REPORT

01-0513
SDMS 41558

Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002

General Electric Company
Pittsfield, Massachusetts

August 2002

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01-0513

Corporate Environmental Programs
General Electric Company
100 Woodlawn Avenue, Pittsfield, MA 01201

SDMS 41558

Transmitted Via Overnight Courier

August 30, 2002

Mr. Bryan Olson
EPA Project Coordinator
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: **GE-Pittsfield/Housatonic River Site**
Groundwater Management Area 3 (GECD330)
Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002

Dear Mr. Olson:

In accordance with GE's approved *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (April 2001), enclosed is the *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002.* This report summarizes activities performed at Groundwater Management Area (GMA) 3 (also known as the Plant Site 2 GMA) during spring 2002, including the results of the first round of sampling and analysis of groundwater performed as part of the baseline monitoring program for GMA 3 and the results of GE's non-aqueous phase liquid (NAPL) monitoring and recovery program in this area.

As discussed in this report, GE has not yet obtained access agreements for all monitoring well locations located on non-GE-owned property at this GMA. Therefore, GE is proposing to omit the fall 2002 baseline groundwater sampling event if such access cannot be obtained in time to collect the full set of samples in the approved baseline monitoring program. In that case, GE would subsequently conduct a minimum of two years of semi-annual baseline groundwater quality sampling after the necessary access has been obtained. In the meantime, GE will continue with the groundwater elevation monitoring (at wells where it has access) and with NAPL monitoring/recovery activities at this GMA.
Please call Andrew Silfer or me if you have any questions regarding this report.

Sincerely,

John F. Novotny /NAS for

John F. Novotny, P.E.
Manager - Facilities and Brownfields Programs

NAS/nls
Enclosure

cc: Michael Nalipinski, EPA
Tim Conway, EPA (cover letter only)
Holly Inglis, EPA
Rose Howell, EPA
K.C. Mitkevicius, USACE
Dawn Jamros, Weston
Alan Weinberg, MDEP (cover letter only)
Robert Bell, MDEP (cover letter only)
Susan Steenstrup, MDEP (2 copies)
Susan Keydel, MDEP
Thomas Angus, MDEP (cover letter only)
Mayor Sara Hathaway, City of Pittsfield
Pittsfield Commissioner of Public Health
Thomas Hickey, Director, PEDA
Jeffery Bernstein, Bernstein, Cushner & Kimmel
Theresa Bowers, Gradient
Nancy E. Harper, MA AG
Dale Young, MA EOEA
Michael Carroll, GE (cover letter only)
Andrew Silfer, GE
Rod McLaren, GE (cover letter only)
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Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002

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August 2002

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1. Introduction

1.1 General

On October 27, 2000, a Consent Decree (CD) executed in 1999 by the General Electric Company (GE), the United States Environmental Protection Agency (EPA), the Massachusetts Department of Environmental Protection (MDEP), and several other government agencies was entered by the United States District Court for the District of Massachusetts. The CD governs (among other things) the performance of response actions to address polychlorinated biphenyls (PCBs) and other hazardous constituents in soils, sediment, and groundwater in several Removal Action Areas (RAAs) located in or near Pittsfield, Massachusetts that collectively comprise the GE-Pittsfield/Housatonic River Site (the Site). For groundwater and non-aqueous-phase liquid (NAPL), the areas at and near the GE Pittsfield facility have been divided into five Groundwater Management Areas (GMAs), which are illustrated on Figure 1. These GMAs are described, together with the Performance Standards established for the response actions at and related to them in Section 2.7 of the *Statement of Work for Removal Actions Outside the River* (SOW) (Appendix E to the CD), with further details presented in Attachment H to the SOW (Groundwater/NAPL Monitoring, Assessment, and Response Programs). This report relates to the Plant Site 2 GMA, also known as and referred to herein as GMA 3.

On April 24, 2001, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (GMA 3 Baseline Monitoring Proposal), which was conditionally approved by EPA on November 21, 2001. The GMA 3 Baseline Monitoring Proposal summarized the currently available hydrogeologic information for GMA 3 and proposed groundwater and NAPL monitoring activities (as a supplement to those activities currently in place at that time) for the baseline monitoring period at this GMA. Thereafter, certain modifications were made to the GMA 3 baseline as a result of EPA approval conditions and/or findings during field reconnaissance of several wells identified for baseline monitoring. These modifications were documented in an *Addendum to the GMA 3 Baseline Monitoring Proposal*, submitted to EPA on February 20, 2002. That addendum was conditionally approved by EPA on April 18, 2002.

In spring 2002, under the baseline program, several GMA 3 monitoring wells were gauged to determine physical groundwater characteristics (i.e., gradient, flow direction, presence of NAPL) and/or sampled for analysis of PCBs and/or certain non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3). As part of the baseline program, GE is required to submit reports on a semi-annual basis to summarize the groundwater and NAPL monitoring and

recovery results and, as appropriate, propose modification to the monitoring program. This *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002* (Spring 2002 GMA 3 Baseline Report) presents the results of groundwater sampling activities performed in April 2002, as well as certain other groundwater characterization and NAPL-related activities performed between January and June 2002.

1.2 Format of Document

The remainder of this report is presented in seven sections. Section 2 provides a summary of pertinent background information concerning GMA 3, including descriptions of hydrogeologic conditions, areas where the presence of NAPL has been documented, the applicable groundwater quality and NAPL-related Performance Standards under the CD, and a description of the baseline monitoring program (including certain access-related delays encountered by GE in initiating this program). Section 3 describes the groundwater- and NAPL-related activities performed at GMA 3 in spring 2002. Section 4 presents the analytical results obtained during the spring 2002 sampling event. Section 5 provides an evaluation of the NAPL monitoring/recovery program and an assessment of the groundwater quality results from spring 2002, including comparisons to the currently applicable groundwater quality Performance Standards and to the Upper Concentration Limits (UCLs) for groundwater. Section 6 proposes certain modifications to the current NAPL and baseline groundwater quality monitoring programs. Finally, Section 7 addresses the schedule for future field and reporting activities related to groundwater quality and NAPL presence at GMA 3, focusing in particular on the fall 2002 monitoring event.

2. Background Information

2.1 General

As discussed above, the CD and the SOW provide for the performance of groundwater- and NAPL-related Removal Actions at a number of GMAs. GMA 3 encompasses the portion of the Unkamet Brook Area (as defined in the CD and SOW) located to the east of Plastics Avenue, as shown on Figures 1 and 2. This area includes the eastern portion of GE's Pittsfield facility, which is generally bounded by Dalton Avenue to the north, Merrill Road to the south, Plastics Avenue to the west, and railroad tracks to the east. GMA 3 also contains commercial/recreational properties located between Merrill Road and the Housatonic River to the southeast of the facility. Unkamet Brook extends from northwest to southeast through the interior of this GMA, although a portion of the brook in the center of the area flows through underground culverts. The GE-owned portion of this GMA located west of Unkamet Brook is mostly paved and covered with large buildings. The GE-owned portion to the east of Unkamet Brook, as well as much of the land between Merrill Road and the Housatonic River, is undeveloped (except for the area associated with Building OP-3 and the commercial area along Merrill Road). The presence of NAPL in this area has been previously documented in prior GE reports and is limited to the vicinity of Buildings 51 and 59 along the western boundary of the GMA.

2.2 Hydrogeologic Framework

Over 250 monitoring wells and associated soil borings have been installed across GMA 3. Data collected at the time of soil boring/monitoring well installation (e.g., lithologic descriptions of the subsurface materials) and subsequent groundwater and NAPL monitoring at many of these locations have produced an extensive database of hydrogeologic information. Although variations to the hydrogeologic setting within GMA 3 exist depending on the specific location, the available data support a general assessment of subsurface conditions and groundwater hydraulics within GMA 3, as described below.

2.2.1 Geologic Framework

The overburden deposits within GMA 3 primarily consist of unconsolidated sediments of glacial origin which have been deposited in a broad bedrock valley occupied by the Housatonic River and Unkamet Brook. In addition, portions of the floodplains of the Housatonic River and Unkamet Brook also contain more recent deposits of fine-

grained sand, silt and peat. In general, four hydrogeologic units are present within GMA 3. Cross-sections depicting the general overburden stratigraphy are presented on Figures 3 and 4. These units are briefly described below:

Alluvial/Floodplain Deposits

These shallow deposits extend from ground surface to depths of over 40 feet. This unit generally consists of reworked glacial outwash and/or floodplain deposits laid down in association with recent depositional processes within the Housatonic River, and to a lesser extent, Unkamet Brook. The nature of these deposits is highly variable, particularly near the ground surface. Localized lenses of silt and fine sand are found across the area. Isolated peat deposits are also present, typically within the top 10 feet below ground surface (bgs) within marshy areas located adjacent to Unkamet Brook. Apart from these natural deposits, fill materials also make up a portion of the shallow subsurface at GMA 3. Specific fill areas include the former interior landfill, and sand and gravel layers placed beneath some of the buildings to form a base for construction.

The surficial deposits typically grade into a silt unit which interferes with a heterogeneous mixture of sand and gravel. This dense unit thins to the south and is underlain or replaced by a more permeable sand layer. The sand contains thin lenses of silt, peat, and gravel near its upper contact, but becomes increasingly homogeneous with depth.

The existing monitoring wells in the "B-Series" and other water-table wells within GMA 3 are screened within these shallow deposits, as they are the upper and primary water-bearing unit within this GMA. Groundwater is encountered under unconfined conditions at depths between less than 5 feet to over 20 feet bgs, although the depth to water at most locations is less than 10 feet bgs.

Glacial Outwash

The deeper soils consist primarily of 100 to 200 feet of fine to medium sand containing varying amounts of silt and gravel. These glacial outwash deposits vary laterally across this GMA, and with depth, in terms of density, stratification, and heterogeneity. In general, the deposits which are located in the western portion of the GMA are denser and less permeable than those to the east.

Glacial Till

The till unit underlies the outwash deposits and consists of approximately 20 to 50 feet of dense sand containing varying amounts of silt, gravel, and rock fragments. Till was encountered in limited borings (e.g., well clusters 106, 109, and 112), located in the southwestern portion of GMA 3.

Bedrock

Bedrock beneath GMA 3 consists of tan-beige calcitic quartzose, and dolomitic marble associated with the Stockbridge Formation. Bedrock is interpreted within this GMA at depths between 140 feet bgs to greater than 250 feet bgs, based on the results of prior soil borings and seismic studies which have been conducted in the area.

2.2.2 Groundwater Flow

Groundwater at GMA 3 generally flows in a southeasterly direction toward the Housatonic River, usually in concert with the existing topography. However, localized variations in the flow direction exist due to fill materials used beneath building foundations in the GE Plastics area and the presence of Unkamet Brook. In addition, NAPL recovery activities at recovery well 51-21 have created a small depression in the water table near that well. The horizontal hydraulic gradients are somewhat variable within GMA 3, but generally decrease toward the Housatonic River, corresponding to a flattening in the ground surface topography.

Several well pairs or closely-spaced shallow and deep well clusters have been installed at GMA 3. The approximate depth of a well in a cluster can be identified by the letter contained in the well name (e.g., cluster 39 contains wells 39A, 39B, 39D, and 39E) which represents the well series, specifically:

- A-series wells are generally screened approximately 45– to 50-feet below ground surface (bgs);
- B-series wells are generally screened at or near the water table, approximately 15– to 25-feet bgs;
- C-series wells are generally screened approximately 95– to 100-feet bgs;
- D-series wells are generally screened approximately 70– to 75-feet bgs; and
- E-series wells are generally screened at depths greater than 150 feet bgs.

Most of the GMA 3 well clusters consist of an A-series well paired with a B-series well, and sometimes one or more of the deeper series wells. Based on prior monitoring data from the well clusters, the vertical component of the

hydraulic gradient is variable. In general, groundwater flows downward in the northern part of the GMA, moves laterally across the central areas, and rises to the south, near the Housatonic River.

2.3 Groundwater Quality

Groundwater analytical data concerning GMA 3 have been previously summarized in several reports prepared under the MCP and RCRA Corrective Action Programs that were in place at the GE facility (and related areas) prior to entry of the CD. The primary document (excluding routine monitoring reports) which provides the results of past groundwater investigations for the areas within or related to GMA 3 is the *MCP Interim Phase II Report and Current Assessment Summary for Unkamet Brook Area/USEPA Area 1* (BBL, January 1995). The investigation activities described in that report, as well as recent activities associated with the semi-annual groundwater sampling program, have produced a substantial amount of groundwater analytical data for GMA 3, involving analytical data from approximately 750 groundwater samples collected from over 200 wells since 1979. The results of the prior groundwater analyses performed at GMA 3 were summarized in the GMA 3 Baseline Monitoring Proposal. Although a variety of constituents, including PCBs, have been detected in GMA 3 groundwater samples, volatile organic compounds (VOCs) are the primary constituent group of interest in this area. A VOC plume, consisting primarily of benzene, chlorobenzene, and trichloroethene, has been identified extending to the south-southeast from the approximate location of the former waste stabilization basin.

2.4 Groundwater Quality Performance Standards

The Performance Standards which are applicable to response actions for groundwater at GMA 3 are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the Massachusetts Contingency Plan (MCP) (310 CMR 40.0932). The MCP identifies three potential groundwater categories that may be applicable to a given site. One of these, GW-1 groundwater, applies to groundwater that is a current or potential source of potable drinking water. None of the groundwater at any of the GMAs at the Site is classified as GW-1. However, the remaining MCP groundwater categories are applicable to GMA 3 and are described below:

- GW-2 groundwater is defined as groundwater that is a potential source of vapors to the indoor air of buildings. Groundwater is classified as GW-2 if it is located within 30 feet of an existing occupied building and has an average annual depth to groundwater of 15 feet or less. Under the MCP, volatile constituents present within GW-

2 groundwater represent a potential source of organic vapors to the indoor air of the overlying and nearby occupied structures.

- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to be ultimately discharged to surface water.

The CD and the SOW allow for the establishment of standards for GW-2 and GW-3 groundwater at the GMAs through use of one of three methods, as generally described in the MCP. The first, known as Method 1, consists of the application of pre-established numerical "Method 1" standards set forth in the MCP for both GW-2 and GW-3 groundwater (310 CMR 40.0974). These "default" standards have been developed to be conservative and will serve as the initial basis for evaluating groundwater at GMA 3. For constituents for which Method 1 standards do not exist, the MCP provides procedures, known as Method 2, for developing such standards ("Method 2 standards") for both GW-2 (310 CMR 40.0983(2)) and GW-3 (310 CMR 40.0983(4)) groundwater. For such constituents that are detected in groundwater during the baseline monitoring program, Attachment H to the SOW states that, in the Baseline Monitoring Program Final Report, GE must propose to develop Method 2 standards using these MCP procedures or alternate procedures approved by EPA, or provide a rationale for why such standards need not be developed. For constituents whose concentrations exceed the applicable Method 1 (or Method 2) standards, GE may develop and propose to EPA alternative GW-2 and/or GW-3 standards based on a site-specific risk assessment. This procedure is known as Method 3 in the MCP. Upon EPA approval, these alternative risk-based GW-2 and/or GW-3 standards may be used in lieu of the Method 1 (or Method 2) standards. Of course, whichever method is used to establish such groundwater standards, GW-2 standards will be applied to GW-2 groundwater and GW-3 standards will be applied to GW-3 groundwater.

Based on consideration of the above points, the specific groundwater quality Performance Standards for GMA 3 consist of the following:

1. At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following: (a) the Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or (b) alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied

buildings; or (c) a condition, based on a demonstration approved by EPA, in which constituents in the groundwater do not pose an unacceptable risk to occupants of nearby occupied buildings via volatilization and transport to the indoor air of such buildings.

2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards: (a) the Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or (b) alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been selected as the compliance points for attainment of the GW-2 and/or GW-3 Performance Standards identified above. In addition, at GMA 3, a number of wells are designated as natural attenuation monitoring wells, which are used to evaluate natural attenuation mechanisms in groundwater. The GW-2, GW-3, and natural attenuation monitoring wells at this GMA were identified in the GMA 3 Baseline Monitoring Proposal Addendum.

2.5 Extent of NAPL

The occurrence of NAPL at this GMA was initially investigated in 1986, following the observation of oil in an excavation completed in conjunction with the renovation of Building 59. Subsequent investigations found that the NAPL was concentrated in coarse gravel that was assumed to be fill material for the foundation of Building 59 and may also be the result of leakage from underground storage tanks (USTs) located on the northeast side of Building 51. Those previous investigations identified the NAPL as a light non-aqueous phase liquid (LNAPL) in the soil at and above the groundwater table interface. Dense non-aqueous phase liquid (DNAPL) has not been encountered at any of the monitoring wells within GMA 3, although NAPL was observed at the base of well UB-MW-10 on February 28, 2002. GE notified EPA and MDEP of this observation on March 1, 2002 and planned to return to the well to collect a NAPL sample for physical characteristics testing to determine whether it was LNAPL or DNAPL. However, the well was found to be completely dry upon return. A thin layer of LNAPL was observed in this well during the next routine monitoring event in March 2002. GE concluded that the prior NAPL observation was an accumulation of LNAPL left in soft sediments at the base of the well following a drop in groundwater levels to below the well. Since LNAPL

has been known to periodically enter well UB-MW-10, no sample was collected for confirmatory physical characteristics analyses.

Distribution of the LNAPL within the subsurface has remained confined to the vicinity of Buildings 51 and 59, due primarily to: (a) the generally low hydraulic gradients in this area; (b) the contrast in grain size between the coarse fill materials near and beneath the buildings and surrounding native soils; and (c) the ongoing LNAPL recovery efforts (both automated and manual) conducted by GE. A discussion of the current extent of LNAPL at GMA 3 relative to the historical extent of LNAPL at this GMA is included in Section 3.5 below.

2.6 NAPL-Related Performance Standards

Under the CD and SOW, GE is required to perform monitoring, recovery, assessment, and other response activities related to NAPL until the applicable NAPL-related Performance Standards are ultimately achieved. The NAPL-related Performance Standards are set forth in Section 2.7 and Attachment H (Section 4.0) of the SOW. They consist of the following:

1. Containment, defined as no discharge of NAPL to surface waters and/or sediments, which shall include no sheens on surface water and no bank seeps of NAPL.

2. For areas near surface waters in which there is no physical containment barrier between the wells and the surface water, elimination of measurable NAPL (i.e., detectable with an oil/water interface probe) in wells near the surface water bank that could potentially discharge NAPL into the surface water, in order to prevent such discharge and assist in achieving groundwater quality Performance Standards.

3. For areas adjacent to physical containment barriers, prevention of any measurable LNAPL migration around the ends of the physical containment barriers.

4. For NAPL areas not located adjacent to surface waters, reduction in the amount of measurable NAPL to levels which eliminate the potential for NAPL migration toward surface water discharge areas or beyond GMA boundaries, and which assist in achieving groundwater quality Performance Standards.

5. For NAPL detected in wells designed to assess GW-2 groundwater (i.e., located at average depths of 15 feet or less from the ground surface and within a horizontal distance of 30 feet from an existing occupied building), a

demonstration that constituents in the NAPL do not pose an unacceptable risk to occupants of such building via volatilization and transport to the indoor air of such building. Such demonstration may include assessment activities such as: NAPL sampling, soil gas sampling, desk-top modeling of potential volatilization of chemicals from the NAPL (or associated groundwater) to the indoor air of the nearby occupied buildings, or sampling of the indoor air of such buildings. If necessary, GE shall propose corrective actions, including, but not limited to, containment, recovery, or treatment of NAPL and impacted groundwater.

2.7 Baseline Monitoring Program

The baseline monitoring program at GMA 3 involves numerous wells monitored for various purposes. These wells were identified in GE's Baseline Monitoring Proposal Addendum, as conditionally approved by EPA in its letter of April 18, 2002. As part of this program, 38 wells are to be sampled semi-annually for groundwater quality. Of these, 10 wells are to be monitored as GW-2 wells, 13 as GW-3 perimeter wells, one as a GW-3 source area sentinel well, and 22 as natural attenuation monitoring wells (note that some wells are to be monitored under more than one category). In addition, those 38 wells plus 24 additional wells are to be monitored quarterly (or, in some cases, more frequently) for groundwater elevation and the presence/thickness of LNAPL (as listed in Table 3 of the Baseline Monitoring Proposal Addendum). The monitoring wells in the baseline program are listed in Table 1, which also identifies the usage (i.e., type of sampling or monitoring) for each well. The well locations are shown on Figure 2.

Initiation of this baseline monitoring program required the installation of 14 new or replacement wells. As discussed below in Section 3.2, seven of these wells were installed in February 2002, but the other seven (39B-R, GMA3-1, GMA3-3, GMA3-5, GMA3-7, GMA3-8, and GMA3-9), all of which are groundwater quality monitoring wells, have not been installed because final approval of those well locations was not received prior to the April 2002 sampling event and/or due to failure to obtain access to the well areas or due to physical problems with well installation. In addition, GE has not to date obtained access permission from the property owners for the sampling of 15 existing groundwater quality monitoring wells in the program located on non-GE-owned properties between the railroad tracks and the Housatonic River. The wells that were not installed or sampled for the spring 2002 sampling event are identified in Table 1. As a result, only 16 groundwater quality monitoring wells were sampled during this event, as identified in Table 1 and discussed in Section 3.4.

GE plans to install four of the not-yet-installed wells (39B-R, GMA3-7, GMA3-8, and GMA3-9) within the next month or so. As to the other three, one (GMA3-5) is located on property to which GE has not received access permission. The locations of two other proposed wells (GMA3-1 and GMA3-3) were found to be in a marshy area

inaccessible to drilling and sampling equipment. EPA has agreed to defer the installation of well GMA3-1 until after the completion of future remediation activities (i.e., soil/sediment removal and the re-routing of Unkamet Brook) in this area. EPA has also verbally approved a modified location for well GMA3-3 near the access drive to the parking area along Dalton Avenue. That well will likewise be installed within the next month or so.

In addition, GE will continue its efforts to obtain access to the properties between the railroad tracks and the river from the owners of those properties (CSX Corporation, the U.S. Department of the Navy, and the Massachusetts Department of Education), so as to allow installation and sampling of new well GMA3-5 and sampling of the 15 existing wells in the program that are located in this area. However, certain of these property owners have adopted lengthy application processes for obtaining access agreements. As a result, it seems unlikely at this time that GE will be able to obtain the necessary access agreements prior to the currently scheduled October 2002 sampling event. As previously discussed with EPA, if access cannot be obtained to the areas of these wells by September 30, 2002, GE proposes to omit the fall 2002 groundwater sampling round, and subsequently to conduct a minimum of two years of semi-annual baseline groundwater quality sampling after the necessary access has been obtained. In the meantime, as discussed in Sections 6.2 and 7.2, GE would continue with the routine NAPL monitoring and recovery activities (at the wells included in the NAPL monitoring program) and with quarterly groundwater elevation monitoring, and would conduct limited groundwater sampling at one well which showed an exceedance of the GW-3 standards.

3. Spring 2002 Field Activities

3.1 General

The activities conducted as part of the spring 2002 semi-annual groundwater monitoring program primarily involved measurement of groundwater levels and the collection of groundwater samples from select monitoring wells within GMA 3. Monitoring and recovery of LNAPL (if present) were also routinely performed at the monitoring wells which are included in the NAPL monitoring program. All wells that were gauged for groundwater elevations, sampled for groundwater quality, and/or monitored for LNAPL during spring 2002 are identified in Table 1, and a site plan showing the groundwater monitoring/sampling locations described in this report is presented on Figure 2. This section discusses the field procedures used to measure site groundwater and LNAPL levels and to collect groundwater samples, as well as the methods used to analyze the groundwater samples. All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

3.2 Well Installation and Development Activities

GE installed three new monitoring wells (GMA 3-2, GMA3-4, and GMA3-6) and four replacement wells (16B-R, 51-16R, 59-3R, and 78B-R) in February 2002. The three new wells and replacement wells 16B-R and 78B-R were installed for use in the baseline groundwater quality monitoring program, while replacement wells 51-16R and 59-3R were installed to replace NAPL monitoring wells that were found to be irreparably damaged. The locations of these wells are shown on Figure 2. Table 2 shows the survey data and well construction details for these new and replacement wells, along with the existing wells in the baseline monitoring program. Monitoring well logs for the new and replacement wells are presented in Appendix A.

Following installation, the new monitoring wells were developed to remove fine materials (e.g., fine sand, silt, clay) that may have accumulated in the filter pack and to ensure that the well screen was transmitting groundwater representative of the surrounding formation. In addition, all existing wells included in the sampling program were re-developed in February 2002 to remove sediment accumulations from within the well casings. Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with either a submersible or peristaltic pump, depending on the well diameter.

As noted above, GE has yet to install seven wells (39B-R, GMA3-1, GMA3-3, GMA3-5, GMA3-7, GMA3-8, and GMA3-9) that were approved for inclusion in the baseline monitoring program. Final approval of the locations of these wells was not received prior to the April 2002 sampling event. Moreover, as described above, one of these proposed wells (GMA3-5) is located on one of the properties to which GE has not yet obtained an access agreement, while two others (GMA3-1 and GMA3-3) are located in a marshy area inaccessible to drilling and sampling equipment. GE's plans regarding installation of these seven wells were mentioned above and are also discussed in Sections 6.2.2 and 7.2.

3.3 Groundwater Level Measurements

Winter 2001/2002 and spring 2002 quarterly groundwater elevation monitoring was performed in January 2002 and April 2002, respectively. This activity involved the collection of groundwater level data at the locations listed in Table 3. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. The January and April 2002 groundwater elevation data are presented in Table 3 and were used to prepare winter and spring groundwater elevation contour maps. These maps are provided as Figures 5 and 6, respectively. Consistent with prior data, groundwater was found to generally flow toward the Housatonic River, with some localized variations in the vicinity of Unkamet Brook and in the area of recovery well 51-21, which contains an automated skimmer for LNAPL recovery. LNAPL monitoring and recovery data for spring 2002 are summarized in Table 4 and Appendix C.

3.4 Groundwater Sampling and Analysis

The spring 2002 baseline sampling event was performed between April 23 and 29, 2002. Under the approved baseline monitoring program, samples were scheduled to be collected from 38 monitoring wells; however, as described above, due to property access issues and/or the timing of final EPA approval of the locations of certain new wells, samples were collected from only 16 wells (2A, 6B, 16A, 16B-R, 16C, 16E, 39D, 39E, 43A, 43B, 51-14, 54B, 78B-R, GMA3-2, GMA3-4, and GMA3-6), all of which are located to the north of the railroad that divides the GMA. Low-flow sampling techniques using either a bladder, submersible, or peristaltic pump were generally utilized for the purging and collection of groundwater samples during this sampling event. Samples collected for VOC analysis were sampled with a bailer in wells that were purged with a peristaltic pump (as discussed in Section 6.2.1, GE is proposing to eliminate this step for future sampling events). Each monitoring well was purged until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized or the well was pumped dry. The field parameters were measured in combination with the sampling

activities at all monitoring wells sampled. The data are summarized in Table 5 and the field sampling records are contained in Appendix B. A general summary of the spring 2002 field measurement results during the monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units	1.0 – 987
pH	pH units	6.33 – 8.78
Specific Conductivity	Millisiemens per centimeter	0.137 – 7.210
Oxidation-Reduction Potential	Millivolts	-207 – 88
Dissolved Oxygen	Milligrams per liter	0.00 - 11.11
Temperature	Degrees Celsius	6.30 – 14.10

Only one well (54B) did not achieve the sample turbidity goal of 50 nephelometric turbidity units (NTU) or less in spring 2002. This well is located to the east of Unkamet Brook in a marshy area. Although well 54B was purged at an extremely low pump setting (approximately 50 milliliters per minute), organic media (e.g., peat-like/organic silt) continued to enter the well resulting in a sample with a high turbidity (987 NTU). GE will continue to attempt to collect lower turbidity samples from this well during future sampling events using low-flow purging and sampling techniques, but the nature of the formation in this area may preclude achievement of the 50 NTU goal.

The collected groundwater samples were submitted to CT&E Environmental Services of Charleston, West Virginia, for laboratory analysis. For all groundwater samples, except those from the wells that were monitored solely for compliance with the GW-2 standards or the natural attenuation parameters (discussed below), the samples were submitted for analysis of the following parameters using the associated EPA methods:

PARAMETER	USEPA METHOD
Volatile Organic Compounds (VOCs)	8260B
Semi-Volatile Organic Compounds (SVOCs)	8270C
Filtered and Unfiltered Polychlorinated Biphenyls (PCBs)	8082
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290
Pesticides and Herbicides	8080 and 8151
Filtered and Unfiltered Metals	6010B, 7000A, and 7470A
Cyanide	9014
Sulfide	9034

For groundwater samples collected from wells that are monitored solely for compliance with the GW-2 standards, the samples were submitted for analysis of the VOCs listed in GE's FSP/QAPP, as well as five select compounds listed as SVOCs in the FSP/QAPP (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene), using EPA Method 8260B, in accordance with a letter from GE to EPA dated February 20, 2002.

For groundwater samples collected from wells that are sampled for natural attenuation parameters, the samples were submitted for analysis of VOCs using Method 8260B (these samples were also inadvertently analyzed for the five select SVOCs applicable to the GW-2 wells as identified above) and for the following additional parameters using the associated EPA Methods.

PARAMETER	USEPA METHOD
Alkalinity (total)	310
Chloride	325
Dissolved Organic Carbon	360
Ethane, Ethene, Methane	8319
Iron	6000
Nitrate Nitrogen	353.1
Nitrite Nitrogen	354.1
Sulfate (turbidimetric)	375

Following receipt of the analytical data from the laboratory, the data were validated in accordance with the FSP/QAPP. The results of this data validation process are presented in Appendix G. The results of the above analyses, which also incorporate the validation procedure, are discussed in Section 4 below.

3.5 LNAPL Monitoring and Removal

The LNAPL monitoring and recovery activities performed by GE within GMA 3 in spring 2002 were as follows:

- Routine measurement of groundwater elevations and NAPL thickness (if present);
- Manual removal of LNAPL if measured at a thickness equal to or exceeding 0.5 feet; and
- Operation of the automated skimmer system at recovery well 51-21.

Routine LNAPL monitoring was conducted at the monitoring wells listed in Table 4 on a quarterly, monthly, and/or weekly basis (as specified in Table 3 of the Baseline Monitoring Program Addendum). Table 4 also summarizes the

spring 2002 LNAPL removal data on a monthly basis, and Table C-1 (Appendix C) presents a summary of all of the spring 2002 LNAPL measurements and removal quantities (when performed) for each well at GMA 3. Approximately 150 gallons of LNAPL were recovered between January and June 2002 at GMA 3. Of this total, approximately 144 gallons were removed by the automated skimmer system at well 51-21, and the remaining six gallons were manually recovered during routine monitoring events. Since 1997, over 500 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

Figure 7 depicts the historical maximum extent of LNAPL observed at GMA 3. That figure represents a compilation of past investigations and shows the maximum lateral extent of LNAPL that has been observed and documented in prior GE reports, and is not indicative of current conditions. Figure 8 indicates the extent of LNAPL observed in April 2002. As shown on those two figures, the lateral extent of LNAPL has decreased since the onset of the periodic LNAPL monitoring and recovery activities being conducted in this area. DNAPL was not encountered in any of the monitoring wells gauged in during spring 2002.

In addition to the routine NAPL monitoring and recovery activities, on August 19, 2002, GE collected NAPL samples from three wells (51-15, 51-19, and 59-3R) for analysis of VOCs, SVOCs, PCBs, and physical characteristics (i.e., specific gravity, viscosity, and interfacial tension). The results of these analyses are discussed in Section 4.4.

4. Analytical Results

4.1 General

This section presents a description of the spring 2002 groundwater analytical results. A summary of the full spring 2002 data set is provided in Appendix E, while the data validation report on these results is presented in Appendix G. (The data presented in Appendix E also incorporate the results of the data validation process.) Tables 6, 7, and 8 summarize the results for detected constituents in groundwater relative to the MCP Method 1 GW-2 and GW-3 standards and the MCP UCLs for groundwater, respectively. An assessment of these results relative to those groundwater quality standards and UCLs is provided in Section 5. Finally, Table 9 provides a summary of the detected natural attenuation parameters, and Table 10 summarizes the results of the recent analyses of NAPL samples.

4.2 Groundwater Quality Results

4.2.1 VOC Results

Groundwater samples from all 16 monitoring wells were analyzed for VOCs during the spring 2002 sampling event. The VOC analytical results for all constituents analyzed are summarized in Appendix E. No VOCs were detected in six of the groundwater samples, while 13 individual VOCs were observed in one or more of the remaining ten samples. The most commonly observed VOCs were benzene (detected in five groundwater samples) and chlorobenzene (detected in seven groundwater samples). Total VOC concentrations ranged from non-detect (in six samples) to 24.0 parts per million (ppm) in natural attenuation monitoring well 16A.

4.2.2 SVOC Results

Groundwater samples from four monitoring wells were analyzed for all SVOCs during the spring 2002 sampling event. In addition, samples from 12 other wells (four GW-2 monitoring wells and eight natural attenuation wells) were analyzed for five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene) using EPA Method 8260B. The SVOC analytical results for all constituents analyzed are summarized in Appendix E. Nine individual SVOC constituents were observed in the sample from well 78B-R, while no SVOCs were detected in the other three groundwater samples that were analyzed for the entire Appendix IX SVOC list, plus benzidine and 1,2-diphenyhydrazine. In regard to the samples that were analyzed only

in Appendix E. Nine individual inorganic constituents were detected in one or more of the unfiltered samples, while eight inorganic constituents were detected in one or more filtered samples. The most commonly observed inorganics were barium (detected in three unfiltered and two filtered samples), arsenic (detected in two unfiltered samples, but no filtered samples), and lead (detected in two unfiltered samples, but no filtered samples).

4.3 Natural Attenuation Parameter Results

Groundwater samples from eight monitoring wells were analyzed for natural attenuation parameters. The analytical results for these parameters are provided in Table 9 and Appendix E. Provided below is a summary of the natural attenuation parameter results.

Parameter	Number of Detects	Result (ppm)
Alkalinity	8	24 – 570
Chloride	8	1.8 – 1,700
Dissolved Organic Carbon	8	2.1 – 59
Ethane	1	ND – 0.017
Ethene	2	ND – 0.15
Iron	2	ND – 1.3
Methane	7	0.023 – 12
Nitrate (Nitrogen)	8	0.014 – 1.0
Nitrite (Nitrogen)	1	ND – 0.003
Sulfate (turbidimetric)	8	1.3 – 42

GE will track changes in concentrations of natural attenuation parameters during the course of the baseline monitoring program, but has not included an assessment of these results in this baseline interim summary report. In the future, GE may prepare a separate report containing a detailed assessment of observed natural attenuation processes at GMA 3.

4.4 NAPL Analytical Results

LNAPL samples from three monitoring wells (51-15, 51-19, and 59-3R, located in the central-northern, eastern, and southwestern portions of the GMA 3 LNAPL area, respectively) were analyzed for VOCs, SVOCs, PCBs, and

physical characteristics (i.e., specific gravity, viscosity, and interfacial tension). The LNAPL analytical results are summarized in Table 10 and the complete data set is included as Appendix D.

No VOCs were detected in the LNAPL sample from well 59-3R, while two individual VOCs (ethylbenzene and total xylenes) were observed in the remaining two samples. Total VOC concentrations ranged from non-detect (in the well 59-3R sample) to 177 ppm in well 51-15. The detected ethylbenzene concentrations ranged from 29 ppm in well 51-19 to 110 ppm in well 51-15, while total xylenes were detected at concentrations of 87 ppm in well 51-19 and 67 ppm in well 51-15.

Nine individual SVOC constituents were observed in the LNAPL samples, including six polynuclear aromatic hydrocarbons (PAHs) -- benzoic acid, 1,4-dichlorobenzene, and 1,2,4-trichlorobenzene. No PAHs were detected in the sample from well 59-3R, where only one SVOC (1,4-dichlorobenzene) was observed. Total SVOC concentrations ranged from an estimated concentration of 31 ppm in well 59-3R to 10,000 ppm in well 51-15. The SVOCs detected in well 51-19 were similar (i.e., primarily PAHs) to those observed in well 51-15, although the concentrations were approximately an order of magnitude less in well 51-19 (1,542 ppm total SVOCs)

PCBs were detected in each of the three LNAPL samples. Total PCB concentrations ranged from 25.8 ppm (in the sample from well 51-15) to 100 ppm (in the well 51-19 sample).

The specific gravity of the LNAPL samples was measured between 0.8957 and 0.9583 at 60 degrees Fahrenheit, and the LNAPL viscosity was between 2.338 and 3.018 millimeters^2/second at 100 degrees Celsius. The sample from well 51-15 exhibited the greatest specific gravity and was the least viscous of the three samples. The physical characteristics of the other two NAPL samples were similar to each other. The interfacial tension results did not vary significantly between the three LNAPL samples; values ranged from 260.7 millinewtons/meter (mN/m) in well 59-3R to 289.0 mN/m in well 51-15.

5. Assessment of Results

5.1 General

This report constitutes the first interim groundwater quality/NAPL recovery monitoring report submitted since commencement of the GMA 3 baseline groundwater monitoring program. Conclusions developed herein are based on the laboratory results and field measurements obtained during the spring 2002 groundwater sampling event, supplemented with historical groundwater analytical data when available.

5.2 Evaluation of NAPL Monitoring and Recovery Activities

This section discusses the effectiveness of the existing NAPL monitoring and recovery program at GMA 3 and proposes certain modifications to optimize operations in the future. In general, the ongoing NAPL recovery operations at GMA 3 have proven effective in removing LNAPL from the subsurface and in preventing LNAPL migration into the Housatonic River.

The historical maximum extent of measurable LNAPL at GMA 3 is illustrated on Figure 7, while the extent of LNAPL observed in April 2002 is shown on Figure 8. These figures show a decrease in the extent of measurable LNAPL observed in spring 2002 compared to the prior maximum extent. This reduction may, at least in part, be attributable to GE's NAPL recovery program, which includes an automatic skimmer system in well 51-21 and routine manual recovery of LNAPL at surrounding locations. However, it may also reflect the fact that NAPL presence tends to fluctuate at certain monitoring wells within the known LNAPL areas. Continued monitoring will be performed to further assess the extent of LNAPL in this area.

Overall, this NAPL monitoring and recovery program appears to be effective in preventing the migration of NAPL and only minor enhancements are suggested, primarily to make the NAPL monitoring program in this area consistent with that conducted at GMA 1 (i.e., performance of a semi-annual NAPL bailing round and adoption of a uniform NAPL removal criterion). These modifications are discussed in detail in Section 6.1.

5.3 Groundwater Quality

The analytical results from the spring 2002 groundwater sampling event were compared to the applicable MCP Method 1 GW-2 and GW-3 standards and to the UCLs for groundwater. These comparisons are summarized in Tables 6, 7, and 8 (for the GW-2 standards, GW-3 standards, and UCLs, respectively) and are discussed in the following subsections.

5.3.1 Groundwater Results Relative to GW-2 Performance Standards

Groundwater samples were scheduled to be collected from 10 GW-2 monitoring wells (16B-R, 51-14, GMA3-2, GMA3-4, GMA3-5, GMA3-6, GMA3-7, GMA3-8, GMA3-9, and OBG-2); however, only five of these monitoring wells (16B-R, 51-14, GMA3-2, GMA3-4, and GMA3-6) were sampled in spring 2002 due to access-related issues and the timing of EPA approval to install new wells relative to the sampling schedule. The spring 2002 groundwater analytical results for all detected constituents subject to MCP Method 1 GW-2 standards and a comparison of those results with the applicable MCP Method 1 GW-2 standards are presented in Table 6. As shown in Table 6, none of the spring 2002 sample results from the GW-2 monitoring wells exceeded the GW-2 standards. In addition, none of the GW-2 wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells and as a trigger level for the proposal of interim response actions).

5.3.2 Groundwater Results Relative to GW-3 Performance Standards

A total of 14 monitoring wells at GMA 3 (6B, 54B, 78B-R, 82B, 89, 90, 95, 111, 114, GMA3-1, GMA3-3, GMA3-5, GMA3-6, and GMA3-7) are designated as GW-3 monitoring wells; however, only four of these monitoring wells (6B, 54B, 78B-R, and GMA3-6) were sampled in spring 2002 due to access and scheduling issues. The spring 2002 groundwater analytical results for all detected constituents and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 7.

In comparing the baseline monitoring results for PCBs and inorganics to the Method 1 GW-3 standards, GE has used the results from the filtered samples, with the exception of cyanide analyses for which filtered samples were not collected. EPA has previously agreed to this approach in a letter to GE dated January 2, 2002. Accordingly, the unfiltered sample results for these constituents were used only for comparison to the MCP UCLs.

The comparisons set forth in Table 7 indicate that the only exceedance of the Method 1 GW-3 standards was for chlorobenzene in one well. Specifically, chlorobenzene was detected in the sample from GW-3 perimeter well 78B-R at a concentration of 2.5 ppm, which exceeds the Method 1 GW-3 standard of 0.5 ppm. Well 78B-R is located to the south of the former interior landfill and adjacent to Unkamet Brook

The SOW requires that interim response actions must be proposed for baseline sampling results which exceed Method 1 GW-3 standards at downgradient perimeter monitoring wells, in which: (a) such an exceedence had not previously been detected, or (b) there was a previous exceedance of the Method 1 GW-3 standard and the groundwater concentration is greater than or equal to 100 times the GW-3 standard (if the exceedance was not previously addressed). These interim response actions may include: (1) further assessment activities, such as resampling, increasing the sampling frequency to quarterly, additional well installation, and/or continuing the baseline monitoring program; (2) active response actions; and/or (3) the conduct of a site-specific risk evaluation and proposal of alternative risk-based GW-3 Performance Standards.

For well 78B-R, where the Method 1 GW-3 standard for chlorobenzene was exceeded, no previous VOC data are available. However, this well is located in the vicinity of a known chlorobenzene plume. GE's proposed response action to address this exceedance is to continue sampling this well, as discussed further in Section 6.2.3.

5.3.3 Comparison to Upper Concentration Limits

In addition to comparing the spring 2002 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, all detected constituents have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)), as presented in Table 8. The results shown on Table 8 indicate that two constituents (chlorobenzene and unfiltered PCBs) exceeded their applicable UCLs. The UCL for chlorobenzene is 10 ppm, which was exceeded at natural attenuation well 16A at a concentration of 16 ppm. For unfiltered PCBs, the UCL is 0.005 ppm, which was exceeded at well 78B-R (concentration of 0.0073 ppm).

The screened interval of well 16A is positioned approximately 45 to 50 feet bgs. The analytical results for chlorobenzene were reviewed from nearby shallow wells, including wells 6B, 16B-R, and 51-14, to assess whether the elevated chlorobenzene levels may be present nearer to the surface in this area. Those results indicate that the chlorobenzene present in well 16A is associated with the mid-level groundwater unit, which is consistent with prior investigations which indicate that the VOC plume is primarily present in the A-series wells to the south of the former

Waste Stabilization Basin. As illustrated in Appendix F, the concentrations of VOCs have decreased significantly from their historical high levels.

For well 78B-R, PCB results from surrounding wells 6B, 54B, and GMA3-6 were reviewed to identify if the presence of PCBs is widespread within the upper groundwater unit or confined to the area near well 78B-R. Although trace amounts of PCBs (0.000078 ppm) were detected in well 54B, none were detected in wells 6B or GMA3-6.

5.4 Assessment of Groundwater Analytical Results

Graphs illustrating historical concentrations of total VOCs (and, in some cases, benzene and chlorobenzene) and filtered and unfiltered PCBs, along with the spring 2002 concentrations, are provided in Appendix F for all wells sampled in spring 2002 that have been previously sampled and analyzed for those constituents.

Since the spring 2002 monitoring event constitutes the initial sampling event for the GMA 3 baseline monitoring program, the amount of data available to assess any trends in constituent concentrations is limited in some wells. Furthermore, the data available in spring 2002 were limited by the fact that GE was unable to sample the majority of the downgradient locations due to delays in obtaining access agreements. However, based on a review of the Concentration vs. Time graphs presented in Appendix F, it appears that concentrations of total VOCs (as well as benzene and chlorobenzene) and unfiltered and filtered PCBs have decreased in most of the wells where prior data are available.

6. Proposed Program Modifications

This section proposes modifications to the NAPL and baseline groundwater quality monitoring programs at GMA 3.

6.1 NAPL Monitoring and Recovery Program Modifications

The NAPL monitoring and recovery program that is in place at GMA 3 appears to be effective in identifying and reducing the extent of NAPL in the area of Buildings 51 and 59. GE plans to continue the existing program (i.e., operation of the automated system and routine monitoring and manual removal at other monitoring wells); however, certain minor modifications are proposed to make the GMA 3 NAPL monitoring program procedures consistent with those employed at other NAPL areas at the Site, specifically those within GMA 1.

GE proposes to modify the criteria for conducting NAPL removal. Currently, NAPL at GMA 3 is manually removed when the measured thickness is 0.5 feet or greater. The proposed modification is to apply the criteria that have been proposed for the GMA 1 NAPL areas – i.e., to manually remove LNAPL when the measured thickness is 0.25 feet or greater and to perform DNAPL removal (if it is ever encountered at this GMA) when the measured thickness is 0.5 feet or greater. These criteria will be applied whenever NAPL is encountered during a routine monitoring event at GMA 3, except as specified below in connection with GE's plan for a semi-annual NAPL bailing/monitoring round.

In addition, GE plans to incorporate a semi-annual NAPL bailing/monitoring round at GMA 3, similar to that currently being conducted at GMA 1. Specifically, approximately one week prior to the spring and fall quarterly groundwater elevation monitoring events, GE will remove all NAPL present in any GMA 3 well, regardless of thickness. Those wells will be monitored again as part of the quarterly monitoring event, and the data obtained will be utilized to estimate the current thickness of LNAPL in the area. The purpose for performing the bailing and monitoring round is to confirm that the NAPL present in a well is also present in the surrounding formation, and is not remnant oil which may have accumulated in the well for an indeterminate amount of time if the thickness was below the criterion for manual removal. As an added benefit, this uniform removal procedure will provide an equal basis for comparison with future NAPL monitoring data.

If NAPL is observed during the spring or fall quarterly monitoring event in a well that was not addressed during the bailing round, GE will remove the NAPL (regardless of thickness) and return to that well during the following week

to gauge the NAPL thickness and groundwater elevation. GE will use the information obtained during that supplemental monitoring round in its assessment of the extent of NAPL at GMA 3.

6.2 Baseline Groundwater Quality Monitoring Program Modifications

6.2.1 Low-Flow Sample Collection

To address concerns regarding potential sample volatilization in peristaltic pumps, GE collected VOC samples with a bailer from any well where a peristaltic pump was utilized for purging and sampling of non-volatile analytical parameters. However, based on discussions with EPA, it was agreed that it would be preferable to collect all samples under low-flow conditions, rather than using a bailer, to avoid possibly increasing sample turbidity by removing the pump apparatus and introducing a bailer into the wells. Therefore, bailers will no longer be used to collect VOC samples from wells purged with a peristaltic pump, provided that recharge to the well is adequate to utilize this method. Rather, all samples will be collected via the same pump used during purging. GE will continue to use submersible, bladder, and/or peristaltic pumps as its preferred method to collect water samples for laboratory analysis during future sampling events. Bailers may still be utilized at certain wells if the quantity of water available is insufficient to utilize a low-flow pumping system. This procedure will be clarified in the next update to the FSP/QAPP.

6.2.2 Additional Well Installations and Efforts to Obtain Access

As discussed in Sections 2.7 and 3.2, GE has not yet installed seven wells (39B-R, GMA3-1, GMA3-3, GMA3-5, GMA3-7, GMA3-8, and GMA3-9) that were approved for inclusion in the baseline monitoring program. GE will shortly install five of these wells -- 39B-R, GMA3-7, GMA3-8, GMA3-9, and GMA3-3 (at the revised location approved by EPA). Proposed well GMA3-5 is in an area to which GE does not have access, and EPA and GE have agreed that installation of well GMA3-1 may be deferred until after completion of future remediation actions in this area, including the re-routing of Unkamet Brook.

GE will also continue its efforts to obtain access agreements for the non-GE-owned properties between the railroad tracks and the river to install well GMA3-5 and to sample the numerous existing wells in this area. As discussed in Section 2.7, however, certain of these property owners have adopted lengthy application processes for obtaining access agreements. Accordingly, it seems unlikely that GE will be able to obtain the necessary access agreements prior to the currently scheduled October 2002 groundwater sampling event. Thus, as previously discussed with EPA, GE proposes not to conduct that sampling event if access to the areas of these wells cannot be obtained by September

30, 2002. In that case, GE would continue with the NAPL and groundwater elevation monitoring and would ensure that it conducts a minimum of four complete semi-annual baseline groundwater quality sampling events after obtaining the necessary access agreements.

6.2.3 Response to Exceedance of MCP Method 1 GW-3 Standard

As discussed in Sections 5.3.2, chlorobenzene was detected above the MCP Method 1 GW-3 standard at perimeter well 78B-R. As such, the SOW requires GE to conduct some form of action to address this exceedance. Since this report represents the initial baseline monitoring program report for GMA 3, GE plans to conduct continued monitoring, which is one of several acceptable actions provided in the CD. By conducting continued monitoring, GE will be able to establish trends within the data (e.g., decreasing concentration with time, fluctuations in concentrations with groundwater levels) and potentially identify whether or not these exceedances are localized occurrences associated with the specific well(s). If the fall 2002 sampling round is omitted due to access issues at the non-GE-owned properties, GE will still collect a sample from well 78B-R for analysis of VOCs and PCBs (which were detected at a level above the UCLs in this well).

7. Schedule of Future Activities

7.1 General

Schedule requirements related to the baseline monitoring programs were generally identified in Attachment H to the SOW, and further clarified in the GMA 3 Baseline Monitoring Proposal. This section primarily addresses scheduling issues relating to the fall 2002 monitoring event.

7.2 Field Activities Schedule

GE will install wells 39B-R, GMA3-3, GMA3-7, GMA3-8, and GMA3-9 within the next month or so. (As noted above, well GMA3-1 is located in marsh/swamp area which limits access for constructing the well; and EPA and GE have agreed to defer installation of this well.) In addition, GE will install well GMA3-5 once an access agreement has been signed by the property owner. GE will also continue its efforts to obtain property access agreements in order to gauge and sample wells located on other non-GE owned properties southeast of the railroad.

