8**	UG/L		0.3
423	20040714	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
423	20040714	Vinyl Chloride	1	UG/L	U	1
424	20040415	1,2-cis-Dichloroethene	1	UG/L	U	1
424	20040415	Tetrachloroethene	**0.39**	UG/L		0.3
424	20040415	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
424	20040415	Vinyl Chloride	1	UG/L	U	1
424	20040716	1,2-cis-Dichloroethene	1	UG/L	U	1
424	20040716	Tetrachloroethene	**0.35**	UG/L		0.3
424	20040716	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
424	20040716	Vinyl Chloride	1	UG/L	U	1
P015	20040415	1,2-cis-Dichloroethene	1	UG/L	U	1
P015	20040415	Tetrachloroethene	**2.5**	UG/L		0.3
P015	20040415	Trichloroethylene (TCE)	**5.6**	UG/L		1.2
P015	20040415	Vinyl Chloride	1	UG/L	U	1
P015	20040719	1,2-cis-Dichloroethene	1	UG/L	U	1
P015	20040719	Tetrachloroethene	**2.3**	UG/L		0.3
P015	20040719	Trichloroethylene (TCE)	**4.6**	UG/L		1.2
P015	20040719	Vinyl Chloride	1	UG/L	U	1
P027	20040416	1,2-cis-Dichloroethene	1	UG/L	U	1
P027	20040416	Tetrachloroethene	**0.61**	UG/L		0.3
P027	20040416	Trichloroethylene (TCE)	1.1	UG/L	J	1.2
P027	20040416	Vinyl Chloride	1	UG/L	U	1
P027	20040715	1,2-cis-Dichloroethene	1	UG/L	U	1
P027	20040715	Tetrachloroethene	**0.73**	UG/L		0.3
P027	20040715	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
P027	20040715	Vinyl Chloride	1	UG/L	U	1
P031	20040416	1,2-cis-Dichloroethene	1	UG/L	U	1
P031	20040416	Tetrachloroethene	**1.3**	UG/L		0.3
P031	20040416	Trichloroethylene (TCE)	**1.2**	UG/L		1.2
P031	20040416	Vinyl Chloride	1	UG/L	U	1
P031	20040719	1,2-cis-Dichloroethene	1	UG/L	U	1
P031	20040719	Tetrachloroethene	**1.4**	UG/L		0.3
P031	20040719	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
P031	20040719	Vinyl Chloride	1	UG/L	U	1
P033	20040420	1,2-cis-Dichloroethene	1	UG/L	U	1
P033	20040420	Tetrachloroethene	0.3	UG/L	U	0.3
P033	20040420	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
P033	20040420	Vinyl Chloride	1	UG/L	U	1

Well name	Collection_date	Value_name	Measured value	Value units	Lab qualifier	Detection limit
P033	20040713	1,2-cis-Dichloroethene	1	UG/L	U	1
P033	20040713	Tetrachloroethene	0.3	UG/L	U	0.3
P033	20040713	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
P033	20040713	Vinyl Chloride	1	UG/L	U	1
P044	20040715	1,2-cis-Dichloroethene	1	UG/L	U	1
P044	20040715	Tetrachloroethene	0.3	UG/L	U	0.3
P044	20040715	Trichloroethylene (TCE)	1.2	UG/L	U	1.2
P044	20040715	Vinyl Chloride	1	UG/L	U	1
P046	20040415	1,2-cis-Dichloroethene	1	UG/L	U	1
P046	20040415	Tetrachloroethene	**0.54**	UG/L		0.3
P046	20040415	Trichloroethylene (TCE)	**5.2**	UG/L		1.2
P046	20040415	Vinyl Chloride	1	UG/L	U	1
P046	20040716	1,2-cis-Dichloroethene	1	UG/L	U	1
P046	20040716	Tetrachloroethene	**0.58**	UG/L		0.3
P046	20040716	Trichloroethylene (TCE)	**5**	UG/L		1.2
P046	20040716	Vinyl Chloride	1	UG/L	U	1