In accordance with the approved semi-annual monitoring schedule, the fall 2002 sampling event is currently scheduled for October 2002. However, as discussed in Section 6.2.2, GE proposes to defer performance of this sampling event if access to all wells cannot be obtained by September 30, 2002. To supplement the existing hydrogeologic database, GE will perform the fall 2002 quarterly groundwater elevation monitoring event in October 2002 at the wells to which it has access, and will also collect samples for VOC and PCB analyses from well 78B-R, regardless of the status of the outstanding property access issues. Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

GE will also continue to perform routine NAPL monitoring and recovery activities at the wells that are included in the NAPL monitoring program. In addition, as proposed in Section 6.1, GE will conduct a NAPL bailing round approximately one week prior to the fall 2002 quarterly groundwater elevation monitoring event.

7.3 Reporting Schedule

GE will submit the fall 2002 Baseline Groundwater Quality Interim Report for GMA 3 by February 28, 2003, in accordance with the previously approved reporting schedule. If the October 2002 groundwater sampling event is not

conducted due to property access issues as proposed in Section 6.2.2, that report will primarily discuss NAPL-related issues at GMA 3, as well as presenting a summary of other activities performed in fall 2002 (i.e., well installations, groundwater elevation monitoring, and an update on progress to obtain property access). Finally, GE will continue to provide the results of its ongoing groundwater monitoring activities and NAPL monitoring and recovery efforts in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables

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TABLE 1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
MONITORING PROGRAM SUMMARY

Well Number	Monitoring Well Usage	Well Utilized in Spring 2002	Comments
2A	Sampling: Natural Attenuation	Yes	
6B	Sampling: GW-3 Perimeter	Yes	
16A	Sampling: Natural Attenuation	Yes	
16B-R	Sampling: GW-2 Sentinel/Natural Attenuation	Yes	
16C	Sampling: Natural Attenuation	Yes	
16E	Sampling: Natural Attenuation	Yes	
34B	Monitoring: Groundwater Elevation/NAPL	Yes	
35B	Monitoring: Groundwater Elevation/NAPL	Yes	
39B	Sampling: Natural Attenuation	No	Well found to be obstructed; replacement well 39B-R to be installed
39D	Sampling: Natural Attenuation	Yes	
39E	Sampling: Natural Attenuation	Yes	
43A	Sampling: Natural Attenuation	Yes	
43B	Sampling: Natural Attenuation	Yes	
50B	Monitoring: Groundwater Elevation	Yes	
51-05	Monitoring: Groundwater Elevation/NAPL	Yes	
51-06	Monitoring: Groundwater Elevation/NAPL	Yes	
51-07	Monitoring: Groundwater Elevation/NAPL	Yes	
51-08	Monitoring: Groundwater Elevation/NAPL	Yes	
51-09	Monitoring: Groundwater Elevation/NAPL	Yes	
51-11	Monitoring: Groundwater Elevation/NAPL	Yes	
51-12	Monitoring: Groundwater Elevation/NAPL	Yes	
51-13	Monitoring: Groundwater Elevation/NAPL	Yes	
51-14	Sampling: GW-2 Sentinel	Yes	

TABLE 1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
MONITORING PROGRAM SUMMARY

Well Number	Monitoring Well Usage	Well Utilized in Spring 2002	Comments
51-15	Monitoring: Groundwater Elevation/NAPL	Yes	
51-16R	Monitoring: Groundwater Elevation/NAPL	Yes	Replacement for well 51-16; installed February 2002
51-17	Monitoring: Groundwater Elevation/NAPL	Yes	
51-18	Monitoring: Groundwater Elevation/NAPL	Yes	
51-19	Monitoring: Groundwater Elevation/NAPL	Yes	
51-21	Monitoring: Groundwater Elevation/NAPL & NAPL Recovery	Yes	
54B	Sampling: GW-3 Perimeter	Yes	
59-01	Monitoring: Groundwater Elevation/NAPL	Yes	
59-03R	Monitoring: Groundwater Elevation/NAPL	Yes	Replacement for well 59-03; installed February 2002
59-07	Monitoring: Groundwater Elevation/NAPL	Yes	
78B-R	Sampling: GW-3 Perimeter	Yes	
82B	Sampling: GW-3 Perimeter	No	Property access agreement not yet obtained
89A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
89B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
89D	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
90A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
90B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
95A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
95B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
95C	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
111A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
111B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
114A	Sampling: Natural Attenuation	No	Property access agreement not yet obtained

TABLE 1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
MONITORING PROGRAM SUMMARY

Well Number	Monitoring Well Usage	Well Utilized in Spring 2002	Comments
114B	Sampling: GW-3 Perimeter/Natural Attenuation	No	Property access agreement not yet obtained
114C	Sampling: Natural Attenuation	No	Property access agreement not yet obtained
GMA3-1	Sampling: GW-3 Perimeter	No	Proposed location in marsh; installation to be deferred
GMA3-2	Sampling: GW-2 Sentinel	Yes	
GMA3-3	Sampling: GW-3 Perimeter	No	Physical access restrictions prevent installation; well to be re-located
GMA3-4	Sampling: GW-2 Sentinel	Yes	
GMA3-5	Sampling: GW-2 Sentinel/GW-3 Perimeter	No	Property access agreement not yet obtained
GMA3-6	Sampling: GW-2 Sentinel/Source Area Sentinel	Yes	
GMA3-7	Sampling: GW-2 Sentinel/GW-3 Perimeter	No	Well location not approved in time for spring monitoring event
GMA3-8	Sampling: GW-2 Sentinel	No	Well location not approved in time for spring monitoring event
GMA3-9	Sampling: GW-2 Sentinel	No	Well location not approved in time for spring monitoring event
OBG-2	Sampling: GW-2 Sentinel	No	Property access agreement not yet obtained
UB-MW-10	Monitoring: Groundwater Elevation/NAPL	Yes	
UB-PZ-1	Monitoring: Groundwater Elevation/NAPL	Yes	
UB-PZ-2	Monitoring: Groundwater Elevation/NAPL	Yes	
UB-PZ-3	Monitoring: Groundwater Elevation/NAPL	Yes	

Notes:

1. Monitoring consists of periodic depth to water and NAPL thickness measurements, if present. NAPL will be removed from a well if a thickness of greater than 0.5 feet is observed during a monitoring event (except at well 51-21, which is equipped with an automated skimmer).
2. Sampling consists of semi-annual sampling and analysis and quarterly groundwater elevation measurements. Analytical parameters based on well designation (i.e., GW-2 Sentinel, GW-3 Perimeter, Source Area Sentinel, &/or Natural Attenuation).

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
MONITORING WELL CONSTRUCTION SUMMARY

Well Number	Survey Coordinates		Well Diameter (in)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BMP)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
2A	537005.10	138853.90	1.00	991.50	994.16	45.00	5.00	946.50	941.50
6B	537190.10	138911.70	1.00	991.50	993.01	5.00	7.00	986.50	979.50
16A	536730.50	139115.60	2.00	991.50	991.77	44.00	6.00	947.50	941.50
16B-R	536738.18	139076.37	2.00	991.80	994.87	3.08	10.00	988.72	978.72
16C	536734.00	139112.40	1.00	991.40	991.47	91.00	5.00	900.40	895.40
16E	536730.30	139112.70	1.00	991.40	992.14	144.00	6.00	847.40	841.40
34B	536293.70	138394.20	2.00	1,000.50	1,000.56	20.00	5.00	980.50	975.50
39D	536948.40	138857.90	4.00	992.34	992.16	56.00	10.00	936.34	926.34
39E	536932.10	138851.00	4.00	992.34	992.21	225.00	10.00	767.34	757.34
43A	538081.20	137905.90	1.00	991.90	993.79	45.00	5.00	946.90	941.90
43B	538081.20	137904.40	1.00	991.90	993.61	15.00	5.00	976.90	971.90
50B	538647.00	139106.20	2.00	989.72	991.72	8.50	5.00	981.22	976.22
54B	537852.80	139081.90	2.00	987.30	987.96	8.50	5.00	978.80	973.80
74B	537490.90	138374.90	1.00	996.05	995.54	15.00	5.00	981.05	976.05
78B-R	537551.80	138716.50	2.00	989.11	988.83	1.82	10.00	987.29	977.29
82B	536938.90	139618.40	2.00	987.40	990.08	7.00	3.00	980.40	977.40
89A	536030.80	139413.40	1.00	983.60	985.76	43.00	5.00	940.60	935.60
89B	536031.60	139411.70	2.00	983.10	986.03	4.00	3.00	979.10	976.10
89D	536025.90	139415.70	1.00	984.20	985.42	70.00	5.00	914.20	909.20
90A	536254.90	139765.40	1.00	986.50	988.07	45.00	5.00	941.50	936.50
90B	536251.60	139761.00	2.00	986.50	989.10	8.00	3.00	978.50	975.50
95A	535822.10	139769.60	1.00	985.30	987.18	45.00	5.00	940.30	935.30
95B	535826.80	139770.00	2.00	985.40	988.72	8.00	3.00	977.40	974.40
95C	535823.20	139780.30	1.00	985.30	988.16	95.00	5.00	890.30	885.30
111A	535819.10	139083.00	1.00	995.00	997.57	45.00	5.00	950.00	945.00
111B	535820.40	139083.80	2.00	994.90	996.75	10.00	5.00	984.90	979.90

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
MONITORING WELL CONSTRUCTION SUMMARY

Well Number	Survey Coordinates		Well Diameter (in)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BMP)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
114A	535499.50	139775.20	1.00	983.20	986.16	45.00	5.00	938.20	933.20
114B	535496.90	139796.60	2.00	983.70	984.98	5.00	5.00	978.70	973.70
114C	535500.50	139792.80	1.00	983.70	986.68	88.00	5.00	895.70	890.70
51-05	536750.50	138335.60	2.00	996.91	996.44	5.00	10.00	991.91	981.91
51-06	536937.64	138194.32	2.00	997.57	997.36	5.00	10.00	992.57	982.57
51-07	536843.80	138244.60	2.00	997.26	997.08	5.00	10.00	992.26	982.26
51-08	536677.80	138317.00	2.00	997.39	997.08	5.00	10.00	992.39	982.39
51-09	536563.70	138370.30	2.00	997.76	997.70	5.00	10.00	992.76	982.76
51-11	536860.00	138774.50	2.00	994.62	994.37	5.00	10.00	989.62	979.62
51-12	536497.30	138518.50	2.00	996.83	996.55	5.00	10.00	991.83	981.83
51-13	536917.10	138579.80	2.00	997.68	997.65	5.00	10.00	992.68	982.68
51-14	536771.40	138502.60	2.00	996.93	996.77	5.00	10.00	991.93	981.93
51-15	536808.20	138306.30	2.00	996.68	996.43	5.00	10.00	991.68	981.68
51-16R	536830.20	138347.60	2.00	996.70	996.39	5.00	10.00	991.70	981.70
51-17	536769.90	138377.40	2.00	996.48	996.43	5.00	10.00	991.48	981.48
51-18	536902.90	138463.40	2.00	997.38	997.12	5.00	10.00	992.38	982.38
51-19	536823.20	138414.80	2.00	996.65	996.43	5.00	10.00	991.65	981.65
51-21	536767.70	138442.35	4.00	996.50*	996.35	5.00	10.00	991.50	981.50
59-01	536488.80	138238.60	2.00	997.78	996.72	4.00	20.00	993.78	973.78
59-03R	536501.00	138260.70	2.00	997.82	997.64	7.30	10.00	990.52	980.52
59-07	536517.40	138296.10	2.00	998.27	997.96	4.00	20.00	994.27	974.27
GMA3-2	536596.40	138956.60	2.00	992.25	991.94	5.19	10.00	987.06	977.06
GMA3-4	537044.70	138021.80	2.00	994.94	994.60	3.57	10.00	991.37	981.37
GMA3-6	537021.50	138342.30	2.00	997.74	997.49	8.00	10.00	989.74	979.74
OBG-2	537209.10	139475.80	3.00	992.24	992.20	3.00	11.40	989.24	977.84
UB-MW-10	536908.10	138278.30	1.00	996.21	995.99	8.00	10.00	988.21	978.21

TABLE 2

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
MONITORING WELL CONSTRUCTION SUMMARY

Well Number	Survey Coordinates		Well Diameter (in)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft BMP)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)
	Northing	Easting							
UB-PZ-1	536336.80	138383.90	1.00	999.00	999.70	9.00	5.00	990.00	985.00
UB-PZ-2	536726.10	138735.70	1.00	994.40	994.77	4.00	10.00	990.40	980.40
UB-PZ-3	536480.10	138110.00	1.00	998.55	998.15	11.00	5.00	987.55	982.55

NOTES:

1. The listed wells were utilized during fall 2001 for baseline groundwater quality sampling or hydraulic conductivity testing.
2. ft AMSL: Feet above mean sea level
3. ft BGS: Feet below ground surface
4. N/A: Information not available.
5. Ground surface elevation is estimated based on ground surface elevations of surrounding wells.

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
2A	994.16	1/7/2002	9.24	---	0.00	---	0.00	984.92
		4/23/2002	8.55	---	0.00	---	0.00	985.61
6B	993.01	1/7/2002	6.42	---	0.00	---	0.00	986.59
		4/25/2002	6.17	---	0.00	---	0.00	986.84
16B-R	994.87	1/2/02	NM	NM	NM	NM	NM	NA
		4/26/2002	9.30	---	0.00	---	0.00	985.57
34B	1,000.56	1/2/2002	DRY	---	0.00	---	0.00	<990.27
		4/30/2002	14.67	---	0.00	NM	NM	985.89
39E	992.21	1/7/2002	6.96	---	0.00	---	0.00	985.25
		4/25/2002	6.05	---	0.00	---	0.00	986.16
43B	993.61	1/8/2002	6.64	---	0.00	---	0.00	986.97
		4/26/2002	6.02	---	0.00	---	0.00	987.59
50B	991.72	Jan-02	NM	NM	NM	NM	NM	NA
		4/26/2002	3.12	---	0.00	---	0.00	988.60
54B	987.96	1/9/2002	1.30	---	0.00	---	0.00	986.66
		4/29/2002	1.05	---	0.00	---	0.00	986.91
74B	995.54	1/9/2002	7.57	---	0.00	---	0.00	987.97
		Apr-02	NM	NM	NM	NM	NM	NA
78B-R	988.83	Jan-02	NM	NM	NM	NM	NM	NA
		4/25/2002	2.14	---	0.00	---	0.00	986.69
82B	990.08	1/7/2002	5.65	---	0.00	---	0.00	984.43
		Apr-02	NM	NM	NM	NM	NM	NA
89A	985.76	1/8/2002	4.38	---	0.00	---	0.00	981.38
		Apr-02	NM	NM	NM	NM	NM	NA
90A	988.07	1/8/2002	6.39	---	0.00	---	0.00	981.68
		Apr-02	NM	NM	NM	NM	NM	NA
95A	987.18	1/9/2002	7.27	---	0.00	---	0.00	979.91
		Apr-02	NM	NM	NM	NM	NM	NA

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
111B	996.75	1/8/2002	14.50	---	0.00	---	0.00	982.25
		Apr-02	NM	NM	NM	NM	NM	NA
114B	984.98	1/9/2002	6.53	---	0.00	---	0.00	978.45
		Apr-02	NM	NM	NM	NM	NM	NA
51-5	996.44	1/2/2002	12.27	11.42	0.85	---	0.00	984.96
		4/30/2002	10.72	10.63	0.09	NM	NM	985.80
51-6	997.36	1/2/2002	11.55	---	0.00	---	0.00	985.81
		4/30/2002	11.09	---	0.00	NM	NM	986.27
51-7	996.81	1/2/2002	11.20	---	0.00	---	0.00	985.61
	997.08	4/30/2002	11.14	---	0.00	NM	NM	985.94
51-8	997.08	1/2/2002	13.10	11.90	1.20	---	0.00	985.10
		4/30/2002	12.70	11.20	1.50	NM	NM	985.78
51-9	997.70	1/2/2002	9.71	---	0.00	---	0.00	987.99
		4/30/2002	10.25	---	0.00	NM	NM	987.45
51-11	994.66	1/2/2002	7.62	---	0.00	---	0.00	987.04
	994.37	4/30/2002	8.50	---	0.00	NM	NM	985.87
51-12	996.75	1/2/2002	7.84	---	0.00	---	0.00	988.91
	996.55	4/30/2002	7.28	---	0.00	NM	NM	989.27
51-13	997.65	1/2/2002	DRY	---	0.00	---	0.00	<987.40
	997.42	4/30/2002	DRY	---	0.00	NM	NM	<987.41
51-14	996.77	1/2/2002	11.60	---	0.00	---	0.00	985.17
		4/30/2002	10.95	---	0.00	NM	NM	985.82
51-15	996.43	1/2/2002	11.82	11.20	0.62	---	0.00	985.19
		4/30/2002	10.71	10.53	0.18	NM	NM	985.89
51-16/51-16R	996.46	1/2/2002	9.50	---	0.00	---	0.00	986.96
	996.39	4/30/2002	10.51	10.50	0.01	NM	NM	985.89
51-17	996.43	1/2/2002	11.62	---	0.00	---	0.00	984.81
		4/30/2002	11.52	10.28	1.24	NM	NM	986.06

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
51-18	997.31	1/2/2002	12.05	---	0.00	---	0.00	985.26
	997.12	4/30/2002	11.13	---	0.00	NM	NM	985.99
51-19	996.50	1/2/2002	11.92	11.25	0.67	---	0.00	985.20
	996.43	4/30/2002	11.21	10.51	0.70	NM	NM	985.87
51-21	996.35	1/2/2002	15.34	15.33	0.01	---	---	981.02
		4/24/2002	15.72	---	<0.01	---	---	980.63
59-1	996.72	1/2/2002	DRY	---	0.00	---	0.00	<986.15
	997.52	4/30/2002	DRY	---	0.00	NM	NM	<986.20
59-3/59-3R	997.79	1/2/2002	13.40	12.65	0.75	---	0.00	985.09
	997.64	4/30/2002	12.80	11.79	1.01	NM	NM	985.78
59-7	997.96	1/2/2002	13.45	12.92	0.53	---	0.00	985.00
		4/30/2002	12.77	12.00	0.77	NM	NM	985.91
GMA3-2	991.94	Jan-02	NM	NM	NM	NM	NM	NA
		4/26/2002	8.87	---	0.00	---	0.00	983.07
GMA3-4	994.60	Jan-02	NM	NM	NM	NM	NM	NA
		4/23/2002	7.35	---	0.00	---	0.00	987.25
GMA3-6	997.49	Jan-02	NM	NM	NM	NM	NM	NA
		4/25/2002	11.30	---	0.00	---	0.00	986.19
OBG-2	992.24	1/7/2002	5.61	---	0.00	---	0.00	986.63
		Apr-02	NM	NM	NM	NM	NM	NA
UB-MW-10	996.11	1/2/2002	10.73	---	0.00	---	0.00	985.38
		4/30/2002	10.00	---	0.00	---	0.00	986.11
UB-PZ-1	999.70	1/2/2002	DRY	---	0.00	---	0.00	<986.45
		4/30/2003	DRY	---	0.00	NM	NM	<986.50
UB-PZ-2	994.77	1/2/2002	10.10	---	0.00	---	0.00	984.67
		4/30/2003	9.42	---	0.00	NM	NM	985.35
UB-PZ-3	998.15	1/2/2002	13.37	13.11	0.26	---	0.00	985.02
		4/30/2002	12.45	12.44	0.01	NM	NM	985.71

TABLE 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ELEVATION DATA - JANUARY AND APRIL 2002

Well Number	Measuring Point Elevation (ft AMSL)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	DNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)
Staff Gauge 3	985.53	4/16/2002	1.94	---	---	---	---	987.47

NOTES:

1. --- Indicates LNAPL or DNAPL was not present in a mesurable quantity
2. ft AMSL - Feet Above Mean Sea Level
3. ft BMP - Feet Below Measuring Point
4. ft - feet
5. NA - Information not available.
6. NM - Depth to groundwater not measured during the month of the date shown.
7. Dry - Indicates that groundwater was not present in the well at the time measurements were conducted.
8. A Staff Gauge reading of 0.00 feet corresponds to an elevation of 985.53 feet AMSL. The Depth to Water value shown above for this gauge refers to feet above/below (+/-) the datum rather than feet BMP.
9. The measuring points of several wells were altered at several monitoring wells as a result of well repair activities performed between the January and April monitoring events. In these cases, the measuring point elevations utilized for each monitoring event are listed.

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MEASUREMENTS AND RECOVERY - JANUARY THROUGH JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	Daily LNAPL Removal Per Well (liters)	Monthly LNAPL Removal for All Wells (total) (liters)
51-15	996.43	1/2/2002	11.82	11.20	0.62	985.19	0.380	222.39
51-19	996.50	1/2/2002	11.92	11.25	0.67	985.20	0.410	
51-21	996.35	1/2/2002	15.34	15.33	0.01	981.02	0.000	
59-3	997.79	1/2/2002	13.40	12.65	0.75	985.09	0.460	
59-7	997.96	1/2/2002	13.45	12.92	0.53	985.00	0.325	
51-5	996.44	1/2/2002	12.27	11.42	0.85	984.96	0.520	
51-8	997.08	1/2/2002	13.10	11.90	1.20	985.10	0.740	
UB-PZ-3	998.15	1/2/2002	13.37	13.11	0.26	985.02	0.000	
51-19	996.50	1/7/2002	11.90	11.35	0.55	985.11	0.000	
59-3	997.79	1/7/2002	13.59	12.65	0.94	985.07	0.000	
59-7	997.96	1/7/2002	13.47	12.98	0.49	984.95	0.000	
51-5	996.44	1/7/2002	12.29	11.34	0.95	985.03	0.000	
51-8	997.08	1/7/2002	13.29	11.94	1.35	985.05	0.000	
51-15	996.43	1/8/2002	12.14	11.31	0.83	985.06	0.000	
51-21	996.35	1/9/2002	16.46	---	<0.01	979.89	109.777	
51-21	996.35	1/16/2002	16.58	16.55	0.03	979.80	0.000	
51-21	996.35	1/23/2002	15.63	16.58	0.05	980.77	0.000	
51-21	996.35	1/31/2002	16.87	16.49	0.38	979.83	109.777	
59-7	997.96	2/5/2002	14.08	12.91	1.17	984.97	0.000	3.39
51-21	996.35	2/6/2002	16.46	16.45	0.01	979.90	0.000	
51-15	996.43	2/12/2002	11.79	11.23	0.56	985.16	0.350	
51-17	996.43	2/12/2002	12.25	11.03	1.22	985.31	0.750	
51-19	996.50	2/12/2002	11.90	11.33	0.57	985.13	0.350	
59-7	997.96	2/12/2002	13.56	12.73	0.83	985.17	0.510	
51-5	996.44	2/12/2002	12.36	11.54	0.82	984.84	0.505	
51-8	997.08	2/12/2002	13.43	11.94	1.49	985.04	0.920	
UB-MW-10	996.11	2/12/2002	10.81	10.80	0.01	985.31	0.000	
UB-PZ-3	998.15	2/12/2002	---	13.21	0.18	N/A	0.000	
51-21	996.35	2/13/2002	16.40	16.38	0.02	979.97	0.000	
51-21	996.35	2/20/2002	17.38	16.37	1.01	979.91	0.000	
51-16R	996.39	2/22/2002	11.62	11.52	0.10	984.86	0.000	

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MEASUREMENTS AND RECOVERY - JANUARY THROUGH JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	Daily LNAPL Removal Per Well (liters)	Monthly LNAPL Removal for All Wells (total) (liters)
UB-MW-10	996.11	3/11/2002	10.60	10.58	0.02	985.53	0.000	113.47
51-21	996.35	3/13/2002	16.25	16.21	0.04	980.14	109.777	
51-15	996.43	3/25/2002	11.49	11.05	0.44	985.35	0.000	
51-16R	996.39	3/25/2002	11.20	10.99	0.21	985.39	0.000	
51-17	996.43	3/25/2002	12.01	10.80	1.21	985.55	0.745	
51-19	996.50	3/25/2002	11.66	11.03	0.63	985.43	0.390	
59-3R	997.64	3/25/2002	13.21	12.33	0.88	985.25	0.540	
59-7	997.96	3/25/2002	13.66	12.50	1.16	985.38	0.715	
51-5	996.44	3/25/2002	11.81	11.10	0.71	985.29	0.440	
51-8	997.08	3/25/2002	13.11	11.72	1.39	985.26	0.860	
UB-PZ-3	998.15	3/25/2002	13.41	13.40	0.01	984.75	0.000	
51-21	996.35	4/10/2002	15.80	15.79	0.01	980.56	109.774	218.92
51-21	996.35	4/24/2002	15.72	---	<0.01	980.63	105.988	
51-15	996.43	4/30/2002	10.71	10.53	0.18	985.89	0.000	
51-16R	996.39	4/30/2002	10.51	10.50	0.01	985.89	0.000	
51-17	996.43	4/30/2002	11.52	10.28	1.24	986.06	0.757	
51-19	996.43	4/30/2002	11.21	10.51	0.70	985.87	0.379	
59-3R	997.64	4/30/2002	12.80	11.79	1.01	985.78	0.606	
59-7	997.96	4/30/2002	12.77	12.00	0.77	985.91	0.473	
51-5	996.44	4/30/2002	10.72	10.63	0.09	985.80	0.000	
51-8	997.08	4/30/2002	12.70	11.20	1.50	985.78	0.946	
UB-PZ-3	998.15	4/30/2002	12.45	12.44	0.01	985.71	0.000	
51-15	996.43	5/22/2002	10.35	10.22	0.13	986.20	0.000	2.39
51-16R	996.39	5/22/2002	10.19	10.16	0.03	986.23	0.000	
51-19	996.43	5/22/2002	10.41	10.25	0.16	986.17	0.640	
59-3R	997.64	5/22/2002	12.89	11.39	1.50	986.15	0.925	
51-5	996.44	5/22/2002	10.30	10.25	0.05	986.19	0.000	
51-8	997.08	5/22/2002	12.19	10.86	1.33	986.13	0.820	
UB-PZ-3	998.15	5/22/2002	12.31	12.10	0.21	986.04	0.000	
59-7	997.96	5/23/2002	11.74	11.71	0.03	986.25	0.000	

TABLE 4

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MEASUREMENTS AND RECOVERY - JANUARY THROUGH JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	Daily LNAPL Removal Per Well (liters)	Monthly LNAPL Removal for All Wells (total) (liters)
51-21	996.35	6/5/2002	15.55	15.54	0.01	980.81	0.000	2.81
51-15	996.43	6/26/2002	10.62	10.46	0.16	985.96	0.000	
51-16R	996.39	6/26/2002	10.75	10.40	0.35	985.97	0.000	
51-17	996.43	6/26/2002	11.43	10.20	1.23	986.14	0.760	
51-19	996.43	6/26/2002	11.24	10.45	0.79	985.92	0.485	
59-3R	997.64	6/26/2002	12.63	11.60	1.03	985.97	0.635	
59-7	997.96	6/26/2002	11.99	11.90	0.09	986.05	0.000	
51-5	996.44	6/26/2002	10.55	10.51	0.04	985.93	0.000	
51-8	997.08	6/26/2002	12.56	11.05	1.51	985.92	0.930	
UB-PZ-3	998.15	6/26/2002	12.61	12.20	0.41	985.92	0.000	

Total amount of LNAPL Recovered - January through June 2002: 563.36 liters
148.83 gallons

NOTES

1. --- indicates LNAPL was not present in a measurable quantity
2. NA indicates information not available.
3. NM indicates data not measured.
4. NR indicates information not recorded.
5. Several wells were repaired in February 2002, resulting in the development of new measuring point elevations after completion of those activities.
6. ft = Feet
7. ft BMP = Feet Below Measuring Point
8. ft AMSL = Feet Above Mean Sea Level

TABLE 5

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
FIELD PARAMETER MEASUREMENTS - APRIL 2002

Well Number	Turbidity (NTU)	Temperature (degrees Celsius)	pH (standard units)	Specific Conductivity (mS/cm)	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)
2A	45.0	10.62	8.61	0.424	-126.0	3.75
6B	2.0	9.90	7.57	0.858	-135.0	11.11
16A	25.0	11.28	7.63	7.190	-207.0	4.61
16B-R	18.0	8.60	8.24	1.310	-200.0	0.00
16C	17.0	8.78	7.87	0.362	-135.0	5.43
16E	4.0	9.89	8.78	0.137	-46.0	4.20
39D	19.0	10.54	8.55	0.309	-45.0	0.60
39E	4.0	10.50	7.36	0.198	-140.0	0.00
43A	12.0	8.90	8.00	0.800	-160.0	1.20
43B	9.0	9.00	7.90	1.200	-143.0	1.33
51-14	1.0	9.80	6.33	1.480	88.0	5.09
54B	987.0	6.30	6.36	0.260	-48.0	9.45
78B-R	5.0	8.90	7.58	1.110	-204.0	0.00
GMA3-2	10.0	9.30	7.05	7.210	-109.0	0.00
GMA3-4	7.0	14.10	6.77	0.347	83.0	7.87
GMA3-6	2.0	13.30	7.05	1.160	-132.0	0.00

Notes:

1. Measurements collected during spring 2002 GMA 3 baseline monitoring program sampling activities between April 23 and April 29, 2002.
2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
3. NTU - Nephelometric Turbidity Units
4. mS/cm - Millisiemens per centimeter
5. mV - Millivolts
6. mg/L - Milligrams per liter (ppm)

TABLE 6

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-2 Standards	16B-R 04/26/02	51-14 04/23/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02
Volatile Organics						
Benzene	2	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.016	ND(0.0050)	ND(0.0050)
Chlorobenzene	1	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0096
Chloroform	0.4	ND(0.0050) [ND(0.0050)]	0.0034 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	30	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.019	ND(0.0050)	ND(0.0050)
Toluene	6	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.011	ND(0.0050)	ND(0.0050)
Xylenes (total)	6	ND(0.010) [ND(0.010)]	ND(0.010)	0.079 EJ	ND(0.010)	ND(0.010)
Total VOCs	5	ND(0.20) [ND(0.20)]	0.0034 J	0.13 J	ND(0.20)	0.0096
Semivolatile Organics						
1,4-Dichlorobenzene	30	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0037 J	ND(0.0050)	ND(0.010)
Naphthalene	6	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0026 J	ND(0.0050)	ND(0.010)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.

E - Analyte exceeded calibration range.

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	6B 04/25/02	54B 04/29/02	78B-R 04/25/02	GMA3-6 04/25/02
Volatile Organics					
Benzene	7	0.20	ND(0.0050)	2.5	ND(0.0050)
Chlorobenzene	0.5	0.082	ND(0.0050)	2.5	0.0096
Ethylbenzene	4	ND(0.0050)	ND(0.0050)	0.019	ND(0.0050)
Toluene	50	ND(0.0050)	ND(0.0050)	0.0044 J	ND(0.0050)
Vinyl Chloride	40	ND(0.0020)	0.011	ND(0.0020)	ND(0.0020)
Xylenes (total)	50	ND(0.010)	ND(0.010)	0.052 EJ	ND(0.010)
Total VOCs	Not Listed	0.28	0.011	5.1	0.0096
PCBs-Unfiltered					
Aroclor-1248	Not Applicable	ND(0.000065)	ND(0.000065)	0.0056	ND(0.000065)
Aroclor-1254	Not Applicable	ND(0.000065)	0.000078	0.0017	ND(0.000065)
Total PCBs	Not Applicable	ND(0.000065)	0.000078	0.0073	ND(0.000065)
PCBs-Filtered					
Aroclor-1248	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	ND(0.000065)	ND(0.000065)	ND(0.000065)	ND(0.000065)
Semivolatile Organics					
1,4-Dichlorobenzene	8	ND(0.010)	ND(0.010)	0.016 J	ND(0.010)
2-Chlorophenol	40	ND(0.010)	ND(0.010)	0.0060 J	ND(0.010)
2-Methylnaphthalene	3	ND(0.010)	ND(0.010)	0.0074 J	ND(0.010)
Acenaphthene	5	ND(0.010)	ND(0.010)	0.0049 J	ND(0.010)
Dibenzofuran	Not Listed	ND(0.010)	ND(0.010)	0.0046 J	ND(0.010)
Fluorene	3	ND(0.010)	ND(0.010)	0.0041 J	ND(0.010)
Phenanthrene	0.05	ND(0.010)	ND(0.010)	0.0050 J	ND(0.010)
Phenol	30	ND(0.010)	ND(0.010)	0.016	ND(0.010)
Organochlorine Pesticides					
None Detected	--	--	--	--	--
Herbicides					
None Detected	--	--	--	--	--
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.0000000035) X	ND(0.0000000018)	ND(0.0000000027)	ND(0.0000000016)
TCDFs (total)	Not Listed	ND(0.0000000028)	ND(0.0000000018)	ND(0.0000000027)	ND(0.0000000016)
1,2,3,7,8-PeCDF	Not Listed	0.000000014 J	ND(0.0000000025)	ND(0.0000000028) X	ND(0.0000000025)
2,3,4,7,8-PeCDF	Not Listed	0.000000011 J	ND(0.0000000025)	0.0000000053 J	ND(0.0000000019) X
PeCDFs (total)	Not Listed	0.000000026	ND(0.0000000025)	0.000000021	ND(0.0000000025)
1,2,3,4,7,8-HxCDF	Not Listed	0.000000011 J	ND(0.0000000035)	0.000000015 J	ND(0.0000000018) X
1,2,3,6,7,8-HxCDF	Not Listed	0.0000000099 J	ND(0.0000000031)	0.0000000061 J	ND(0.0000000025)
1,2,3,7,8,9-HxCDF	Not Listed	0.000000010 J	ND(0.0000000039)	0.0000000044 J	ND(0.0000000025)
2,3,4,6,7,8-HxCDF	Not Listed	0.0000000091 J	ND(0.0000000035)	0.0000000044 J	ND(0.0000000025)
HxCDFs (total)	Not Listed	0.000000040	ND(0.0000000035)	0.000000055	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDF	Not Listed	0.0000000078 J	ND(0.0000000025)	0.0000000074 J	ND(0.0000000025)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000070) X	ND(0.0000000025)	0.0000000039 J	ND(0.0000000025)
HpCDFs (total)	Not Listed	0.0000000078	ND(0.0000000025)	0.000000011	ND(0.0000000025)
OCDF	Not Listed	0.000000013 J	ND(0.0000000059)	0.0000000068 J	ND(0.0000000050)
Total Furans	Not Listed	0.000000087	ND(0.0000000059)	0.000000094	ND(0.0000000050)

(See Notes on Page 3)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	6B 04/25/02	54B 04/29/02	78B-R 04/25/02	GMA3-6 04/25/02
Dioxins					
2,3,7,8-TCDD	Not Listed	ND(0.0000000042) X	ND(0.0000000035)	ND(0.0000000026)	ND(0.0000000026)
TCDDs (total)	Not Listed	ND(0.0000000033)	ND(0.0000000035)	ND(0.0000000032)	ND(0.0000000026)
1,2,3,7,8-PeCDD	Not Listed	0.000000013 J	ND(0.0000000025)	ND(0.0000000028)	ND(0.0000000036)
PeCDDs (total)	Not Listed	0.000000013	ND(0.0000000037)	ND(0.0000000033)	ND(0.0000000036)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000094) X	ND(0.0000000086)	ND(0.0000000094)	ND(0.0000000033)
1,2,3,6,7,8-HxCDD	Not Listed	0.0000000093 J	ND(0.0000000076)	ND(0.0000000083)	ND(0.0000000029)
1,2,3,7,8,9-HxCDD	Not Listed	0.0000000092 J	ND(0.0000000078)	ND(0.0000000085)	ND(0.0000000030)
HxCDDs (total)	Not Listed	0.000000018	ND(0.0000000080)	ND(0.0000000087)	ND(0.0000000031)
1,2,3,4,6,7,8-HpCDD	Not Listed	0.0000000095 J	ND(0.0000000029) X	0.0000000039 J	0.0000000020 J
HpCDDs (total)	Not Listed	0.0000000095	ND(0.0000000030)	0.0000000085	0.0000000020
OCDD	Not Listed	0.000000019 J	0.000000017 J	0.000000030 J	0.0000000075 J
Total Dioxins	Not Listed	0.000000060	0.000000017	0.000000039	0.0000000095
Total TEQs (WHO TEFs)	0.0000001	0.000000028	0.0000000057	0.000000010	0.0000000047
Inorganics-Unfiltered					
Arsenic	Not Applicable	ND(0.0100)	0.0170	ND(0.0100)	0.0160
Barium	Not Applicable	ND(0.200)	0.260	1.20	0.350
Beryllium	Not Applicable	ND(0.00100)	0.00230	ND(0.00100)	ND(0.00100)
Chromium	Not Applicable	ND(0.0100)	0.0310	ND(0.0100)	ND(0.0100)
Copper	Not Applicable	ND(0.0250)	0.0590	ND(0.0250)	ND(0.0250)
Cyanide	0.01	0.00350 B	ND(0.0100)	ND(0.0100)	ND(0.0100)
Lead	Not Applicable	ND(0.00300)	0.0200	0.00220 B	ND(0.00300)
Nickel	Not Applicable	ND(0.0400)	0.0430	ND(0.0400)	ND(0.0400)
Zinc	Not Applicable	ND(0.0200) J	0.210	ND(0.0200) J	ND(0.0200)
Inorganics-Filtered					
Arsenic	0.4	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Barium	30	ND(0.200)	ND(0.200)	0.970	0.260
Beryllium	0.05	ND(0.00100)	0.000820 B	ND(0.00100)	ND(0.00100)
Chromium	2	ND(0.0250)	ND(0.0250)	ND(0.0250)	ND(0.0250)
Copper	Not Listed	ND(0.100)	ND(0.100)	ND(0.100)	ND(0.100)
Lead	0.03	ND(0.00300)	ND(0.00300)	ND(0.00300)	ND(0.00300)
Nickel	0.08	ND(0.0400)	ND(0.0400)	ND(0.0400)	ND(0.0400)
Zinc	0.9	ND(0.0200) J	0.0160 B	ND(0.0200) J	ND(0.0200)

(See Notes on Page 3)

TABLE 7

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and other Appendix IX + 3 constituents.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Duplicate sample results are presented in brackets.
7. -- Indicates that all constituents for the parameter group were not detected.
8. Shading indicates that value exceeds Method 1 GW-3 standard.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
E - Analyte exceeded calibration range.
X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
J - Indicates that the associated numerical value is an estimated concentration.

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02
Volatile Organics					
Benzene	70	4.4	0.20	7.5	ND(0.0050) [ND(0.0050)]
Chlorobenzene	10	8.2	0.082	16	ND(0.0050) [ND(0.0050)]
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	0.0054 J	ND(0.0050) [ND(0.0050)]
Methylene Chloride	100	0.0082	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Toluene	100	0.16	ND(0.0050)	0.35	ND(0.0050) [ND(0.0050)]
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	0.014	ND(0.0050) [ND(0.0050)]
Trichloroethene	100	0.47	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]
Vinyl Chloride	100	ND(0.0050)	ND(0.0020)	0.16	ND(0.0020) [ND(0.0020)]
Xylenes (total)	100	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]
Total VOCs	Not Listed	13	0.28	24	ND(0.20) [ND(0.20)]
PCBs-Unfiltered					
Aroclor-1248	Not Listed	NS	ND(0.000065)	NS	NS
Aroclor-1254	Not Listed	NS	ND(0.000065)	NS	NS
Total PCBs	0.005	NS	ND(0.000065)	NS	NS
PCBs-Filtered					
Aroclor-1248	Not Listed	NS	ND(0.000065)	NS	NS
Aroclor-1254	Not Listed	NS	ND(0.000065)	NS	NS
Total PCBs	0.005	NS	ND(0.000065)	NS	NS
Semivolatile Organics					
1,2-Dichlorobenzene	100	0.016	ND(0.010)	0.084	ND(0.0050) [ND(0.0050)]
1,4-Dichlorobenzene	100	0.024	ND(0.010)	0.16	ND(0.0050) [ND(0.0050)]
2-Chlorophenol	100	NS	ND(0.010)	NS	NS
2-Methylnaphthalene	100	NS	ND(0.010)	NS	NS
Acenaphthene	50	NS	ND(0.010)	NS	NS
Dibenzofuran	Not Listed	NS	ND(0.010)	NS	NS
Fluorene	30	NS	ND(0.010)	NS	NS
Naphthalene	60	0.0072	ND(0.010)	0.060 J	ND(0.0050) [ND(0.0050)]
Phenanthrene	3	NS	ND(0.010)	NS	NS
Phenol	100	NS	ND(0.010)	NS	NS
Organochlorine Pesticides					
None Detected	--	NS	--	NS	NS
Herbicides					
None Detected	--	NS	--	NS	NS
Furans					
2,3,7,8-TCDF	Not Listed	NS	ND(0.0000000035) X	NS	NS
TCDFs (total)	Not Listed	NS	ND(0.0000000028)	NS	NS
1,2,3,7,8-PeCDF	Not Listed	NS	0.000000014 J	NS	NS
2,3,4,7,8-PeCDF	Not Listed	NS	0.000000011 J	NS	NS
PeCDFs (total)	Not Listed	NS	0.000000026	NS	NS
1,2,3,4,7,8-HxCDF	Not Listed	NS	0.000000011 J	NS	NS
1,2,3,6,7,8-HxCDF	Not Listed	NS	0.0000000099 J	NS	NS
1,2,3,7,8,9-HxCDF	Not Listed	NS	0.000000010 J	NS	NS
2,3,4,6,7,8-HxCDF	Not Listed	NS	0.0000000091 J	NS	NS
HxCDFs (total)	Not Listed	NS	0.000000040	NS	NS
1,2,3,4,6,7,8-HpCDF	Not Listed	NS	0.0000000078 J	NS	NS
1,2,3,4,7,8,9-HpCDF	Not Listed	NS	ND(0.0000000070) X	NS	NS
HpCDFs (total)	Not Listed	NS	0.0000000078	NS	NS
OCDF	Not Listed	NS	0.000000013 J	NS	NS

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TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02
Dioxins					
2,3,7,8-TCDD	Not Listed	NS	ND(0.0000000042) X	NS	NS
TCDDs (total)	Not Listed	NS	ND(0.0000000033)	NS	NS
1,2,3,7,8-PeCDD	Not Listed	NS	0.000000013 J	NS	NS
PeCDDs (total)	Not Listed	NS	0.000000013	NS	NS
1,2,3,4,7,8-HxCDD	Not Listed	NS	ND(0.0000000094) X	NS	NS
1,2,3,6,7,8-HxCDD	Not Listed	NS	0.0000000093 J	NS	NS
1,2,3,7,8,9-HxCDD	Not Listed	NS	0.0000000092 J	NS	NS
HxCDDs (total)	Not Listed	NS	0.000000018	NS	NS
1,2,3,4,6,7,8-HpCDD	Not Listed	NS	0.0000000095 J	NS	NS
HpCDDs (total)	Not Listed	NS	0.0000000095	NS	NS
OCDD	Not Listed	NS	0.000000019 J	NS	NS
Total TEQ (WHO TEFs)	0.000001	NS	0.000000028	NS	NS
Inorganics-Unfiltered					
Arsenic	4	NS	ND(0.0100)	NS	NS
Barium	100	NS	ND(0.200)	NS	NS
Beryllium	0.5	NS	ND(0.00100)	NS	NS
Chromium	20	NS	ND(0.0100)	NS	NS
Copper	Not Listed	NS	ND(0.0250)	NS	NS
Cyanide	2	NS	0.00350 B	NS	NS
Lead	0.3	NS	ND(0.00300)	NS	NS
Nickel	1	NS	ND(0.0400)	NS	NS
Zinc	20	NS	ND(0.0200) J	NS	NS
Inorganics-Filtered					
Arsenic	4	NS	ND(0.100)	NS	NS
Barium	100	NS	ND(0.200)	NS	NS
Beryllium	0.5	NS	ND(0.00100)	NS	NS
Chromium	20	NS	ND(0.0250)	NS	NS
Copper	Not Listed	NS	ND(0.100)	NS	NS
Lead	0.3	NS	ND(0.00300)	NS	NS
Nickel	1	NS	ND(0.0400)	NS	NS
Zinc	20	NS	ND(0.0200) J	NS	NS

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	16C 04/25/02	16E 04/25/02	39D 04/23/02	43A 04/26/02
Volatile Organics					
Benzene	70	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	10	0.0027 J	ND(0.0050)	0.0063	ND(0.0050)
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	100	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	100	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	Not Listed	0.0027 J	ND(0.20)	0.0063	ND(0.20)
PCBs-Unfiltered					
Aroclor-1248	Not Listed	NS	NS	NS	NS
Aroclor-1254	Not Listed	NS	NS	NS	NS
Total PCBs	0.005	NS	NS	NS	NS
PCBs-Filtered					
Aroclor-1248	Not Listed	NS	NS	NS	NS
Aroclor-1254	Not Listed	NS	NS	NS	NS
Total PCBs	0.005	NS	NS	NS	NS
Semivolatile Organics					
1,2-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chlorophenol	100	NS	NS	NS	NS
2-Methylnaphthalene	100	NS	NS	NS	NS
Acenaphthene	50	NS	NS	NS	NS
Dibenzofuran	Not Listed	NS	NS	NS	NS
Fluorene	30	NS	NS	NS	NS
Naphthalene	60	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Phenanthrene	3	NS	NS	NS	NS
Phenol	100	NS	NS	NS	NS
Organochlorine Pesticides					
None Detected	--	NS	NS	NS	NS
Herbicides					
None Detected	--	NS	NS	NS	NS
Furans					
2,3,7,8-TCDF	Not Listed	NS	NS	NS	NS
TCDFs (total)	Not Listed	NS	NS	NS	NS
1,2,3,7,8-PeCDF	Not Listed	NS	NS	NS	NS
2,3,4,7,8-PeCDF	Not Listed	NS	NS	NS	NS
PeCDFs (total)	Not Listed	NS	NS	NS	NS
1,2,3,4,7,8-HxCDF	Not Listed	NS	NS	NS	NS
1,2,3,6,7,8-HxCDF	Not Listed	NS	NS	NS	NS
1,2,3,7,8,9-HxCDF	Not Listed	NS	NS	NS	NS
2,3,4,6,7,8-HxCDF	Not Listed	NS	NS	NS	NS
HxCDFs (total)	Not Listed	NS	NS	NS	NS
1,2,3,4,6,7,8-HpCDF	Not Listed	NS	NS	NS	NS
1,2,3,4,7,8,9-HpCDF	Not Listed	NS	NS	NS	NS
HpCDFs (total)	Not Listed	NS	NS	NS	NS
OCDF	Not Listed	NS	NS	NS	NS

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	16C 04/25/02	16E 04/25/02	39D 04/23/02	43A 04/26/02
Dioxins					
2,3,7,8-TCDD	Not Listed	NS	NS	NS	NS
TCDDs (total)	Not Listed	NS	NS	NS	NS
1,2,3,7,8-PeCDD	Not Listed	NS	NS	NS	NS
PeCDDs (total)	Not Listed	NS	NS	NS	NS
1,2,3,4,7,8-HxCDD	Not Listed	NS	NS	NS	NS
1,2,3,6,7,8-HxCDD	Not Listed	NS	NS	NS	NS
1,2,3,7,8,9-HxCDD	Not Listed	NS	NS	NS	NS
HxCDDs (total)	Not Listed	NS	NS	NS	NS
1,2,3,4,6,7,8-HpCDD	Not Listed	NS	NS	NS	NS
HpCDDs (total)	Not Listed	NS	NS	NS	NS
OCDD	Not Listed	NS	NS	NS	NS
Total TEQ (WHO TEFs)	0.000001	NS	NS	NS	NS
Inorganics-Unfiltered					
Arsenic	4	NS	NS	NS	NS
Barium	100	NS	NS	NS	NS
Beryllium	0.5	NS	NS	NS	NS
Chromium	20	NS	NS	NS	NS
Copper	Not Listed	NS	NS	NS	NS
Cyanide	2	NS	NS	NS	NS
Lead	0.3	NS	NS	NS	NS
Nickel	1	NS	NS	NS	NS
Zinc	20	NS	NS	NS	NS
Inorganics-Filtered					
Arsenic	4	NS	NS	NS	NS
Barium	100	NS	NS	NS	NS
Beryllium	0.5	NS	NS	NS	NS
Chromium	20	NS	NS	NS	NS
Copper	Not Listed	NS	NS	NS	NS
Lead	0.3	NS	NS	NS	NS
Nickel	1	NS	NS	NS	NS
Zinc	20	NS	NS	NS	NS

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	43B 04/26/02	51-14 04/23/02	54B 04/29/02	78B-R 04/25/02
Volatile Organics					
Benzene	70	ND(0.0050)	ND(0.0050)	ND(0.0050)	2.5
Chlorobenzene	10	ND(0.0050)	ND(0.0050)	ND(0.0050)	2.5
Chloroform	100	ND(0.0050)	0.0034 J	ND(0.0050)	ND(0.0050)
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.019
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0044 J
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	100	ND(0.0020)	ND(0.0020)	0.011	ND(0.0020)
Xylenes (total)	100	ND(0.010)	ND(0.010)	ND(0.010)	0.052 EJ
Total VOCs	Not Listed	ND(0.20)	0.0034 J	0.011	5.1
PCBs-Unfiltered					
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	0.0056
Aroclor-1254	Not Listed	NS	NS	0.000078	0.0017
Total PCBs	0.005	NS	NS	0.000078	0.0073
PCBs-Filtered					
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	ND(0.000065)
Aroclor-1254	Not Listed	NS	NS	ND(0.000065)	ND(0.000065)
Total PCBs	0.005	NS	NS	ND(0.000065)	ND(0.000065)
Semivolatile Organics					
1,2-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010) J
1,4-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.010)	0.016 J
2-Chlorophenol	100	NS	NS	ND(0.010)	0.0060 J
2-Methylnaphthalene	100	NS	NS	ND(0.010)	0.0074 J
Acenaphthene	50	NS	NS	ND(0.010)	0.0049 J
Dibenzofuran	Not Listed	NS	NS	ND(0.010)	0.0046 J
Fluorene	30	NS	NS	ND(0.010)	0.0041 J
Naphthalene	60	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010) J
Phenanthrene	3	NS	NS	ND(0.010)	0.0050 J
Phenol	100	NS	NS	ND(0.010)	0.016
Organochlorine Pesticides					
None Detected	--	NS	NS	--	--
Herbicides					
None Detected	--	NS	NS	--	--
Furans					
2,3,7,8-TCDF	Not Listed	NS	NS	ND(0.0000000018)	ND(0.0000000027)
TCDFs (total)	Not Listed	NS	NS	ND(0.0000000018)	ND(0.0000000027)
1,2,3,7,8-PeCDF	Not Listed	NS	NS	ND(0.0000000025)	ND(0.0000000028) X
2,3,4,7,8-PeCDF	Not Listed	NS	NS	ND(0.0000000025)	0.0000000053 J
PeCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	0.000000021
1,2,3,4,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000035)	0.000000015 J
1,2,3,6,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000031)	0.0000000061 J
1,2,3,7,8,9-HxCDF	Not Listed	NS	NS	ND(0.0000000039)	0.0000000044 J
2,3,4,6,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000035)	0.0000000044 J
HxCDFs (total)	Not Listed	NS	NS	ND(0.0000000035)	0.000000055
1,2,3,4,6,7,8-HpCDF	Not Listed	NS	NS	ND(0.0000000025)	0.0000000074 J
1,2,3,4,7,8,9-HpCDF	Not Listed	NS	NS	ND(0.0000000025)	0.0000000039 J
HpCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	0.000000011
OCDF	Not Listed	NS	NS	ND(0.0000000059)	0.0000000068 J

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	43B 04/26/02	51-14 04/23/02	54B 04/29/02	78B-R 04/25/02
Dioxins					
2,3,7,8-TCDD	Not Listed	NS	NS	ND(0.0000000035)	ND(0.0000000026)
TCDDs (total)	Not Listed	NS	NS	ND(0.0000000035)	ND(0.0000000032)
1,2,3,7,8-PeCDD	Not Listed	NS	NS	ND(0.0000000025)	ND(0.0000000028)
PeCDDs (total)	Not Listed	NS	NS	ND(0.0000000037)	ND(0.0000000033)
1,2,3,4,7,8-HxCDD	Not Listed	NS	NS	ND(0.0000000086)	ND(0.0000000094)
1,2,3,6,7,8-HxCDD	Not Listed	NS	NS	ND(0.0000000076)	ND(0.0000000083)
1,2,3,7,8,9-HxCDD	Not Listed	NS	NS	ND(0.0000000078)	ND(0.0000000085)
HxCDDs (total)	Not Listed	NS	NS	ND(0.0000000080)	ND(0.0000000087)
1,2,3,4,6,7,8-HpCDD	Not Listed	NS	NS	ND(0.0000000029) X	0.0000000039 J
HpCDDs (total)	Not Listed	NS	NS	ND(0.0000000030)	0.0000000085
OCDD	Not Listed	NS	NS	0.000000017 J	0.000000030 J
Total TEQ (WHO TEFs)	0.000001	NS	NS	0.0000000057	0.000000010
Inorganics-Unfiltered					
Arsenic	4	NS	NS	0.0170	ND(0.0100)
Barium	100	NS	NS	0.260	1.20
Beryllium	0.5	NS	NS	0.00230	ND(0.00100)
Chromium	20	NS	NS	0.0310	ND(0.0100)
Copper	Not Listed	NS	NS	0.0590	ND(0.0250)
Cyanide	2	NS	NS	ND(0.0100)	ND(0.0100)
Lead	0.3	NS	NS	0.0200	0.00220 B
Nickel	1	NS	NS	0.0430	ND(0.0400)
Zinc	20	NS	NS	0.210	ND(0.0200) J
Inorganics-Filtered					
Arsenic	4	NS	NS	ND(0.100)	ND(0.100)
Barium	100	NS	NS	ND(0.200)	0.970
Beryllium	0.5	NS	NS	0.000820 B	ND(0.00100)
Chromium	20	NS	NS	ND(0.0250)	ND(0.0250)
Copper	Not Listed	NS	NS	ND(0.100)	ND(0.100)
Lead	0.3	NS	NS	ND(0.00300)	ND(0.00300)
Nickel	1	NS	NS	ND(0.0400)	ND(0.0400)
Zinc	20	NS	NS	0.0160 B	ND(0.0200) J

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
Volatile Organics					
Benzene	70	0.016	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	10	ND(0.0050)	ND(0.0050)	0.0096	ND(0.0050)
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	100	0.019	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	100	0.011	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	100	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	100	0.079 EJ	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	Not Listed	0.13 J	ND(0.20)	0.0096	ND(0.20)
PCBs-Unfiltered					
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	NS
Aroclor-1254	Not Listed	NS	NS	ND(0.000065)	NS
Total PCBs	0.005	NS	NS	ND(0.000065)	NS
PCBs-Filtered					
Aroclor-1248	Not Listed	NS	NS	ND(0.000065)	NS
Aroclor-1254	Not Listed	NS	NS	ND(0.000065)	NS
Total PCBs	0.005	NS	NS	ND(0.000065)	NS
Semivolatile Organics					
1,2-Dichlorobenzene	100	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,4-Dichlorobenzene	100	0.0037 J	ND(0.0050)	ND(0.010)	ND(0.0050)
2-Chlorophenol	100	NS	NS	ND(0.010)	NS
2-Methylnaphthalene	100	NS	NS	ND(0.010)	NS
Acenaphthene	50	NS	NS	ND(0.010)	NS
Dibenzofuran	Not Listed	NS	NS	ND(0.010)	NS
Fluorene	30	NS	NS	ND(0.010)	NS
Naphthalene	60	0.0026 J	ND(0.0050)	ND(0.010)	ND(0.0050)
Phenanthrene	3	NS	NS	ND(0.010)	NS
Phenol	100	NS	NS	ND(0.010)	NS
Organochlorine Pesticides					
None Detected	--	NS	NS	--	NS
Herbicides					
None Detected	--	NS	NS	--	NS
Furans					
2,3,7,8-TCDF	Not Listed	NS	NS	ND(0.0000000016)	NS
TCDFs (total)	Not Listed	NS	NS	ND(0.0000000016)	NS
1,2,3,7,8-PeCDF	Not Listed	NS	NS	ND(0.0000000025)	NS
2,3,4,7,8-PeCDF	Not Listed	NS	NS	ND(0.0000000019) X	NS
PeCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	NS
1,2,3,4,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000018) X	NS
1,2,3,6,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000025)	NS
1,2,3,7,8,9-HxCDF	Not Listed	NS	NS	ND(0.0000000025)	NS
2,3,4,6,7,8-HxCDF	Not Listed	NS	NS	ND(0.0000000025)	NS
HxCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	NS
1,2,3,4,6,7,8-HpCDF	Not Listed	NS	NS	ND(0.0000000025)	NS
1,2,3,4,7,8,9-HpCDF	Not Listed	NS	NS	ND(0.0000000025)	NS
HpCDFs (total)	Not Listed	NS	NS	ND(0.0000000025)	NS
OCDF	Not Listed	NS	NS	ND(0.0000000050)	NS

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
Dioxins					
2,3,7,8-TCDD	Not Listed	NS	NS	ND(0.0000000026)	NS
TCDDs (total)	Not Listed	NS	NS	ND(0.0000000026)	NS
1,2,3,7,8-PeCDD	Not Listed	NS	NS	ND(0.0000000036)	NS
PeCDDs (total)	Not Listed	NS	NS	ND(0.0000000036)	NS
1,2,3,4,7,8-HxCDD	Not Listed	NS	NS	ND(0.0000000033)	NS
1,2,3,6,7,8-HxCDD	Not Listed	NS	NS	ND(0.0000000029)	NS
1,2,3,7,8,9-HxCDD	Not Listed	NS	NS	ND(0.0000000030)	NS
HxCDDs (total)	Not Listed	NS	NS	ND(0.0000000031)	NS
1,2,3,4,6,7,8-HpCDD	Not Listed	NS	NS	0.0000000020 J	NS
HpCDDs (total)	Not Listed	NS	NS	0.0000000020	NS
OCDD	Not Listed	NS	NS	0.0000000075 J	NS
Total TEQ (WHO TEFs)	0.000001	NS	NS	0.0000000047	NS
Inorganics-Unfiltered					
Arsenic	4	NS	NS	0.0160	NS
Barium	100	NS	NS	0.350	NS
Beryllium	0.5	NS	NS	ND(0.00100)	NS
Chromium	20	NS	NS	ND(0.0100)	NS
Copper	Not Listed	NS	NS	ND(0.0250)	NS
Cyanide	2	NS	NS	ND(0.0100)	NS
Lead	0.3	NS	NS	ND(0.00300)	NS
Nickel	1	NS	NS	ND(0.0400)	NS
Zinc	20	NS	NS	ND(0.0200)	NS
Inorganics-Filtered					
Arsenic	4	NS	NS	ND(0.100)	NS
Barium	100	NS	NS	0.260	NS
Beryllium	0.5	NS	NS	ND(0.00100)	NS
Chromium	20	NS	NS	ND(0.0250)	NS
Copper	Not Listed	NS	NS	ND(0.100)	NS
Lead	0.3	NS	NS	ND(0.00300)	NS
Nickel	1	NS	NS	ND(0.0400)	NS
Zinc	20	NS	NS	ND(0.0200)	NS

(See Notes on Page 9)

TABLE 8

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UPPER CONCENTRATION LIMITS

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs, other Appendix IX + 3 constituents and Natural Attenuation Parameters.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. NS - Not Sampled - Parameter was not requested on sample chain of custody form.
6. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
7. Duplicate sample results are presented in brackets.
8. -- Indicates that all constituents for the parameter group were not detected.
9. Shading indicates that value exceeds UCL.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
E - Analyte exceeded calibration range.
X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
J - Indicates that the associated numerical value is an estimated concentration.

(See Notes on Page 9)

TABLE 9

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
NATURAL ATTENUATION PARAMETERS

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	002A 04/23/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	MW-39-E 04/25/02
Volatile Organics									
Benzene	4.4	7.5	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	8.2	16	ND(0.0050) [ND(0.0050)]	0.0027 J	ND(0.0050)	0.0063	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	0.0054 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	0.0082	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	0.16	0.35	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	0.014	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	0.47	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0050)	0.16	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Total VOCs	13	24	ND(0.20) [ND(0.20)]	0.0027 J	ND(0.20)	0.0063	ND(0.20)	ND(0.20)	ND(0.20)
Natural Attenuation Parameters									
Alkalinity (Total)	140	490	480 [480]	160	79.0	160	330	570	24.0
Chloride	40	1700	290 [280]	4.0	1.8	4.0	29	49	9.2
Dissolved Organic Carbon	11.0	59.0	11.0 [15.0]	8.70	3.20	2.10	4.30	9.00	5.20
Ethane	0.017	ND(0.050)	ND(0.10) [ND(0.20)]	ND(0.50)	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	ND(0.0010)
Ethene	0.30	0.15	ND(0.10) [ND(0.20)]	ND(0.50)	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	ND(0.0010)
Iron	ND(0.0500)	1.30	0.360 [ND(0.0500)]	ND(0.0500)	ND(0.0500)	0.130	ND(0.0500)	ND(0.0500)	ND(0.0500)
Methane	0.0450	1.40	2.70 [2.70]	12.0	2.00	0.0230	0.730	1.30	ND(0.00100)
Nitrate Nitrogen	0.0490 B	0.0140 B	0.0270 B [0.0320 B]	0.150	0.110	0.0370 B	0.0200 B	0.0170 B	1.00
Nitrite Nitrogen	0.00300 B	ND(0.0500)	0.00360 B [0.00340 B]	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)
Sulfate (turbidimetric)	30.0	5.30	15.0 [16.0]	3.60	1.60	18.0	42.0	1.30	5.70

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. Only those constituents detected in one or more samples are summarized.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics

J - Indicates that the associated numerical value is an estimated concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).

(See Notes on Page 1)

TABLE 10

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

Parameter / Sample ID: / Date Collected:	51-15-OIL-1 08/19/02	51-19-OIL-1 08/19/02	59-3R-OIL-1 08/19/02
Volatile Organics			
Ethylbenzene	110	29	ND(5.0)
Xylenes (total)	67	87	ND(5.0)
PCBs			
Aroclor-1254	9.8	ND(7.6)	ND(7.6)
Aroclor-1260	16	100	76
Total PCBs	25.8	100	76
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(220)	ND(110)	31 J
1,4-Dichlorobenzene	ND(220)	65 J	ND(110)
2-Methylnaphthalene	4400	750	ND(110)
Acenaphthene	860	ND(110)	ND(110)
Benzoic Acid	300	ND(110)	ND(110)
Fluorene	670	100 J	ND(110)
Naphthalene	1900	330	ND(110)
Phenanthrene	1500	240	ND(110)
Pyrene	370	57 J	ND(110)
Physical Parameters			
Interfacial Tension (mN/m)	289.00	272.00	260.70
Kinematic Viscosity @100 °C (mm^2/s)	2.338	2.669	3.018
Specific Gravity @60/60 °F (unitless)	0.9583	0.8957	0.8974

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles, Interfacial Tension, Kinematic Viscosity, and Specific Gravity.
2. With the exception of Conventional Parameters only those constituents detected in one or more samples are summarized.
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles,)

J - Indicates an estimated value less than the practical quantitation limit (PQL)

(See Notes on Page 1)

Figures

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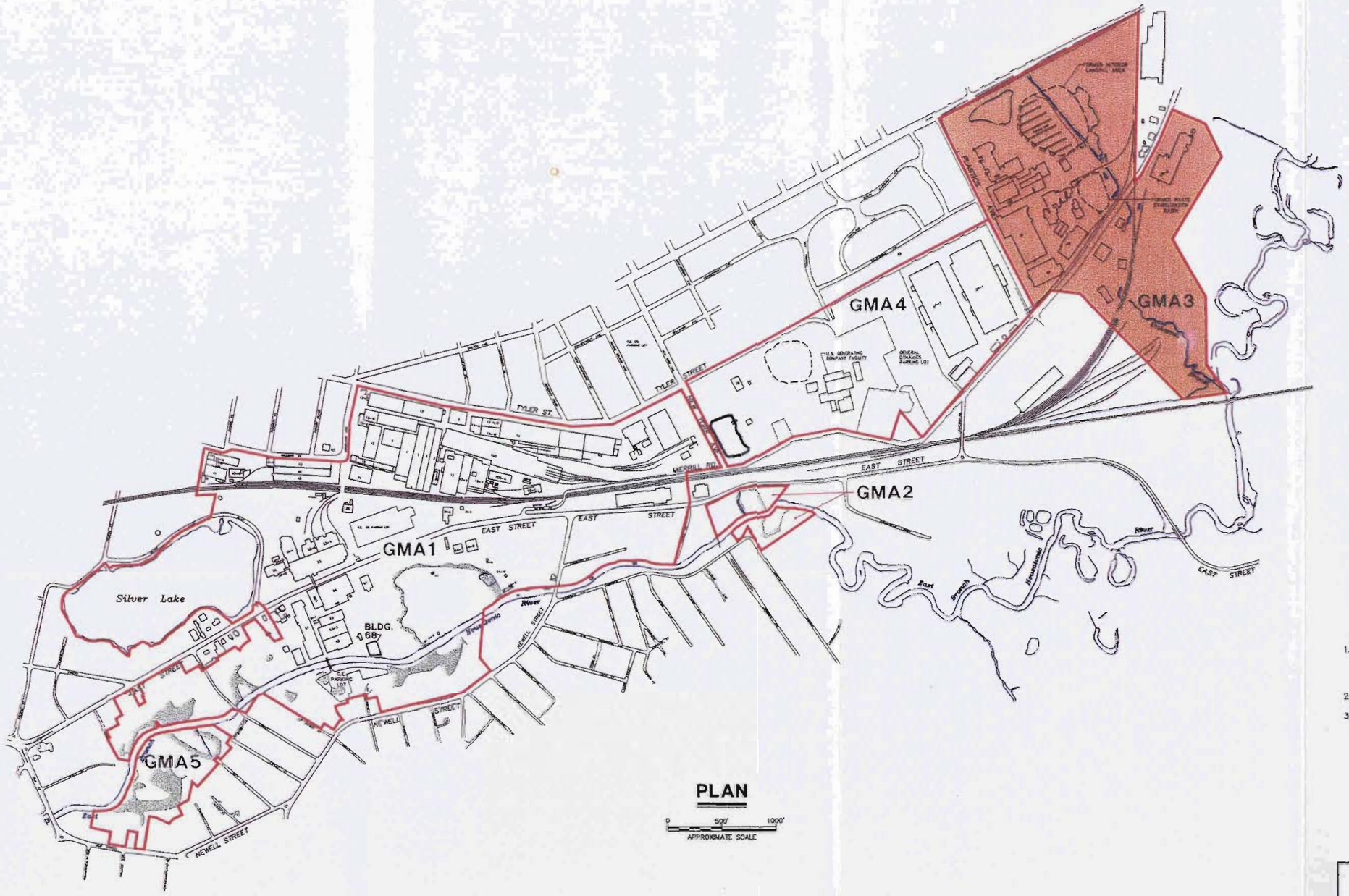

PLAN

0 500' 1000'
APPROXIMATE SCALE

LEGEND:

GMA1	GMA 1–PLANT SITE 1
GMA2	GMA 2–FORMER OXBOWS J&K
GMA3	GMA 3–PLANT SITE 2
GMA4	GMA 4–PLANT SITE 3
GMA5	GMA 5–FORMER OXBOWS A&C

GENERAL NOTES:

1. MAPPING IS BASED ON AERIAL PHOTOGRAPHS AND PHOTOGRAMMETRIC MAPPING BY LOCKWOOD MAPPING, INC. – FLOWN IN APRIL 1990; DATA PROVIDED BY GENERAL ELECTRIC COMPANY; AND BLASLAND & BOUCK ENGINEERS, P.C. P.C. CONSTRUCTION PLANS.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES/LIMITS ARE APPROXIMATE.

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREAS

BLASLAND, BOUCK & LEE, INC.
engineers & scientists

FIGURE 1

X: NONE
L: ON=*, OFF=REF
P: PAGESET: 0L
8/8/02 SYR-54-DMW DJP LJP
C/20186001/20186G11.DWG

LEGEND:

- SITE BOUNDARY
- FENCING
- 51-6 EXISTING MONITORING WELL
- 57 EXISTING MONITORING WELL CLUSTER
- 51-6 ROUTINE NAPL MONITORING WELL
- 51-21 NAPL RECOVERY WELL (SKIMMER)
- GMA3-1 BASELINE GROUNDWATER MONITORING WELL LOCATION (PROPOSED WELL)
- SG-1 SURFACE WATER STAFF GAUGE
- GW-2 SENTINEL/COMPLIANCE WELL
- GW-3 PERIMETER WELL
- NATURAL ATTENUATION MONITORING WELL
- GENERAL/SOURCE AREA SENTINEL WELL (GW-3)
- A A' CROSS SECTION LOCATION

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.-FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 3 BASELINE MONITORING PROGRAM

SITE PLAN

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FIGURE 2

X: 20186X02.DWG
P: PAGESET/BL
8/28/02 SYR-54-DMW NES PGL
C/20186001/20186G10.DWG

NORTH **A**

A' SOUTH

43 72 79* 39 16 89* 95* 114* 115

FORMER STABILIZATION BASIN

HOUSATONIC RIVER

1,000

950

900

850

800

ELEVATION IN FEET ABOVE MEAN SEA LEVEL

sand, gravel and silt FILL

FILL

med. to coarse SAND

SILT with fine sand lenses

fine to medium SAND some silt

medium to fine SAND, trace gravel

coarse SAND some fine gravel

fine to coarse SAND, some gravel and cobbles

SILT and ORGANICS with sand and gravel lenses

PEAT

med. to fine SAND, trace gravel

SILT

coarse SAND with gravel lenses

SILT and SAND with coarse sand and gravel lenses

fine to medium SAND

medium to coarse SAND

fine SAND, trace gravel

NO DATA

NO DATA

TILL

LEGEND:

WELL CLUSTER NUMBER → 16

WATER TABLE ELEVATION

SCREEN INTERVAL → (15–20') B
(DEPTH FROM SURFACE)

(45–50') A

(56–66' OR 70–75') D

(95–100') C

(225–235' OR 145–150') E

NOTE: * BORING LOG WAS NOT AVAILABLE NEARBY BORING INFORMATION WAS USED.

0 325' 650'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GENERALIZED GEOLOGIC CROSS-SECTION A-A'

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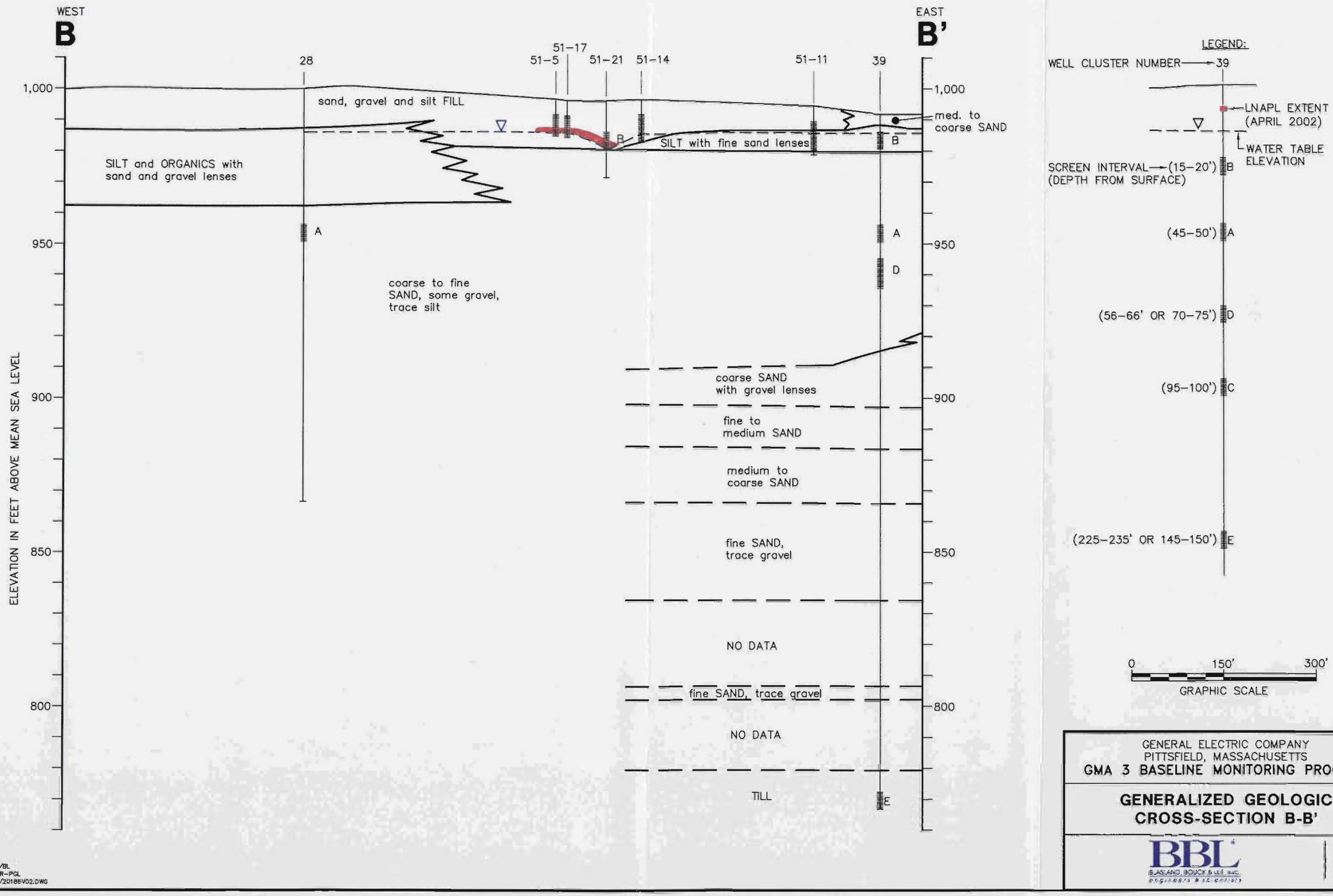
FIGURE **3**

P: PAGESET/BL
8/28/02 SYR-PGL
C/20186001/20185V01.DWG



GENERAL ELECTRIC COMPANY
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GMA 3 BASELINE MONITORING PROGRAM

GENERALIZED GEOLOGIC CROSS-SECTION B-B'

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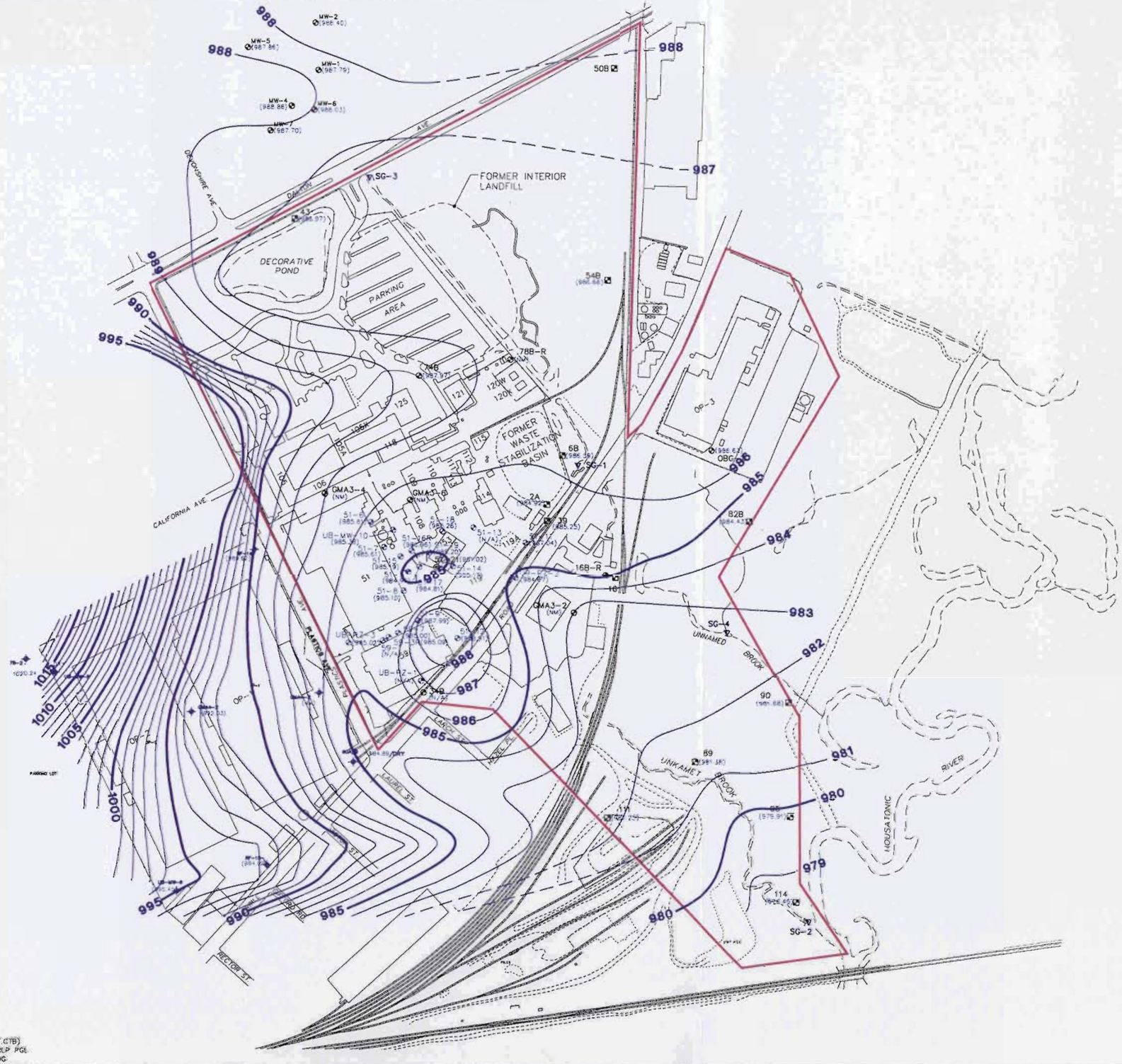
FIGURE **4**

P: PAGESET/BL
8/29/02 SYR-PGL
C/20188001/20188V02.DWG



LEGEND:

- SITE BOUNDARY
- FENCING
- 51-6 ⊗ EXISTING MONITORING WELL
- 57 ⊠ EXISTING MONITORING WELL CLUSTER
- 51-6 ⊗ ROUTINE NAPL MONITORING WELL
- 51-21 ◉ NAPL RECOVERY WELL (SKIMMER)
- SG-1 ▽ SURFACE WATER STAFF GAUGE
- (978.45) GROUNDWATER ELEVATION IN FEET
- 985 GROUNDWATER ELEVATION CONTOUR IN FEET
- (NM) NOT MEASURED
- (N/A) NOT AVAILABLE

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.=FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP - JANUARY 2002

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FIGURE 5

X: 20186X02.DWG
P: PAGESET/DL (PLTHALF.CTB)
8/29/02 SYR-54-DMW RLP PGE
G:/20186001/20186013.DWG

LEGEND:

- SITE BOUNDARY
- FENCING
- 51-6 ⊗ EXISTING MONITORING WELL
- 57 ⊠ EXISTING MONITORING WELL CLUSTER
- 51-6 ⊗ ROUTINE NAPL MONITORING WELL
- 51-21 ⊛ NAPL RECOVERY WELL (SKIMMER)
- SG-1 ▽ SURFACE WATER STAFF GAUGE
- (983.07) GROUNDWATER ELEVATION IN FEET
- 985 GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- (<987.41) WELL WAS DRY AT THE TIME GROUNDWATER MEASUREMENTS WERE OBTAINED
- (NM) NOT MEASURED
- (N/A) NOT AVAILABLE

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.-FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP - APRIL 2002

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FIGURE 6

X: 20186X02.DWG
P: PAGESET/DL (PLTHALF.CTB)
8/29/02 SMR-54-DMW RLP PGL
C: 20186001/20186G14.DWG

LEGEND:

- SITE BOUNDARY
- FENCING
- 57 EXISTING MONITORING WELL CLUSTER
- 51-6 ROUTINE NAPL MONITORING WELL
- 51-21 NAPL RECOVERY WELL (SKIMMER)
- EXTENT OF MEASURABLE LNAPL

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.–FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

HISTORICAL EXTENT OF NAPL

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FIGURE 7

X: 20186X02.DWG
P: PAGESET/BL
8/28/02 SYR-54-DMW NES PGL
C/20186001/20186G12.DWG

LEGEND:

- SITE BOUNDARY
- FENCING
- 51-6 EXISTING MONITORING WELL
- 57 EXISTING MONITORING WELL CLUSTER
- 51-6 ROUTINE NAPL MONITORING WELL
- 51-21 NAPL RECOVERY WELL (SKIMMER)
- GMA3-1 BASELINE GROUNDWATER MONITORING WELL LOCATION (PROPOSED WELL)
- SG-1 SURFACE WATER STAFF GAUGE
- 28 MONITORING WELL NOT INCLUDED IN BASELINE MONITORING PROGRAM
- EXTENT OF MEASURABLE LNAPL

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.-FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

EXTENT OF LNAPL - APRIL 2002

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FIGURE 8

X: 20186X02.DWG
P: \PAGESET\BL
8/28/02 SYR-54-DMW NES \PGL
C/20186001\20186G15.DWG

Appendices

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Appendix A

Groundwater Monitoring Well Logs

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engineers & scientists

Date Start/Finish: 1/31/02
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 536738.1800
Easting: 139076.3700
Casing Elevation: 994.87

Borehole Depth: 16' bgs
Surface Elevation: 991.80

Descriptions By: Stephen Lewitt

Well ID: 16B-R

Client: General Electric Company

Location: Groundwater Management Area 3
Pettricca Industries
444 Merrill Rd., Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 990	1	0-4'	1.8	NA		Dark brown fine SAND and SILT, trace coarse Sand, organics, roots, moist. Same as above, trace coarse Gravel.
						Olive-brown fine SAND, some Silt, trace fine Gravel, moist.
						Brown fine SAND and SILT, little coarse Sand and fine Gravel, moist.
5 / 985	2	4-8'	0.6	NA		Same as above, some organics, little fine to coarse Gravel, cobble, moist.
	3	8-12'	2.1	NA		Dark brown fine to medium SAND, SILT and ORGANICS, little fine Gravel, wet.
						Olive gray fery fine SAND, SILT and ORGANICS, moist.
						Brown PEAT, moist.
10 / 980						Brownnish gray fine SAND, little Silt and Organics, trace coarse Sand, moist.
	4	12-16'	2.8	NA		Gray fine SAND with Peat, trace Wood fragments, moist-wet.
15						

Well Construction

- 4" Diameter steel stick-up riser
- Concrete (0-0.8' bgs)
- Type #0 Silica Sand Drain (0.5' ags-1' bgs)
- 3/8" Hydrated Bentonite Chips (1.0-2.0' bgs)
- Schedule 40 PVC Riser (3.04' ags-3.08' bgs)
- Type #0 Silica Sand (2.0-13.28' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (3.08-13.28' bgs)
- PVC Cap

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Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
1/31/02	6.51 bgs	985.29

Project: 201.87.01
Data File: 16B-R.dat
Template: J:/Rockware/Logplot2001/Logfiles/20187/GMA.ldf
Date: 8/22/02

Date Start/Finish: 2/22/02
Drilling Company: BBLES
Driller's Name: Jeff Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 536827.7000
Easting: 138348.8000
Casing Elevation: 996.39

Borehole Depth: 16' bgs
Surface Elevation: 996.70

Descriptions By: Jeff Bishop

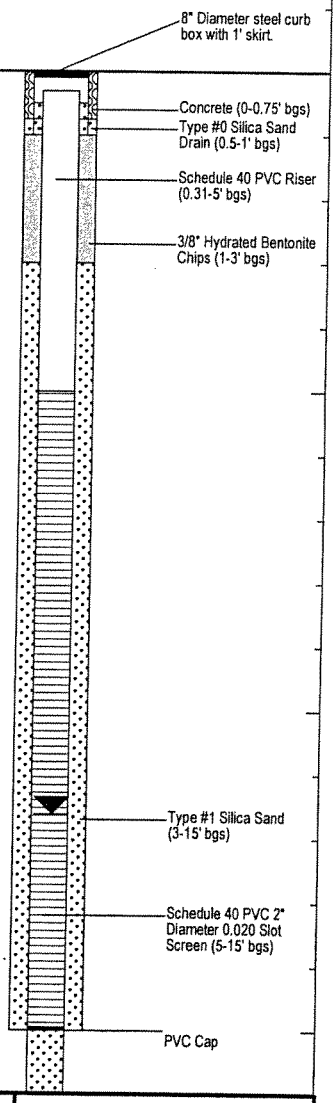
Well ID: 51-16R

Client: General Electric Company

Location: Groundwater Management Area 3
General Electric
1 Plastics Ave., Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 / 995	1	0-4'	2.0	NA		Asphalt. Concrete. Dark brown fine SAND, trace coal and brick. Brown SILT. Brown fine SAND, little coarse Sand.
5 / 990	2	4-8'	3.8	NA		Light brown very fine SAND.
10 / 985	3	8-12'	4.0	NA		Brown fine SAND, trace Silt.
15	4	12-16'	4.0	NA		Dark brown coarse SAND, some fine to coarse Gravel, saturated.

Well Construction



BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Remarks: NA = Not Available/Not Applicable; bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
2/22/02	11.62	985.08

Date Start/Finish: 2/25/02
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 536501.0000
Easting: 138260.7000
Casing Elevation: 997.64

Borehole Depth: 16' bgs
Surface Elevation: 997.82

Descriptions By: Jeff Bishop

Well ID: 59-03R

Client: General Electric Company

Location: Groundwater Management Area 3
General Electric
1 Plastics Ave., Pittsfield, MA

DEPTH ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
1000						
0						Asphalt.
						Dark brown coarse SAND, some fine to coarse Gravel.
						Dark brown fine SAND, some coarse Sand and fine to medium Gravel.
995	1	0-4'	2.1	NA		
5						Brown coarse SAND, some fine to coarse Gravel.
	2	4-8'	2.0	NA		Light brown fine SAND, trace coarse Sand and fine to medium Gravel
990						
10	3	8-12'	2.4	NA		Same as above, saturated, strong petro odor.
985						
	4	12-16'	1.8	NA		
15						

Well Construction

- 8" Diameter steel curb box with 1' skirt.
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0.5-2' bgs)
- Schedule 40 PVC Riser (0.21-7.3' bgs)
- 3/8" Hydrated Bentonite Chips (2-5' bgs)
- Type #1 Silica Sand (5-17.3' bgs)
- Schedule 40 PVC 2" Diameter 0.020 Slot Screen (7.3-17.3' bgs)

BBL
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engineers & scientists

Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
2/25/02	12.81 bgs	985.54

Project: 201.87.01
Data File59-3R.dat
Template:J:/Rockware/Logplot2001/Logfiles/20187/GMA.ldf
Date: 8/20/02

Client:
General Electric Company

Site Location:
Groundwater Management Area 3
General Electric
1 Plastics Ave., Pittsfield, MA

Well ID: 59-03R

Borehole Depth: 16' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
980 / 0							Schedule 40 PVC 2" Diameter 0.020 Slot Screen (7.3-17.3' bgs); Type #1 Silica Sand (5-17.3' bgs); PVC Cap
975 / 5							
970 / 10							
965 / 15							
20							
25							
30							
35							

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Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
2/25/02	12.81 bgs	985.54

Date Start/Finish: 1/29/02 **Drilling Company:** BBLES **Driller's Name:** Joe Bishop **Drilling Method:** Direct Push/HSA **Sampler Size:** 4' x 2" ID Disposable Liner **Auger Size:** 4 1/4" ID **Rig Type:** Truck-mounted Power Probe 9600	**Northing:** 537551.8000 **Easting:** 138716.5000 **Casing Elevation:** 988.83 **Borehole Depth:** 12' bgs **Surface Elevation:** 989.11 **Descriptions By:** Stephen Lewitt	**Well ID:** 78B-R **Client:** General Electric Company **Location:** Groundwater Management Area 3 General Electric 1 Plastics Ave., Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
990							
0						Asphalt.	8" Diameter steel curb box with 1' skirt.
						Gray-brown fine SAND, little coarse Sand and fine to coarse Gravel, dry.	Concrete (0-0.75' bgs)
						Same as above, gray, trace coarse Sand and fine Gravel, moist.	Type #0 Silica Sand Drain (0.5-1' bgs)
	1	0-4'	2.3	NA		Same as above, some brick, wet.	Schedule 40 PVC Riser (0.28-1.82' bgs)
985							3/8" Hydrated Bentonite Chips (1.0-1.5' bgs)
5						Same as above, little Silt, trace asphalt, wet.	
						Same as above, light gray, trace Silt, slight purple-red color with black spots.	
						BRICK, wet.	
	2	4-8'	3.1	NA		Olive-brown SILT, little fine Sand, trace fine Gravel, wet.	Type #0 Silica Sand (1.5-11.82' bgs)
						Dark gray fine SAND, some Silt, trace medium to coarse Sand and fine to coarse Gravel, wet, petro odor.	
						Light gray fine SAND, wet, petro odor.	Schedule 40 PVC 2" Diameter 0.010 Slot Screen (1.82-11.82' bgs)
980							
10	3	8-12'	2.3	NA		Dark gray fine to coarse SAND and fine to coarse GRAVEL, trace brick, wet, strong petro odor.	PVC Cap
975							
15							

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Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
1/29/02	2.51 bgs	1020.69

Date Start/Finish: 1/31/02
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 536596.4000
Easting: 138956.6000
Casing Elevation: 991.94

Borehole Depth: 12' bgs
Surface Elevation: 992.25

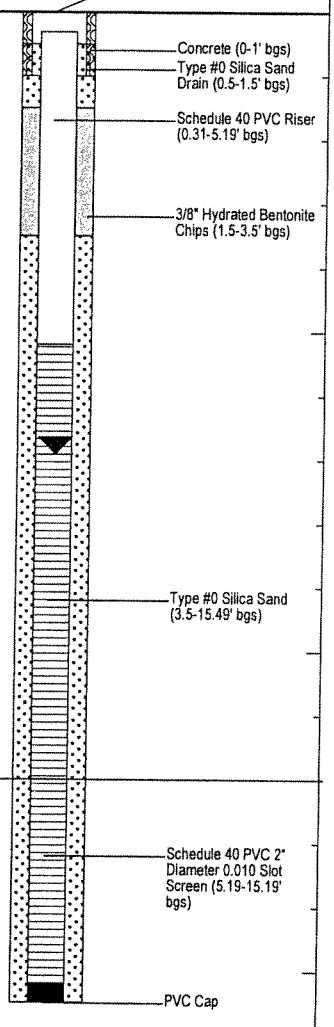
Descriptions By: Stephen Lewitt

Well ID: GMA3-2

Client: General Electric Company

Location: Groundwater Management Area 3
Petricca Industries
440 Merrill Rd., Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
995						
0						Asphalt.
						Concrete.
990	1	0-4'	1.5	NA		Brown fine SAND, some coarse Sand and fine to medium Gravel, dry.
						Gray fine SAND, little Silt, trace coarse Sand, moist.
5	2	4-8'	2.3	NA		Olive-gray SILT, little fine Sand, trace coarse Sand and fine Gravel, moist.
985						Olive-gray very fine SAND and SILT.
						Brown CLAY and SILT with organics. PEAT.
10	3	8-12'	2.7	NA		Brown PEAT.
						Olive-gray PEAT and CLAY,moist.
980						
15						



Well Construction

BBL
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engineers & scientists

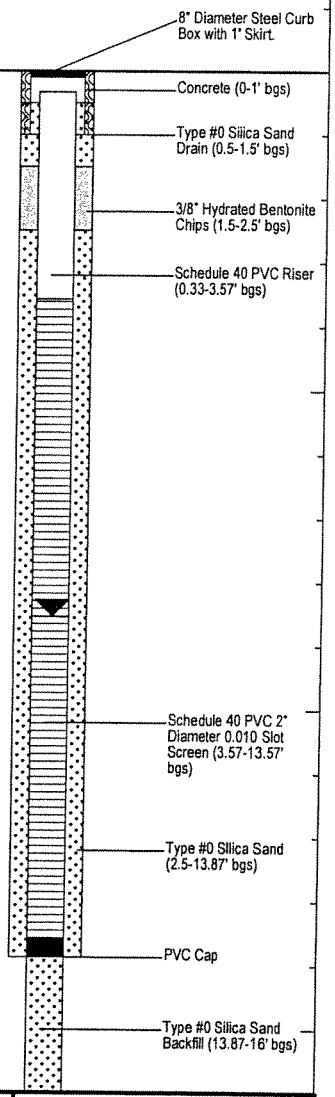
Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
1/31/02	6.91 bgs	985.03

Date Start/Finish: 1/29/02 **Drilling Company:** BBLES **Driller's Name:** Joe Bishop **Drilling Method:** Direct Push/HSA **Sampler Size:** 4' x 2" ID Disposable Liner **Auger Size:** 4 1/4" ID **Rig Type:** Truck-mounted Power Probe 9600	**Northing:** 537044.7000 **Easting:** 138021.8000 **Casing Elevation:** 994.60 **Borehole Depth:** 16' bgs **Surface Elevation:** 994.94 **Descriptions By:** Stephen Lewitt	**Well ID:** GMA3-4 **Client:** General Electric Company **Location:** Groundwater Management Area 3 General Electric 1 Plastics Ave., Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
0 995	1	0-4'	1.7	NA		Asphalt Brown fine SAND, little medium to coarse Sand and fine to coarse Gravel, dry.
5 990	2	4-8'	1.5	NA		
10 985	3	8-12'	2.1	NA		Olive-brown fine SAND, some Silt, little medium to coarse Sand and fine to coarse Gravel, wet.
	4	12-16'	2.1	NA		Same as above, little Silt, trace medium to coarse Sand and fine Gravel, wet.
15 980						



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Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
1/29/02	8.54 bgs	986.40

Date Start/Finish: 1/30/02
Drilling Company: BBLES
Driller's Name: Joe Bishop
Drilling Method: Direct Push/HSA
Sampler Size: 4' x 2" ID Disposable Liner
Auger Size: 4 1/4" ID
Rig Type: Truck-mounted Power Probe 9600

Northing: 537021.5000
Easting: 138342.3000
Casing Elevation: 997.49

Borehole Depth: 16' bgs
Surface Elevation: 997.74

Descriptions By: David A. Grills

Well ID: GMA3-6

Client: General Electric Company

Location: Groundwater Management Area 3
General Electric
1 Plastics Ave., Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description
1000						
0						Asphalt.
						Brown medium to coarse SAND, little fine to medium Gravel.
						Light brown fine SAND, little Silt, trace fine Gravel.
	1	0-4'	2.0	NA		
995						
						Moist.
5						Concrete.
						Light brown fine SAND, little Silt, trace fine Gravel, moist.
	2	4-8'	2.2	NA		
990						
						Same as above, trace coarse Sand and fine to medium Gravel, moist.
10	3	8-12'	2.9	NA		Light brown coarse SAND, little fine Sand, Silt and fine to medium Gravel, saturated.
						Black fine SAND, little gray medium to coarse Sand, trace fine to medium Gravel, saturated.
						Same as above, slight petro odor.
985						Black coarse SAND and fine to medium GRAVEL, slight petro odor, saturated.
	4	12-16'	2.0	NA		
15						

Well Construction:
- 8" Diameter Steel Curb Box with 1' Skirt.
- Concrete (0-1' bgs)
- Type #0 Silica Sand Drain (0.5-2' bgs)
- Schedule 40 PVC Riser (0.23-8' bgs)
- 3/8" Hydrated Bentonite Chips (2-6' bgs)
- Schedule 40 PVC 2" Diameter 0.010 Slot Screen (8-18' bgs)
- Type #0 Silica Sand (6-18' bgs)

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Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
1/30/02	12.18 bgs	985.56

Client:
General Electric Company

Site Location:
Groundwater Management Area 3
General Electric
1 Plastics Ave., Pittsfield, MA

Well ID: GMA3-6

Borehole Depth: 16' bgs

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Geologic Column	Stratigraphic Description	Well Construction
980							PVC Cap
20							
975							
25							
970							
30							
965							
35							

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Remarks: NA = Not Available/Not Applicable;
bgs = below ground surface.

Water Level Data

Date	Depth	Elev.
1/30/02	12.18 bgs	985.56

Appendix B

Field Sampling Data

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GROUNDWATER SAMPLING FIELD LOG

Well No.: OOZA
Key No.: FX-37
PID Background (ppm): 0.0
Well Headspace (ppm): 0.0

Site Name: GMA3
Sampling Personnel: DEG/BRH
Date: 4/23/02 Time In / Out: 0910 / 0940
Weather: 30's overcast

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	1"	
Well Depth	—	54.90
Screen Interval Depth		25'-30'
Water Table Depth	8.55	—
Intake Depth of Pump/Tubing		27.5'

Redevelop? Y (N)

Pump Start Time: 0920
Pump Stop Time: 1035
Sample Time: 1015
Sample ID: OOZA

Sampled for:
- (X) VOCs / HCL, 4 deg. ASP 95-1
- ( ) SVOCs / 4 deg. ASP 95-2
- ( ) PCBs (Total) / 4 deg. ASP 95-3
- ( ) PCBs (Dissolved) / 4 deg. ASP 95-3
- ( ) Metals (Total) / HNO3, 4 deg. ASP methods
- ( ) Metals (Dissolved) / 4 deg. ASP methods
- (X) Other (Specify)

* Natural Attenuation

WELL WATER INFORMATION

Length of Water Column	46.35'
Volume of Water in Well	1.89 gallon
Minutes of Pumping	75

EVACUATION INFORMATION

Volume of water removed from well: ~ 2.0 gal
Did well go dry? Y (N)

Evacuation Method: Bailer (X) Pump ( )
Pump Type: ISCO peristaltic pump

Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba w/ flow through Cell / 2100P Hach Turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0920	.100	.132	8.60		8.08	9.07	0.383	97	4.03	-112
0925	.100	.264	8.60		7.38	8.90	0.402	82	5.18	-93
0930	.100	.396	8.60		6.90	8.77	0.416	66	5.36	-88
0935	.100	.528	8.60		7.12	8.73	0.418	60	5.05	-93
0940	.100	.660	8.60		7.66	8.70	0.418	56	4.92	-100
0945	.100	.792	8.60		8.02	8.70	0.420	55	4.91	-101
0950	.100	.924	8.60		8.06	8.68	0.421	50	4.91	-103
0955	.100	1.056	8.60		9.94	8.68	0.423	49	4.30	-122
1000	.100	1.188	8.60		10.96	8.66	0.424	49	3.87	-127
1005	.100	1.320	8.60		10.73	8.63	0.424	46	3.80	-127
1010	.100	1.452	8.60		10.62	8.61	0.424	45	3.75	-126
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS: * VOC's COLLECTED W/ A DISPOSABLE TEFLON BAILER.

INITIAL PURGE: MODERATELY TURBID, CLEAR, NO ODOR, NO SHEEN.
FINAL PURGE: SLIGHTLY TURBID, CLEAR, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. 51-14
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR/SCM
Date 4/23/02 Time In / Out 10:00 / 11:20
Weather Most cloudy, 40-45°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	NO	
Height of Ref. Pt. Relative to Grade	-2"	
Well Diameter	2"	
Well Depth	15.10'	
Screen Interval Depth	5'-15'	
Water Table Depth	11.13'	
Intake Depth of Pump/Tubing	13.1'	

Pump Start Time 10:20
Pump Stop Time 11:05
Sample Time 11:00
Sample ID 51-14
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Expanded 8260B-VOCs

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	3.97'
Volume of Water in Well	0.65 gallon
Minutes of Pumping	45

EVACUATION INFORMATION

Volume of water removed from well 1.5 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba - U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:25	100ml		11.15		10.3	6.26	1.35	56	8.67	93
10:30	100ml		11.15		10.3	6.26	1.47	37	6.41	87
10:35	100ml		11.15		9.9	6.36	1.52	25	5.60	91
10:40	~~140ml~~ 140ml		11.16		9.7	6.33	1.51	20	5.35	93
10:45	~~140ml~~ 140ml		11.16		9.7	6.30	1.48	19	5.24	92
10:50	~~140ml~~ 140ml		11.16		10.0	6.33	1.50	15	5.10	82
10:55	~~140ml~~ 140ml		11.16		9.9	6.32	1.49	14	5.18	86
Final	140ml		11.16		9.8	6.33	1.48	10	5.09	88

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Clear, no odor, no sheen
Final Purge: Clear, odorless, no sheen
Hach Turbidity Readings: 10:40: 5ntu 10:50: 3ntu 11:00: 1ntu

SAMPLE DESTINATION

Laboratory: CTVE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. 39D
Key No. FX-37
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA 3
Sampling Personnel ~~DEG~~/BRH
Date 4/23/02 Time In / Out 1115/1220
Weather 50's Sunny

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	Y	—
Well Diameter	4"	—
Well Depth	66.03	—
Screen Interval Depth	—	56-66
Water Table Depth	6.65	—
Intake Depth of Pump/Tubing		~61'

Redevelop? Y (N)

Pump Start Time 1125
Pump Stop Time 1215
Sample Time 1210
Sample ID 39D
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)

WELL WATER INFORMATION

Length of Water Column	59.38'
Volume of Water in Well	
Minutes of Pumping	50

Natural Attenuation
Expanded VOC's

EVACUATION INFORMATION

Volume of water removed from well ~ 4.5 gal
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ISCO Peristaltic Pump
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba Flow Through w/

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1125	.350	.462	7.20		10.66	8.85	.309	32	2.36	-2
1130	.350	.924	7.50		10.46	8.75	.308	28	1.64	-10
1135	.350	1.39	7.85		10.71	8.57	.309	22	0.72	-22
1140	.350	1.85	7.94		10.80	8.55	.307	22	0.78	-30
1145	.350	2.31	8.07		10.64	8.55	.309	22	0.86	-36
1150	.350	2.77	8.12		10.55	8.55	.309	22	0.65	-38
1155	.350	3.23	8.19		10.56	8.55	.307	20	0.72	-42
1200	.350	3.69	8.20		10.53	8.55	.309	20	0.62	-44
1205	.350	4.15	8.25		10.54	8.55	.309	19	0.60	-45
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC's COLLECTED USING A DISPOSABLE TEFLON BAILER
INITIAL PURGE: SLIGHTLY TURBID, CLEAR, NO ODOR, NO SHEEN.
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: COURIER
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA3-4
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR/JCM
Date 4/23/02 Time In / Out 11:30 / 13:15
Weather Mostly cloudy, 40-45°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-4"	
Well Diameter	2"	
Well Depth	13.85'	
Screen Interval Depth	3.57'-13.57	
Water Table Depth	7.35'	
Intake Depth of Pump/Tubing	10.6'	

Pump Start Time 12:05
Pump Stop Time 13:00
Sample Time 12:55
Sample ID GMA3-4
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)

Expanded 8260B-VOCs

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	6.5'
Volume of Water in Well	1.06 gallon
Minutes of Pumping	55

EVACUATION INFORMATION

Volume of water removed from well 4 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
12:10	230ml		7.40'		12.9	6.81	0.355	630	9.48	90
12:15	160ml		7.41'		13.8	6.84	0.366	999+	7.21	88
12:20	160ml		7.42'		14.3	6.82	0.371	900	6.97	86
12:25	160ml		7.43'		14.1	6.80	0.363	340	6.90	85
12:30	160ml		7.40'		14.0	6.79	0.353	140	7.11	84
12:35	160ml		7.40'		14.0	6.78	0.348	95	7.36	85
12:40	160ml		7.42'		14.0	6.78	0.348	90	7.58	85
12:45	160ml		7.41'		13.9	6.78	0.345	80	7.69	86
12:50	160ml		7.42'		14.0	6.77	0.347	80	7.88	84
Final	160ml		7.41'		14.1	6.77	0.347	75	7.87	83

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Brown, odorless, no sheen
Final Purge: Clear, odorless, no sheen
Hach Turbidity Readings: 12:35: 13ntu 12:45: 9ntu 12:55: 7ntu
** Weston/EPA collected a split sample for expanded VOCs; **

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: Greg Lucas

GROUNDWATER SAMPLING FIELD LOG

Well No.: MW-39-E
Key No.: N/A
PID Background (ppm): 0.0
Well Headspace (ppm): 0.0

Site Name: GWA 4
Sampling Personnel: B. HATCH / D. GRIGGS
Date: 4/25/22 Time In / Out: 0800 / 0950
Weather: 40° F SUNNY

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	—	
Well Diameter	4"	
Well Depth	~235'	
Screen Interval Depth		225'-235'
Water Table Depth	6.05	
Intake Depth of Pump/Tubing	230	

Redevelop? Y (N)

Pump Start Time: 0805
Pump Stop Time: 0910
Sample Time: 0905
Sample ID: MW-39-E
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
~~TOC APPENDIX IV~~
* NATURAL ATTENUATION
* EXPANDED VOCS

WELL WATER INFORMATION

Length of Water Column	228.95
Volume of Water in Well	
Minutes of Pumping	66

EVACUATION INFORMATION

Volume of water removed from well: ~3.5 gal
Did well go dry? Y (N)
Evacuation Method: Bailer (X) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U-22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0805	.200	.264	6.20		10.69	7.17	.110	88	3.24	16
0810	.200	.528	6.50		10.37	6.98	.149	990	0.42	-59
0815	.200	.792	6.50		10.39	6.95	.160	990	0.36	-48
0820	.200	1.056	6.50		10.39	6.95	.194	990	0.23	-67
0825	.200	1.320	6.51		10.42	7.03	.254	580	0.49	-108
0830	.200	1.584	6.51		10.58	7.70	.289	299	0.61	-273
0835	.200	1.848	6.52		10.50	7.62	.286	102	1.09	-200
0840	.200	2.112	6.53		10.09	7.58	.292	53	1.87	-185
0845	.200	2.376	6.53		10.20	7.56	.244	42	0.12	-182
0850	.200	2.640	6.53		10.45	7.66	.222	36	0.22	-178
0855	.200	2.904	6.53		10.56	7.39	.198	4	0.00	-143
~~Final~~ 0900	.200	3.168	6.54		10.50	7.36	.198	4	0.00	-140

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC'S COLLECTED USING A DISPOSABLE TEFLON BAILER

INITIAL PURGE: HIGHLY TURBID, BLACK, NO ODOR, NO SHEEN.
FINAL PURGE: SLIGHTLY TURBID, BLACK, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: CT+E COURRIER
Airbill #: N/A

Field Sampling Coordinator: B. Hatch

GROUNDWATER SAMPLING FIELD LOG

Well No. 6B
Key No. N/A
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA3
Sampling Personnel DEG | RPH
Date 4/25/02 Time In / Out 1015
Weather Sunny 50's

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	X	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	1"	
Well Depth	9.25	
Screen Interval Depth		5-12
Water Table Depth	6.17	
Intake Depth of Pump/Tubing	7.71	

Pump Start Time 10:30
Pump Stop Time 11:55
Sample Time 1110
Sample ID 6B
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
FULL APPENDIX IX +3

Redevelop? Y (N)

WELL WATER INFORMATION

Length of Water Column	3.08
Volume of Water in Well	
Minutes of Pumping	84

EVACUATION INFORMATION

Volume of water removed from well ~ 3.9 gal
Did well go dry? (Y) N
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: 150 ISCO Peristaltic pump
Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba Flow through cell w/ 2100P Hach Turbidity Meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:35	175 ml	ml/min	7.71	—	9.66	7.10	1.49	16	7.96	-137
1040	.175	.231	7.71	—	9.87	7.52	1.30	9	11.02	-144
1045	.175	.462	7.71	—	9.81	7.55	1.23	6	11.10	-142
1050	.175	.693	7.71	—	9.85	7.57	1.15	5	11.16	-141
1055	.175	.924	7.71	—	9.87	7.57	1.02	4	11.13	-140
1100	.175	1.155	7.71	—	9.88	7.57	0.969	4	11.11	-137
1105	.175	1.39	7.71	—	9.90	7.57	0.858	2	11.11	-135
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC's COLLECTED USING A DISPOSABLE TEFLON BAILER
INITIAL PURGE: CLEAR, SLIGHTLY TURBID, NO ODOR, NO SHEEN.
FINAL PURGE: CLEAR, SLIGHTLY TURBID, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: Courier
Airbill #: N/A
Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. 78B-R
Key No. NP
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR/KJD
Date 4/25/02 Time In / Out 10:05/14:50
Weather Mostly cloudy, 50-55°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-3"	
Well Diameter	2"	
Well Depth	11.82	
Screen Interval Depth	1.92'-11.82'	
Water Table Depth	2.14'	
Intake Depth of Pump/Tubing	7.0'	

Redevelop? Y N

Pump Start Time 10:40
Pump Stop Time 14.48
Sample Time 11:20
Sample ID 78B-R
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B/Appendix IX+3-VOCs
Full Appendix IX+3-List
(MS/MSD collected here)

WELL WATER INFORMATION

Length of Water Column	9.68'
Volume of Water in Well	1.58 gallon
Minutes of Pumping	240

EVACUATION INFORMATION

Volume of water removed from well 13 gallons (9 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:43	200ml		2.27		10.7	7.25	1.20	70	7.05	-155
10:45	160ml		2.27		10.0	7.43	1.17	50	2.01	-175
10:50	180ml		2.20		9.4	7.45	1.14	95	0.38	-190
10:55	180ml		2.19		9.1	7.54	1.13	60	0.00	-199
11:00	180ml		2.18		9.0	7.56	1.12	40	0.00	-201
11:05	180ml		2.20		9.0	7.55	1.12	35	0.00	-202
11:10	180ml		2.20		9.0	7.54	1.12	45	0.00	-202
11:15	160ml		2.20		9.0	7.55	1.12	50	0.00	-203
Final	160ml		2.24		8.9	7.58	1.11	55	0.00	-204

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Pump: Clear, NAPL odor, no sheen
Final Pump: Clear, NAPL odor, no sheen
Hach Turbidity Meter Readings: 11:05: 6 ntu 11:20: 5 ntu
** Weston/EPA collected a split sample for Full Appendix IX Analysis **
*NAPL odor got stronger as we sampled *

SAMPLE DESTINATION

Laboratory: CTvE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. 16C
Key No. N/A
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name SWMA 3
Sampling Personnel D. HATCH D. GRIGGS
Date 4/25/22 Time In / Out 1430
Weather 40°F RAIN

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade		
Well Diameter	1"	
Well Depth		~96
Screen Interval Depth		91 - 96
Water Table Depth	8.30	
Intake Depth of Pump/Tubing		93.5

Pump Start Time 1435
Pump Stop Time 1525
Sample Time 1520
Sample ID 16C
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
NATURAL ATTENUATION

Redevelop? Y (N)

WELL WATER INFORMATION

Length of Water Column	88.7
Volume of Water in Well	
Minutes of Pumping	50

EVACUATION INFORMATION

Volume of water removed from well ~ 1.0 gal
Did well go dry? Y (N)
Evacuation Method: Bailer (N) Pump (X)
Pump Type: 150 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U-22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1435	.075	.099	8.35		9.39	7.54	0.424	61	5.33	-191
1440	.075	.198	8.90		9.48	7.62	0.399	58	4.09	-195
1445	.075	.297	13.05		9.69	7.70	0.381	42	3.38	-203
1450	.075	.396	13.68		9.32	7.81	0.374	38	5.32	-159
1455	.075	.495	13.45		8.92	7.87	0.362	55	5.43	-141
1500	.075	.594	13.45		8.85	7.87	0.361	30	5.44	-138
1505	.075	.693	13.45		8.81	7.87	0.361	28	5.44	-136
1510	.075	.1092	13.45		8.80	7.87	0.361	19	5.44	-134
1515	.075	.691	13.45		9.78	7.87	0.362	17	5.43	-135
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOCs COLLECTED W/ A DISPOSABLE TEFLON BAILER.
INITIAL PURGE: MODERATELY TURBID, CLEAR, NO ODOR, NO SHEEN.
FINAL PURGE: SLIGHTLY TURBID, CLEAR, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: GTE
Delivered Via: GTE COURRIER
Airbill #: N/A

Field Sampling Coordinator: BH 12 HA

GROUNDWATER SAMPLING FIELD LOG

Page ___ of ___

Well No. 16 E
Key No. N/A
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA3
Sampling Personnel B. HATCH P. GRIFFIN
Date 4/25/02 Time In / Out 1420
Weather 40°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	—
Height of Ref. Pt. Relative to Grade	—	—
Well Diameter	1"	—
Well Depth	—	~150
Screen Interval Depth	—	144-150
Water Table Depth	7.07	—
Intake Depth of Pump/Tubing	147	—

Redevelop? Y N

Pump Start Time 14:36
Pump Stop Time 1525
Sample Time 15:25
Sample ID 16 E

Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
NATURAL ATTENUATION

WELL WATER INFORMATION

Length of Water Column	142.93
Volume of Water in Well	
Minutes of Pumping	59 MIN.

EVACUATION INFORMATION

Volume of water removed from well ~3 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer (X) Pump ( )
Pump Type: 1500 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U22/2100P Hach Turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
~~14:40~~	375ml	initial	7.32	—	10.20	9.03	0.124	170/71	5.69	30
14:45	375ml		7.33	—	10.04	9.29	0.115	90/43	3.88	53
14:50	375ml		7.34	—	9.97	9.20	0.121	190/24	4.58	58
14:55	375ml		7.35	—	9.96	9.16	0.124	180/18	4.17	57
15:00	375ml		7.36	—	9.96	9.07	0.127	120/14	4.19	38
15:05	375ml		7.37	—	9.90	8.97	0.128	71/8	4.23	-3
15:10	375ml		7.38	—	9.87	8.89	0.133	84/8	4.20	-9
15:15	375ml		7.39	—	9.87	8.80	0.135	93/7	4.25	-41
15:20	375ml		7.40	—	9.90	8.82	0.137	48/5	4.18	-41
15:23	375ml		7.41	—	9.89	8.78	0.137	89/4	4.20	-41
										-46
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC's COLLECTED USING A DISPOSABLE TEFLON BAILER
initial water was clear w/ no odor

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via: COURRIER
Airbill #: N/A

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA3-6
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR/KJD
Date 4/25/02 Time In / Out 16:00 / 19:30
Weather Overcast, Rain, 40-45°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-3"	
Well Diameter	2"	
Well Depth 18.04'	~~11.3~~	
Screen Interval Depth	8'-18'	
Water Table Depth	11.30'	
Intake Depth of Pump/Tubing	14.7'	

Pump Start Time 16:25
Pump Stop Time 19:15
Sample Time 17:15
Sample ID GMA3-6
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Standard 8260B/Appendix IX-VOCs
Full Appendix IX +3-List

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	6.74'
Volume of Water in Well	1.10 gallon
Minutes of Pumping	170'

EVACUATION INFORMATION

Volume of water removed from well 8.5 gallons (5 gallons of sample)
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
16:30	150ml		11.31		11.6	7.26	0.93	73	4.60	-130
16:35	160ml		11.33		12.4	7.26	0.96	70	1.32	-134
16:40	180ml		11.32		13.0	7.27	0.99	58	0.40	-142
16:45	180ml		11.32		13.1	7.24	0.99	50	0.19	-145
16:50	180ml		11.32		13.2	7.23	1.01	35	0.13	-146
16:55	180ml		11.32		13.2	7.21	1.03	25	0.01	-144
17:00	180ml		11.32		13.3	7.14	1.10	17	0.00	-141
17:05	180ml		11.32		13.3	7.11	1.12	15	0.00	-138
17:10	180ml		11.32		13.3	7.09	1.14	13	0.00	-135
Final	180ml		11.33		13.3	7.05	1.16	12	0.00	-132

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Clear, slight ~~Petro~~ Petro odor, no sheen
Final Purge: Clear, slight Petro odor, no sheen
Hach Turbidity Readings: 16:45: 9ntu 17:00: 4ntu 17:15: 2ntu
** Weston/EPA collected a split sample for Full Appendix IX Analysis **

SAMPLE DESTINATION

Laboratory: CTEF
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. 43A
Key No. FX-37
PID Background (ppm) —
Well Headspace (ppm) —

Site Name GMA-3
Sampling Personnel DAC / RJP
Date 4-26-02 Time In / Out
Weather Snow @ 30°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing		
Height of Ref. Pt. Relative to Grade		
Well Diameter	1"	
Well Depth	50.95'	
Screen Interval Depth	45.95'-50.95'	
Water Table Depth	5.85	
Intake Depth of Pump/Tubing	48.5'	

Redevelop? Y N

Pump Start Time 0845
Pump Stop Time
Sample Time 0940
Sample ID 43A
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Natural Attenuation list

WELL WATER INFORMATION

Length of Water Column	45.1 ft
Volume of Water in Well	
Minutes of Pumping	45

EVACUATION INFORMATION

Volume of water removed from well 4.0 Gallons prior to Sampling
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (✓)
Pump Type: Teo
Water Quality Meter Type(s) / Serial Numbers: Horiba U-22 / HACH Turbidity Meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0850	300	.40	11.24		9.3	8.2	.154	79	3.35	-177
0855	300	.80	11.68		8.7	8.4	.155	104	1.96	-215
0900	300	1.2	11.98		8.7	8.5	.156	101	1.97	-210
0905	300	1.6	12.10		8.7	8.4	.163	60	1.64	-194
0910	300	2.0	12.18		9.1	8.3	.168	39	1.43	-182
0915	300	2.4	12.28		9.4	8.2	.173	29	1.35	-172
0920	300	2.8	12.35		9.4	8.1	.176	25	1.26	-167
0925	300	3.2	12.30		9.3	8.0	.178	18	1.23	-164
0930	300	3.6	12.24		9.2	8.0	.179	16	1.22	-162
0935	300	4.0	12.16		8.9	8.0	.180	12	1.20	-160
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS Water clear and odorless

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via:
Airbill #:

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. 43B
Key No. FX-37
PID Background (ppm) –
Well Headspace (ppm) –

Site Name GMA-3
Sampling Personnel DAC / RJP
Date 4-26-02 Time In / Out
Weather Partly Cloudy ~32°F

WELL INFORMATION

		TIC	BGL
Reference Point Marked on Casing			
Height of Ref. Pt. Relative to Grade			
Well Diameter		1"	
Well Depth	21.13	~~17.49~~	
Screen Interval Depth		16.13	
Water Table Depth		6.02	
Intake Depth of Pump/Tubing		14.0	

Pump Start Time 1000
Pump Stop Time
Sample Time 1100
Sample ID 43B
Sampled for:
(✓) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(✓) Other (Specify)
Natural Attenuation List

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	15.11
Volume of Water in Well	
Minutes of Pumping	50 min

EVACUATION INFORMATION

Volume of water removed from well 2.86 - Prior to Sampling
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (✓)
Pump Type: ISCO
Water Quality Meter Type(s) / Serial Numbers: Horiba U-22, HACH

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1005	200	0.26	8.60		9.1	7.9	1.2	80	2.92	-121
1010	200	0.52	8.00		9.1	7.9	1.2	67	2.50	-124
1015	200	0.78	7.77		9.2	7.9	1.2	36	2.13	-130
1020	200	1.04	7.64		9.1	7.9	1.2	26	1.81	-135
1025	200	1.30	7.64		9.2	7.9	1.2	24	1.65	-136
1030	200	1.56	7.61		9.3	7.9	1.2	17	1.55	-139
1035	200	1.82	7.60		9.6	7.9	1.2	16	1.49	-140
1040	200	2.08	7.60		9.2	7.9	1.2	12	1.50	-141
1045	200	2.34	7.59		9.0	7.9	1.2	11	1.46	-141
1050	200	2.60	7.59		9.1	7.9	1.2	9	1.35	-142
1055	200	2.86	7.60		9.0	7.9	1.2	9	1.33	-143
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS Water odorless and Colorless

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via:
Airbill #:

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. 16A
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel [redacted] BRH / DEG
Date 4/26/02 Time In / Out 10:15
Weather Partly cloudy, 45°-50°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade		
Well Diameter	2"	
Well Depth	50.85	
Screen Interval Depth		44-50
Water Table Depth	7.63	
Intake Depth of Pump/Tubing	47'	

Pump Start Time 10:45
Pump Stop Time [redacted] 1155
Sample Time 1150
Sample ID 16A
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Expanded 8260B-VOCs
Natural Attenuation
(MS/MSD collected)

Redevelop? Y (N)

WELL WATER INFORMATION

Length of Water Column	43.22
Volume of Water in Well	7.04
Minutes of Pumping	~70 min

EVACUATION INFORMATION

Volume of water removed from well ~6.0 gal
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X) ISCO Pump
Pump Type: ~~QED Sample Pro Bladder Pump~~
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1050	400ml	400ml	10.82	—	14.02	7.65	0.35	82	4.82	-224
1100	400ml	800ml	10.90	—	11.91	8.06	7.03	4/66	4.62	-126
1105	400ml	1200ml	11.19	—	12.03	7.83	6.94	10/72	4.45	-232
1110	400ml	1600ml	11.04	—	12.07	7.88	7.05	4/74	4.82	-232
1115	400ml	2000ml	11.06	—	11.98	7.74	7.09	2/52	4.67	-242
1120	400ml	2400ml	11.61	—	11.55	7.69	7.12	0/43	4.73	-226
1130	400ml	2800ml	11.57	—	11.38	7.57	7.22	0/32	4.69	-210
~~1140~~ 1135	400ml	3200ml	11.57	—	11.20	7.64	7.23	0/28	4.63	-208
~~1145~~ 1140	400ml	3600ml	11.57	—	11.20	7.62	7.23	0/27	4.62	-216
1145	400ml	4000ml	11.57	—	11.28	7.63	7.19	0/25	4.61	-207
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: light yellow w/ NO ODOR
Final Purge: SLIGHTLY TURBID, NO ODOR, NO SHEEN
Much Turbidity Readings.

SAMPLE DESTINATION

Laboratory: CTEH
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. 16 B-R
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR / JCM
Date 4/26/02 Time In / Out 10:40 / 13:15
Weather Partly cloudy, 40's-50°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	+3.0'	
Well Diameter	2"	
Well Depth	16.45'	
Screen Interval Depth	6.08'-16.08'	
Water Table Depth	9.30'	
Intake Depth of Pump/Tubing	12.9'	

Redevelop? Y N

Pump Start Time 10:50
Pump Stop Time 13:00
Sample Time 12:10
Sample ID 16 B-R
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Expanded 8260B - VOCs
Natural Attenuation
(DUP-7)

WELL WATER INFORMATION

Length of Water Column	7.15'
Volume of Water in Well	1.17 gallon
Minutes of Pumping	130

EVACUATION INFORMATION

Volume of water removed from well 2 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
10:55	200ml		9.60		10.2	7.68	1.16	84	5.19	-116
11:00	200ml		10.15		9.2	8.32	1.07	139	0.35	-189
11:05	200ml		10.45		9.1	8.39	0.97	203	0.14	-198
11:10	150ml		10.68		8.9	8.40	0.96	205	0.04	-197
11:15	100ml		10.71		8.9	8.36	0.99	198	0.00	-197
11:20	90ml		10.77		8.8	8.33	1.02	170	0.00	-197
11:25	90ml		10.81		8.6	8.31	1.08	144	0.00	-198
11:30	90ml		10.90		8.5	8.29	1.15	117	0.00	-199
11:35	90ml		10.93		8.4	8.28	1.18	90	0.00	-200
11:40	90ml		10.98		8.3	8.27	1.20	80	0.00	-201
11:45	90ml		11.03		8.2	8.28	1.23	65	0.00	-201
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Light-brown, colorless, no sheen
Final Purge: Clear, colorless, no sheen
High Turbidity Readings: 11:20: 58 ntu 11:40: 24 ntu 11:55: 22 ntu 12:10: 18 ntu
** Weston/EPA collected a split sample for Natural Attenuation + Expanded VOC analysis **

SAMPLE DESTINATION

Laboratory: CTYE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. 16B-R
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GARI JCM
Date 4/26/02 Time In / Out 10:40 / 13:15
Weather Cloudy, 40-50°F, Periods of Snow

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	3.0'	
Well Diameter	2"	
Well Depth	16.45	
Screen Interval Depth	6.05-16.05	
Water Table Depth	9.30	
Intake Depth of Pump/Tubing	12.9	

Redevelop? Y N

Pump Start Time 12:50
Pump Stop Time 13:00
Sample Time 12:10
Sample ID 16B-R
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Expanded 8260B-VOCs
Natural Attenuation
(DUP-7)

WELL WATER INFORMATION

Length of Water Column	7.15'
Volume of Water in Well	1.17 gallon
Minutes of Pumping	130

EVACUATION INFORMATION

Volume of water removed from well 2 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
11:50	90ml		11.03		8.4	8.26	1.25	61	0.00	-201
11:55	90ml		11.10		8.5	8.26	1.27	58	0.00	-201
12:00	90ml		11.15		8.6	8.25	1.29	55	0.00	-201
12:05	90ml		11.20		8.7	8.24	1.30	54	0.00	-200
					~~8.6~~	~~8.24~~	~~1.31~~	~~55~~	~~0.00~~	~~-200~~
Final	90ml		12.04		8.6	8.24	1.31	55	0.00	-200

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Light-brown, odorless, no sheen
Final Purge: Cloudy, odorless, no sheen
Hach Turbidity Readings: 11:20: 58ntu 11:40: 24ntu 11:55: 22ntu 12:10: 18ntu
** Weston/EPE collected a split sample for Natural Attenuation + Expanded VOCs analysis **

SAMPLE DESTINATION

Laboratory: CTYE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 3-2
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR/JCM
Date 4/26/02 Time In / Out 13:40/15:30
Weather Overcast, 35-40°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-3"	
Well Diameter	2"	
Well Depth	15.04'	
Screen Interval Depth 4.94' - 14.94'	~~5.14'~~ - ~~15.14'~~	
Water Table Depth	8.87	
Intake Depth of Pump/Tubing	11.9'	

Pump Start Time 14:00
Pump Stop Time 15:20
Sample Time 15:15
Sample ID GMA 3-2
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Expanded 8260B - VOCs

Redevelop? Y N

WELL WATER INFORMATION

Length of Water Column	6.07'
Volume of Water in Well	0.99 gallon
Minutes of Pumping	80

EVACUATION INFORMATION

Volume of water removed from well 3.5 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba - U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
14:05	150ml		8.28		9.1	7.22	6.75	180	3.70	-103
14:10	150ml		8.47		9.3	7.09	7.05	190	0.37	-101
14:15	150ml		8.68		9.5	7.07	7.15	195	0.00	-104
14:20	150ml		8.73		9.3	7.07	7.17	160	0.00	-106
14:25	120ml		8.79		9.2	7.07	7.16	130	0.00	-107
14:30	120ml		8.75		9.0	7.05	7.14	105	0.00	-107
14:35	120ml		8.75		9.1	7.02	7.13	94	0.00	-108
14:40	120ml		8.77		9.3	7.03	7.16	79	0.00	-103
14:45	120ml		8.77		9.5	7.03	7.17	57	0.00	-107
14:50	120ml		8.78		9.5	7.04	7.19	46	0.00	-107
14:55	120ml		8.79		9.4	7.04	7.18	45	0.00	-109
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Brown, slight petro odor, no sheen
Final Purge:
Hach Turbidity Readings: 14:30: 41 ntu 14:50: 18 ntu 15:10:
** Weston/EPA collected a split sample for Expanded VOC. **

SAMPLE DESTINATION

Laboratory: CTYE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA 3-2
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR / JCM
Date 7/26/02 Time In / Out 13:40 / 15:30
Weather Overcast, 35-40°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	-3"	
Well Diameter	2"	
Well Depth	15.04'	
Screen Interval Depth	4.94'-14.94'	
Water Table Depth	8.87	
Intake Depth of Pump/Tubing	11.9	

Redevelop? Y N

Pump Start Time 14:00
Pump Stop Time 15:20
Sample Time 15:15
Sample ID GMA 3-2
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
Expanded 8260B-VOCs

WELL WATER INFORMATION

Length of Water Column	6.07
Volume of Water in Well	0.99 gallon
Minutes of Pumping	80

EVACUATION INFORMATION

Volume of water removed from well 3.5 gallons
Did well go dry? Y (N)
Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
15:00	120ml		8.78		9.6	7.04	7.18	40	0.00	-109
15:05	120ml		8.77		9.7	7.04	7.20	40	0.00	-109
15:10	120ml		8.77		9.7	7.04	7.20	35	0.00	-109
Final	120ml		8.77		9.7	7.05	7.21	32	0.00	-109

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Brown, slight petro odor, no sheen
Final Purge:
Hach Turbidity Readings: 14:20: 41 ntu 14:50: 8 ntu 15:10: 10 ntu
** Weston/EPA collected a split sample for Expanded VOCs **

SAMPLE DESTINATION

Laboratory: CTEE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. 54B
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site Name GMA-3
Sampling Personnel GAR/JCM
Date 4/24/02 Time In / Out 13:40 /
Weather Sunny, 50-60°F

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Yes	
Height of Ref. Pt. Relative to Grade	+0.8'	
Well Diameter	2"	
Well Depth	10.22'	
Screen Interval Depth 7.7'- 12.7'	~~8.5'-13.5'~~	
Water Table Depth	0.16	
Intake Depth of Pump/Tubing	9'	

Redevelop? Y N

Pump Start Time 14:15
Pump Stop Time
Sample Time
Sample ID 54B
Sampled for:
( ) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)

Standard 8260B/Appendix IX-VOCs
Full Appendix IX+3-List

WELL WATER INFORMATION

Length of Water Column	10.06'
Volume of Water in Well	1.64 gallon
Minutes of Pumping	

EVACUATION INFORMATION

Volume of water removed from well
Did well go dry? Y N

Evacuation Method: Bailer ( ) Pump (X)
Pump Type: QED Sample Pro Bladder Pump
Water Quality Meter Type(s) / Serial Numbers: Horiba-U22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
14:20	140ml		1.85		10.2	6.89	0.244	990	5.61	-100
14:25	140ml		2.52		8.6	6.85	0.235	970	1.22	-98
14:30										
14:35										
14:40										
14:45										
14:50										
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS Initial Purge: Brown, odorless, no sheen
Final Purge
Huch Turbidity Readings:
High organic content in well kept clogging bladder pump intake, will try with an Isco pump

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via: Courier
Airbill #: NA

Field Sampling Coordinator:

2/3

GROUNDWATER SAMPLING FIELD LOG

Well No. 54B
Key No. —
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA3
Sampling Personnel DEG / BRH
Date 4/26/02 Time In / Out 8.54 /
Weather 40's OVERCAST

WELL INFORMATION

	TIC	BGL	
Reference Point Marked on Casing	Y	—	
Height of Ref. Pt. Relative to Grade	—	—	
Well Diameter	2"	—	
Well Depth	—	~~50.57~~	9.03
Screen Interval Depth	—	8.5-13.5	
Water Table Depth	—	~~4.46'~~	1.21
Intake Depth of Pump/Tubing	—	~5	

Redevelop? (Y) N

Pump Start Time 0910
Pump Stop Time 1015
Sample Time —
Sample ID 54B
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
(X) SVOCs / 4 deg. ASP 95-2
(X) PCBs (Total) / 4 deg. ASP 95-3
(X) PCBs (Dissolved) / 4 deg. ASP 95-3
(X) Metals (Total) / HNO3, 4 deg. ASP methods
(X) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
FULL APPENDIX IX +3

WELL WATER INFORMATION

Length of Water Column	7.82'
Volume of Water in Well	1.27
Minutes of Pumping	

EVACUATION INFORMATION

Volume of water removed from well ~3.5
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Pump (X)
Pump Type: ~~[illegible]~~ 150/500 peristaltic

Water Quality Meter Type(s) / Serial Numbers: U-22 Horiba Flow Through Cell / 2100P Hach Turbidity METER

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
0915	100 ml	.182	4.50	~~4.56~~	7.62	6.84	0.454	386	9.08	-113
0920	100 ml	.264	4.90	—	7.79	6.88	0.456	332	5.82	-102
0925	50 ml	.330	5.21	—	8.10	6.93	0.447	512	9.48	-93
0930	.050	.396	5.21	—	7.89	7.01	0.440	690	10.11	-95
0935	.050	.462	5.21	—	7.66	7.10	0.431	757	11.86	-95
0940	.050	.528	5.21	—	7.52	7.13	0.428	898	11.92	-94
0945	.050	.594	5.21	—	7.44	7.14	0.422	1000	12.06	-93
0950	.050	.660	5.21	—	7.52	7.15	0.420	1000	11.98	-92
0955	.050	.726	5.21	—	7.62	7.16	0.416	1000	11.84	-90
1000	.050	.792	5.21	—	7.98	7.18	0.411	1000	11.62	-90
1005	.050	.858	5.21	—						-90
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC's COLLECTED USING A DISPOSABLE TEFLON BAILER.

INITIAL PURGE: HIGHLY TURBID, ~~CLEAR~~, NO ODOR, NO SHEEN.
FINAL PURGE. HIGHLY TURBID, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: COURIER
Airbill #: N/A

Field Sampling Coordinator: GAR

GROUNDWATER SAMPLING FIELD LOG

Well No. 54B
Key No. N/A
PID Background (ppm) 0.0
Well Headspace (ppm) 0.0

Site Name GMA 3
Sampling Personnel BRH / DEG
Date 4/29/02 Time In / Out 1200 / 1625
Weather 35°F RAIN/SNOW

WELL INFORMATION

	TIC	BGL
Reference Point Marked on Casing	Y	
Height of Ref. Pt. Relative to Grade	+0.8"	
Well Diameter	2"	
Well Depth	9.41	
Screen Interval Depth	7.7'-12.7'	
Water Table Depth	1.05	
Intake Depth of Pump/Tubing	9'	

Redevelop? Y (N)

Pump Start Time 1205
Pump Stop Time 1615
Sample Time 1210
Sample ID 54B
Sampled for:
(X) VOCs / HCL, 4 deg. ASP 95-1
( ) SVOCs / 4 deg. ASP 95-2
( ) PCBs (Total) / 4 deg. ASP 95-3
( ) PCBs (Dissolved) / 4 deg. ASP 95-3
( ) Metals (Total) / HNO3, 4 deg. ASP methods
( ) Metals (Dissolved) / 4 deg. ASP methods
(X) Other (Specify)
FULL APPENDIX IX +3

WELL WATER INFORMATION

Length of Water Column	8.36
Volume of Water in Well	1.36 gallons
Minutes of Pumping	250

EVACUATION INFORMATION

Volume of water removed from well ~2.5 gal
Did well go dry? (Y) N
Evacuation Method: Bailer (X) Pump (X)
Pump Type: ISCO 150 PORTABLE PUMP
Water Quality Meter Type(s) / Serial Numbers: HORIBA U-22

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (TIC)	Depth to Water	Temp. (Celcius)	pH	Cond. (mS/cm)	Turbidity (NTU)	DO (mg/l)	ORP (mV)
1205	.100		1.30		7.5	6.04	0.43	600	4.83	5
1220	.100		5.21		6.7	6.47	0.34	760	8.04	-41
1300	.50		6.02		6.8	6.38	0.28	920	9.25	-45
1400	.50		6.08		6.6	6.33	0.31	910	9.01	-46
1500	.50		6.08		6.3	6.36	0.26	987	9.45	-48
Final										

MISCELLANEOUS OBSERVATIONS/PROBLEMS * VOC's COLLECTED USING A DISPOSABLE TEFLON BAILER.
INITIAL PURGE: MODERATELY TURBID, NO SHEEN, NO ODOR.
FINAL PURGE: HIGHLY TURBID, NO ODOR, NO SHEEN.

SAMPLE DESTINATION

Laboratory: CT+E
Delivered Via: CT+E COURRIER
Airbill #: N/A

Field Sampling Coordinator: GAR

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(1)

CLIENT: BBL

CONTACT: Gregg Rabasco PHONE NO: (413) 822-1184

PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield-GMA-3

REPORTS TO: Nick Smith FAX NO: (315) 445-9161

INVOICE TO:

P.O. NUMBER: 201.86.001

CT&E Reference:

PAGE 1 OF 1

(2)

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3) Standard 8260B / Full Append IX-VOCs Append IX 1X+3 List	REMARKS
	54B	4/29/02	12:10	Water	12	G		21 10	Filtered PCB Samples
	Trip Blank	4/29/02	—	Water	2	G		2	Filtered Metal Samples to be filtered by the lab

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Gregg Rabasco	4/30/02	8:00	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C:

Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

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CLIENT: BBL

CONTACT: Gregg Rabasco PHONE NO: (413) 822-1184

PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield-GMA-3

REPORTS TO: Nick Smith FAX NO: (315) 445-9161

INVOICE TO:

P.O. NUMBER: 201.86.001

CT&E Reference:

PAGE 1 OF 1

(2)

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3) Standard 8260B / Appendix IX+ VOCs	Full Appendix IX+3 List	Expanded 8260B VOCs	Natural Attenuation	Expanded 8260B VOCs - MS/MSD	Natural Attenuation MS/MSD	REMARKS
	GMA3-6	4/25/02	17:15	Water	12	G		2	10					Filtered PCBs and
	43A	4/26/02	9:40	Water	7	G				2	5			Filtered Metals are
	43B	4/26/02	11:00	Water	7	G				2	5			to be filtered by
	16A	4/26/02	11:50	Water	21	G				2	5	4	10	the lab
	16B-R	4/26/02	12:10	Water	7	G				2	5			
	GMA3-2	4/26/02	15:15	Water	12	G				2	5			
	DUP-7	4/26/02	—	Water	7	G				2	5			
	Trip Blank	4/26/02	—	Water	2	G				2				

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Gregg Rabasco	4/26/02	16:10	
Relinquished By: (2)	Date	Time	Received By:
	4/26/02		
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C:

Special Deliverable Requirements:

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

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(1)

CLIENT: BBL

CONTACT: Gregg Rabasco PHONE NO: (413) 822-1184

PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield-GMA-3

REPORTS TO: Nick Smith FAX NO: (315) 445-9161

INVOICE TO:

P.O. NUMBER: 201.86.001

CT&E Reference

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(2)

LAB NO	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3) Expanded 8260B VOCs	Natural Attenuation List	REMARKS
	002A	4/23/02	10:15	Water	7	G		2	5	Filtered PCBs and Filtered Metals are to be filtered by the lab
	51-14	4/23/02	11:00	Water	2	G		2		
	39D	4/23/02	12:10	Water	7	G		2	5	
	GMA3-4	4/23/02	12:55	Water	2	G		2		
										Note: Trip Blank for these samples is on GMA-4 chain of custody dated 4/23/02

(5)

	Date	Time	
Collected/Relinquished By: (1)	4/23/02	17:50	Received By:
Relinquished By: (2)	4/23/02		Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:

Shipping Ticket No:

Samples Received Cold? (Circle) YES NO

Temperature °C:

Special Deliverable Requirements:

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and Special Instructions:

Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

CHAIN OF CUSTODY RECORD

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(1)
CLIENT: BBL
CONTACT: Greg Rabasco PHONE NO: (413) 822-1184
PROJECT: Baseline Semi-Annual Groundwater Sampling SITE: G.E. Pittsfield-GMA-3
REPORTS TO: Nick Smith FAX NO: (315) 445-9161
INVOICE TO: P.O. NUMBER: 201.86.001

CT&E Reference:

PAGE 1 OF 1

(2)

I.D. NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	No. CONTAINERS	SAMPLE TYPE C=COMP G=GRAB	Preservatives Used	Analysis Required (3) Expanded 8260B VOCs	Natural Attenuation	Standard 8260B/Appendix IX+ VOCs	Full Appendix IX+3 List	Standard 8260B/ Appendix IX+VOCs+MS/MSD	Full Appendix IX+3 List+MS/MSD	REMARKS
	MW-39-E	4/25/02	9:05	Water	7	G		2	5					Filtered PCBs and
	6B	4/25/02	11:10	Water	12	G				2	10			Filtered Metals are
	78B-R	4/25/02	11:20	Water	36	G				2	10	4	20	to be filtered by
	16C	4/25/02	15:20	Water	7	G		2	5					the lab
	16E	4/25/02	15:25	Water	7	G		2	5					
	Trip Blank	4/25/02	—	Water	2	G		2						

(5)

Collected/Relinquished By: (1)	Date	Time	Received By:
Greg Rabasco	4/25/02	18:00	
Relinquished By: (2)	Date	Time	Received By:
	4/25/02		
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

(4)

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? (Circle) YES NO
Temperature °C:
Special Deliverable Requirements:
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and Special Instructions:
Standard Turnaround Time

1258 Greenbrier Street Charleston, WV 25311 Tel: (304) 346-0725 Fax: (304) 346-0761

White - Retained by Lab Pink - Retained by Sampler

Appendix C

LNAPL Monitoring and Recovery Data

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engineers & scientists

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
51-11	994.66	1/2/2002	7.62	---	0.00	987.04	0.000	0.00
51-11	994.66	1/7/2002	9.86	---	0.00	984.80	0.000	
51-11	994.66	2/12/2002	9.75	---	0.00	984.91	0.000	
51-11	994.37	2/28/2002	9.69	---	0.00	984.68	0.000	
51-11	994.37	3/25/2002	8.84	---	0.00	985.53	0.000	
51-11	994.37	4/30/2002	8.50	---	0.00	985.87	0.000	
51-11	994.37	5/22/2002	7.75	---	0.00	986.62	0.000	
51-11	994.37	6/26/2002	8.63	---	0.00	985.74	0.000	
51-12	996.75	1/2/2002	7.84	---	0.00	988.91	0.000	0.00
51-12	996.75	1/7/2002	7.95	---	0.00	988.80	0.000	
51-12	996.75	2/12/2002	7.52	---	0.00	989.23	0.000	
51-12	996.55	2/28/2002	DRY	---	0.00	N/A	0.000	
51-12	996.55	3/25/2002	7.28	---	0.00	989.27	0.000	
51-12	996.55	4/30/2002	7.28	---	0.00	989.27	0.000	
51-12	996.55	5/22/2002	7.11	---	0.00	989.44	0.000	
51-12	996.55	6/26/2002	7.52	---	0.00	989.03	0.000	
51-13	997.65	1/2/2002	DRY	---	0.00	<987.64	0.000	0.00
51-13	997.65	1/7/2002	DRY	---	0.00	<987.64	0.000	
51-13	997.65	2/12/2002	DRY	---	0.00	<987.64	0.000	
51-13	997.42	2/28/2002	DRY	---	0.00	<987.41	0.000	
51-13	997.42	3/25/2002	DRY	---	0.00	<987.41	0.000	
51-13	997.42	4/30/2002	DRY	---	0.00	<987.41	0.000	
51-13	997.42	5/22/2002	DRY	---	0.00	<987.41	0.000	
51-13	997.42	6/26/2002	DRY	---	0.00	<987.41	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
51-14	996.77	1/2/2002	11.60	---	0.00	985.17	0.000	0.00
51-14	996.77	1/7/2002	11.70	---	0.00	985.07	0.000	
51-14	996.77	2/7/2002	11.71	---	0.00	985.06	0.000	
51-14	996.77	2/12/2002	11.75	---	0.00	985.02	---	
51-14	996.77	3/25/2002	11.48	---	0.00	985.29	0.000	
51-14	996.77	4/23/2002	11.13	---	0.00	985.64	---	
51-14	996.77	4/30/2002	10.95	---	0.00	985.82	---	
51-14	996.77	5/22/2002	10.71	---	0.00	986.06	0.000	
51-14	996.77	6/26/2002	10.98	---	0.00	985.79	0.000	
51-15	996.43	1/2/2002	11.82	11.20	0.62	985.19	0.380	0.73
51-15	996.43	1/8/2002	12.14	11.31	0.83	985.06	0.000	
51-15	996.43	2/12/2002	11.79	11.23	0.56	985.16	0.350	
51-15	996.43	3/25/2002	11.49	11.05	0.44	985.35	0.000	
51-15	996.43	4/30/2002	10.71	10.53	0.18	985.89	0.000	
51-15	996.43	5/22/2002	10.35	10.22	0.13	986.20	0.000	
51-15	996.43	6/26/2002	10.62	10.46	0.16	985.96	0.000	
51-16	996.46	1/2/2002	9.50	---	0.00	986.96	0.000	0.00
51-16	996.46	1/8/2002	9.55	---	0.00	986.91	0.000	
51-16R	996.39	2/22/2002	11.62	11.52	0.10	984.86	0.000	
51-16R	996.39	3/25/2002	11.20	10.99	0.21	985.39	0.000	
51-16R	996.39	4/30/2002	10.51	10.50	0.01	985.89	0.000	
51-16R	996.39	5/22/2002	10.19	10.16	0.03	986.23	0.000	
51-16R	996.39	6/26/2002	10.75	10.40	0.35	985.97	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
51-17	996.43	1/2/2002	11.62	---	0.00	984.81	0.000	3.01
51-17	996.43	1/8/2002	11.03	---	0.00	985.40	0.000	
51-17	996.43	2/5/2002	11.34	---	0.00	985.09	0.000	
51-17	996.43	2/12/2002	12.25	11.03	1.22	985.31	0.750	
51-17	996.43	3/25/2002	12.01	10.80	1.21	985.55	0.745	
51-17	996.43	4/30/2002	11.52	10.28	1.24	986.06	0.757	
51-17	996.43	6/26/2002	11.43	10.20	1.23	986.14	0.760	
51-18	997.31	1/2/2002	12.05	---	0.00	985.26	0.000	0.00
51-18	997.31	1/7/2002	12.10	---	0.00	985.21	0.000	
51-18	997.31	2/12/2002	12.03	---	0.00	985.28	0.000	
51-18	997.31	3/25/2002	11.64	---	0.00	985.67	0.000	
51-18	997.12	4/30/2002	11.13	---	0.00	985.99	0.000	
51-18	997.12	5/22/2002	10.82	---	0.00	986.30	0.000	
51-18	997.12	6/26/2002	11.11	---	0.00	986.01	0.000	
51-19	996.50	1/2/2002	11.92	11.25	0.67	985.20	0.410	2.65
51-19	996.50	1/7/2002	11.90	11.35	0.55	985.11	0.000	
51-19	996.50	2/12/2002	11.90	11.33	0.57	985.13	0.350	
51-19	996.50	3/25/2002	11.66	11.03	0.63	985.43	0.390	
51-19	996.43	4/30/2002	11.21	10.51	0.70	985.87	0.379	
51-19	996.43	5/22/2002	10.41	10.25	0.16	986.17	0.640	
51-19	996.43	6/26/2002	11.24	10.45	0.79	985.92	0.485	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
51-21	996.35	1/2/2002	15.34	15.33	0.01	981.02	0.000	545.09
51-21	996.35	1/9/2002	16.46	---	<0.01	979.89	109.777	
51-21	996.35	1/16/2002	16.58	16.55	0.03	979.80	0.000	
51-21	996.35	1/23/2002	15.63	16.58	0.05	980.77	0.000	
51-21	996.35	1/31/2002	16.87	16.49	0.38	979.83	109.777	
51-21	996.35	2/6/2002	16.46	16.45	0.01	979.90	0.000	
51-21	996.35	2/13/2002	16.40	16.38	0.02	979.97	0.000	
51-21	996.35	2/20/2002	17.38	16.37	1.01	979.91	0.000	
51-21	996.35	3/6/2002	16.31	---	<0.01	980.04	0.000	
51-21	996.35	3/13/2002	16.25	16.21	0.04	980.14	109.777	
51-21	996.35	3/20/2002	16.27	---	<0.01	980.08	0.000	
51-21	996.35	3/27/2002	16.27	---	<0.01	980.08	0.000	
51-21	996.35	4/3/2002	15.85	---	<0.01	980.50	0.000	
51-21	996.35	4/10/2002	15.80	15.79	0.01	980.56	109.774	
51-21	996.35	4/17/2002	15.69	---	<0.01	980.66	0.000	
51-21	996.35	4/24/2002	15.72	---	<0.01	980.63	105.988	
51-21	996.35	5/2/2002	15.61	---	<0.01	980.74	0.000	
51-21	996.35	5/15/2002	15.43	---	<0.01	980.92	0.000	
51-21	996.35	6/5/2002	15.55	15.54	0.01	980.81	0.000	
51-21	996.35	6/12/2002	15.35	---	<0.01	981.00	0.000	
51-21	996.35	6/19/2002	15.41	---	<0.01	980.94	0.000	
51-21	996.35	6/26/2002	15.60	---	<0.01	980.75	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
59-1	996.72	1/2/2002	DRY	---	0.00	<985.39	0.000	0.00
59-1	996.72	1/7/2002	DRY	---	0.00	<985.39	0.000	
59-1	996.72	2/12/2002	DRY	---	0.00	<985.39	0.000	
59-1	996.72	3/25/2002	DRY	---	0.00	<985.39	0.000	
59-1	997.52	4/30/2002	DRY	---	0.00	<986.19	0.000	
59-1	997.52	5/22/2002	DRY	---	0.00	<986.19	0.000	
59-1	997.52	6/26/2002	DRY	---	0.00	<986.19	0.000	
59-3	997.79	1/2/2002	13.40	12.65	0.75	985.09	0.460	3.17
59-3	997.79	1/7/2002	13.59	12.65	0.94	985.07	0.000	
59-3R	997.64	2/25/2002	12.81	---	0.00	984.83	0.000	
59-3R	997.64	3/25/2002	13.21	12.33	0.88	985.25	0.540	
59-3R	997.64	4/30/2002	12.80	11.79	1.01	985.78	0.606	
59-3R	997.64	5/22/2002	12.89	11.39	1.50	986.15	0.925	
59-3R	997.64	6/26/2002	12.63	11.60	1.03	985.97	0.635	
59-7	997.96	1/2/2002	13.45	12.92	0.53	985.00	0.325	2.02
59-7	997.96	1/7/2002	13.47	12.98	0.49	984.95	0.000	
59-7	997.96	2/5/2002	14.08	12.91	1.17	984.97	0.000	
59-7	997.96	2/12/2002	13.56	12.73	0.83	985.17	0.510	
59-7	997.96	3/25/2002	13.66	12.50	1.16	985.38	0.715	
59-7	997.96	4/30/2002	12.77	12.00	0.77	985.91	0.473	
59-7	997.96	5/23/2002	11.74	11.71	0.03	986.25	0.000	
59-7	997.96	6/26/2002	11.99	11.90	0.09	986.05	0.000	
111A	997.57	1/8/2002	14.95	---	0.00	982.62	0.000	0.00
111B	996.75	1/8/2002	14.50	---	0.00	982.25	0.000	0.00
111B	996.75	2/6/2002	14.50	---	0.00	982.25	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
114A	986.16	1/9/2002	9.81	---	0.00	976.35	0.000	0.00
114B	984.98	1/9/2002	6.53	---	0.00	978.45	0.000	0.00
114C	986.68	1/9/2002	9.29	---	0.00	977.39	0.000	0.00
16A	991.77	1/8/2002	9.23	---	0.00	982.54	0.000	0.00
16A	991.77	2/11/2002	9.22	---	0.00	982.55	0.000	
16A	991.77	4/26/2002	7.63	---	0.00	984.14	0.000	
16B-R	994.87	2/5/2002	9.57	---	0.00	985.30	0.000	0.00
16B-R	994.87	4/26/2002	9.30	---	0.00	985.57	0.000	
16C	991.47	1/8/2002	20.87	---	0.00	970.60	0.000	0.00
16C	991.47	2/11/2002	12.04	---	0.00	979.43	0.000	
16C	991.47	4/25/2002	7.30	---	0.00	984.17	0.000	
16E	992.14	1/8/2002	17.95	---	0.00	974.19	0.000	0.00
16E	992.14	2/11/2002	17.60	---	0.00	974.54	0.000	
2A	994.16	1/7/2002	9.24	---	0.00	984.92	0.000	0.00
2A	994.16	2/12/2002	9.04	---	0.00	985.12	0.000	
2A	994.16	4/23/2002	8.55	---	0.00	985.61	0.000	
34B	1,000.56	1/2/2002	DRY	---	0.00	<983.56	0.000	0.00
34B	1,000.56	1/8/2002	15.71	---	0.00	984.85	0.000	
34B	1,000.56	2/12/2002	OBSTRUCTED	---	0.00	N/A	0.000	
34B	1,000.56	3/25/2002	15.38	---	0.00	985.18	0.000	
34B	1,000.56	4/30/2002	14.67	---	0.00	985.89	0.000	
34B	1,000.56	5/22/2002	14.35	---	0.00	986.21	0.000	
34B	1,000.56	6/26/2002	14.57	---	0.00	985.99	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
35B	997.36	1/2/2002	12.51	---	0.00	984.85	0.000	0.00
35B	997.36	1/8/2002	12.61	---	0.00	984.75	0.000	
35B	997.36	2/12/2002	12.56	---	0.00	984.80	0.000	
35B	997.36	3/25/2002	12.35	---	0.00	985.01	0.000	
35B	997.36	4/30/2002	11.83	---	0.00	985.53	0.000	
35B	997.36	5/22/2002	11.48	---	0.00	985.88	0.000	
35B	997.36	6/26/2002	11.76	---	0.00	985.60	0.000	
39B	991.74	1/7/2002	OBSTRUCTED	---	0.00	N/A	0.000	0.00
39D	992.16	1/7/2002	7.29	---	0.00	984.87	0.000	0.00
39D	992.16	2/13/2002	7.48	---	0.00	984.68	0.000	
39D	992.16	4/23/2002	6.65	---	0.00	985.51	0.000	
39E	992.21	1/7/2002	6.96	---	0.00	985.25	0.000	0.00
39E	992.21	2/12/2002	6.69	---	0.00	985.52	0.000	
39E	992.21	4/25/2002	6.05	---	0.00	986.16	0.000	
43A	993.79	1/8/2002	11.02	---	0.00	982.77	0.000	0.00
43A	993.79	2/8/2002	10.05	---	0.00	983.74	0.000	
43A	993.79	4/16/2002	8.11	---	0.00	985.68	0.000	
43A	993.79	4/26/2002	5.85	---	0.00	987.94	0.000	
43B	993.61	1/8/2002	6.64	---	0.00	986.97	0.000	0.00
43B	993.61	2/8/2002	6.26	---	0.00	987.35	0.000	
43B	993.61	4/16/2002	5.89	---	0.00	987.72	0.000	
43B	993.61	4/26/2002	6.02	---	0.00	987.59	0.000	
50A	992.07	1/9/2002	4.45	---	0.00	987.62	0.000	0.00
50A	992.07	2/12/2002	4.13	---	0.00	987.94	0.000	
50B	991.76	4/16/2002	3.12	---	0.00	988.64	0.000	0.00

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
51-5	996.44	1/2/2002	12.27	11.42	0.85	984.96	0.520	1.47
51-5	996.44	1/7/2002	12.29	11.34	0.95	985.03	0.000	
51-5	996.44	2/12/2002	12.36	11.54	0.82	984.84	0.505	
51-5	996.44	3/25/2002	11.81	11.10	0.71	985.29	0.440	
51-5	996.44	4/30/2002	10.72	10.63	0.09	985.80	0.000	
51-5	996.44	5/22/2002	10.30	10.25	0.05	986.19	0.000	
51-5	996.44	6/26/2002	10.55	10.51	0.04	985.93	0.000	
51-6	997.36	1/2/2002	11.55	---	0.00	985.81	0.000	0.00
51-6	997.36	1/7/2002	11.61	---	0.00	985.75	0.000	
51-6	997.36	2/12/2002	11.70	---	0.00	985.66	0.000	
51-6	997.36	3/25/2002	11.54	---	0.00	985.82	0.000	
51-6	997.36	4/30/2002	11.09	---	0.00	986.27	0.000	
51-6	997.36	5/22/2002	10.78	---	0.00	986.58	0.000	
51-6	997.36	6/26/2002	11.00	---	0.00	986.36	0.000	
51-7	996.81	1/2/2002	11.20	---	0.00	985.61	0.000	0.00
51-7	996.81	1/7/2002	10.68	---	0.00	986.13	0.000	
51-7	996.81	2/12/2002	9.97	---	0.00	986.84	0.000	
51-7	996.81	3/25/2002	DRY	---	0.00	<981.81	0.000	
51-7	997.08	4/30/2002	11.14	---	0.00	985.94	0.000	
51-7	997.08	5/22/2002	10.79	---	0.00	986.29	0.000	
51-7	997.08	6/26/2002	10.99	---	0.00	986.09	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
51-8	997.08	1/2/2002	13.10	11.90	1.20	985.10	0.740	5.22
51-8	997.08	1/7/2002	13.29	11.94	1.35	985.05	0.000	
51-8	997.08	2/12/2002	13.43	11.94	1.49	985.04	0.920	
51-8	997.08	3/25/2002	13.11	11.72	1.39	985.26	0.860	
51-8	997.08	4/30/2002	12.70	11.20	1.50	985.78	0.946	
51-8	997.08	5/22/2002	12.19	10.86	1.33	986.13	0.820	
51-8	997.08	6/26/2002	12.56	11.05	1.51	985.92	0.930	
51-9	997.70	1/2/2002	9.71	---	0.00	987.99	0.000	0.00
51-9	997.70	1/7/2002	10.85	---	0.00	986.85	0.000	
51-9	997.70	2/12/2002	11.83	---	0.00	985.87	0.000	
51-9	997.70	3/25/2002	11.32	---	0.00	986.38	0.000	
51-9	997.70	4/30/2002	10.25	---	0.00	987.45	0.000	
51-9	997.70	5/22/2002	10.36	---	0.00	987.34	0.000	
51-9	997.70	6/26/2002	10.86	---	0.00	986.84	0.000	
54B	987.96	1/9/2002	1.30	---	0.00	986.66	0.000	0.00
54B	987.96	2/13/2002	1.06	---	0.00	986.90	0.000	
54B	987.96	4/16/2002	1.08	---	0.00	986.88	0.000	
54B	987.96	4/24/2002	0.16	---	0.00	987.80	0.000	
54B	987.96	4/26/2002	1.21	---	0.00	986.75	0.000	
54B	987.96	4/29/2002	1.05	---	0.00	986.91	0.000	
6B	993.01	1/7/2002	6.42	---	0.00	986.59	0.000	0.00
6B	993.01	2/7/2002	6.05	---	0.00	986.96	0.000	
6B	993.01	4/25/2002	6.17	---	0.00	986.84	0.000	
74B	995.54	1/9/2002	7.57	---	0.00	987.97	0.000	0.00
78B-R	988.83	2/4/2002	2.14	---	0.00	986.69	0.000	0.00
78B-R	988.83	4/16/2002	1.76	---	0.00	987.07	0.000	
78B-R	988.83	4/25/2002	2.14	---	0.00	986.69	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
82B	990.08	1/7/2002	5.65	---	0.00	984.43	0.000	0.00
82B	990.08	2/7/2002	5.19	---	0.00	984.89	0.000	
89A	985.76	1/8/2002	4.38	---	0.00	981.38	0.000	0.00
89B	986.03	1/8/2002	OBSTRUCTED	---	0.00	N/A	0.000	0.00
89D	985.42	1/8/2002	8.30	---	0.00	977.12	0.000	0.00
90A	988.07	1/8/2002	6.39	---	0.00	981.68	0.000	0.00
90B	989.10	1/8/2002	7.46	---	0.00	981.64	0.000	0.00
95A	987.18	1/9/2002	7.27	---	0.00	979.91	0.000	0.00
95B	988.72	1/9/2002	8.95	---	0.00	979.77	0.000	0.00
95C	988.16	1/9/2002	FROZEN	---	0.00	N/A	0.000	0.00
GMA3-2	991.94	2/5/2002	8.03	---	0.00	983.91	0.000	0.00
GMA3-2	991.94	4/26/2002	8.87	---	0.00	983.07	0.000	
GMA3-4	994.60	2/7/2002	8.13	---	0.00	N/A	0.000	0.00
GMA3-4	994.60	4/16/2002	7.25	---	0.00	N/A	0.000	
GMA3-4	994.60	4/23/2002	7.35	---	0.00	N/A	0.000	
GMA3-6	997.49	2/4/2002	11.79	---	0.00	N/A	0.000	0.00
GMA3-6	997.49	4/25/2002	11.30	---	0.00	N/A	0.000	
OBG-2	992.24	1/7/2002	5.61	---	0.00	986.63	0.000	0.00
OBG-2	992.24	2/6/2002	5.54	---	0.00	986.70	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
UB-MW-10	996.11	1/2/2002	10.73	---	0.00	985.38	0.000	0.00
UB-MW-10	996.11	1/8/2002	10.81	---	0.00	985.30	0.000	
UB-MW-10	996.11	2/12/2002	10.81	10.80	0.01	985.31	0.000	
UB-MW-10	996.11	2/28/2002	---	14.05	1.49	<980.57	0.000	
UB-MW-10	996.11	3/11/2002	10.60	10.58	0.02	985.53	0.000	
UB-MW-10	996.11	3/25/2002	10.61	---	0.00	985.50	0.000	
UB-MW-10	996.11	4/30/2002	10.00	---	0.00	986.11	0.000	
UB-MW-10	996.11	5/22/2002	9.66	---	0.00	986.45	0.000	
UB-MW-10	995.99	6/26/2002	9.90	---	0.00	986.09	0.000	
UB-PZ-1	999.70	1/2/2002	DRY	---	0.00	<986.48	0.000	0.00
UB-PZ-1	999.70	1/7/2002	DRY	---	0.00	<986.48	0.000	
UB-PZ-1	999.70	2/12/2002	DRY	---	0.00	<986.48	0.000	
UB-PZ-1	999.70	3/25/2002	DRY	---	0.00	<986.48	0.000	
UB-PZ-1	999.70	5/22/2002	DRY	---	0.00	<986.48	0.000	
UB-PZ-1	999.70	6/26/2002	DRY	---	0.00	<986.48	0.000	
UB-PZ-1	999.70	4/30/2003	DRY	---	0.00	<986.48	0.000	
UB-PZ-2	994.77	1/2/2002	10.10	---	0.00	984.67	0.000	0.00
UB-PZ-2	994.77	1/7/2002	10.31	---	0.00	984.46	0.000	
UB-PZ-2	994.77	2/12/2002	FROZEN @ 0.67	---	---	---	0.000	
UB-PZ-2	994.77	3/25/2002	9.81	---	---	984.96	0.000	
UB-PZ-2	994.77	5/22/2002	8.71	---	0.00	986.06	0.000	
UB-PZ-2	994.77	6/26/2002	9.51	---	0.00	985.26	0.000	
UB-PZ-2	994.77	4/30/2003	9.42	---	0.00	985.35	0.000	

TABLE C-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL MONITORING AND RECOVERY DATA
JANUARY - JUNE 2002

Well Number	Measuring Point Elevation (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Groundwater Elevation (ft AMSL)	LNAPL Removal	
							Daily (liters)	Total for Well (liters)
UB-PZ-3	998.15	1/2/2002	13.37	13.11	0.26	985.02	0.000	0.00
UB-PZ-3	998.15	1/7/2002	DRY	---	0.00	N/A	0.000	
UB-PZ-3	998.15	2/12/2002	13.39	13.21	0.18	984.93	0.000	
UB-PZ-3	998.15	3/25/2002	13.41	13.40	0.01	984.75	0.000	
UB-PZ-3	998.15	4/30/2002	12.45	12.44	0.01	985.71	0.000	
UB-PZ-3	998.15	5/22/2002	12.31	12.10	0.21	986.04	0.000	
UB-PZ-3	998.15	6/26/2002	12.61	12.20	0.41	985.92	0.000	

Total amount of LNAPL Recovered - January through June 2002: **563.36 liters**
148.83 gallons

NOTES

1. --- indicates LNAPL or DNAPL was not present in a measurable quantity
2. N/A indicates information not available.
3. N/M indicates data not measured.
4. N/R indicates information not recorded.
5. Several wells were repaired in February 2002, resulting in the development of new measuring point elevations after completion of those activities.

Appendix D

LNAPL Analytical Data

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

TABLE D-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

Parameter / Sample ID: / Date Collected:	51-15-OIL-1 08/19/02	51-19-OIL-1 08/19/02	59-3R-OIL-1 08/19/02
Volatile Organics			
1,1,1-Trichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1,2,2-Tetrachloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1,2-Trichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1-Dichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,1-Dichloroethene	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dichloroethane	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dichloroethene (total)	ND(5.0)	ND(5.0)	ND(5.0)
1,2-Dichloropropane	ND(5.0)	ND(5.0)	ND(5.0)
2-Butanone	ND(5.0)	ND(5.0)	ND(5.0)
2-Hexanone	ND(5.0)	ND(5.0)	ND(5.0)
4-Methyl-2-pentanone	ND(5.0)	ND(5.0)	ND(5.0)
Acetone	ND(5.0)	ND(5.0)	ND(5.0)
Benzene	ND(5.0)	ND(5.0)	ND(5.0)
Bromodichloromethane	ND(5.0)	ND(5.0)	ND(5.0)
Bromoform	ND(5.0)	ND(5.0)	ND(5.0)
Bromomethane	ND(5.0)	ND(5.0)	ND(5.0)
Carbon Disulfide	ND(5.0)	ND(5.0)	ND(5.0)
Carbon Tetrachloride	ND(5.0)	ND(5.0)	ND(5.0)
Chlorobenzene	ND(5.0)	ND(5.0)	ND(5.0)
Chloroethane	ND(5.0)	ND(5.0)	ND(5.0)
Chloroform	ND(5.0)	ND(5.0)	ND(5.0)
Chloromethane	ND(5.0)	ND(5.0)	ND(5.0)
cis-1,3-Dichloropropene	ND(5.0)	ND(5.0)	ND(5.0)
Dibromochloromethane	ND(5.0)	ND(5.0)	ND(5.0)
Ethylbenzene	110	29	ND(5.0)
Methylene Chloride	ND(5.0)	ND(5.0)	ND(5.0)
Styrene	ND(5.0)	ND(5.0)	ND(5.0)
Tetrachloroethene	ND(5.0)	ND(5.0)	ND(5.0)
Toluene	ND(5.0)	ND(5.0)	ND(5.0)
trans-1,3-Dichloropropene	ND(5.0)	ND(5.0)	ND(5.0)
Trichloroethene	ND(5.0)	ND(5.0)	ND(5.0)
Vinyl Chloride	ND(5.0)	ND(5.0)	ND(5.0)
Xylenes (total)	67	87	ND(5.0)
PCBs			
Aroclor-1016	ND(1.0)	ND(7.6)	ND(7.6)
Aroclor-1221	ND(1.0)	ND(7.6)	ND(7.6)
Aroclor-1232	ND(1.0)	ND(7.6)	ND(7.6)
Aroclor-1242	ND(1.0)	ND(7.6)	ND(7.6)
Aroclor-1248	ND(1.0)	ND(7.6)	ND(7.6)
Aroclor-1254	9.8	ND(7.6)	ND(7.6)
Aroclor-1260	16	100	76
Total PCBs	25.8	100	76

(See Notes on Page 3)

TABLE D-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

Parameter / Sample ID: / Date Collected:	51-15-OIL-1 08/19/02	51-19-OIL-1 08/19/02	59-3R-OIL-1 08/19/02
Semivolatile Organics			
1,2,4-Trichlorobenzene	ND(220)	ND(110)	31 J
1,2-Dichlorobenzene	ND(220)	ND(110)	ND(110)
1,3-Dichlorobenzene	ND(220)	ND(110)	ND(110)
1,4-Dichlorobenzene	ND(220)	65 J	ND(110)
2,4,5-Trichlorophenol	ND(220)	ND(110)	ND(110)
2,4,6-Trichlorophenol	ND(220)	ND(110)	ND(110)
2,4-Dichlorophenol	ND(220)	ND(110)	ND(110)
2,4-Dimethylphenol	ND(220)	ND(110)	ND(110)
2,4-Dinitrophenol	ND(1100)	ND(550)	ND(570)
2,4-Dinitrotoluene	ND(220)	ND(110)	ND(110)
2,6-Dinitrotoluene	ND(220)	ND(110)	ND(110)
2-Chloronaphthalene	ND(220)	ND(110)	ND(110)
2-Chlorophenol	ND(220)	ND(110)	ND(110)
2-Methylnaphthalene	4400	750	ND(110)
2-Methylphenol	ND(220)	ND(110)	ND(110)
2-Nitroaniline	ND(1100)	ND(550)	ND(570)
2-Nitrophenol	ND(220)	ND(110)	ND(110)
3&4-Methylphenol	ND(220)	ND(110)	ND(110)
3,3'-Dichlorobenzidine	ND(440)	ND(220)	ND(230)
3-Nitroaniline	ND(1100)	ND(550)	ND(570)
4,6-Dinitro-2-methylphenol	ND(1100)	ND(550)	ND(570)
4-Bromophenyl-phenylether	ND(220)	ND(110)	ND(110)
4-Chloro-3-Methylphenol	ND(220)	ND(110)	ND(110)
4-Chloroaniline	ND(220)	ND(110)	ND(110)
4-Chlorophenyl-phenylether	ND(220)	ND(110)	ND(110)
4-Nitroaniline	ND(1100)	ND(550)	ND(570)
4-Nitrophenol	ND(1100)	ND(550)	ND(570)
Acenaphthene	860	ND(110)	ND(110)
Acenaphthylene	ND(220)	ND(110)	ND(110)
Anthracene	ND(220)	ND(110)	ND(110)
Benzo(a)anthracene	ND(220)	ND(110)	ND(110)
Benzo(a)pyrene	ND(220)	ND(110)	ND(110)
Benzo(b)fluoranthene	ND(220)	ND(110)	ND(110)
Benzo(g,h,i)perylene	ND(220)	ND(110)	ND(110)
Benzo(k)fluoranthene	ND(220)	ND(110)	ND(110)
Benzoic Acid	300	ND(110)	ND(110)
Benzyl Alcohol	ND(220)	ND(110)	ND(110)
bis(2-Chloroethoxy)methane	ND(220)	ND(110)	ND(110)
bis(2-Chloroethyl)ether	ND(220)	ND(110)	ND(110)
bis(2-Chloroisopropyl)ether	ND(220)	ND(110)	ND(110)
bis(2-Ethylhexyl)phthalate	ND(220)	ND(110)	ND(110)
Butylbenzylphthalate	ND(220)	ND(110)	ND(110)
Chrysene	ND(220)	ND(110)	ND(110)
Dibenzo(a,h)anthracene	ND(220)	ND(110)	ND(110)

(See Notes on Page 3)

TABLE D-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
LNAPL ANALYTICAL RESULTS

(Results are presented in parts per million, unless otherwise noted)

Parameter / Sample ID: / Date Collected:	51-15-OIL-1 08/19/02	51-19-OIL-1 08/19/02	59-3R-OIL-1 08/19/02
Semivolatile Organics (continued)			
Dibenzofuran	ND(220)	ND(110)	ND(110)
Diethylphthalate	ND(220)	ND(110)	ND(110)
Dimethylphthalate	ND(220)	ND(110)	ND(110)
Di-n-Butylphthalate	ND(220)	ND(110)	ND(110)
Di-n-Octylphthalate	ND(220)	ND(110)	ND(110)
Fluoranthene	ND(220)	ND(110)	ND(110)
Fluorene	670	100 J	ND(110)
Hexachlorobenzene	ND(220)	ND(110)	ND(110)
Hexachlorobutadiene	ND(440)	ND(220)	ND(230)
Hexachlorocyclopentadiene	ND(220)	ND(110)	ND(110)
Hexachloroethane	ND(220)	ND(110)	ND(110)
Indeno(1,2,3-cd)pyrene	ND(220)	ND(110)	ND(110)
Isophorone	ND(220)	ND(110)	ND(110)
Naphthalene	1900	330	ND(110)
Nitrobenzene	ND(220)	ND(110)	ND(110)
N-Nitroso-di-n-propylamine	ND(440)	ND(220)	ND(230)
N-Nitrosodiphenylamine	ND(220)	ND(110)	ND(110)
Pentachlorophenol	ND(1100)	ND(550)	ND(570)
Phenanthrene	1500	240	ND(110)
Phenol	ND(220)	ND(110)	ND(110)
Pyrene	370	57 J	ND(110)
Physical Parameters			
Interfacial Tension (mN/m)	289.00	272.00	260.70
Kinematic Viscosity @100 °C (mm^2/s)	2.338	2.669	3.018
Specific Gravity @60/60 °F (unitless)	0.9583	0.8957	0.8974

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs, volatiles, semivolatiles, Interfacial Tension, Kinematic Viscosity, and Specific Gravity.
2. ND - Analyte was not detected. The number in parentheses is the associated detection limit.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles,)

J - Indicates an estimated value less than the practical quantitation limit (PQL)

(See Notes on Page 3)

Appendix E

Groundwater Analytical Results

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) J [ND(0.0050) J]	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,1-Dichloroethene	ND(0.0050)	ND(0.0010)	ND(0.010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dibromoethane	ND(0.0050)	ND(0.0010)	ND(0.010)	ND(0.0010) [ND(0.0010)]	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J [ND(0.20) J]	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.010) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.010) J	ND(0.0050) J [ND(0.0050) J]	ND(0.0050) J
Benzene	4.4	0.20	7.5	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Bromomethane	ND(0.0050)	ND(0.0020)	ND(0.010)	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chlorobenzene	8.2	0.082	16	ND(0.0050) [ND(0.0050)]	0.0027 J
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	0.0054 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J	ND(0.20) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Methylene Chloride	0.0082	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J	ND(0.020) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Tetrachloroethene	ND(0.0050)	ND(0.0020)	ND(0.010) J	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Toluene	0.16	ND(0.0050)	0.35	ND(0.0050) [ND(0.0050)]	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	0.014	ND(0.0050) [ND(0.0050)]	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichloroethene	0.47	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.010) J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Vinyl Chloride	ND(0.0050)	ND(0.0020)	0.16	ND(0.0020) [ND(0.0020)]	ND(0.0020)
Xylenes (total)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Total VOCs	13	0.28	24	ND(0.20) [ND(0.20)]	0.0027 J

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
PCBs-Unfiltered					
Aroclor-1016	NS	ND(0.000065)	NS	NS	NS
Aroclor-1221	NS	ND(0.000065)	NS	NS	NS
Aroclor-1232	NS	ND(0.000065)	NS	NS	NS
Aroclor-1242	NS	ND(0.000065)	NS	NS	NS
Aroclor-1248	NS	ND(0.000065)	NS	NS	NS
Aroclor-1254	NS	ND(0.000065)	NS	NS	NS
Aroclor-1260	NS	ND(0.000065)	NS	NS	NS
Total PCBs	NS	ND(0.000065)	NS	NS	NS
PCBs-Filtered					
Aroclor-1016	NS	ND(0.000065)	NS	NS	NS
Aroclor-1221	NS	ND(0.000065)	NS	NS	NS
Aroclor-1232	NS	ND(0.000065)	NS	NS	NS
Aroclor-1242	NS	ND(0.000065)	NS	NS	NS
Aroclor-1248	NS	ND(0.000065)	NS	NS	NS
Aroclor-1254	NS	ND(0.000065)	NS	NS	NS
Aroclor-1260	NS	ND(0.000065)	NS	NS	NS
Total PCBs	NS	ND(0.000065)	NS	NS	NS
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NS	ND(0.010)	NS	NS	NS
1,2,4-Trichlorobenzene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Dichlorobenzene	0.016	ND(0.010)	0.084	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,2-Diphenylhydrazine	NS	ND(0.010)	NS	NS	NS
1,3,5-Trinitrobenzene	NS	ND(0.010) J	NS	NS	NS
1,3-Dichlorobenzene	ND(0.0050)	ND(0.010)	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,3-Dinitrobenzene	NS	ND(0.010) J	NS	NS	NS
1,4-Dichlorobenzene	0.024	ND(0.010)	0.16	ND(0.0050) [ND(0.0050)]	ND(0.0050)
1,4-Naphthoquinone	NS	ND(0.010)	NS	NS	NS
1-Naphthylamine	NS	ND(0.010)	NS	NS	NS
2,3,4,6-Tetrachlorophenol	NS	ND(0.010)	NS	NS	NS
2,4,5-Trichlorophenol	NS	ND(0.010)	NS	NS	NS
2,4,6-Trichlorophenol	NS	ND(0.010)	NS	NS	NS
2,4-Dichlorophenol	NS	ND(0.010)	NS	NS	NS
2,4-Dimethylphenol	NS	ND(0.010)	NS	NS	NS
2,4-Dinitrophenol	NS	ND(0.050)	NS	NS	NS
2,4-Dinitrotoluene	NS	ND(0.010)	NS	NS	NS
2,6-Dichlorophenol	NS	ND(0.010)	NS	NS	NS
2,6-Dinitrotoluene	NS	ND(0.010) J	NS	NS	NS
2-Acetylaminofluorene	NS	ND(0.010)	NS	NS	NS
2-Chloronaphthalene	NS	ND(0.010)	NS	NS	NS
2-Chlorophenol	NS	ND(0.010)	NS	NS	NS
2-Methylnaphthalene	NS	ND(0.010)	NS	NS	NS
2-Methylphenol	NS	ND(0.010)	NS	NS	NS
2-Naphthylamine	NS	ND(0.010)	NS	NS	NS
2-Nitroaniline	NS	ND(0.050)	NS	NS	NS
2-Nitrophenol	NS	ND(0.010)	NS	NS	NS
2-Picoline	NS	ND(0.010)	NS	NS	NS
3&4-Methylphenol	NS	ND(0.010)	NS	NS	NS
3,3'-Dichlorobenzidine	NS	ND(0.020)	NS	NS	NS
3,3'-Dimethylbenzidine	NS	ND(0.010)	NS	NS	NS
3-Methylcholanthrene	NS	ND(0.010)	NS	NS	NS
3-Nitroaniline	NS	ND(0.050)	NS	NS	NS
4,6-Dinitro-2-methylphenol	NS	ND(0.050)	NS	NS	NS
4-Aminobiphenyl	NS	ND(0.010)	NS	NS	NS
4-Bromophenyl-phenylether	NS	ND(0.010)	NS	NS	NS
4-Chloro-3-Methylphenol	NS	ND(0.010)	NS	NS	NS
4-Chloroaniline	NS	ND(0.010)	NS	NS	NS
4-Chlorobenzilate	NS	ND(0.010)	NS	NS	NS
4-Chlorophenyl-phenylether	NS	ND(0.010)	NS	NS	NS
4-Nitroaniline	NS	ND(0.050)	NS	NS	NS

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
Semivolatile Organics (continued)					
4-Nitrophenol	NS	ND(0.050)	NS	NS	NS
4-Nitroquinoline-1-oxide	NS	ND(0.010)	NS	NS	NS
4-Phenylenediamine	NS	ND(0.010) J	NS	NS	NS
5-Nitro-o-toluidine	NS	ND(0.010)	NS	NS	NS
7,12-Dimethylbenz(a)anthracene	NS	ND(0.010) J	NS	NS	NS
a,a'-Dimethylphenethylamine	NS	ND(0.010)	NS	NS	NS
Acenaphthene	NS	ND(0.010)	NS	NS	NS
Acenaphthylene	NS	ND(0.010)	NS	NS	NS
Acetophenone	NS	ND(0.010)	NS	NS	NS
Aniline	NS	ND(0.010)	NS	NS	NS
Anthracene	NS	ND(0.010)	NS	NS	NS
Aramite	NS	ND(0.010) J	NS	NS	NS
Benzidine	NS	ND(0.020) J	NS	NS	NS
Benzo(a)anthracene	NS	ND(0.010)	NS	NS	NS
Benzo(a)pyrene	NS	ND(0.010)	NS	NS	NS
Benzo(b)fluoranthene	NS	ND(0.010)	NS	NS	NS
Benzo(g,h,i)perylene	NS	ND(0.010)	NS	NS	NS
Benzo(k)fluoranthene	NS	ND(0.010)	NS	NS	NS
Benzyl Alcohol	NS	ND(0.020)	NS	NS	NS
bis(2-Chloroethoxy)methane	NS	ND(0.010)	NS	NS	NS
bis(2-Chloroethyl)ether	NS	ND(0.010)	NS	NS	NS
bis(2-Chloroisopropyl)ether	NS	ND(0.010)	NS	NS	NS
bis(2-Ethylhexyl)phthalate	NS	ND(0.0060)	NS	NS	NS
Butylbenzylphthalate	NS	ND(0.010)	NS	NS	NS
Chrysene	NS	ND(0.010)	NS	NS	NS
Diallate	NS	ND(0.010)	NS	NS	NS
Dibenzo(a,h)anthracene	NS	ND(0.010)	NS	NS	NS
Dibenzofuran	NS	ND(0.010)	NS	NS	NS
Diethylphthalate	NS	ND(0.010)	NS	NS	NS
Dimethoate	NS	ND(0.050)	NS	NS	NS
Dimethylphthalate	NS	ND(0.010)	NS	NS	NS
Di-n-Butylphthalate	NS	ND(0.010)	NS	NS	NS
Di-n-Octylphthalate	NS	ND(0.010)	NS	NS	NS
Diphenylamine	NS	ND(0.010)	NS	NS	NS
Disulfoton	NS	ND(0.010)	NS	NS	NS
Ethyl Methanesulfonate	NS	ND(0.010)	NS	NS	NS
Ethyl Parathion	NS	ND(0.010)	NS	NS	NS
Famphur	NS	ND(0.050)	NS	NS	NS
Fluoranthene	NS	ND(0.010)	NS	NS	NS
Fluorene	NS	ND(0.010)	NS	NS	NS
Hexachlorobenzene	NS	ND(0.010)	NS	NS	NS
Hexachlorobutadiene	NS	ND(0.0010)	NS	NS	NS
Hexachlorocyclopentadiene	NS	ND(0.010)	NS	NS	NS
Hexachloroethane	NS	ND(0.010)	NS	NS	NS
Hexachlorophene	NS	ND(0.020)	NS	NS	NS
Hexachloropropene	NS	ND(0.010) J	NS	NS	NS
Indeno(1,2,3-cd)pyrene	NS	ND(0.010)	NS	NS	NS
Isodrin	NS	ND(0.010)	NS	NS	NS
Isophorone	NS	ND(0.010)	NS	NS	NS
Isosafrole	NS	ND(0.010)	NS	NS	NS
Kepone	NS	ND(0.050)	NS	NS	NS
Methapyrilene	NS	ND(0.010)	NS	NS	NS
Methyl Methanesulfonate	NS	ND(0.010)	NS	NS	NS
Methyl Parathion	NS	ND(0.010)	NS	NS	NS
Naphthalene	0.0072	ND(0.010)	0.060 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)
Nitrobenzene	NS	ND(0.010)	NS	NS	NS
N-Nitrosodiethylamine	NS	ND(0.010)	NS	NS	NS
N-Nitrosodimethylamine	NS	ND(0.010)	NS	NS	NS
N-Nitroso-di-n-butylamine	NS	ND(0.010)	NS	NS	NS
N-Nitroso-di-n-propylamine	NS	ND(0.010)	NS	NS	NS
N-Nitrosodiphenylamine	NS	ND(0.010)	NS	NS	NS

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
Semivolatile Organics (continued)					
N-Nitrosomethylethylamine	NS	ND(0.010)	NS	NS	NS
N-Nitrosomorpholine	NS	ND(0.010)	NS	NS	NS
N-Nitrosopiperidine	NS	ND(0.010)	NS	NS	NS
N-Nitrosopyrrolidine	NS	ND(0.010)	NS	NS	NS
o,o,o-Triethylphosphorothioate	NS	ND(0.010)	NS	NS	NS
o-Toluidine	NS	ND(0.010)	NS	NS	NS
p-Dimethylaminoazobenzene	NS	ND(0.010)	NS	NS	NS
Pentachlorobenzene	NS	ND(0.010)	NS	NS	NS
Pentachloroethane	NS	ND(0.010)	NS	NS	NS
Pentachloronitrobenzene	NS	ND(0.010) J	NS	NS	NS
Pentachlorophenol	NS	ND(0.050)	NS	NS	NS
Phenacetin	NS	ND(0.010)	NS	NS	NS
Phenanthrene	NS	ND(0.010)	NS	NS	NS
Phenol	NS	ND(0.010)	NS	NS	NS
Phorate	NS	ND(0.010)	NS	NS	NS
Pronamide	NS	ND(0.010)	NS	NS	NS
Pyrene	NS	ND(0.010)	NS	NS	NS
Pyridine	NS	ND(0.010)	NS	NS	NS
Safrole	NS	ND(0.010)	NS	NS	NS
Sulfotep	NS	ND(0.010)	NS	NS	NS
Thionazin	NS	ND(0.010)	NS	NS	NS
Organochlorine Pesticides					
4,4'-DDD	NS	ND(0.00010)	NS	NS	NS
4,4'-DDE	NS	ND(0.00010)	NS	NS	NS
4,4'-DDT	NS	ND(0.00010)	NS	NS	NS
Aldrin	NS	ND(0.000050)	NS	NS	NS
Alpha-BHC	NS	ND(0.000050)	NS	NS	NS
Alpha-Chlordane	NS	ND(0.000050)	NS	NS	NS
Beta-BHC	NS	ND(0.000050)	NS	NS	NS
Delta-BHC	NS	ND(0.000050)	NS	NS	NS
Dieldrin	NS	ND(0.00010)	NS	NS	NS
Endosulfan I	NS	ND(0.00010)	NS	NS	NS
Endosulfan II	NS	ND(0.00010)	NS	NS	NS
Endosulfan Sulfate	NS	ND(0.00010)	NS	NS	NS
Endrin	NS	ND(0.00010)	NS	NS	NS
Endrin Aldehyde	NS	ND(0.00010)	NS	NS	NS
Endrin Ketone	NS	ND(0.00010)	NS	NS	NS
Gamma-BHC (Lindane)	NS	ND(0.000050)	NS	NS	NS
Gamma-Chlordane	NS	ND(0.000050)	NS	NS	NS
Heptachlor	NS	ND(0.000050)	NS	NS	NS
Heptachlor Epoxide	NS	ND(0.000050)	NS	NS	NS
Methoxychlor	NS	ND(0.00050)	NS	NS	NS
Technical Chlordane	NS	ND(0.00050)	NS	NS	NS
Toxaphene	NS	ND(0.0010)	NS	NS	NS
Herbicides					
2,4,5-T	NS	ND(0.0020)	NS	NS	NS
2,4,5-TP	NS	ND(0.0020)	NS	NS	NS
2,4-D	NS	ND(0.010)	NS	NS	NS
Dinoseb	NS	ND(0.0010)	NS	NS	NS
Furans					
2,3,7,8-TCDF	NS	ND(0.0000000035) X	NS	NS	NS
TCDFs (total)	NS	ND(0.0000000028)	NS	NS	NS
1,2,3,7,8-PeCDF	NS	0.000000014 J	NS	NS	NS
2,3,4,7,8-PeCDF	NS	0.000000011 J	NS	NS	NS
PeCDFs (total)	NS	0.000000026	NS	NS	NS
1,2,3,4,7,8-HxCDF	NS	0.000000011 J	NS	NS	NS
1,2,3,6,7,8-HxCDF	NS	0.0000000099 J	NS	NS	NS
1,2,3,7,8,9-HxCDF	NS	0.000000010 J	NS	NS	NS
2,3,4,6,7,8-HxCDF	NS	0.0000000091 J	NS	NS	NS
HxCDFs (total)	NS	0.000000040	NS	NS	NS
1,2,3,4,6,7,8-HpCDF	NS	0.0000000078 J	NS	NS	NS
1,2,3,4,7,8,9-HpCDF	NS	ND(0.0000000070) X	NS	NS	NS
HpCDFs (total)	NS	0.0000000078	NS	NS	NS
OCDF	NS	0.000000013 J	NS	NS	NS
Dioxins					

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	002A 04/23/02	6B 04/25/02	16A 04/26/02	16B-R 04/26/02	16C 04/25/02
2,3,7,8-TCDD	NS	ND(0.0000000042) X	NS	NS	NS
TCDDs (total)	NS	ND(0.0000000033)	NS	NS	NS
1,2,3,7,8-PeCDD	NS	0.000000013 J	NS	NS	NS
PeCDDs (total)	NS	0.000000013	NS	NS	NS
1,2,3,4,7,8-HxCDD	NS	ND(0.0000000094) X	NS	NS	NS
1,2,3,6,7,8-HxCDD	NS	0.0000000093 J	NS	NS	NS
1,2,3,7,8,9-HxCDD	NS	0.0000000092 J	NS	NS	NS
HxCDDs (total)	NS	0.000000018	NS	NS	NS
1,2,3,4,6,7,8-HpCDD	NS	0.0000000095 J	NS	NS	NS
HpCDDs (total)	NS	0.0000000095	NS	NS	NS
OCDD	NS	0.000000019 J	NS	NS	NS
Total TEQ (WHO TEFs)	NS	0.000000028	NS	NS	NS
Inorganics-Unfiltered					
Antimony	NS	ND(0.0600)	NS	NS	NS
Arsenic	NS	ND(0.0100)	NS	NS	NS
Barium	NS	ND(0.200)	NS	NS	NS
Beryllium	NS	ND(0.00100)	NS	NS	NS
Cadmium	NS	ND(0.00500)	NS	NS	NS
Chromium	NS	ND(0.0100)	NS	NS	NS
Cobalt	NS	ND(0.0500)	NS	NS	NS
Copper	NS	ND(0.0250)	NS	NS	NS
Cyanide	NS	0.00350 B	NS	NS	NS
Lead	NS	ND(0.00300)	NS	NS	NS
Mercury	NS	ND(0.000200)	NS	NS	NS
Nickel	NS	ND(0.0400)	NS	NS	NS
Selenium	NS	ND(0.00500)	NS	NS	NS
Silver	NS	ND(0.00500)	NS	NS	NS
Sulfide	NS	ND(5.00)	NS	NS	NS
Thallium	NS	ND(0.0100) J	NS	NS	NS
Tin	NS	ND(0.0300)	NS	NS	NS
Vanadium	NS	ND(0.0500)	NS	NS	NS
Zinc	NS	ND(0.0200) J	NS	NS	NS
Inorganics-Filtered					
Antimony	NS	ND(0.0600)	NS	NS	NS
Arsenic	NS	ND(0.100)	NS	NS	NS
Barium	NS	ND(0.200)	NS	NS	NS
Beryllium	NS	ND(0.00100)	NS	NS	NS
Cadmium	NS	ND(0.0100)	NS	NS	NS
Chromium	NS	ND(0.0250)	NS	NS	NS
Cobalt	NS	ND(0.0500)	NS	NS	NS
Copper	NS	ND(0.100)	NS	NS	NS
Lead	NS	ND(0.00300)	NS	NS	NS
Mercury	NS	ND(0.000200)	NS	NS	NS
Nickel	NS	ND(0.0400)	NS	NS	NS
Selenium	NS	ND(0.00500)	NS	NS	NS
Silver	NS	ND(0.00500)	NS	NS	NS
Thallium	NS	ND(0.0100) J	NS	NS	NS
Tin	NS	ND(0.0300)	NS	NS	NS
Vanadium	NS	ND(0.0500)	NS	NS	NS
Zinc	NS	ND(0.0200) J	NS	NS	NS
Natural Attenuation Parameters					
Alkalinity (Total)	140	NS	490	480 [480]	160
Chloride	40	NS	1700	290 [280]	4.0
Dissolved Organic Carbon	11.0	NS	59.0	11.0 [15.0]	8.70
Ethane	0.017	NS	ND(0.050)	ND(0.10) [ND(0.20)]	ND(0.50)
Ethene	0.30	NS	0.15	ND(0.10) [ND(0.20)]	ND(0.50)
Dissolved Iron	ND(0.0500)	NS	1.30	0.360 [ND(0.0500)]	ND(0.0500)
Methane	0.0450	NS	1.40	2.70 [2.70]	12.0
Nitrate Nitrogen	0.0490 B	NS	0.0140 B	0.0270 B [0.0320 B]	0.150
Nitrite Nitrogen	0.00300 B	NS	ND(0.0500)	0.00360 B [0.00340 B]	ND(0.0500)
Sulfate (turbidimetric)	30.0	NS	5.30	15.0 [16.0]	3.60

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050) J	ND(0.0050) J	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	0.0063	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0034 J	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Toluene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	0.011
Xylenes (total)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	0.0063	ND(0.20)	ND(0.20)	0.0034 J	0.011

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TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
PCBs-Unfiltered						
Aroclor-1016	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1221	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1232	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1242	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1248	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1254	NS	NS	NS	NS	NS	0.000078
Aroclor-1260	NS	NS	NS	NS	NS	ND(0.000065)
Total PCBs	NS	NS	NS	NS	NS	0.000078
PCBs-Filtered						
Aroclor-1016	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1221	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1232	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1242	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1248	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1254	NS	NS	NS	NS	NS	ND(0.000065)
Aroclor-1260	NS	NS	NS	NS	NS	ND(0.000065)
Total PCBs	NS	NS	NS	NS	NS	ND(0.000065)
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NS	NS	NS	NS	NS	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,2-Dichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,2-Diphenylhydrazine	NS	NS	NS	NS	NS	ND(0.010)
1,3,5-Trinitrobenzene	NS	NS	NS	NS	NS	ND(0.010)
1,3-Dichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,3-Dinitrobenzene	NS	NS	NS	NS	NS	ND(0.010)
1,4-Dichlorobenzene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,4-Naphthoquinone	NS	NS	NS	NS	NS	ND(0.010)
1-Naphthylamine	NS	NS	NS	NS	NS	ND(0.010)
2,3,4,6-Tetrachlorophenol	NS	NS	NS	NS	NS	ND(0.010) J
2,4,5-Trichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,4,6-Trichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,4-Dichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,4-Dimethylphenol	NS	NS	NS	NS	NS	ND(0.010)
2,4-Dinitrophenol	NS	NS	NS	NS	NS	ND(0.050)
2,4-Dinitrotoluene	NS	NS	NS	NS	NS	ND(0.010)
2,6-Dichlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2,6-Dinitrotoluene	NS	NS	NS	NS	NS	ND(0.010) J
2-Acetylaminofluorene	NS	NS	NS	NS	NS	ND(0.010)
2-Chloronaphthalene	NS	NS	NS	NS	NS	ND(0.010)
2-Chlorophenol	NS	NS	NS	NS	NS	ND(0.010)
2-Methylnaphthalene	NS	NS	NS	NS	NS	ND(0.010)
2-Methylphenol	NS	NS	NS	NS	NS	ND(0.010)
2-Naphthylamine	NS	NS	NS	NS	NS	ND(0.010)
2-Nitroaniline	NS	NS	NS	NS	NS	ND(0.050) J
2-Nitrophenol	NS	NS	NS	NS	NS	ND(0.010)
2-Picoline	NS	NS	NS	NS	NS	ND(0.010)
3&4-Methylphenol	NS	NS	NS	NS	NS	ND(0.010)
3,3'-Dichlorobenzidine	NS	NS	NS	NS	NS	ND(0.020)
3,3'-Dimethylbenzidine	NS	NS	NS	NS	NS	ND(0.010)
3-Methylcholanthrene	NS	NS	NS	NS	NS	ND(0.010)
3-Nitroaniline	NS	NS	NS	NS	NS	ND(0.050)
4,6-Dinitro-2-methylphenol	NS	NS	NS	NS	NS	ND(0.050)
4-Aminobiphenyl	NS	NS	NS	NS	NS	ND(0.010)
4-Bromophenyl-phenylether	NS	NS	NS	NS	NS	ND(0.010)
4-Chloro-3-Methylphenol	NS	NS	NS	NS	NS	ND(0.010)
4-Chloroaniline	NS	NS	NS	NS	NS	ND(0.010)
4-Chlorobenzilate	NS	NS	NS	NS	NS	ND(0.010) J
4-Chlorophenyl-phenylether	NS	NS	NS	NS	NS	ND(0.010)
4-Nitroaniline	NS	NS	NS	NS	NS	ND(0.050)

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GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
Semivolatile Organics (continued)						
4-Nitrophenol	NS	NS	NS	NS	NS	ND(0.050)
4-Nitroquinoline-1-oxide	NS	NS	NS	NS	NS	ND(0.010)
4-Phenylenediamine	NS	NS	NS	NS	NS	ND(0.010) J
5-Nitro-o-toluidine	NS	NS	NS	NS	NS	ND(0.010)
7,12-Dimethylbenz(a)anthracene	NS	NS	NS	NS	NS	ND(0.010)
a,a'-Dimethylphenethylamine	NS	NS	NS	NS	NS	ND(0.010) J
Acenaphthene	NS	NS	NS	NS	NS	ND(0.010)
Acenaphthylene	NS	NS	NS	NS	NS	ND(0.010)
Acetophenone	NS	NS	NS	NS	NS	ND(0.010)
Aniline	NS	NS	NS	NS	NS	ND(0.010)
Anthracene	NS	NS	NS	NS	NS	ND(0.010)
Aramite	NS	NS	NS	NS	NS	ND(0.010)
Benzidine	NS	NS	NS	NS	NS	ND(0.020)
Benzo(a)anthracene	NS	NS	NS	NS	NS	ND(0.010)
Benzo(a)pyrene	NS	NS	NS	NS	NS	ND(0.010)
Benzo(b)fluoranthene	NS	NS	NS	NS	NS	ND(0.010)
Benzo(g,h,i)perylene	NS	NS	NS	NS	NS	ND(0.010)
Benzo(k)fluoranthene	NS	NS	NS	NS	NS	ND(0.010)
Benzyl Alcohol	NS	NS	NS	NS	NS	ND(0.020)
bis(2-Chloroethoxy)methane	NS	NS	NS	NS	NS	ND(0.010)
bis(2-Chloroethyl)ether	NS	NS	NS	NS	NS	ND(0.010)
bis(2-Chloroisopropyl)ether	NS	NS	NS	NS	NS	ND(0.010)
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	ND(0.0060)
Butylbenzylphthalate	NS	NS	NS	NS	NS	ND(0.010)
Chrysene	NS	NS	NS	NS	NS	ND(0.010)
Diallate	NS	NS	NS	NS	NS	ND(0.010)
Dibenzo(a,h)anthracene	NS	NS	NS	NS	NS	ND(0.010)
Dibenzofuran	NS	NS	NS	NS	NS	ND(0.010)
Diethylphthalate	NS	NS	NS	NS	NS	ND(0.010)
Dimethoate	NS	NS	NS	NS	NS	ND(0.050)
Dimethylphthalate	NS	NS	NS	NS	NS	ND(0.010)
Di-n-Butylphthalate	NS	NS	NS	NS	NS	ND(0.010)
Di-n-Octylphthalate	NS	NS	NS	NS	NS	ND(0.010)
Diphenylamine	NS	NS	NS	NS	NS	ND(0.010) J
Disulfoton	NS	NS	NS	NS	NS	ND(0.010)
Ethyl Methanesulfonate	NS	NS	NS	NS	NS	ND(0.010)
Ethyl Parathion	NS	NS	NS	NS	NS	ND(0.010)
Famphur	NS	NS	NS	NS	NS	ND(0.050)
Fluoranthene	NS	NS	NS	NS	NS	ND(0.010)
Fluorene	NS	NS	NS	NS	NS	ND(0.010)
Hexachlorobenzene	NS	NS	NS	NS	NS	ND(0.010)
Hexachlorobutadiene	NS	NS	NS	NS	NS	ND(0.0010)
Hexachlorocyclopentadiene	NS	NS	NS	NS	NS	ND(0.010)
Hexachloroethane	NS	NS	NS	NS	NS	ND(0.010)
Hexachlorophene	NS	NS	NS	NS	NS	ND(0.020)
Hexachloropropene	NS	NS	NS	NS	NS	ND(0.010) J
Indeno(1,2,3-cd)pyrene	NS	NS	NS	NS	NS	ND(0.010)
Isodrin	NS	NS	NS	NS	NS	ND(0.010)
Isophorone	NS	NS	NS	NS	NS	ND(0.010)
Isosafrole	NS	NS	NS	NS	NS	ND(0.010)
Kepone	NS	NS	NS	NS	NS	ND(0.050)
Methapyrilene	NS	NS	NS	NS	NS	ND(0.010)
Methyl Methanesulfonate	NS	NS	NS	NS	NS	ND(0.010)
Methyl Parathion	NS	NS	NS	NS	NS	ND(0.010)
Naphthalene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
Nitrobenzene	NS	NS	NS	NS	NS	ND(0.010)
N-Nitrosodiethylamine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitrosodimethylamine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitroso-di-n-butylamine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitroso-di-n-propylamine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitrosodiphenylamine	NS	NS	NS	NS	NS	ND(0.010)

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
Semivolatile Organics (continued)						
N-Nitrosomethylethylamine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitrosomorpholine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitrosopiperidine	NS	NS	NS	NS	NS	ND(0.010)
N-Nitrosopyrrolidine	NS	NS	NS	NS	NS	ND(0.010)
o,o,o-Triethylphosphorothioate	NS	NS	NS	NS	NS	ND(0.010)
o-Toluidine	NS	NS	NS	NS	NS	ND(0.010)
p-Dimethylaminoazobenzene	NS	NS	NS	NS	NS	ND(0.010)
Pentachlorobenzene	NS	NS	NS	NS	NS	ND(0.010)
Pentachloroethane	NS	NS	NS	NS	NS	ND(0.010)
Pentachloronitrobenzene	NS	NS	NS	NS	NS	ND(0.010) J
Pentachlorophenol	NS	NS	NS	NS	NS	ND(0.050)
Phenacetin	NS	NS	NS	NS	NS	ND(0.010)
Phenanthrene	NS	NS	NS	NS	NS	ND(0.010)
Phenol	NS	NS	NS	NS	NS	ND(0.010)
Phorate	NS	NS	NS	NS	NS	ND(0.010)
Pronamide	NS	NS	NS	NS	NS	ND(0.010)
Pyrene	NS	NS	NS	NS	NS	ND(0.010)
Pyridine	NS	NS	NS	NS	NS	ND(0.010)
Safrole	NS	NS	NS	NS	NS	ND(0.010)
Sulfotep	NS	NS	NS	NS	NS	ND(0.010)
Thionazin	NS	NS	NS	NS	NS	ND(0.010)
Organochlorine Pesticides						
4,4'-DDD	NS	NS	NS	NS	NS	ND(0.00019)
4,4'-DDE	NS	NS	NS	NS	NS	ND(0.00019)
4,4'-DDT	NS	NS	NS	NS	NS	ND(0.00019)
Aldrin	NS	NS	NS	NS	NS	ND(0.000094)
Alpha-BHC	NS	NS	NS	NS	NS	ND(0.000094)
Alpha-Chlordane	NS	NS	NS	NS	NS	ND(0.000094)
Beta-BHC	NS	NS	NS	NS	NS	ND(0.000094)
Delta-BHC	NS	NS	NS	NS	NS	ND(0.000094)
Dieldrin	NS	NS	NS	NS	NS	ND(0.00019)
Endosulfan I	NS	NS	NS	NS	NS	ND(0.00010)
Endosulfan II	NS	NS	NS	NS	NS	ND(0.00019)
Endosulfan Sulfate	NS	NS	NS	NS	NS	ND(0.00019)
Endrin	NS	NS	NS	NS	NS	ND(0.00019)
Endrin Aldehyde	NS	NS	NS	NS	NS	ND(0.00019)
Endrin Ketone	NS	NS	NS	NS	NS	ND(0.00019)
Gamma-BHC (Lindane)	NS	NS	NS	NS	NS	ND(0.000094)
Gamma-Chlordane	NS	NS	NS	NS	NS	ND(0.000094)
Heptachlor	NS	NS	NS	NS	NS	ND(0.000094)
Heptachlor Epoxide	NS	NS	NS	NS	NS	ND(0.000094)
Methoxychlor	NS	NS	NS	NS	NS	ND(0.00094)
Technical Chlordane	NS	NS	NS	NS	NS	ND(0.0016)
Toxaphene	NS	NS	NS	NS	NS	ND(0.0016)
Herbicides						
2,4,5-T	NS	NS	NS	NS	NS	ND(0.0020)
2,4,5-TP	NS	NS	NS	NS	NS	ND(0.0020)
2,4-D	NS	NS	NS	NS	NS	ND(0.010)
Dinoseb	NS	NS	NS	NS	NS	ND(0.0010)
Furans						
2,3,7,8-TCDF	NS	NS	NS	NS	NS	ND(0.0000000018)
TCDFs (total)	NS	NS	NS	NS	NS	ND(0.0000000018)
1,2,3,7,8-PeCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
2,3,4,7,8-PeCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
PeCDFs (total)	NS	NS	NS	NS	NS	ND(0.0000000025)
1,2,3,4,7,8-HxCDF	NS	NS	NS	NS	NS	ND(0.0000000035)
1,2,3,6,7,8-HxCDF	NS	NS	NS	NS	NS	ND(0.0000000031)
1,2,3,7,8,9-HxCDF	NS	NS	NS	NS	NS	ND(0.0000000039)
2,3,4,6,7,8-HxCDF	NS	NS	NS	NS	NS	ND(0.0000000035)
HxCDFs (total)	NS	NS	NS	NS	NS	ND(0.0000000035)
1,2,3,4,6,7,8-HpCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
1,2,3,4,7,8,9-HpCDF	NS	NS	NS	NS	NS	ND(0.0000000025)
HpCDFs (total)	NS	NS	NS	NS	NS	ND(0.0000000025)
OCDF	NS	NS	NS	NS	NS	ND(0.0000000059)
Dioxins						

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	16E 04/25/02	39D 04/23/02	43A 04/26/02	43B 04/26/02	51-14 04/23/02	54B 04/29/02
2,3,7,8-TCDD	NS	NS	NS	NS	NS	ND(0.0000000035)
TCDDs (total)	NS	NS	NS	NS	NS	ND(0.0000000035)
1,2,3,7,8-PeCDD	NS	NS	NS	NS	NS	ND(0.0000000025)
PeCDDs (total)	NS	NS	NS	NS	NS	ND(0.0000000037)
1,2,3,4,7,8-HxCDD	NS	NS	NS	NS	NS	ND(0.0000000086)
1,2,3,6,7,8-HxCDD	NS	NS	NS	NS	NS	ND(0.0000000076)
1,2,3,7,8,9-HxCDD	NS	NS	NS	NS	NS	ND(0.0000000078)
HxCDDs (total)	NS	NS	NS	NS	NS	ND(0.0000000080)
1,2,3,4,6,7,8-HpCDD	NS	NS	NS	NS	NS	ND(0.0000000029) X
HpCDDs (total)	NS	NS	NS	NS	NS	ND(0.0000000030)
OCDD	NS	NS	NS	NS	NS	0.000000017 J
Total TEQ (WHO TEFs)	NS	NS	NS	NS	NS	0.0000000057
Inorganics-Unfiltered						
Antimony	NS	NS	NS	NS	NS	ND(0.0600)
Arsenic	NS	NS	NS	NS	NS	0.0170
Barium	NS	NS	NS	NS	NS	0.260
Beryllium	NS	NS	NS	NS	NS	0.00230
Cadmium	NS	NS	NS	NS	NS	ND(0.00500)
Chromium	NS	NS	NS	NS	NS	0.0310
Cobalt	NS	NS	NS	NS	NS	ND(0.0500)
Copper	NS	NS	NS	NS	NS	0.0590
Cyanide	NS	NS	NS	NS	NS	ND(0.0100)
Lead	NS	NS	NS	NS	NS	0.0200
Mercury	NS	NS	NS	NS	NS	ND(0.000200)
Nickel	NS	NS	NS	NS	NS	0.0430
Selenium	NS	NS	NS	NS	NS	ND(0.00500)
Silver	NS	NS	NS	NS	NS	ND(0.00500)
Sulfide	NS	NS	NS	NS	NS	ND(5.00)
Thallium	NS	NS	NS	NS	NS	ND(0.0100)
Tin	NS	NS	NS	NS	NS	ND(0.0300)
Vanadium	NS	NS	NS	NS	NS	ND(0.0500)
Zinc	NS	NS	NS	NS	NS	0.210
Inorganics-Filtered						
Antimony	NS	NS	NS	NS	NS	ND(0.0600)
Arsenic	NS	NS	NS	NS	NS	ND(0.100)
Barium	NS	NS	NS	NS	NS	ND(0.200)
Beryllium	NS	NS	NS	NS	NS	0.000820 B
Cadmium	NS	NS	NS	NS	NS	ND(0.0100)
Chromium	NS	NS	NS	NS	NS	ND(0.0250)
Cobalt	NS	NS	NS	NS	NS	ND(0.0500)
Copper	NS	NS	NS	NS	NS	ND(0.100)
Lead	NS	NS	NS	NS	NS	ND(0.00300)
Mercury	NS	NS	NS	NS	NS	ND(0.000200)
Nickel	NS	NS	NS	NS	NS	ND(0.0400)
Selenium	NS	NS	NS	NS	NS	ND(0.00500)
Silver	NS	NS	NS	NS	NS	ND(0.00500)
Thallium	NS	NS	NS	NS	NS	ND(0.0100)
Tin	NS	NS	NS	NS	NS	ND(0.0300)
Vanadium	NS	NS	NS	NS	NS	ND(0.0500)
Zinc	NS	NS	NS	NS	NS	0.0160 B
Natural Attenuation Parameters						
Alkalinity (Total)	79.0	160	330	570	NS	NS
Chloride	1.8	4.0	29	49	NS	NS
Dissolved Organic Carbon	3.20	2.10	4.30	9.00	NS	NS
Ethane	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	NS	NS
Ethene	ND(0.10)	ND(0.020)	ND(0.050)	ND(0.10)	NS	NS
Dissolved Iron	ND(0.0500)	0.130	ND(0.0500)	ND(0.0500)	NS	NS
Methane	2.00	0.0230	0.730	1.30	NS	NS
Nitrate Nitrogen	0.110	0.0370 B	0.0200 B	0.0170 B	NS	NS
Nitrite Nitrogen	ND(0.0500)	ND(0.0500)	ND(0.0500)	ND(0.0500)	NS	NS
Sulfate (turbidimetric)	1.60	18.0	42.0	1.30	NS	NS

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050) J	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
2-Hexanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrylonitrile	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J	ND(0.0050) J
Benzene	2.5	0.016	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	2.5	ND(0.0050)	ND(0.0050)	0.0096	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	0.019	0.019	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Toluene	0.0044 J	0.011	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	0.052 EJ	0.079 EJ	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	5.1	0.13 J	ND(0.20)	0.0096	ND(0.20)

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
PCBs-Unfiltered					
Aroclor-1016	ND(0.00050)	NS	NS	ND(0.000065)	NS
Aroclor-1221	ND(0.00050)	NS	NS	ND(0.000065)	NS
Aroclor-1232	ND(0.00050)	NS	NS	ND(0.000065)	NS
Aroclor-1242	ND(0.00050)	NS	NS	ND(0.000065)	NS
Aroclor-1248	0.0056	NS	NS	ND(0.000065)	NS
Aroclor-1254	0.0017	NS	NS	ND(0.000065)	NS
Aroclor-1260	ND(0.00050)	NS	NS	ND(0.000065)	NS
Total PCBs	0.0073	NS	NS	ND(0.000065)	NS
PCBs-Filtered					
Aroclor-1016	ND(0.000065)	NS	NS	ND(0.000065)	NS
Aroclor-1221	ND(0.000065)	NS	NS	ND(0.000065)	NS
Aroclor-1232	ND(0.000065)	NS	NS	ND(0.000065)	NS
Aroclor-1242	ND(0.000065)	NS	NS	ND(0.000065)	NS
Aroclor-1248	ND(0.000065)	NS	NS	ND(0.000065)	NS
Aroclor-1254	ND(0.000065)	NS	NS	ND(0.000065)	NS
Aroclor-1260	ND(0.000065)	NS	NS	ND(0.000065)	NS
Total PCBs	ND(0.000065)	NS	NS	ND(0.000065)	NS
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
1,2,4-Trichlorobenzene	ND(0.010) J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,2-Dichlorobenzene	ND(0.010) J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,2-Diphenylhydrazine	ND(0.010) J	NS	NS	ND(0.010)	NS
1,3,5-Trinitrobenzene	ND(0.010) J	NS	NS	ND(0.010) J	NS
1,3-Dichlorobenzene	ND(0.010) J	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,3-Dinitrobenzene	ND(0.010) J	NS	NS	ND(0.010) J	NS
1,4-Dichlorobenzene	0.016 J	0.0037 J	ND(0.0050)	ND(0.010)	ND(0.0050)
1,4-Naphthoquinone	ND(0.010) J	NS	NS	ND(0.010)	NS
1-Naphthylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
2,3,4,6-Tetrachlorophenol	ND(0.010)	NS	NS	ND(0.010) J	NS
2,4,5-Trichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4,6-Trichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4-Dichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4-Dimethylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,4-Dinitrophenol	ND(0.050)	NS	NS	ND(0.050)	NS
2,4-Dinitrotoluene	ND(0.010) J	NS	NS	ND(0.010)	NS
2,6-Dichlorophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2,6-Dinitrotoluene	ND(0.010) J	NS	NS	ND(0.010) J	NS
2-Acetylaminofluorene	ND(0.010) J	NS	NS	ND(0.010)	NS
2-Chloronaphthalene	ND(0.010) J	NS	NS	ND(0.010)	NS
2-Chlorophenol	0.0060 J	NS	NS	ND(0.010)	NS
2-Methylnaphthalene	0.0074 J	NS	NS	ND(0.010)	NS
2-Methylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
2-Naphthylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
2-Nitroaniline	ND(0.050) J	NS	NS	ND(0.050)	NS
2-Nitrophenol	ND(0.010)	NS	NS	ND(0.010)	NS
2-Picoline	ND(0.010) J	NS	NS	ND(0.010)	NS
3&4-Methylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
3,3'-Dichlorobenzidine	ND(0.020) J	NS	NS	ND(0.020)	NS
3,3'-Dimethylbenzidine	ND(0.010) J	NS	NS	ND(0.010)	NS
3-Methylcholanthrene	ND(0.010) J	NS	NS	ND(0.010)	NS
3-Nitroaniline	ND(0.050) J	NS	NS	ND(0.050)	NS
4,6-Dinitro-2-methylphenol	ND(0.050)	NS	NS	ND(0.050)	NS
4-Aminobiphenyl	ND(0.010) J	NS	NS	ND(0.010)	NS
4-Bromophenyl-phenylether	ND(0.010) J	NS	NS	ND(0.010)	NS
4-Chloro-3-Methylphenol	ND(0.010)	NS	NS	ND(0.010)	NS
4-Chloroaniline	ND(0.010) J	NS	NS	ND(0.010)	NS
4-Chlorobenzilate	ND(0.010) J	NS	NS	ND(0.010) J	NS
4-Chlorophenyl-phenylether	ND(0.010) J	NS	NS	ND(0.010)	NS
4-Nitroaniline	ND(0.050) J	NS	NS	ND(0.050)	NS

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
Semivolatile Organics (continued)					
4-Nitrophenol	ND(0.050)	NS	NS	ND(0.050)	NS
4-Nitroquinoline-1-oxide	ND(0.010) J	NS	NS	ND(0.010)	NS
4-Phenylenediamine	ND(0.010) J	NS	NS	ND(0.010) J	NS
5-Nitro-o-toluidine	ND(0.010) J	NS	NS	ND(0.010)	NS
7,12-Dimethylbenz(a)anthracene	ND(0.010) J	NS	NS	ND(0.010) J	NS
a,a'-Dimethylphenethylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
Acenaphthene	0.0049 J	NS	NS	ND(0.010)	NS
Acenaphthylene	ND(0.010) J	NS	NS	ND(0.010)	NS
Acetophenone	ND(0.010) J	NS	NS	ND(0.010)	NS
Aniline	ND(0.010) J	NS	NS	ND(0.010)	NS
Anthracene	ND(0.010) J	NS	NS	ND(0.010)	NS
Aramite	ND(0.010) J	NS	NS	ND(0.010) J	NS
Benzidine	ND(0.020) J	NS	NS	ND(0.020) J	NS
Benzo(a)anthracene	ND(0.010) J	NS	NS	ND(0.010)	NS
Benzo(a)pyrene	ND(0.010) J	NS	NS	ND(0.010)	NS
Benzo(b)fluoranthene	ND(0.010) J	NS	NS	ND(0.010)	NS
Benzo(g,h,i)perylene	ND(0.010) J	NS	NS	ND(0.010)	NS
Benzo(k)fluoranthene	ND(0.010) J	NS	NS	ND(0.010)	NS
Benzyl Alcohol	ND(0.020)	NS	NS	ND(0.020)	NS
bis(2-Chloroethoxy)methane	ND(0.010) J	NS	NS	ND(0.010)	NS
bis(2-Chloroethyl)ether	ND(0.010) J	NS	NS	ND(0.010)	NS
bis(2-Chloroisopropyl)ether	ND(0.010) J	NS	NS	ND(0.010)	NS
bis(2-Ethylhexyl)phthalate	ND(0.0060) J	NS	NS	ND(0.0060)	NS
Butylbenzylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Chrysene	ND(0.010) J	NS	NS	ND(0.010)	NS
Diallate	ND(0.010) J	NS	NS	ND(0.010)	NS
Dibenzo(a,h)anthracene	ND(0.010) J	NS	NS	ND(0.010)	NS
Dibenzofuran	0.0046 J	NS	NS	ND(0.010)	NS
Diethylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Dimethoate	ND(0.050) J	NS	NS	ND(0.050)	NS
Dimethylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Di-n-Butylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Di-n-Octylphthalate	ND(0.010) J	NS	NS	ND(0.010)	NS
Diphenylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
Disulfoton	ND(0.010) J	NS	NS	ND(0.010)	NS
Ethyl Methanesulfonate	ND(0.010) J	NS	NS	ND(0.010)	NS
Ethyl Parathion	ND(0.010) J	NS	NS	ND(0.010)	NS
Famphur	ND(0.050) J	NS	NS	ND(0.050)	NS
Fluoranthene	ND(0.010) J	NS	NS	ND(0.010)	NS
Fluorene	0.0041 J	NS	NS	ND(0.010)	NS
Hexachlorobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
Hexachlorobutadiene	ND(0.0010)	NS	NS	ND(0.0010)	NS
Hexachlorocyclopentadiene	ND(0.010) J	NS	NS	ND(0.010)	NS
Hexachloroethane	ND(0.010) J	NS	NS	ND(0.010)	NS
Hexachlorophene	ND(0.020) J	NS	NS	ND(0.020)	NS
Hexachloropropene	ND(0.010) J	NS	NS	ND(0.010) J	NS
Indeno(1,2,3-cd)pyrene	ND(0.010) J	NS	NS	ND(0.010)	NS
Isodrin	ND(0.010) J	NS	NS	ND(0.010)	NS
Isophorone	ND(0.010) J	NS	NS	ND(0.010)	NS
Isosafrole	ND(0.010) J	NS	NS	ND(0.010)	NS
Kepone	ND(0.050) J	NS	NS	ND(0.050)	NS
Methapyrilene	ND(0.010) J	NS	NS	ND(0.010)	NS
Methyl Methanesulfonate	ND(0.010) J	NS	NS	ND(0.010)	NS
Methyl Parathion	ND(0.010) J	NS	NS	ND(0.010)	NS
Naphthalene	ND(0.010) J	0.0026 J	ND(0.0050)	ND(0.010)	ND(0.0050)
Nitrobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosodiethylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosodimethylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitroso-di-n-butylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitroso-di-n-propylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosodiphenylamine	ND(0.010) J	NS	NS	ND(0.010)	NS

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
Semivolatile Organics (continued)					
N-Nitrosomethylethylamine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosomorpholine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosopiperidine	ND(0.010) J	NS	NS	ND(0.010)	NS
N-Nitrosopyrrolidine	ND(0.010) J	NS	NS	ND(0.010)	NS
o,o,o-Triethylphosphorothioate	ND(0.010) J	NS	NS	ND(0.010)	NS
o-Toluidine	ND(0.010) J	NS	NS	ND(0.010)	NS
p-Dimethylaminoazobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
Pentachlorobenzene	ND(0.010) J	NS	NS	ND(0.010)	NS
Pentachloroethane	ND(0.010) J	NS	NS	ND(0.010)	NS
Pentachloronitrobenzene	ND(0.010) J	NS	NS	ND(0.010) J	NS
Pentachlorophenol	ND(0.050)	NS	NS	ND(0.050)	NS
Phenacetin	ND(0.010) J	NS	NS	ND(0.010)	NS
Phenanthrene	0.0050 J	NS	NS	ND(0.010)	NS
Phenol	0.016	NS	NS	ND(0.010)	NS
Phorate	ND(0.010) J	NS	NS	ND(0.010)	NS
Pronamide	ND(0.010) J	NS	NS	ND(0.010)	NS
Pyrene	ND(0.010) J	NS	NS	ND(0.010)	NS
Pyridine	ND(0.010) J	NS	NS	ND(0.010)	NS
Safrole	ND(0.010) J	NS	NS	ND(0.010)	NS
Sulfotep	ND(0.010) J	NS	NS	ND(0.010)	NS
Thionazin	ND(0.010) J	NS	NS	ND(0.010)	NS
Organochlorine Pesticides					
4,4'-DDD	ND(0.00010)	NS	NS	ND(0.00010)	NS
4,4'-DDE	ND(0.00010)	NS	NS	ND(0.00010)	NS
4,4'-DDT	ND(0.00010)	NS	NS	ND(0.00010) J	NS
Aldrin	ND(0.000050)	NS	NS	ND(0.000050)	NS
Alpha-BHC	ND(0.000050)	NS	NS	ND(0.000050)	NS
Alpha-Chlordane	ND(0.000050)	NS	NS	ND(0.000050)	NS
Beta-BHC	ND(0.000050)	NS	NS	ND(0.000050)	NS
Delta-BHC	ND(0.000050)	NS	NS	ND(0.000050)	NS
Dieldrin	ND(0.00010)	NS	NS	ND(0.00010)	NS
Endosulfan I	ND(0.00010)	NS	NS	ND(0.00010)	NS
Endosulfan II	ND(0.00010)	NS	NS	ND(0.00010)	NS
Endosulfan Sulfate	ND(0.00010)	NS	NS	ND(0.00010)	NS
Endrin	ND(0.00010)	NS	NS	ND(0.00010)	NS
Endrin Aldehyde	ND(0.00010)	NS	NS	ND(0.00010)	NS
Endrin Ketone	ND(0.00010)	NS	NS	ND(0.00010)	NS
Gamma-BHC (Lindane)	ND(0.000050)	NS	NS	ND(0.000050)	NS
Gamma-Chlordane	ND(0.000050)	NS	NS	ND(0.000050)	NS
Heptachlor	ND(0.000050)	NS	NS	ND(0.000050)	NS
Heptachlor Epoxide	ND(0.000050)	NS	NS	ND(0.000050)	NS
Methoxychlor	ND(0.00050)	NS	NS	ND(0.00050) J	NS
Technical Chlordane	ND(0.00050)	NS	NS	ND(0.00050)	NS
Toxaphene	ND(0.0010)	NS	NS	ND(0.0010)	NS
Herbicides					
2,4,5-T	ND(0.0020)	NS	NS	ND(0.0020)	NS
2,4,5-TP	ND(0.0020)	NS	NS	ND(0.0020)	NS
2,4-D	ND(0.010)	NS	NS	ND(0.010)	NS
Dinoseb	ND(0.0010)	NS	NS	ND(0.0010)	NS
Furans					
2,3,7,8-TCDF	ND(0.0000000027)	NS	NS	ND(0.0000000016)	NS
TCDFs (total)	ND(0.0000000027)	NS	NS	ND(0.0000000016)	NS
1,2,3,7,8-PeCDF	ND(0.0000000028) X	NS	NS	ND(0.0000000025)	NS
2,3,4,7,8-PeCDF	0.0000000053 J	NS	NS	ND(0.0000000019) X	NS
PeCDFs (total)	0.000000021	NS	NS	ND(0.0000000025)	NS
1,2,3,4,7,8-HxCDF	0.000000015 J	NS	NS	ND(0.0000000018) X	NS
1,2,3,6,7,8-HxCDF	0.0000000061 J	NS	NS	ND(0.0000000025)	NS
1,2,3,7,8,9-HxCDF	0.0000000044 J	NS	NS	ND(0.0000000025)	NS
2,3,4,6,7,8-HxCDF	0.0000000044 J	NS	NS	ND(0.0000000025)	NS
HxCDFs (total)	0.000000055	NS	NS	ND(0.0000000025)	NS
1,2,3,4,6,7,8-HpCDF	0.0000000074 J	NS	NS	ND(0.0000000025)	NS
1,2,3,4,7,8,9-HpCDF	0.0000000039 J	NS	NS	ND(0.0000000025)	NS
HpCDFs (total)	0.000000011	NS	NS	ND(0.0000000025)	NS
OCDF	0.0000000068 J	NS	NS	ND(0.0000000050)	NS
Dioxins					

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	78B-R 04/25/02	GMA3-2 04/26/02	GMA3-4 04/23/02	GMA3-6 04/25/02	MW-39-E 04/25/02
2,3,7,8-TCDD	ND(0.0000000026)	NS	NS	ND(0.0000000026)	NS
TCDDs (total)	ND(0.0000000032)	NS	NS	ND(0.0000000026)	NS
1,2,3,7,8-PeCDD	ND(0.0000000028)	NS	NS	ND(0.0000000036)	NS
PeCDDs (total)	ND(0.0000000033)	NS	NS	ND(0.0000000036)	NS
1,2,3,4,7,8-HxCDD	ND(0.0000000094)	NS	NS	ND(0.0000000033)	NS
1,2,3,6,7,8-HxCDD	ND(0.0000000083)	NS	NS	ND(0.0000000029)	NS
1,2,3,7,8,9-HxCDD	ND(0.0000000085)	NS	NS	ND(0.0000000030)	NS
HxCDDs (total)	ND(0.0000000087)	NS	NS	ND(0.0000000031)	NS
1,2,3,4,6,7,8-HpCDD	0.0000000039 J	NS	NS	0.0000000020 J	NS
HpCDDs (total)	0.0000000085	NS	NS	0.0000000020	NS
OCDD	0.000000030 J	NS	NS	0.0000000075 J	NS
Total TEQ (WHO TEFs)	0.000000010	NS	NS	0.0000000047	NS
Inorganics-Unfiltered					
Antimony	ND(0.0600)	NS	NS	ND(0.0600)	NS
Arsenic	ND(0.0100)	NS	NS	0.0160	NS
Barium	1.20	NS	NS	0.350	NS
Beryllium	ND(0.00100)	NS	NS	ND(0.00100)	NS
Cadmium	ND(0.00500)	NS	NS	ND(0.00500)	NS
Chromium	ND(0.0100)	NS	NS	ND(0.0100)	NS
Cobalt	ND(0.0500)	NS	NS	ND(0.0500)	NS
Copper	ND(0.0250)	NS	NS	ND(0.0250)	NS
Cyanide	ND(0.0100)	NS	NS	ND(0.0100)	NS
Lead	0.00220 B	NS	NS	ND(0.00300)	NS
Mercury	ND(0.000200)	NS	NS	ND(0.000200)	NS
Nickel	ND(0.0400)	NS	NS	ND(0.0400)	NS
Selenium	ND(0.00500)	NS	NS	ND(0.00500)	NS
Silver	ND(0.00500)	NS	NS	ND(0.00500)	NS
Sulfide	ND(5.00)	NS	NS	ND(5.00)	NS
Thallium	ND(0.0100) J	NS	NS	ND(0.0100)	NS
Tin	ND(0.0300)	NS	NS	ND(0.0300)	NS
Vanadium	ND(0.0500)	NS	NS	ND(0.0500)	NS
Zinc	ND(0.0200) J	NS	NS	ND(0.0200)	NS
Inorganics-Filtered					
Antimony	ND(0.0600)	NS	NS	ND(0.0600)	NS
Arsenic	ND(0.100)	NS	NS	ND(0.100)	NS
Barium	0.970	NS	NS	0.260	NS
Beryllium	ND(0.00100)	NS	NS	ND(0.00100)	NS
Cadmium	ND(0.0100)	NS	NS	ND(0.0100)	NS
Chromium	ND(0.0250)	NS	NS	ND(0.0250)	NS
Cobalt	ND(0.0500)	NS	NS	ND(0.0500)	NS
Copper	ND(0.100)	NS	NS	ND(0.100)	NS
Lead	ND(0.00300)	NS	NS	ND(0.00300)	NS
Mercury	ND(0.000200)	NS	NS	ND(0.000200)	NS
Nickel	ND(0.0400)	NS	NS	ND(0.0400)	NS
Selenium	ND(0.00500)	NS	NS	ND(0.00500)	NS
Silver	ND(0.00500)	NS	NS	ND(0.00500)	NS
Thallium	ND(0.0100) J	NS	NS	ND(0.0100)	NS
Tin	ND(0.0300)	NS	NS	ND(0.0300)	NS
Vanadium	ND(0.0500)	NS	NS	ND(0.0500)	NS
Zinc	ND(0.0200) J	NS	NS	ND(0.0200)	NS
Natural Attenuation Parameters					
Alkalinity (Total)	NS	NS	NS	NS	24.0
Chloride	NS	NS	NS	NS	9.2
Dissolved Organic Carbon	NS	NS	NS	NS	5.20
Ethane	NS	NS	NS	NS	ND(0.0010)
Ethene	NS	NS	NS	NS	ND(0.0010)
Dissolved Iron	NS	NS	NS	NS	ND(0.0500)
Methane	NS	NS	NS	NS	ND(0.00100)
Nitrate Nitrogen	NS	NS	NS	NS	1.00
Nitrite Nitrogen	NS	NS	NS	NS	ND(0.0500)
Sulfate (turbidimetric)	NS	NS	NS	NS	5.70

(See Notes on Page 16)

TABLE E-1

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 2 GROUNDWATER MANAGEMENT AREA
GROUNDWATER ANALYTICAL DATA - SPRING 2002

(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs, other Appendix IX + 3 constituents and Natural Attenuation Parameters.
2. Data validation has been performed on data set as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved October 17, 2000).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. NS - Not Sampled - Parameter was not requested on sample chain of custody form.
5. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO) and published by Van den Berg et al. in Environmental Health Perspectives 106(2), December 1998.
6. Duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semi-volatiles, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
E - Analyte exceeded calibration range.
X - Estimated maximum possible concentration.

Inorganics

B - Indicates an estimated value between the instrument detection limit (IDL) and practical quantitation limit (PQL).
J - Indicates that the associated numerical value is an estimated concentration.

(See Notes on Page 16)

Appendix F

Historical Groundwater Data

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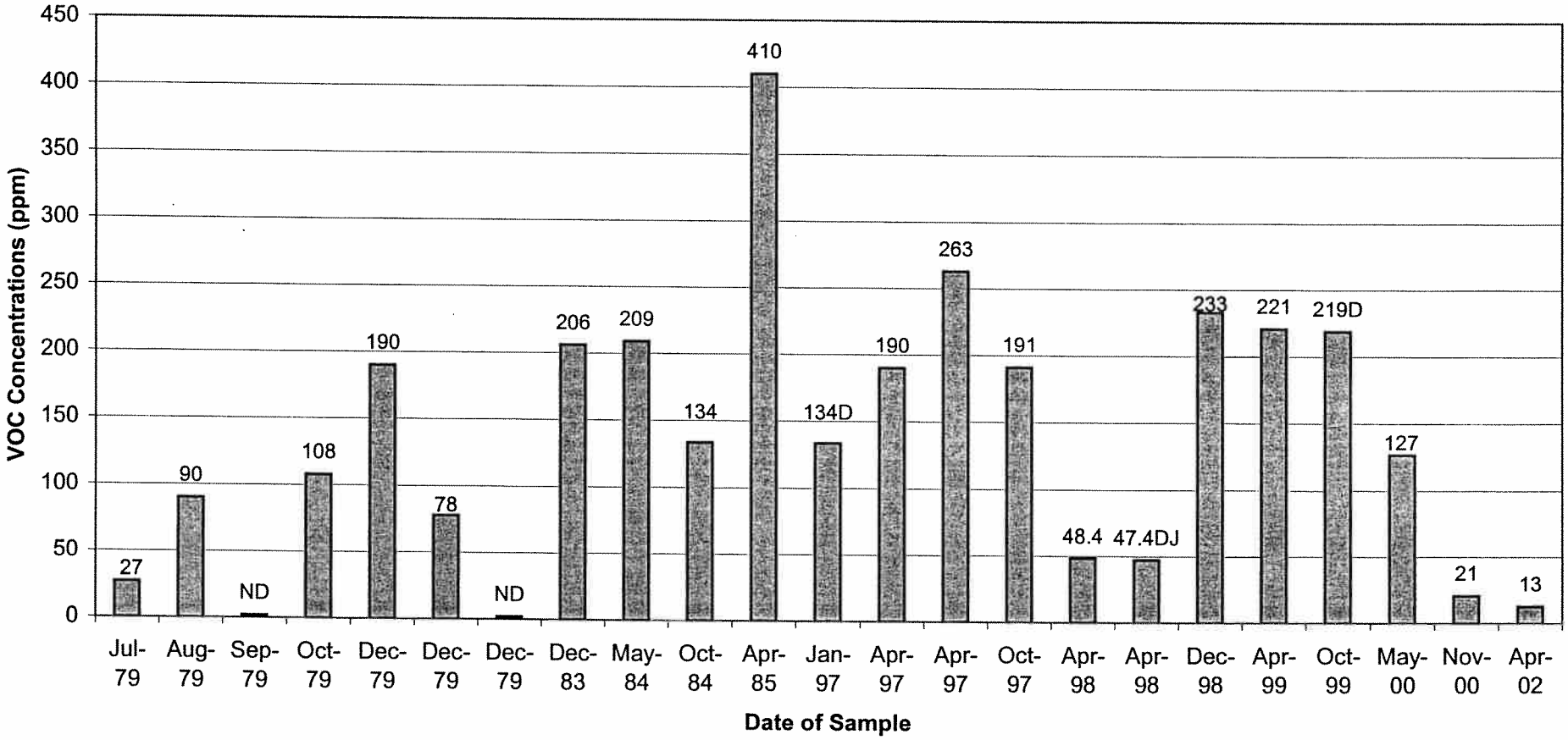
engineers & scientists

Appendix F

General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

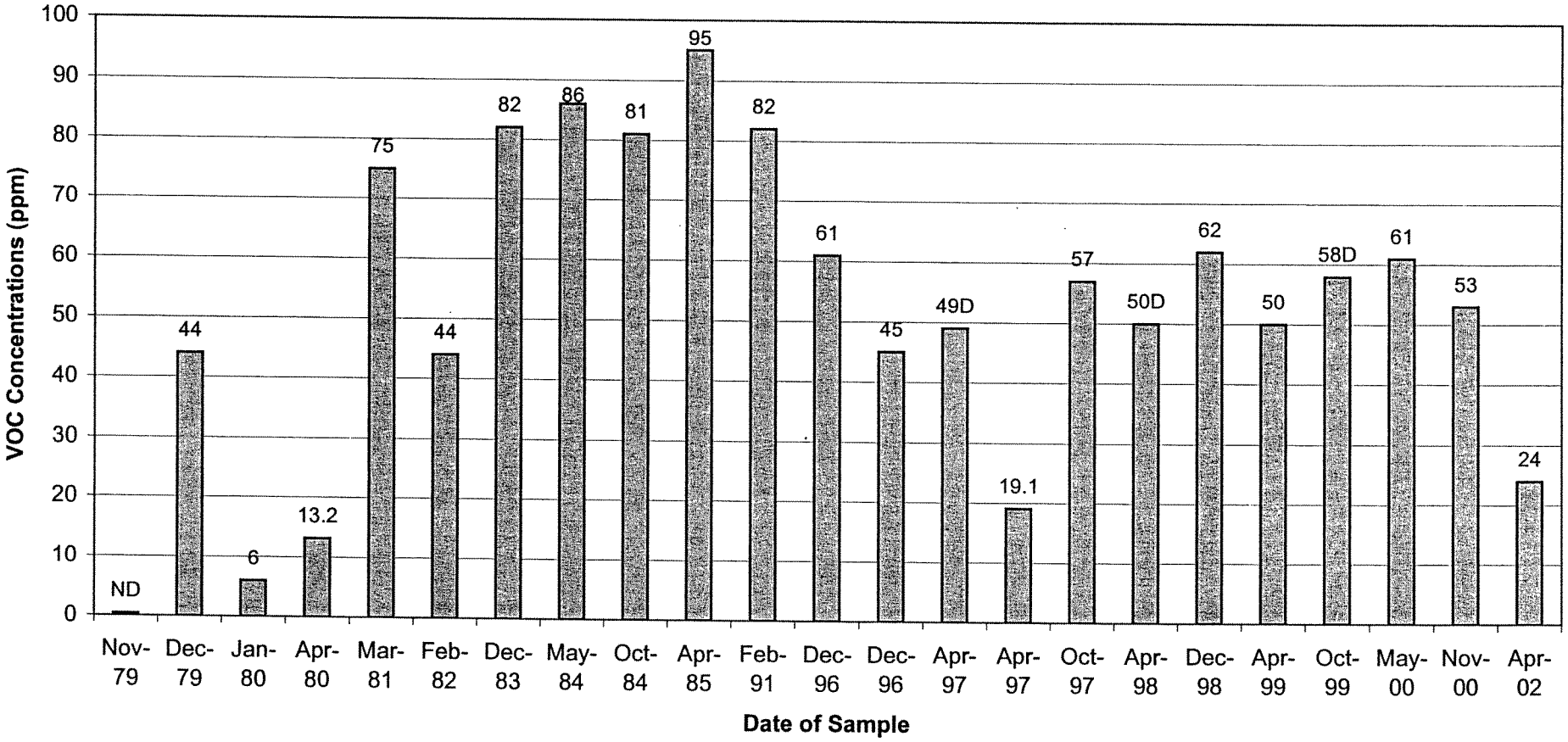
Well 2A Historical Total VOC Concentrations



Appendix F

General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 16A Historical Total VOC Concentrations



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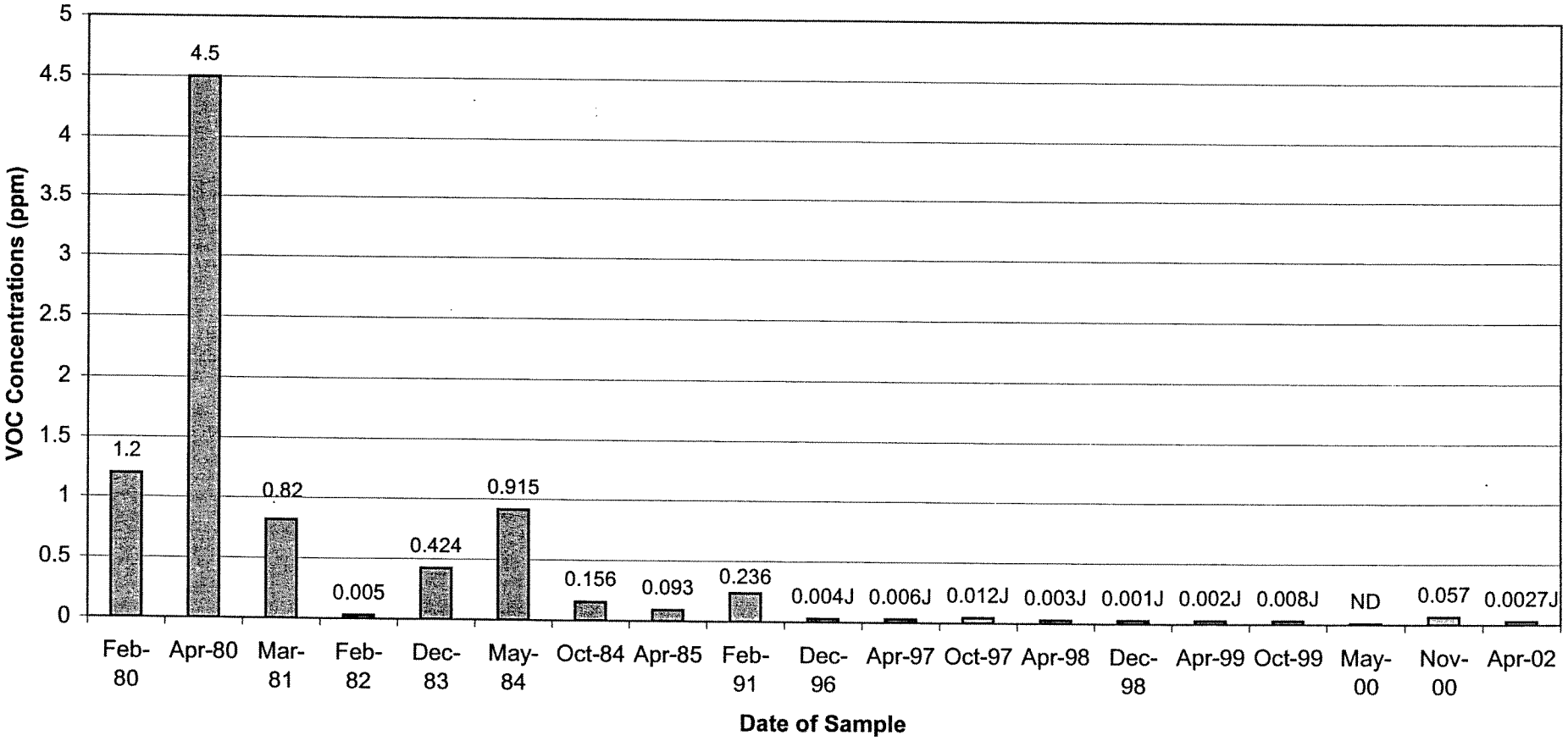
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 16C Historical Total VOC Concentrations



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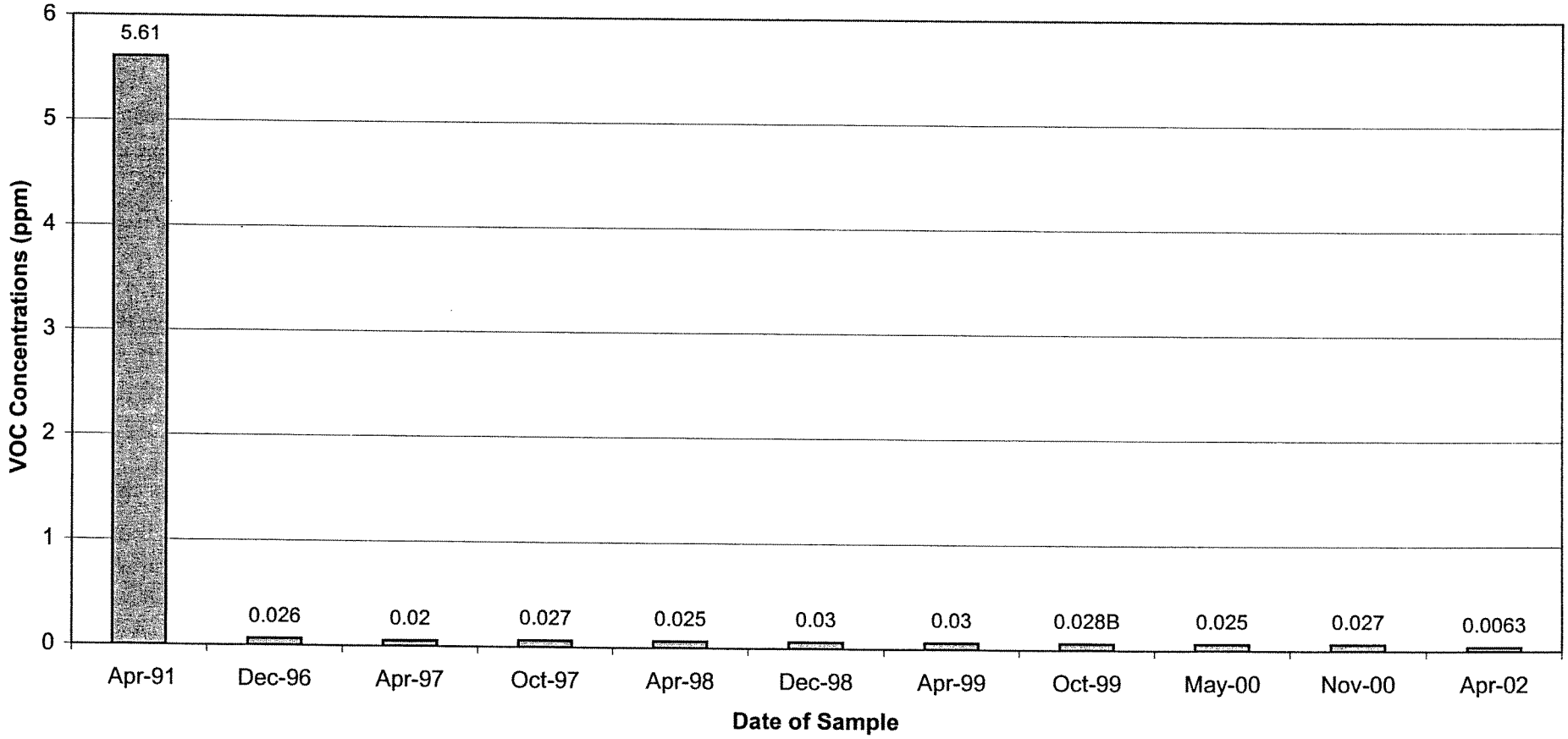
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 39D Historical Total VOC Concentrations



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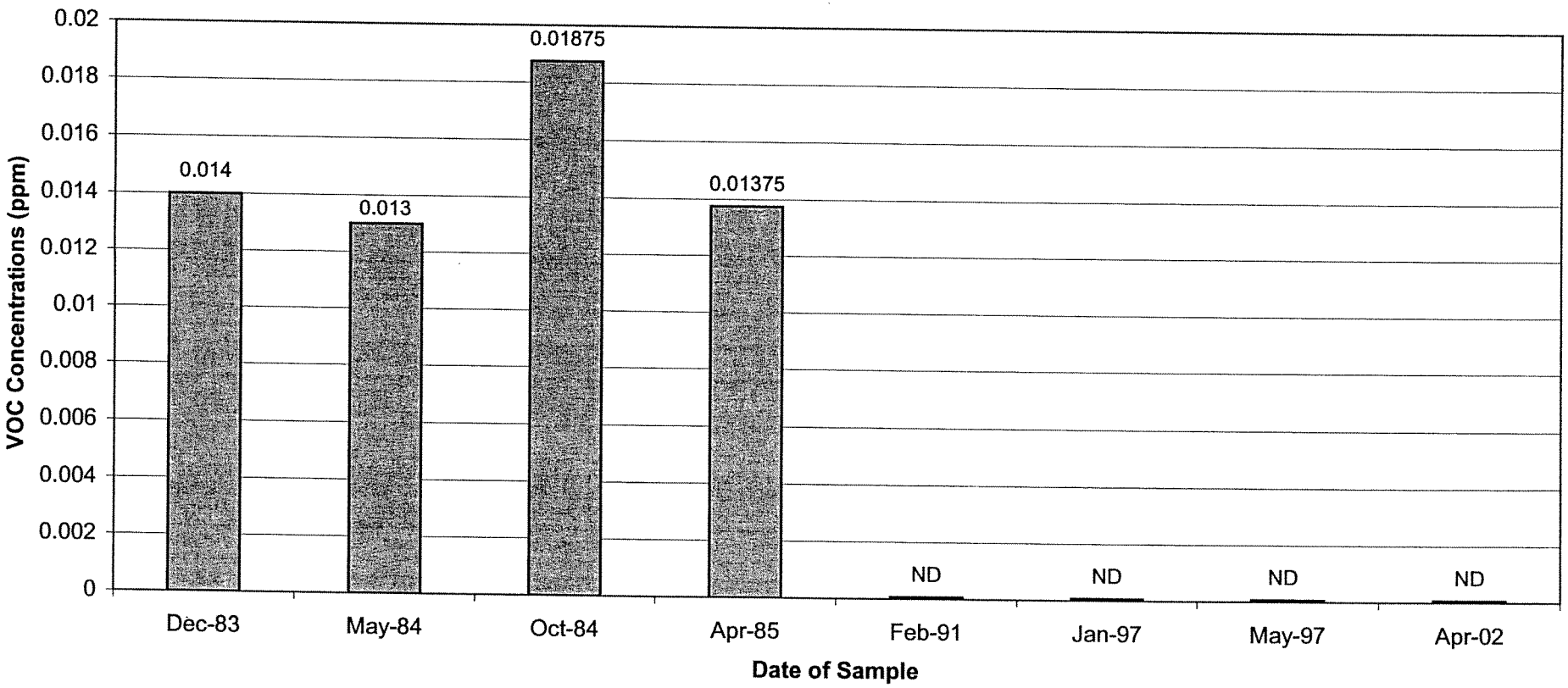
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 43A Historical Total VOC Concentrations



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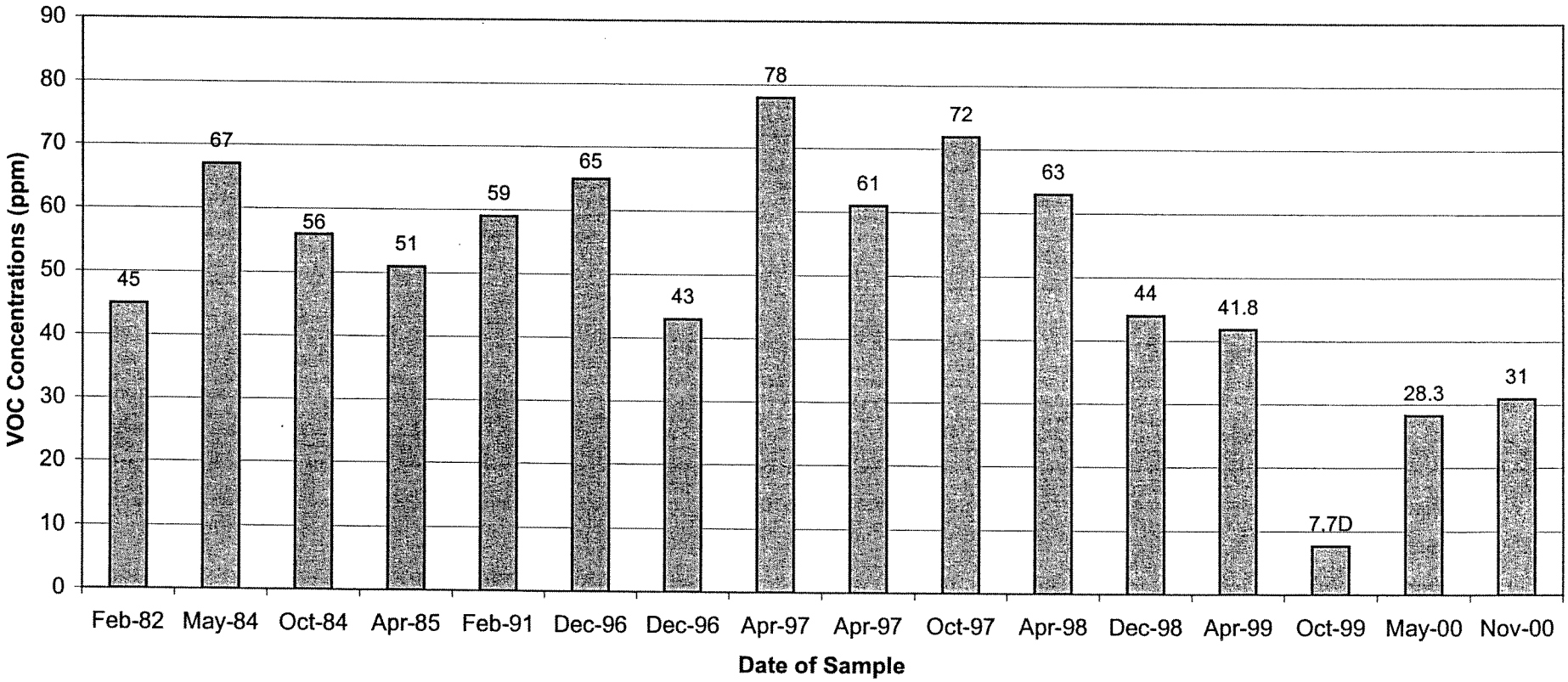
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 89A Historical Total VOC Concentrations



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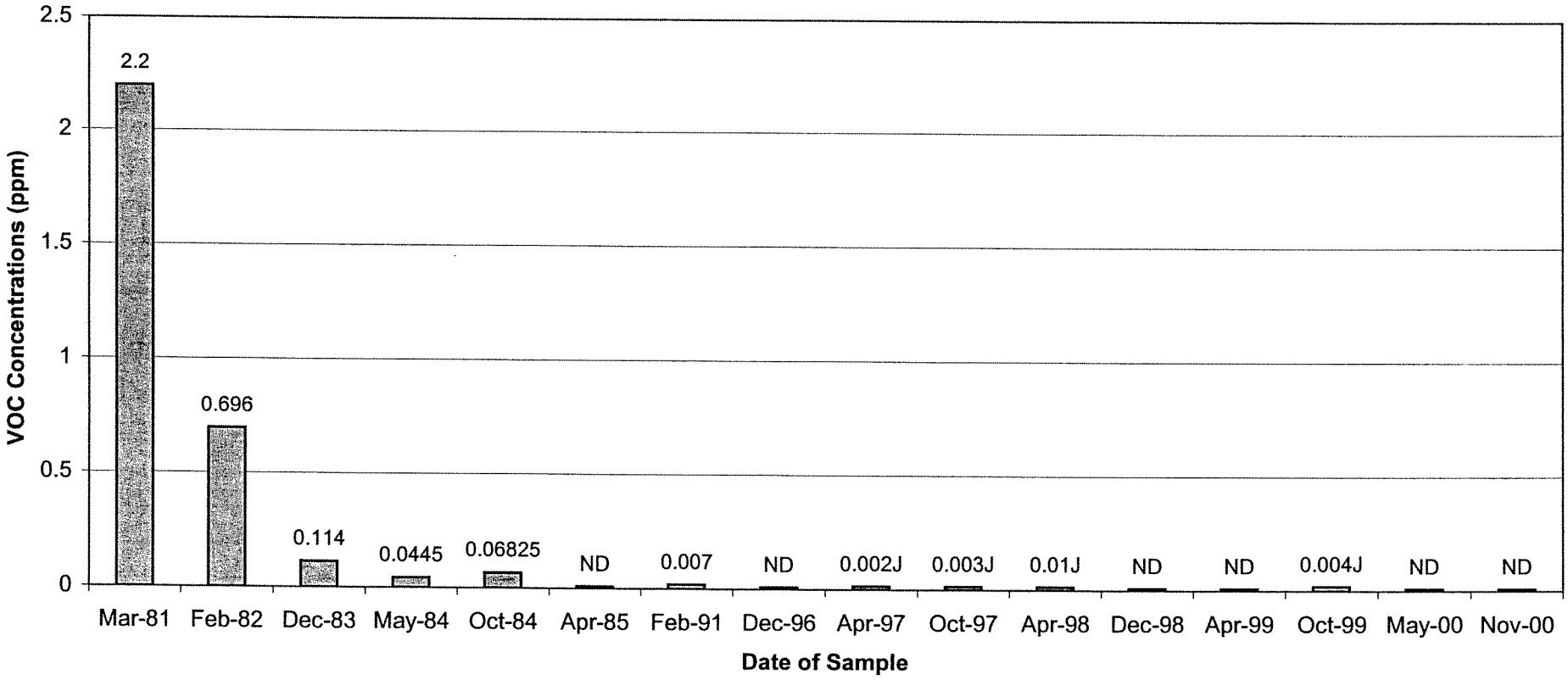
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 89D Historical Total VOC Concentrations



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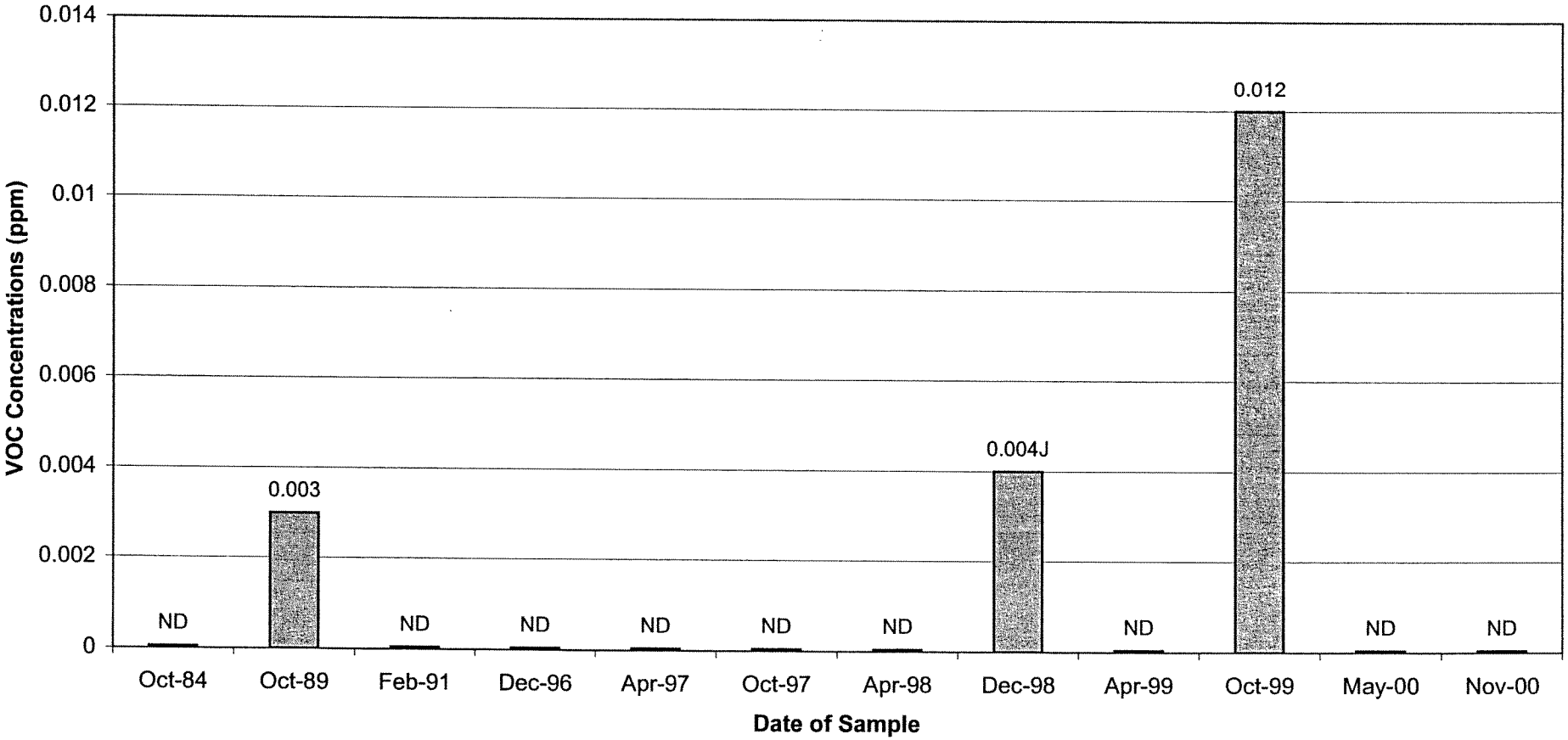
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

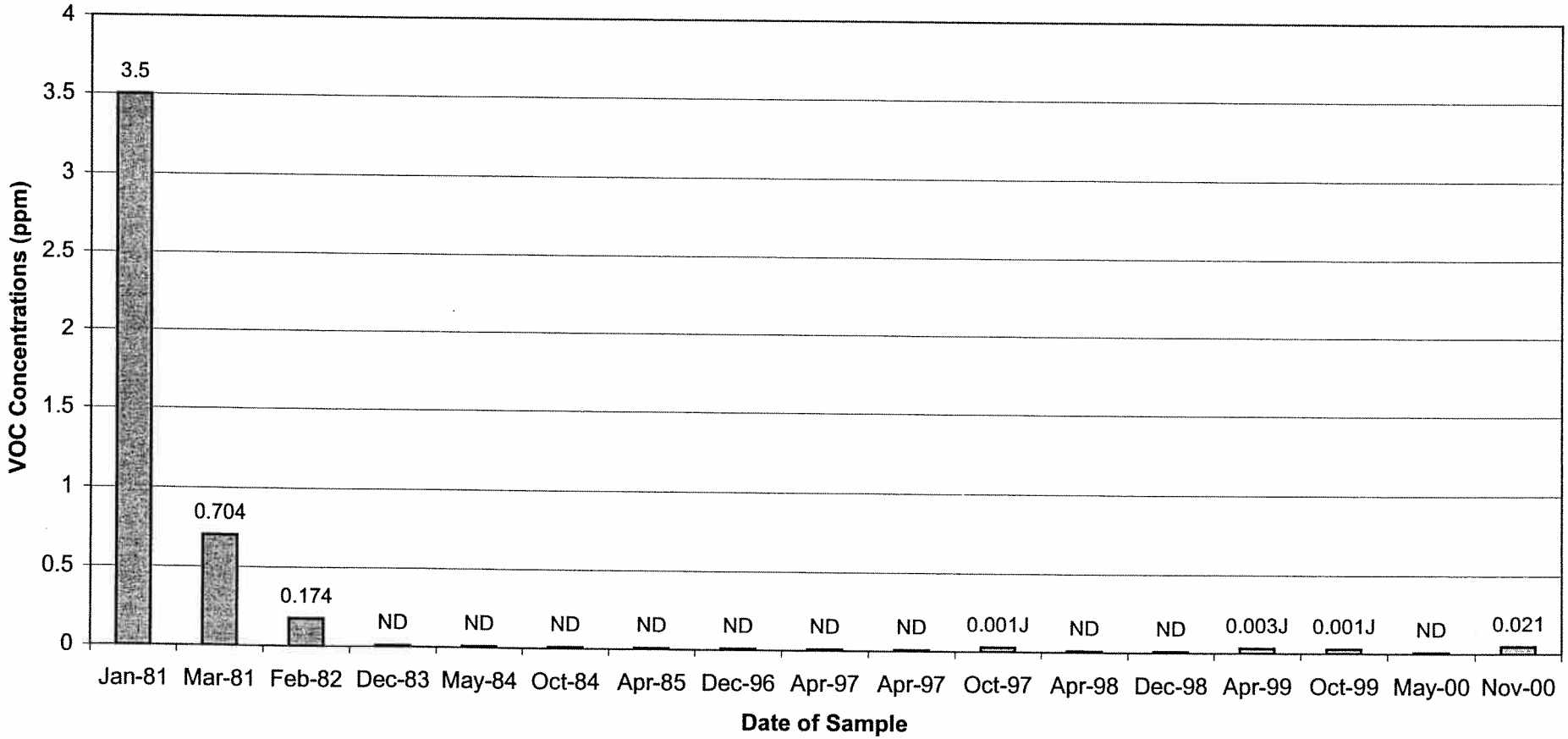
Well 90A Historical Total VOC Concentrations



Appendix F

General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 95A Historical Total VOC Concentrations



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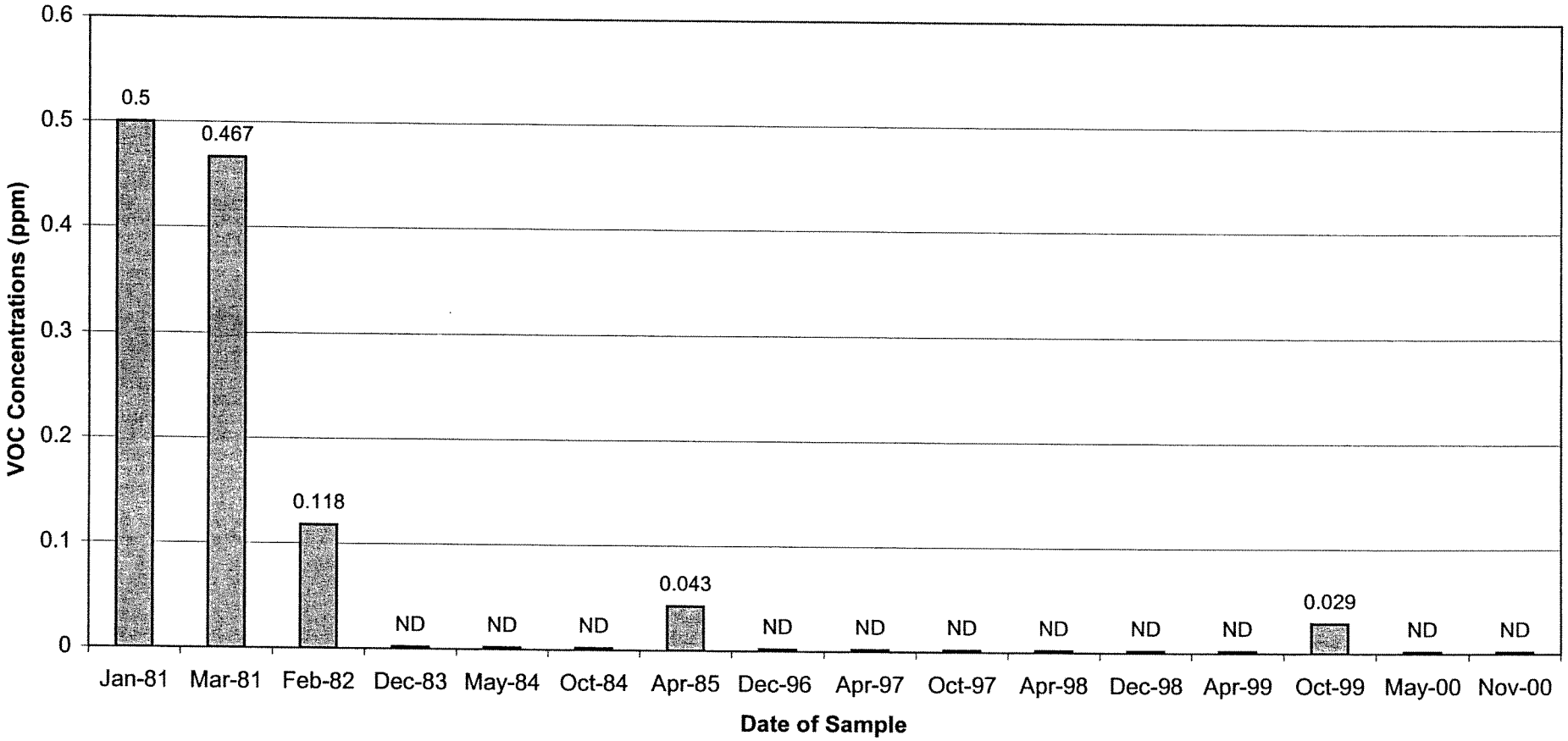
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 95C Historical Total VOC Concentrations



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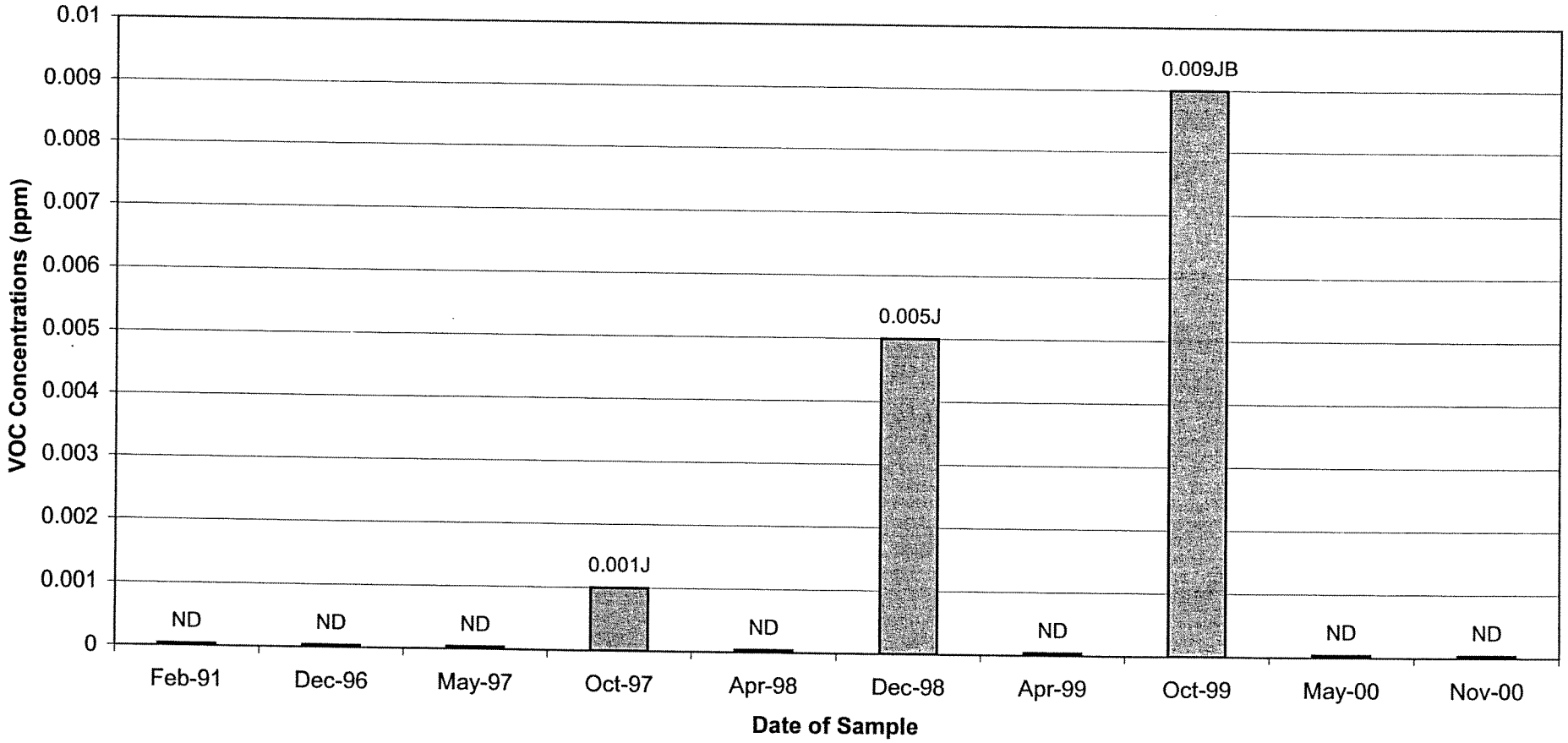
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 111A Historical Total VOC Concentrations



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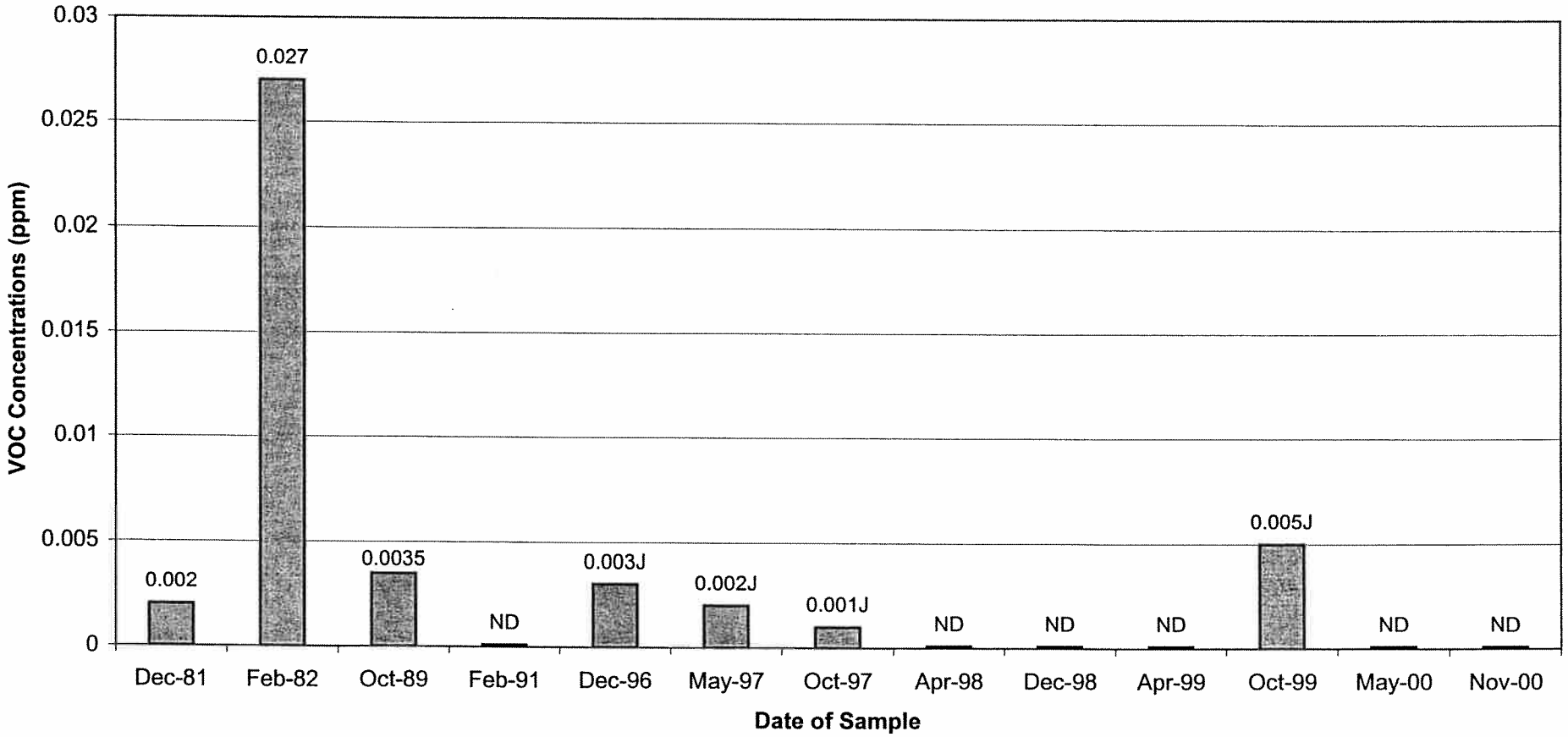
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 114A Historical Total VOC Concentrations



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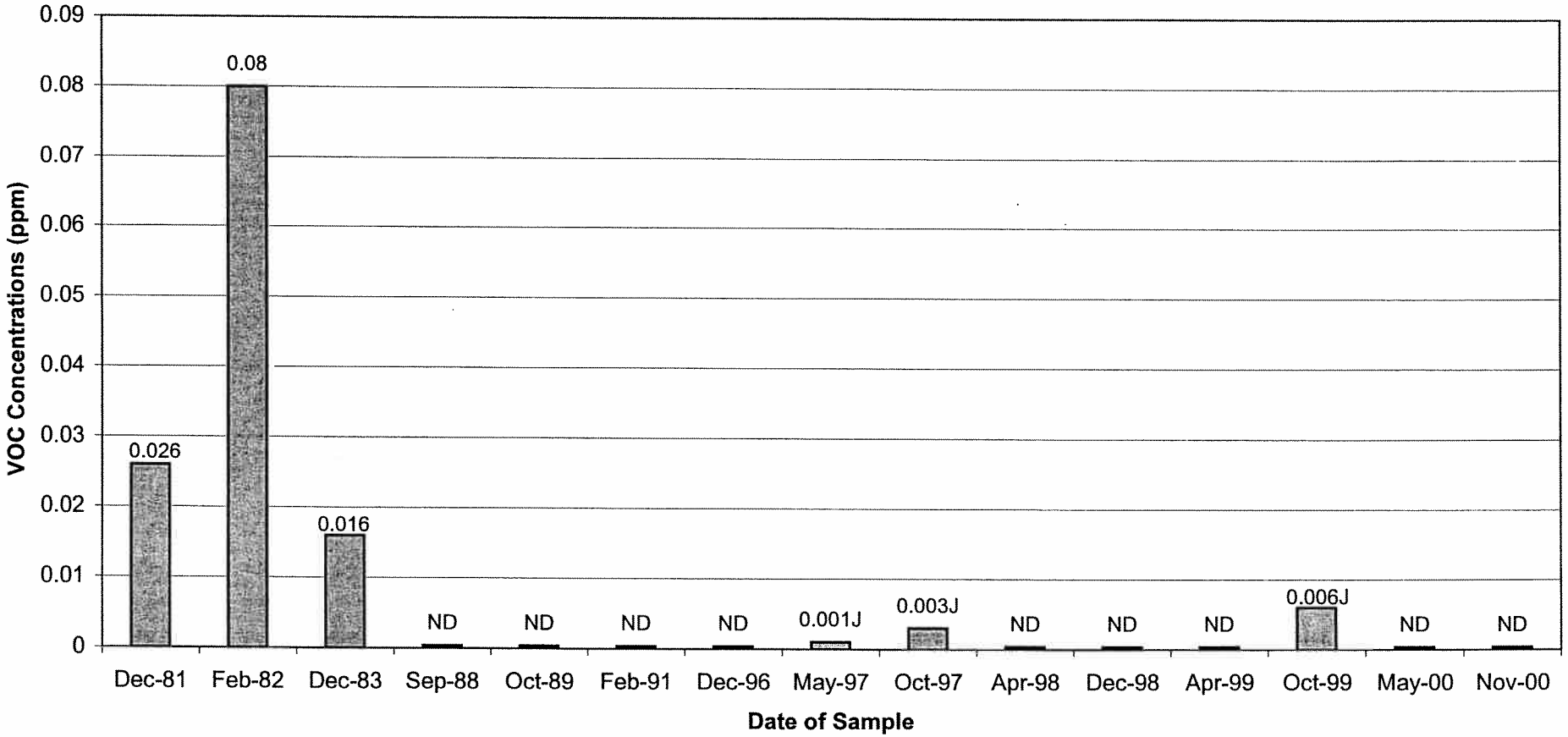
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 114C Historical Total VOC Concentrations



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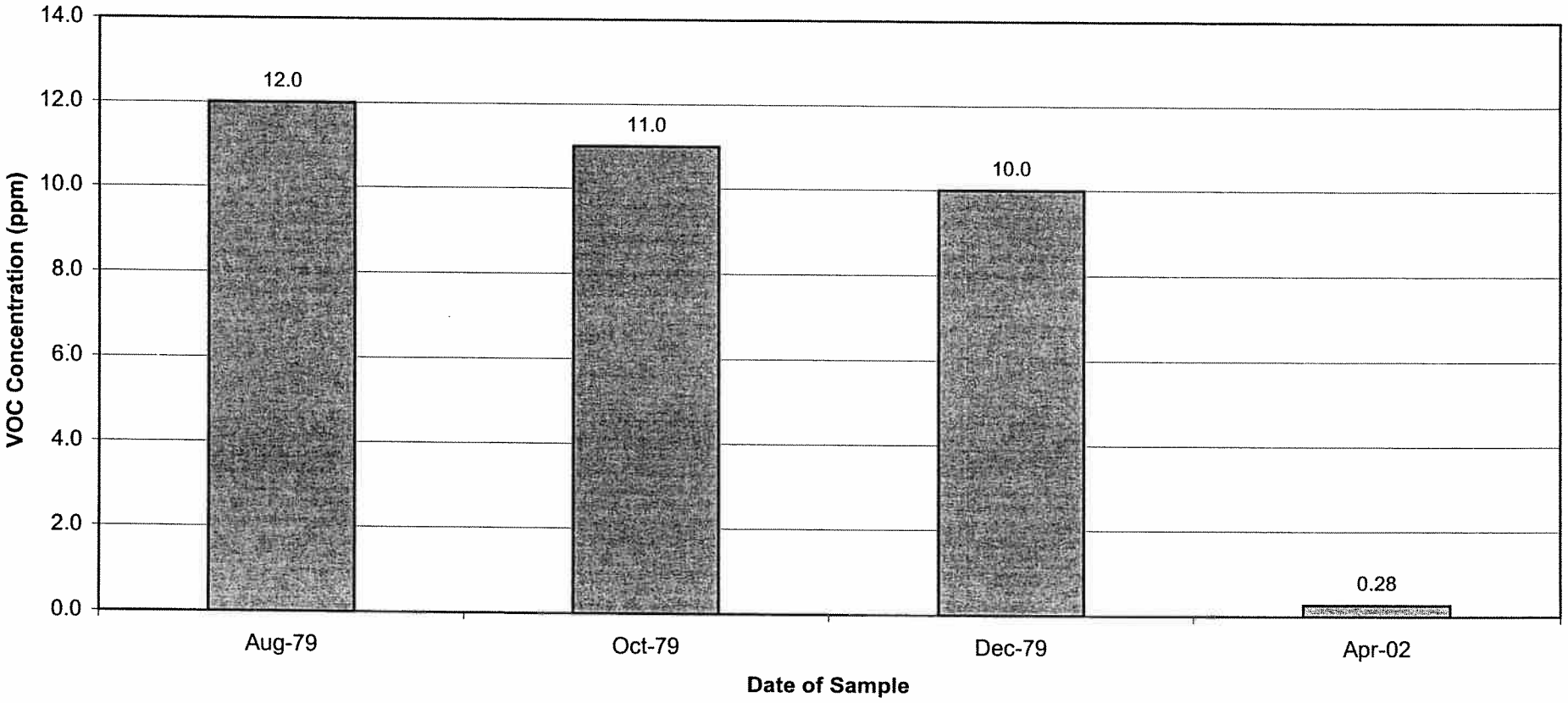
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 6B Historical Total VOC Concentrations



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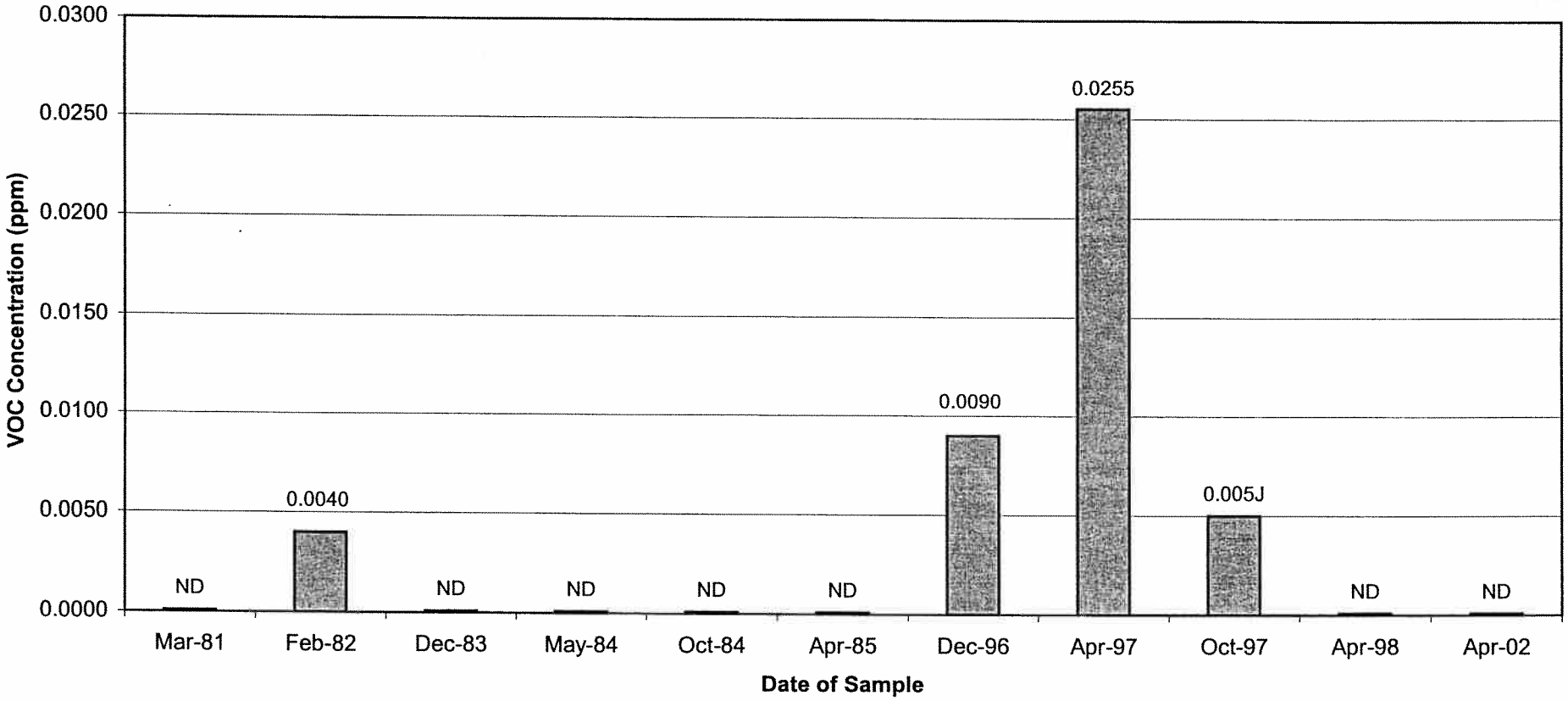
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 16B/16B-R Historical Total VOC Concentrations



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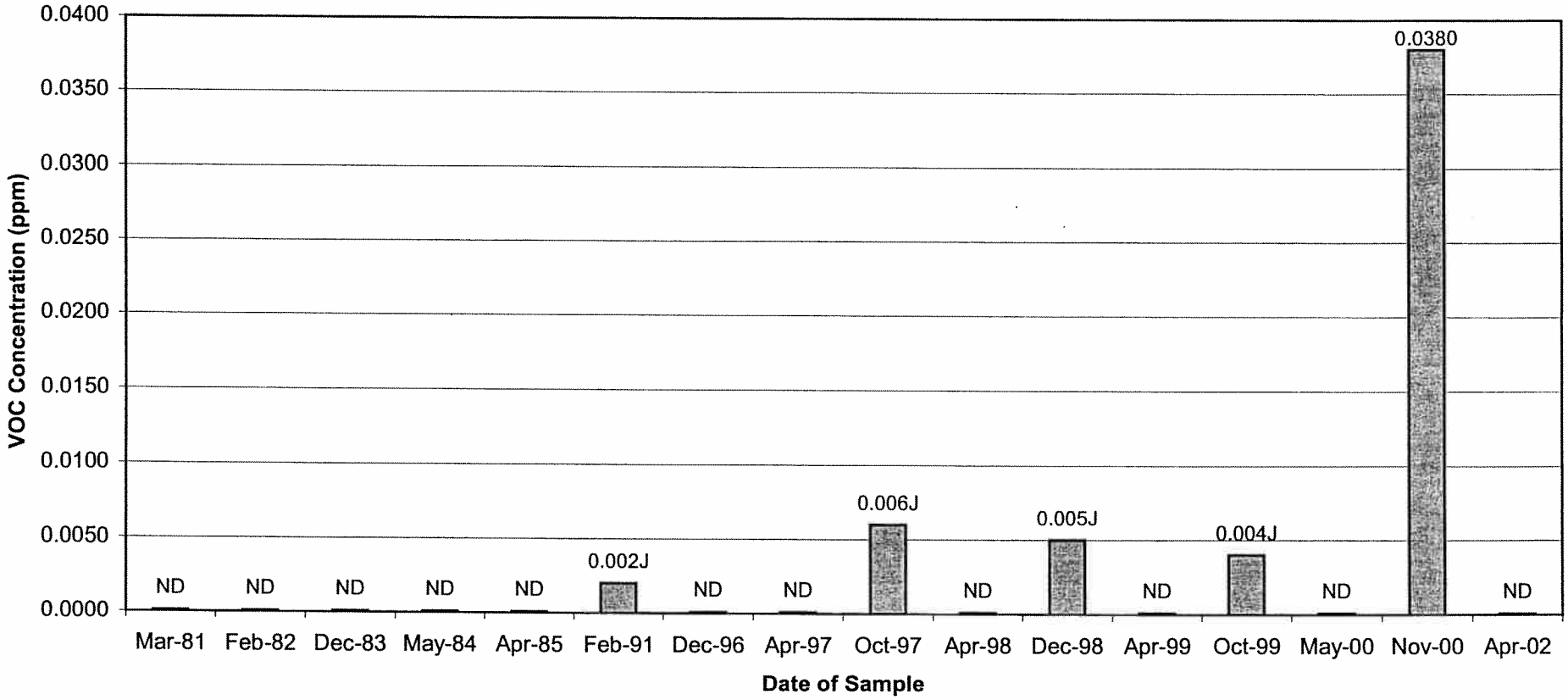
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 16E Historical Total VOC Concentrations



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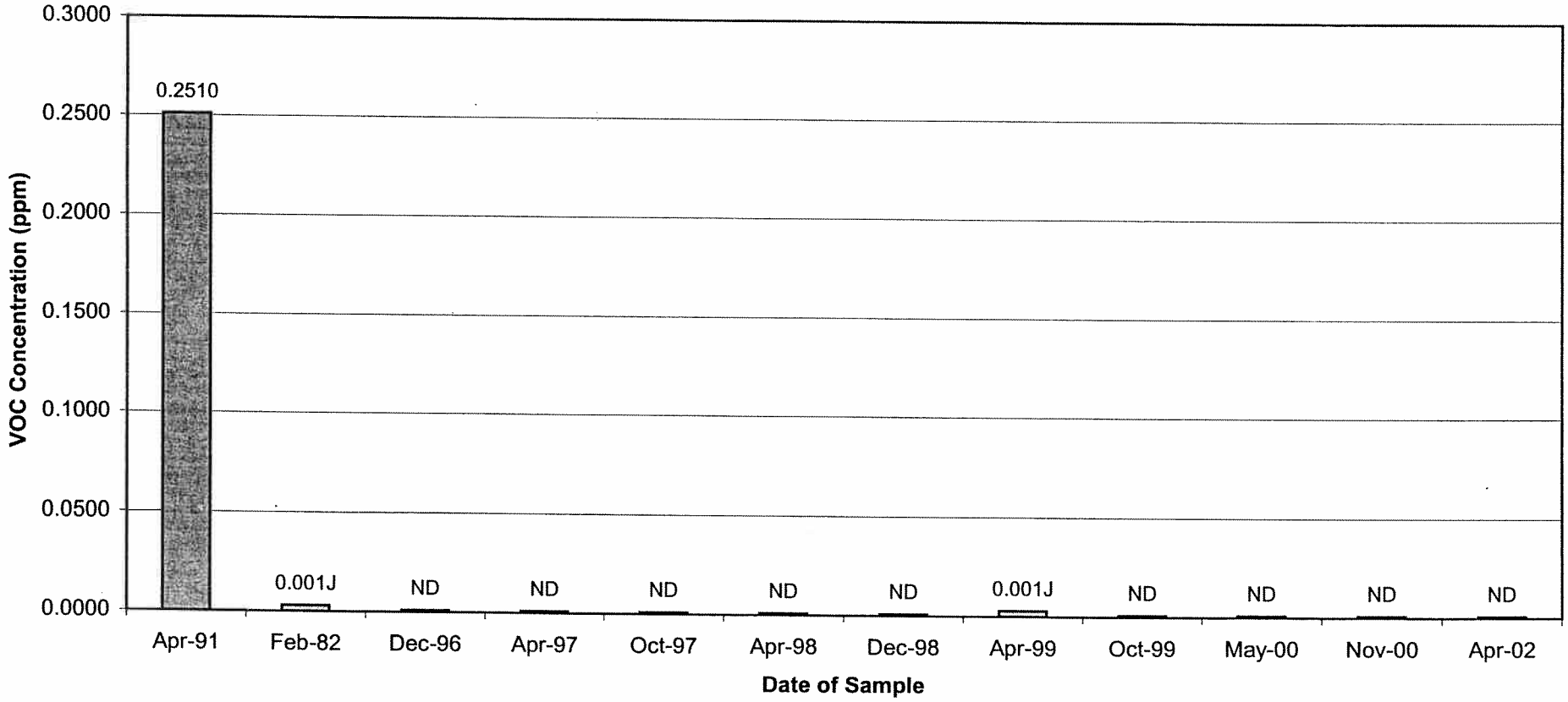
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 39E Historical Total VOC Concentrations



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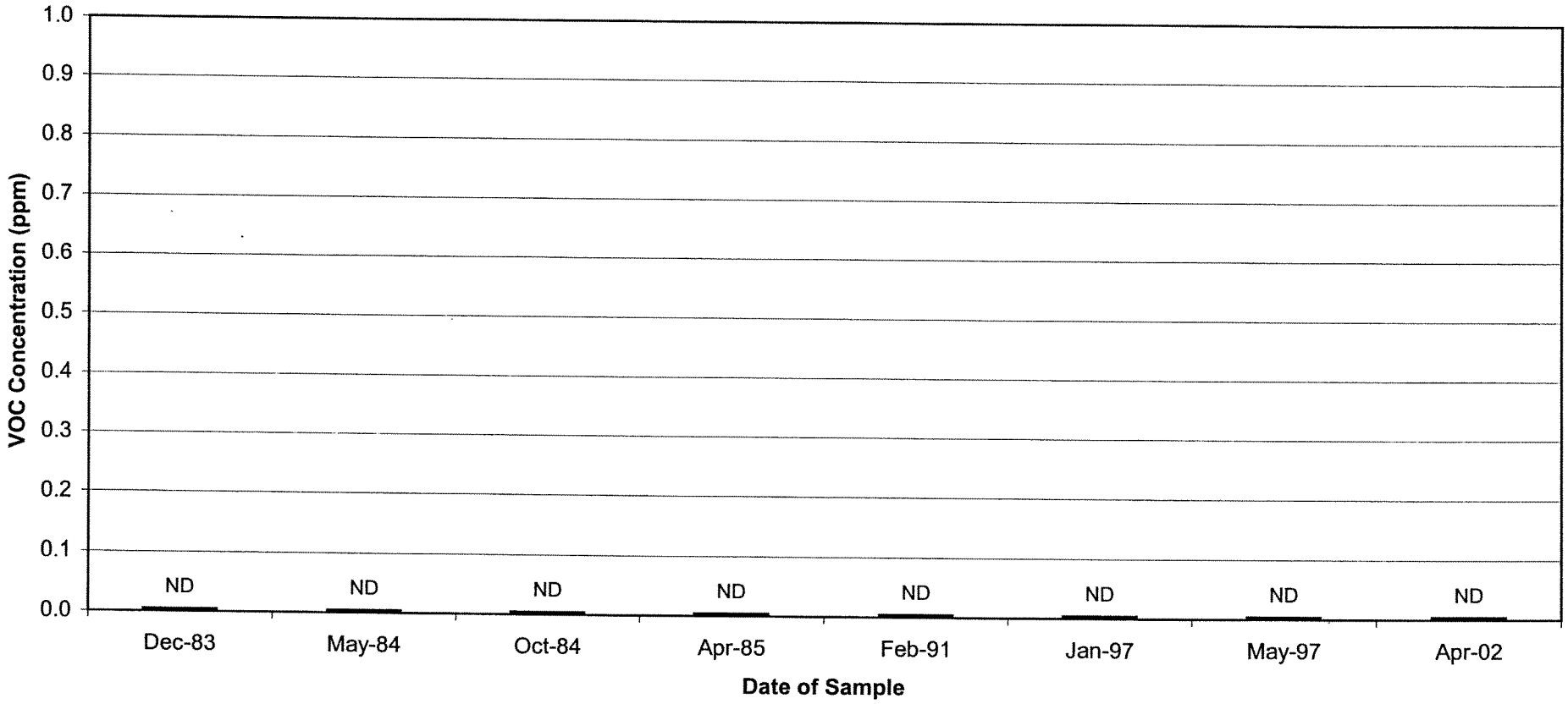
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 43B Historical Total VOC Concentrations



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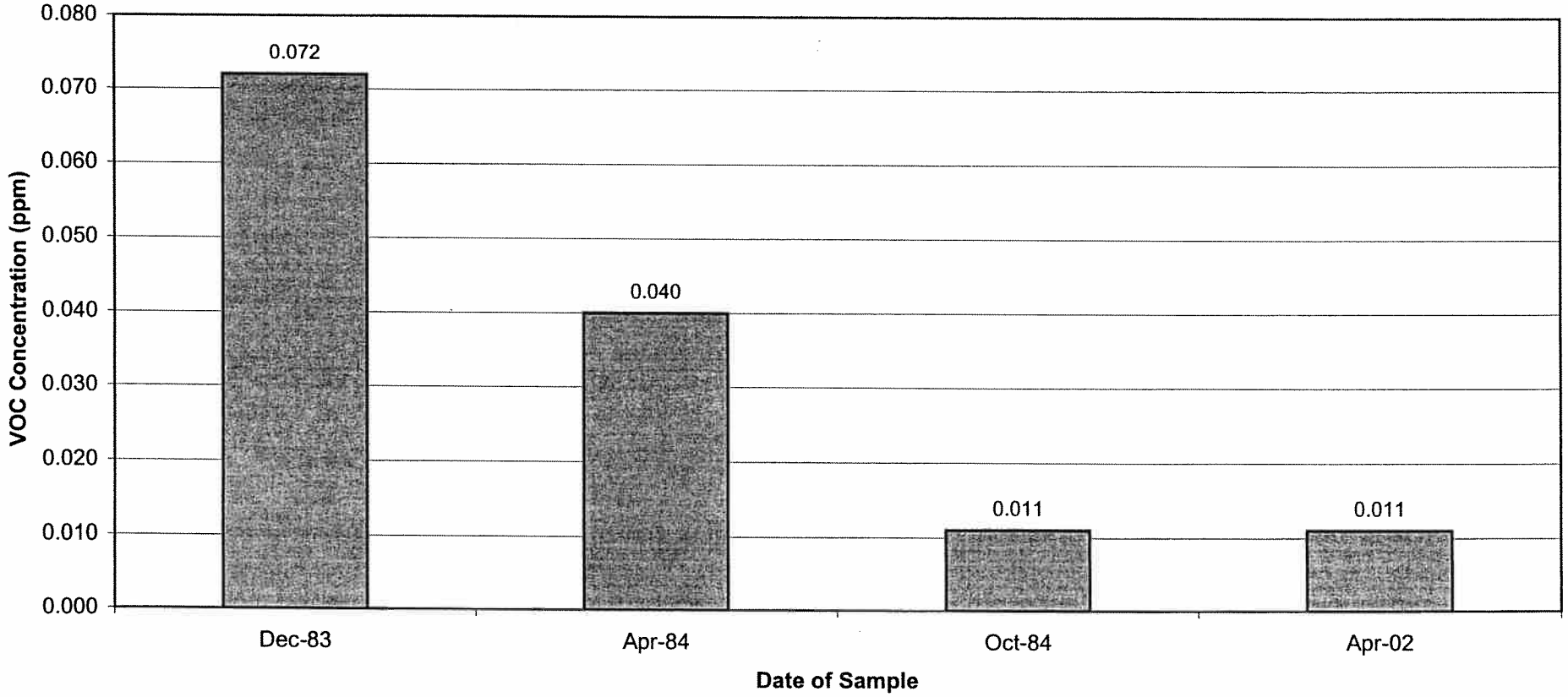
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 54B Historical Total VOC Concentrations



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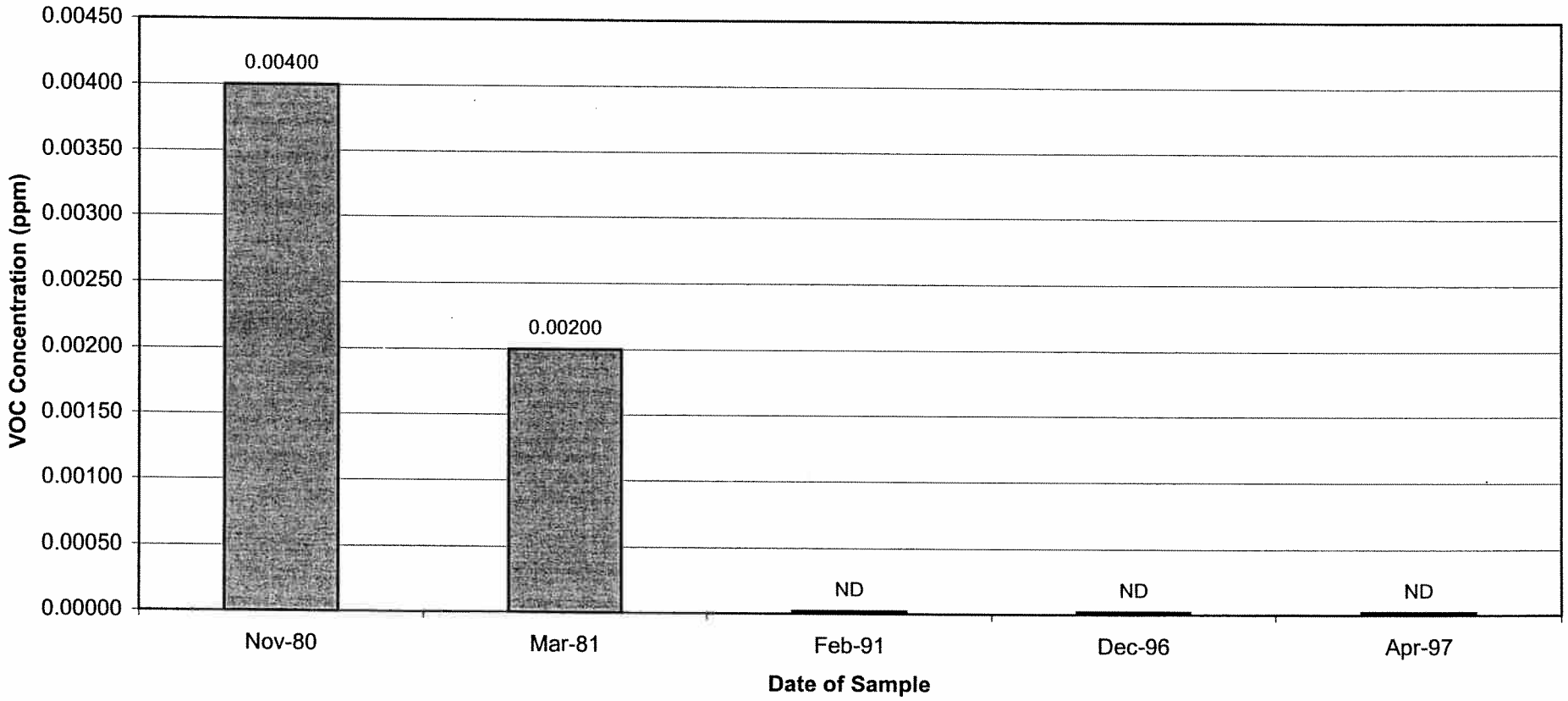
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 82B Historical Total VOC Concentrations



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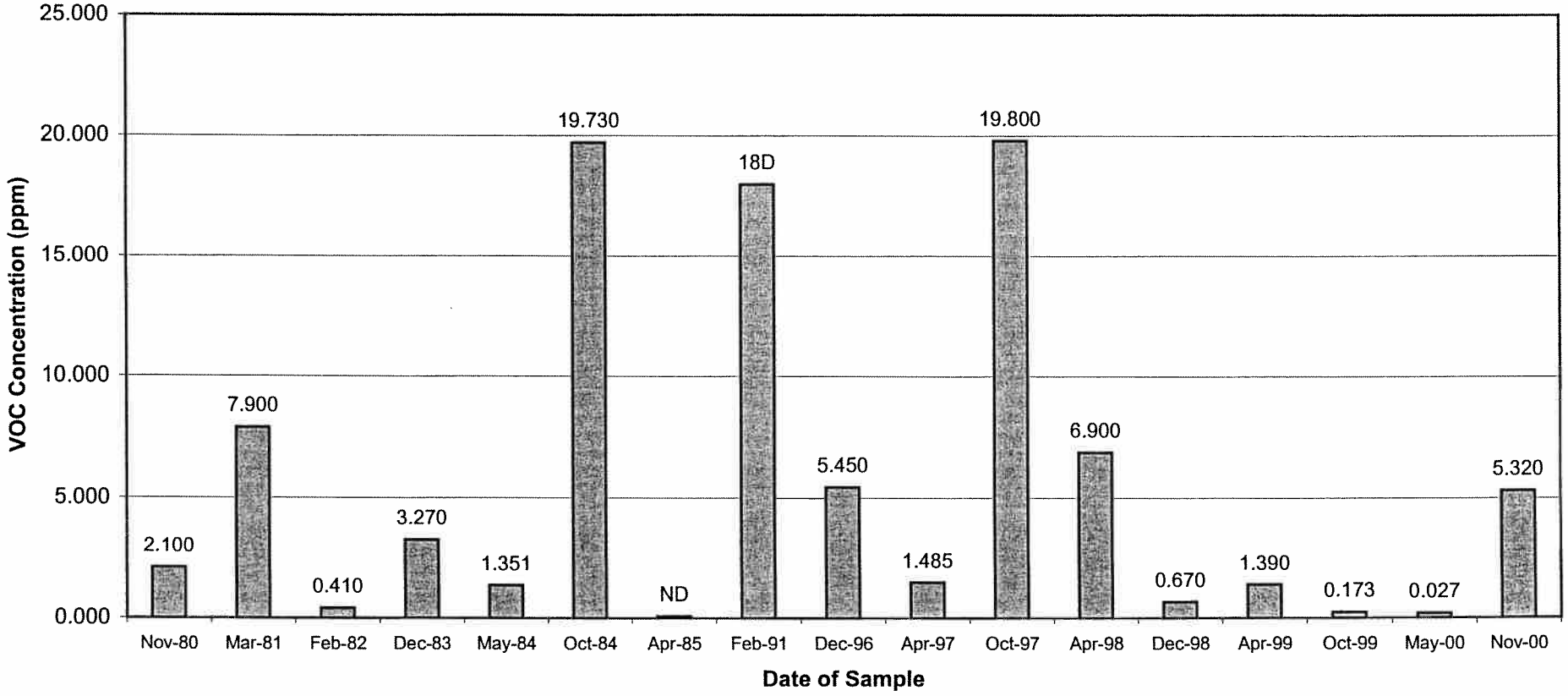
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 89B Historical Total VOC Concentrations



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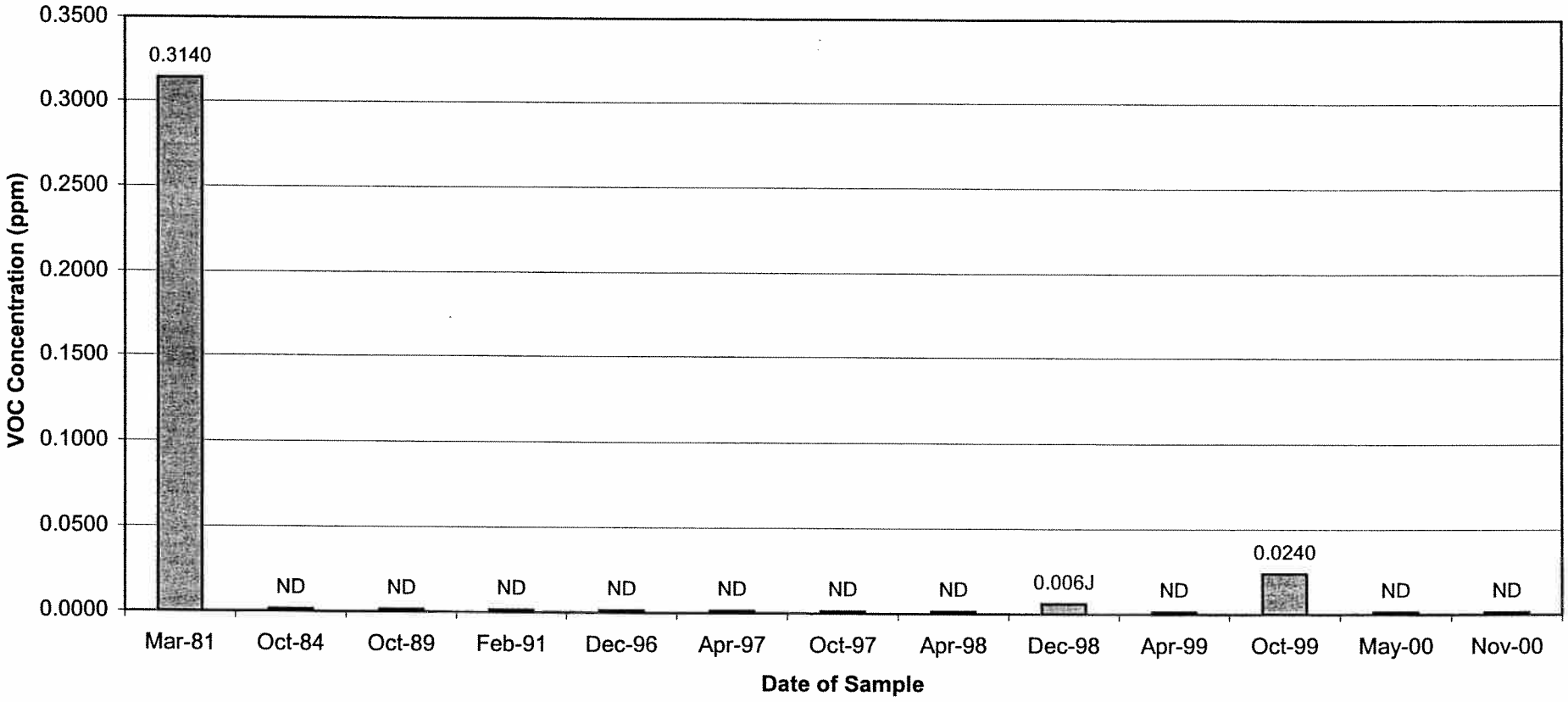
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 90B Historical Total VOC Concentrations



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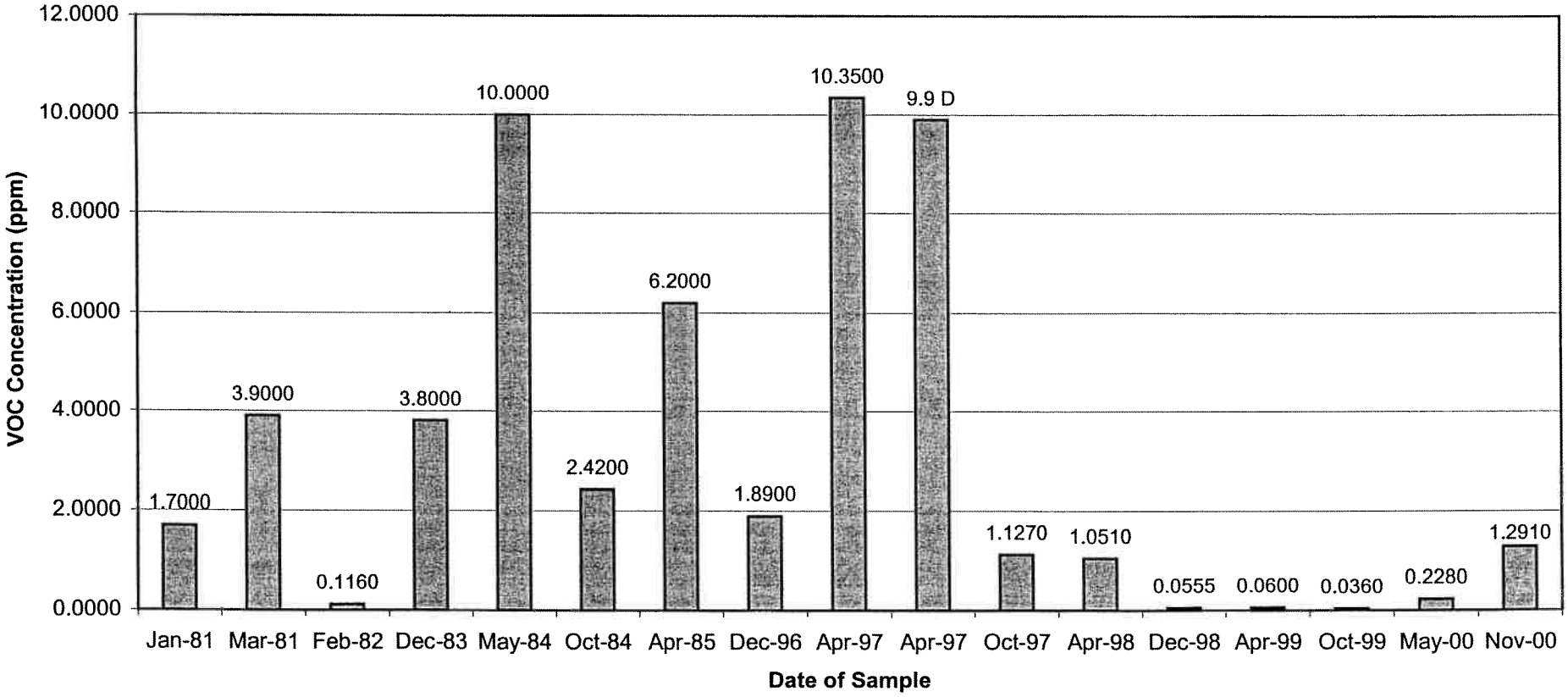
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 95B Historical Total VOC Concentrations



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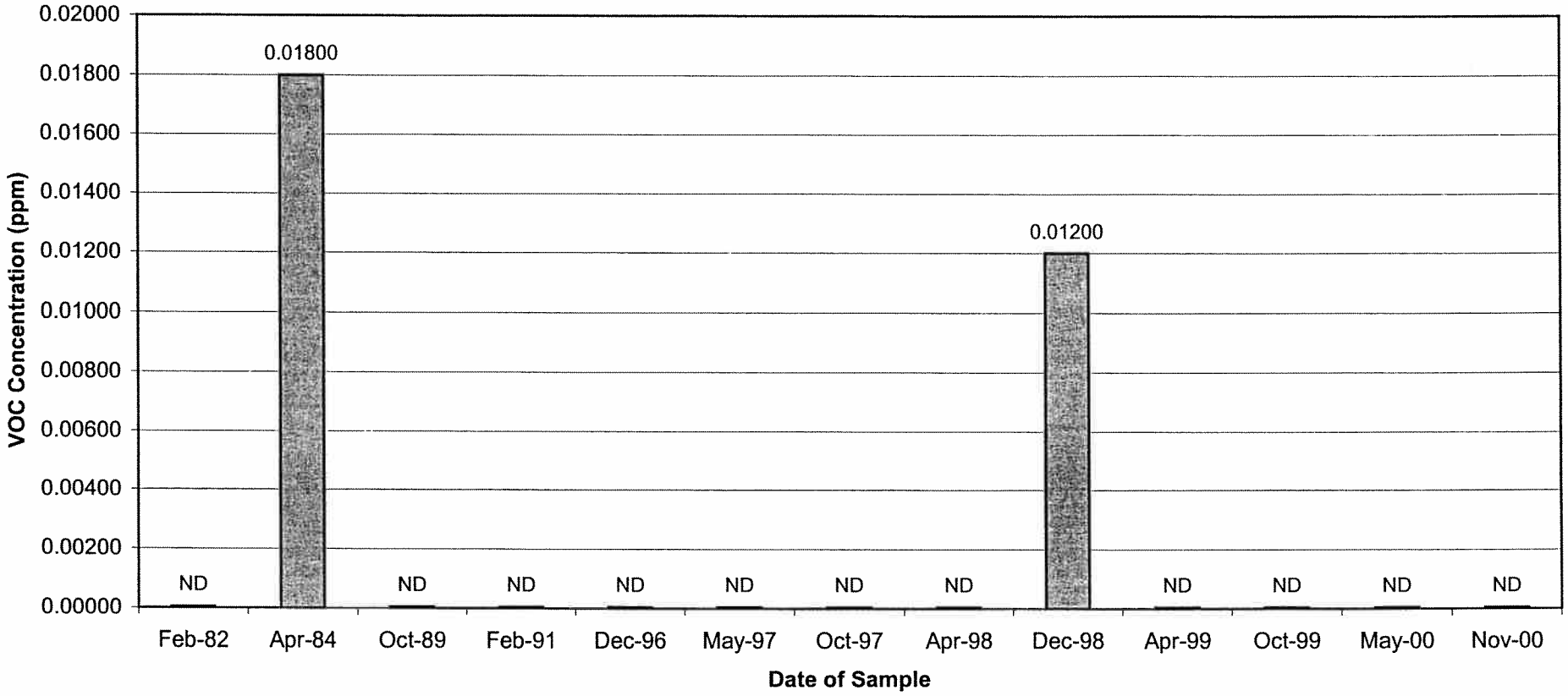
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 111B Historical Total VOC Concentrations



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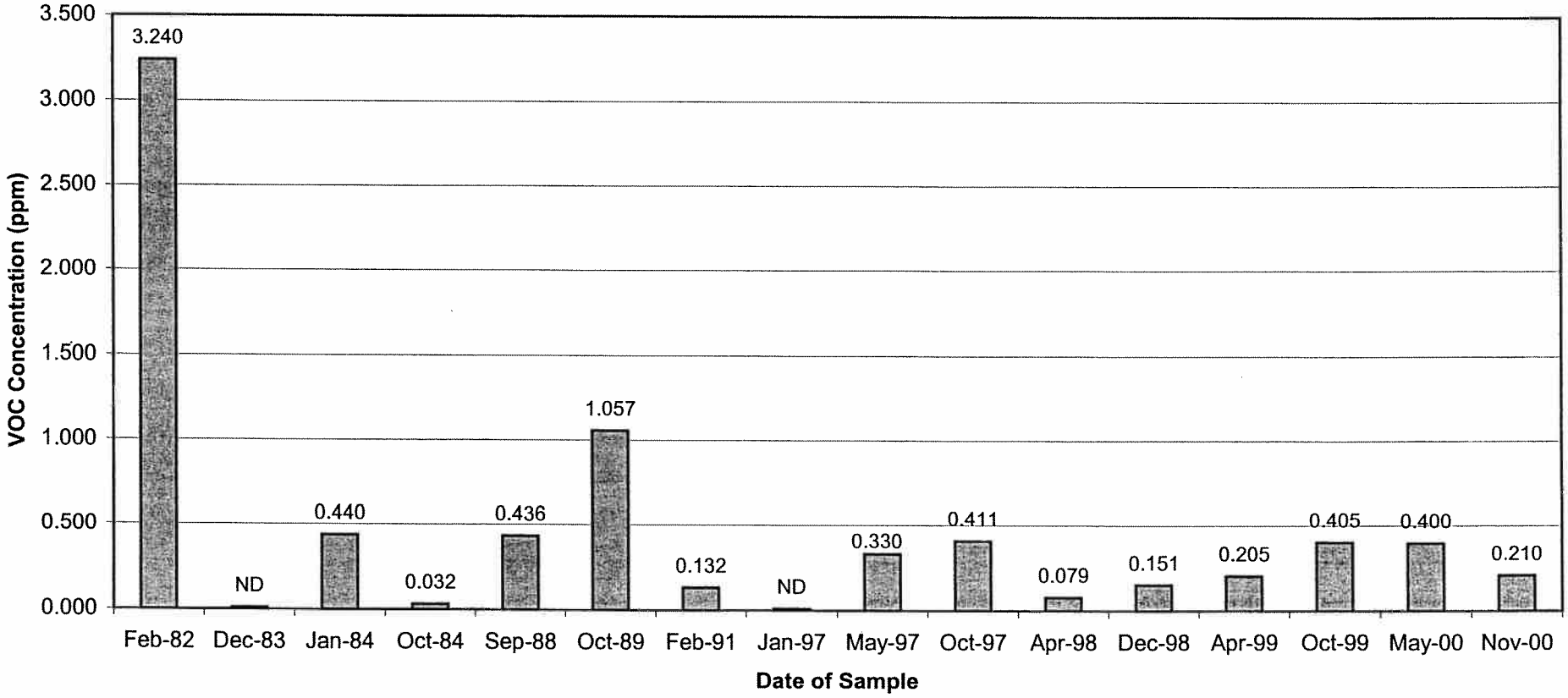
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

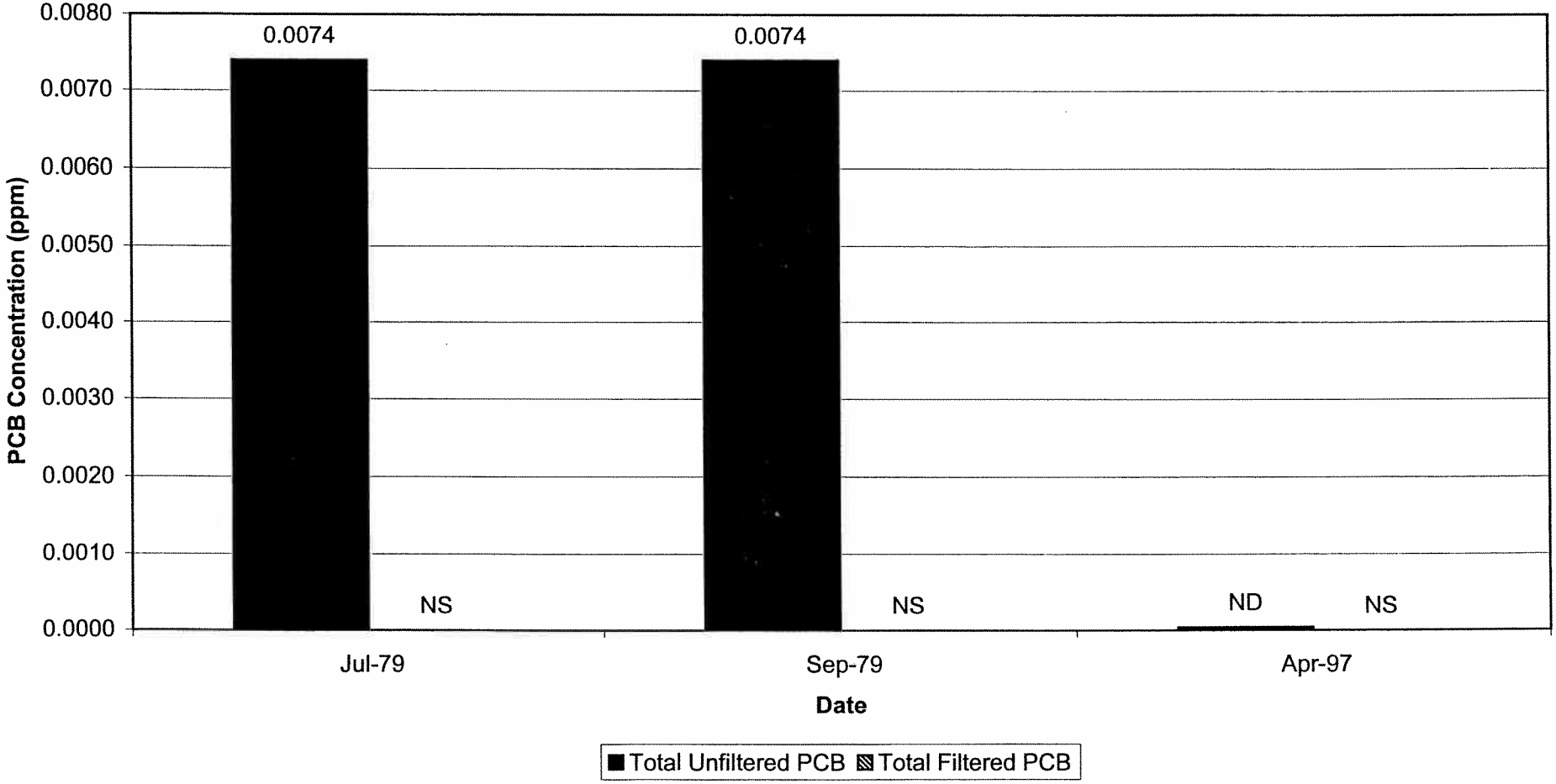
Well 114B Historical Total VOC Concentrations



Appendix F

General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 2A Historical Total PCB Concentrations



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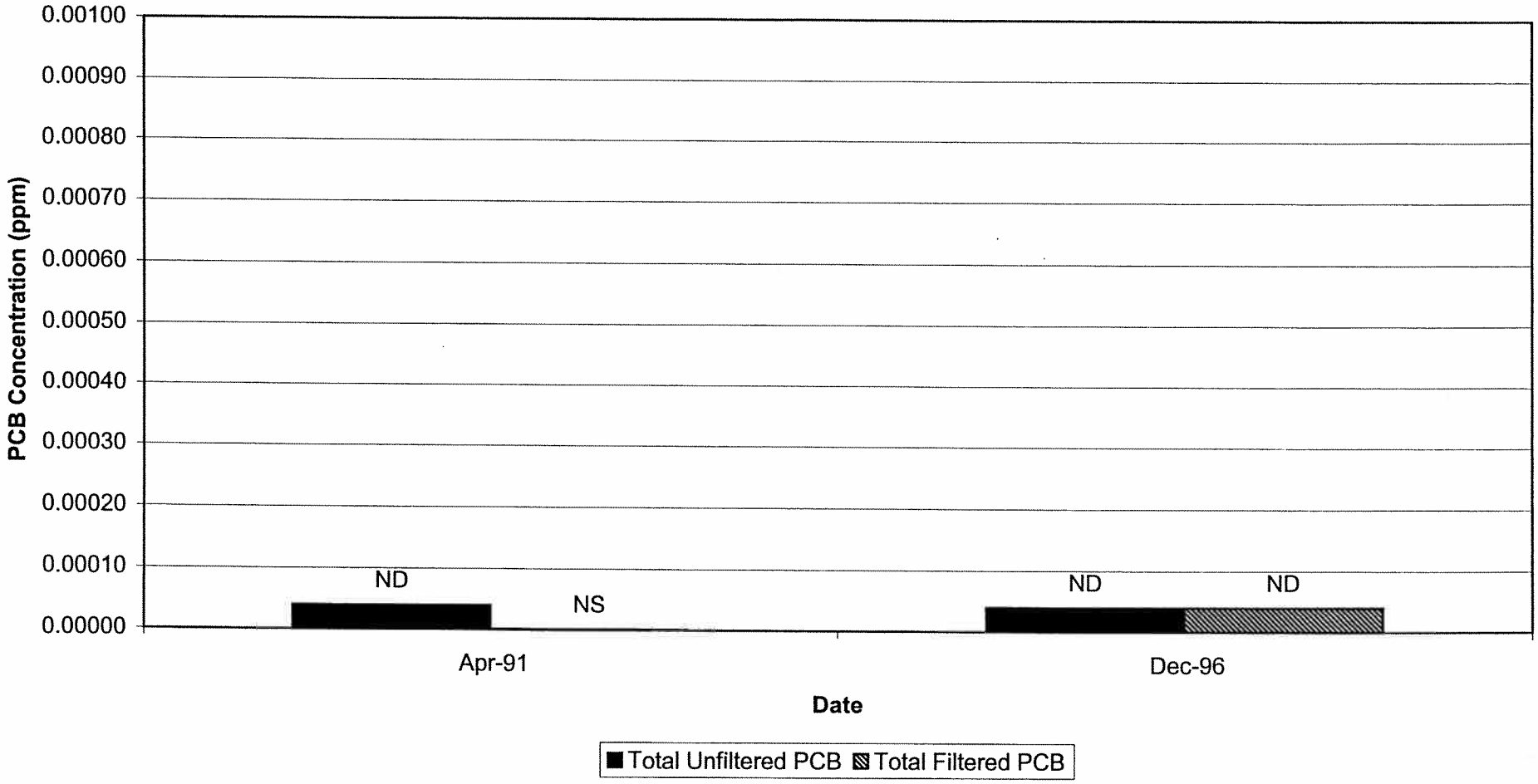
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 39D Historical Total PCB Concentrations



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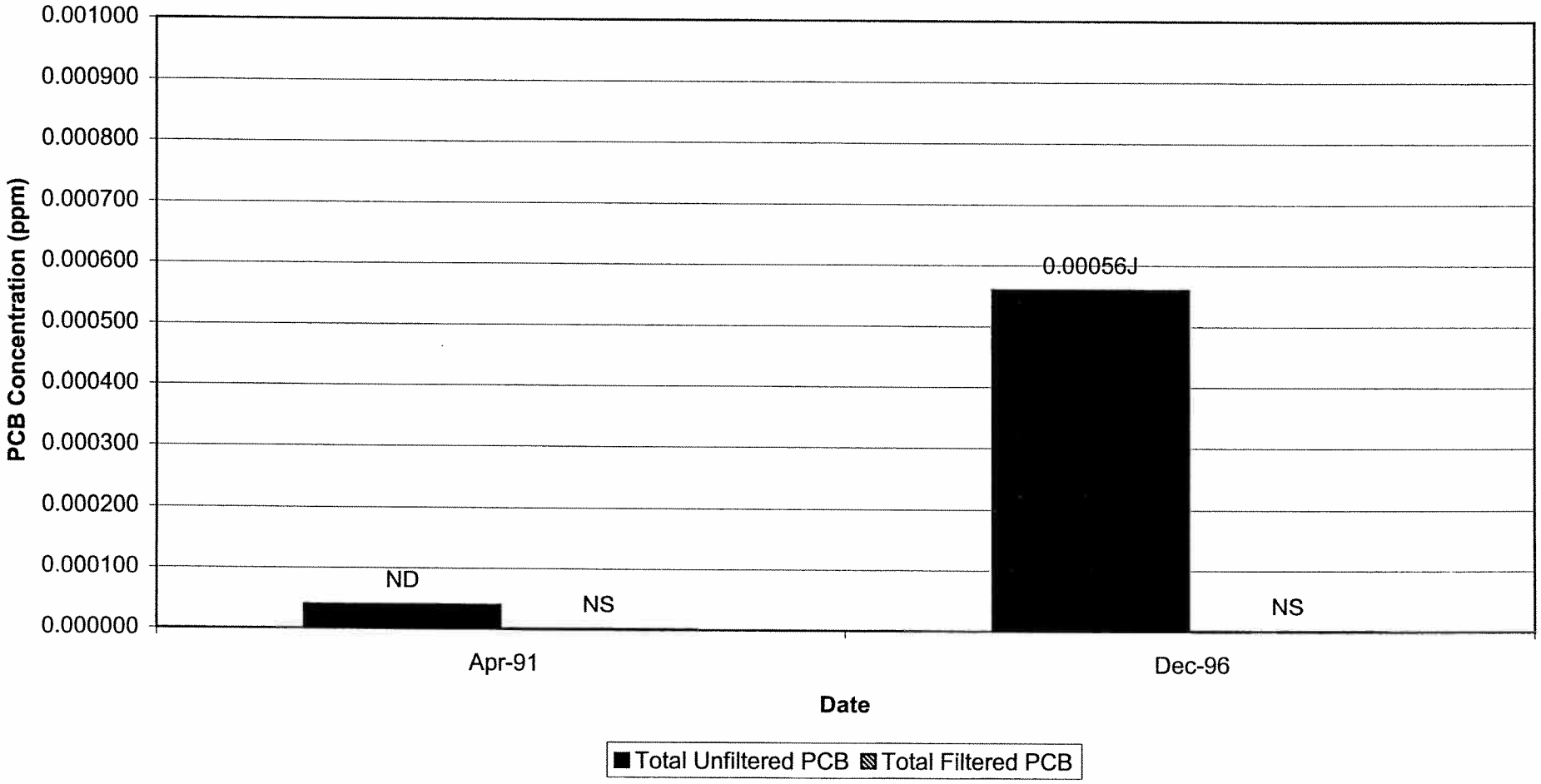
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 39E Historical Total PCB Concentrations



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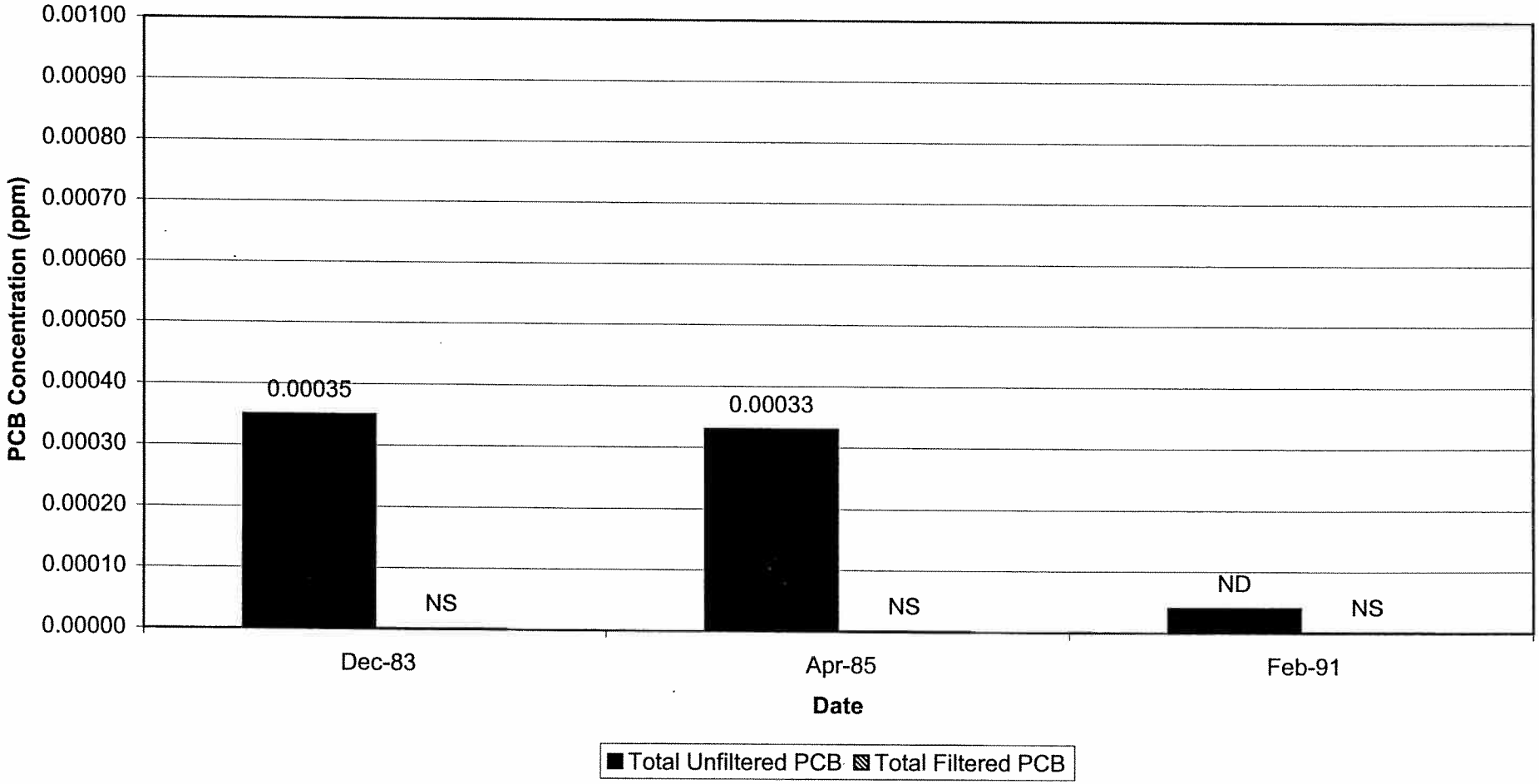
General Electric Company
Pittsfield, Massachusetts
Plant Site 2 Groundwater Management Area

Well 43A Historical Total PCB Concentrations



Appendix G

Data Validation Report

BBL®
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

APPENDIX G

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3

SPRING 2002 GROUNDWATER SAMPLING DATA VALIDATION REPORT

1.0 General

This attachment summarizes the Tier I and Tier II data review performed for groundwater samples collected at the Groundwater Management Area (GMA 3) located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) and natural attenuation parameters, by CT&E Environmental Services, Inc. of Charleston, West Virginia. Data validation was performed for 8 polychlorinated biphenyl (PCB) samples, 20 volatile organic compound (VOC) samples, 4 semi-volatile organic compound (SVOC) samples, 4 pesticide/herbicide samples, 4 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 18 metals samples, 10 natural attenuation parameters, and 17 cyanide/sulfide samples that were collected.

2.0 Data Evaluation Procedures

This attachment outlines the applicable quality control criteria utilized during the data review process and any deviations from those criteria. The data review was conducted in accordance with the following documents:

- *Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts*, Blasland, Bouck & Lee, Inc. (FSP/QAPP; approved October 17, 2000);
- *Region I Tiered Organic and Inorganic Data Validation Guidelines*, USEPA Region I (July 1, 1993);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Inorganics Analyses,* USEPA Region I (June 13, 1988) (Modified February 1989);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (February 1, 1988) (Modified November 1, 1988);
- *Region I Laboratory Data Validation Functional Guidelines for Evaluating Organics Analyses*, USEPA Region I (Draft, December 1996); and
- *National Functional Guidelines for Dioxin/Furan Data Validation, USEPA (Draft, January 1996).*

A tabulated summary of the Tier I and Tier II data evaluation is presented in Table G-1. Each sample subjected to evaluation is listed in Table G-1 to document that data review was performed, as well as present the highest level of data validation (Tier I or Tier II) that was applied. Samples that required data qualification are listed separately for each parameter (compound or analyte) that required qualification.

The following data qualifiers have been used in this data evaluation.

J The compound or analyte was positively identified, but the associated numerical value is an estimated concentration. This qualifier is used when the data evaluation procedure identifies a deficiency in the data generation process. This qualifier is also used when a compound or analyte is detected at estimated concentrations less than the practical quantitation limit (PQL).

U The compound or analyte was analyzed for, but was not detected. The sample quantitation limit is presented and adjusted for dilution and (for solid samples only) percent moisture. Non-detected sample results are presented as ND(PQL) within this report and in Table G-1 for consistency with previous documents prepared for this investigation.

UJ The compound or analyte was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual level of quantitation. Non-detected sample results that required qualification are presented as ND(PQL) J within this report and in Table G-1 for consistency with previous documents prepared for this investigation.

R Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data should not be used for any qualitative or quantitative purposes.

3.0 Data Validation Procedures

The FSP/QAPP provides (in Section 7.5) that all analytical data will be validated to a Tier I level following the procedures presented in the *Region I Tiered Organic and Inorganic Data Validation Guidelines* (USEPA guidelines). Accordingly, 100% of the analytical data for these investigations were subjected to Tier I review. The Tier I review consisted of a completeness evidence audit, as outlined in the *USEPA Region I CSF Completeness Evidence Audit Program* (USEPA Region I, 7/31/91), to ensure that all laboratory data and documentation were present. A tabulated summary of the samples subjected to Tier I and Tier II data evaluation is presented below.

Summary of Samples Subjected to Tier I and Tier II Data Validation

	Tier I Only			Tier I &Tier II			
Parameter	**Samples**	**Duplicates**	**Blanks**	**Samples**	**Duplicates**	**Blanks**	**Total**
PCBs	6	0	0	2	0	0	8
VOCs	0	0	0	16	1	3	20
SVOCs	0	0	0	4	0	0	4
Pesticides/ Herbicides	3	0	0	1	0	0	4
PCDDs/PCDFs	0	0	0	4	0	0	4
Metals	2	0	0	15	1	0	18
Natural Attenuation Parameters	7	1	0	2	0	0	10
Cyanide/Sulfide	9	1	0	7	0	0	17
Total	27	2	0	51	2	3	85

In the event that data packages were determined to be incomplete, the missing information was requested from

the laboratory. Upon completion of the Tier I review, the data packages complied with the USEPA Region I Tier I data completeness requirements.

As specified in the FSP/QAPP, approximately 25% of the laboratory sample delivery group packages were randomly chosen to be subjected to a Tier II review. A Tier II review was also performed to resolve data usability limitations that were identified from laboratory qualification of the data during the Tier I data review. The Tier II data review consisted of a review of all data package summary forms for identification of quality assurance/quality control (QA/QC) deviations and qualification of the data according to the Region I Data Validation Functional Guidelines. Due to the variable sizes of the data packages and the number of data qualification issues identified during the Tier I review, approximately 66% of the data were subjected to a Tier II review. The Tier II review resulted in the qualification of data for several samples due to minor QA/QC deficiencies. Additionally, all field duplicates were examined for relative percent difference (RPD) compliance with the criteria specified in the FSP/QAPP.

When qualification of the sample data was required, the sample results associated with a QA/QC parameter deviation were qualified in accordance with the procedures outlined in the USEPA Region I data validation guidance documents. When the data validation process identified several quality control deficiencies, the cumulative effect of the various deficiencies was employed in assigning the final data qualifier. A summary of the QA/QC parameter deviations that resulted in data qualification is presented below for each analytical method.

4.0 Data Review

Initial calibration criterion for organic analyses requires that the average relative response factor (RRF) has a value greater than 0.05. Sample results were qualified as an estimate (J) when this criterion was exceeded. The compounds that exceeded initial calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Initial Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Acetone	20	J
	Acetonitrile	20	J
	Acrolein	20	J
	Acrylonitrile	20	J
	Isobutanol	20	J
	Propionitrile	20	J
SVOCs	4-Phenylenediamine	4	J

Continuing calibration criterion for organic analyses requires that the continuing calibration RRF has a value greater than 0.05. Sample results were qualified as an estimate (J) when this criterion was exceeded. The compounds that exceeded continuing calibration criterion and the number of samples qualified are presented below.

Analysis Qualified Due to Continuing Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	20	J

Analysis Qualified Due to Continuing Calibration RRF Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	2-Chloroethylvinylether	20	J

Several of the organic compounds (including the compounds presented in the two tables above detailing RRF deviations) exhibit instrument response factors (RFs) that are below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum response factors for these compounds. These compounds were analyzed by the laboratory at a higher concentration than the compounds that normally exhibit RFs greater than the USEPA Region I minimum value of 0.05 in an effort to demonstrate acceptable response. USEPA Region I guidelines state that non-detected compound results associated with a RF less than the minimum value of 0.05 are to be rejected. In the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detected samples results were qualified as an estimate (J).

The continuing calibration criterion requires that the %D between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25% and for pesticides less than 15%. Sample data for detected and non-detected compounds with %D values that exceeded the continuing calibration criterion were qualified as approximated (J). A summary of the compounds that exceeded continuing calibration criterion and the number of samples qualified due to those deviations are identified below.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	1,1,1,2-Tetrachloroethane	6	J
	Naphthalene	1	J
	Tetrachloroethene	1	J
	Vinyl Acetate	1	J
SVOCs	1,3,5-Trinitrobenzene	3	J
	1,3-Dinitrobenzene	3	J
	2,3,4,6-Tetrachlorophenol	2	J
	2,6-Dinitrotoluene	4	J
	2-Nitroaniline	1	J
	4-Chlorobenzilate	2	J
	7,12-Dimethylbenz(a)anthracene	3	J
	a,a'-Dimethylphenethylamine	1	J
	Aramite	3	J
	Benzidine	3	J
	Benzoic Acid	1	J
	Diphenylamine	1	J
	Hexachloropropene	4	J
	Pentachloronitrobenzene	4	J
Pesticides	4,4'-DDT	1	J
	Methoxychlor	1	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method CRDL. These standards are required to have

recoveries between 80 and 120% to verify that the analytical instrumentation was properly calibrated. When CRDL standard recoveries exceeded the 80 to 120% control limits, the affected samples with detected results at or near the CRDL concentration (less than three times the CRDL) were qualified as approximated (J). The analytes that exceeded CRDL criteria and the number of samples qualified due to those deviations are presented below.

Analytes Qualified Due to CRDL Deviations

Analysis	Analytes	Number of Affected Samples	Qualification
Inorganics	Thallium	4	J
	Zinc	4	J

Field, laboratory, and method blanks were analyzed to evaluate whether field sampling equipment or laboratory background contamination may have contributed to the reported sample results. When detected analytes were identified in a blank sample, blank action levels were calculated at 10 times the blank concentrations for the common laboratory contaminant compounds (OCDD and OCDF) and five times the blank concentration for all other detected analytes. Detected sample results that were below the blank action level were qualified with a "U." The analytes detected in the method blanks, and which resulted in qualification of sample data, are presented below.

Compounds Qualified Due to Blank Deviations

Analysis	Compound	Number of Affected Samples	Qualification
PCDDs/PCDFs	OCDD	3	U

Surrogate compounds are analyzed with every organic sample to aid in the evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, two of the three SVOC surrogate compounds within each fraction must be within the laboratory specified control. Sample data for detected and non-detected compounds with surrogate that exceeded the surrogate recovery criteria and exhibited recoveries greater than 10 percent were qualified as approximate (J). A summary of the compounds affected by surrogate recovery exceedences and the samples qualified due to those deviations are shown below.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	All Base-neutral compounds	1	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. Data completeness with respect to usability was calculated separately for inorganics and each of the organic analyses. The percent usability calculation included analyses evaluated under both Tier I and Tier II data validation reviews. The percent usability calculation also includes quality control samples collected to aid in the evaluation of data usability. Therefore, field/equipment blank, trip blank, and field duplicate data determined to be unusable as a result of the validation process are represented in the percent usability value tabulated below.

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Natural Attenuation Parameters	100	None
Cyanide and Sulfide	100	None
Volatile Organics	100	None
Semi-Volatile Organics	100	None
PCBs	100	None
Pesticides and Herbicides	100	None
PCDDs/PCDFs	100	None

The data package completeness, as determined from the Tier I data review, was used in combination with the data quality deviations identified during the Tier II data review to determine overall data quality. As specified in the FSP/QAPP, the overall precision, accuracy, representativeness, comparability, and completeness (PARCC) parameters determined from the Tier I and Tier II data reviews were used as indicators of overall data quality. These parameters were assessed through an evaluation of the results of the field and laboratory QA/QC sample analyses to provide a measure of compliance of the analytical data with the data quality objectives (DQOs) specified in the FSP/QAPP. Therefore, the following sections present summaries of the PARCC parameters assessment with regard to the DQOs specified in the FSP/QAPP.

5.1 Precision

Precision measures the reproducibility of measurements under a given set of conditions. Specifically, it is a quantitative measure of the variability of a group of measurements compared to their average value. For this investigation, precision was defined as the RPD between duplicate sample results. The duplicate samples used to evaluate precision included laboratory duplicates, field duplicates, matrix spike/matrix spike duplicate (MS/MSD) samples, and ICP serial dilution samples. For this analytical program, 0.025% of the data were qualified for field duplicate RPD deviations. None of the data required qualification for laboratory duplicate RPD, MS/MSD RPD, or ICP serial dilutions.

5.2 Accuracy

Accuracy measures the bias in an analytical system or the degree of agreement of a measurement with a known reference value. For this investigation, accuracy was defined as the percent recovery of QA/QC samples that were spiked with a known concentration of an analyte or compound of interest. The QA/QC samples used to evaluate analytical accuracy included instrument calibration, internal standards, laboratory control standards (LCSs), MS/MSD samples, contract required detection limit (CRDL) samples, and surrogate compound recoveries. For this analytical program, 9.4% of the data required qualification for calibration deviations, 4.3% of the data required qualification for surrogate compound recoveries, and 0.36% of the data required qualification for CRDL standard recoveries. None of the data required qualification for MS/MSD recoveries, internal standard recoveries, or LCS recoveries.

5.3 Representativeness

Representativeness expresses the degree to which sample data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness is a qualitative parameter which is most concerned with the proper design of the sampling program. The representativeness criterion is best satisfied by making certain that sampling locations are selected properly and a sufficient number of samples are collected. This parameter has been addressed by collecting samples at locations specified in Agency approved work plans, and by following the procedures for sample collection/analyses that were described in the FSP/QAPP. Additionally, the analytical program used procedures that were consistent with USEPA approved analytical methodology.

A QA/QC parameter that is an indicator of the representativeness of a sample is holding time. Holding time criteria are established to maintain the samples in a state that is representative of the in-situ field conditions before analysis. For this analytical program, none of the data required qualification for exceeding holding time requirements.

5.4 Comparability

Comparability is a qualitative parameter expressing the confidence with which one data set can be compared with another. This goal was achieved through the use of the standardized techniques for sample collection and analysis presented in the FSP/QAPP. The USEPA SW-846[1] analytical methods presented in the FSP/QAPP are updated on occasion by the USEPA to benefit from recent technological advancements in analytical chemistry and instrumentation. In most cases, the method upgrades include the incorporation of new technology that improves the sensitivity and stability of the instrumentation or allows the laboratory to increase throughput without hindering accuracy and precision. Overall, the analytical methods for this investigation have remained consistent in their general approach through continued use of the basic analytical techniques (i.e., sample extraction/preparation, instrument calibration, QA/QC procedures, etc.). Through this use of consistent base analytical procedures and by requiring that updated procedures meet the QA/QC criteria specified in the FSP/QAPP, the analytical data from past, present, and future sampling events will be comparable to allow for qualitative and quantitative assessment of site conditions.

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set was 100 percent for individual analytical parameters and had an overall usability of 100 percent, which is greater than the minimum required usability of 90 percent as specified in the FSP/QAPP.

[1] Test Methods for evaluating Solid Waste, SW-846, USEPA, Final Update III, December 1996

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
2D0P698	6B	4/25/2002	Water	Tier I	No						
2D0P698	6B-Filtered	4/25/2002	Water	Tier I	No						
2D0P698	78B-R	4/25/2002	Water	Tier I	No						
2D0P698	78B-R-Filtered	4/25/2002	Water	Tier I	No						
2D0P727	GMA3-6	4/25/2002	Water	Tier II	No						
2D0P727	GMA3-6-Filtered	4/25/2002	Water	Tier II	No						
2E0P001	54B	4/29/2002	Water	Tier I	No						
2E0P001	54B-Filtered	4/29/2002	Water	Tier I	No						
Pesticides and Herbicides											
2D0P698	6B	4/25/2002	Water	Tier I	No						
2D0P698	78B-R	4/25/2002	Water	Tier I	No						
2D0P727	GMA3-6	4/25/2002	Water	Tier II	Yes	4,4'-DDT	CCAL %D	36.20%	<15%	ND(0.00010) J	
						Methoxychlor	CCAL %D	36.20%	<15%	ND(0.00050) J	
2E0P001	54B	4/29/2002	Water	Tier I	No						
Metals											
2D0P634	002A-Filtered	4/23/2002	Water	Tier I	No						
2D0P634	39D-Filtered	4/23/2002	Water	Tier I	No						
2D0P698	16C-Filtered	4/25/2002	Water	Tier II	No						
2D0P698	16E-Filtered	4/25/2002	Water	Tier II	No						
2D0P698	6B	4/25/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
2D0P698	6B-Filtered	4/25/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
2D0P698	78B-R-Filtered	4/25/2002	Water	Tier II	Yes	Thallium	CRDL Standard %R	71.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	79.8%	80% to 120%	ND(0.0200) J	
2D0P698	MW-39-E-Filtered	4/25/2002	Water	Tier II	No						
2D0P727	16A-Filtered	4/26/2002	Water	Tier II	No						
2D0P727	16B-R-Filtered	4/26/2002	Water	Tier II	No						
2D0P727	43A-Filtered	4/26/2002	Water	Tier II	No						
2D0P727	43B-Filtered	4/26/2002	Water	Tier II	No						
2D0P727	DUP-7-Filtered	4/26/2002	Water	Tier II	No						
2D0P727	GMA3-6	4/25/2002	Water	Tier II	No						
2D0P727	GMA3-6-Filtered	4/25/2002	Water	Tier II	No						
2E0P001	54B	4/29/2002	Water	Tier II	No						
2E0P001	54B-Filtered	4/29/2002	Water	Tier II	No						

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs											
2D0P634	002A	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P634	39D	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P634	51-14	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P634	GMA3-4	4/23/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P698	16C	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
2D0P698	16E	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P698	6B	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P698	MW-39-E	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P698	TRIP BLANK	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
2D0P727	16A	4/26/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.010) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.010) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.20) J	
						Naphthalene	CCAL %D	33.60%	<30%	0.060 J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.020) J	
						Tetrachloroethene	CCAL %D	38.80%	<30%	ND(0.010) J	
						Vinyl Acetate	CCAL %D	32.80%	<30%	ND(0.010) J	
2D0P727	16B-R	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P727	43A	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P727	43B	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P727	DUP-7	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
2D0P727	DUP-7	4/26/2002	Water	Tier II	Yes	Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P727	GMA3-2	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P727	GMA3-6	4/25/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2D0P727	TRIP BLANK	4/26/2002	Water	Tier II	Yes	1,1,1,2-Tetrachloroethane	CCAL %D	38.4%	<30%	ND(0.0050) J	
						1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
2E0P001	54B	4/29/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
2E0P001	TRIP BLANK	4/29/2002	Water	Tier II	Yes	1,4-Dioxane	CCAL RRF	0.001	>0.05	ND(0.20) J	
						2-Chloroethylvinylether	CCAL RRF	0.046	>0.05	ND(0.0050) J	
						Acetone	ICAL RRF	0.037	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.033	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.027	>0.05	ND(0.10) J	
						Acrylonitrile	ICAL RRF	0.020	>0.05	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.018	>0.05	ND(0.10) J	
						Propionitrile	ICAL RRF	0.010	>0.05	ND(0.010) J	
SVOCs											
2D0P698	6B	4/25/2002	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	56.1%	<30%	ND(0.010) J	
						1,3-Dinitrobenzene	CCAL %D	45.9%	<30%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.4%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						7,12-Dimethylbenz(a)anthracene	CCAL %D	40.4%	<30%	ND(0.010) J	
						Aramite	CCAL %D	55.6%	<30%	ND(0.010) J	
						Benzidine	CCAL %D	49.8%	<30%	ND(0.020) J	
						Hexachloropropene	CCAL %D	39.2%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	31.2%	<30%	ND(0.010) J	
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	56.1%	<30%	ND(0.010) J	
						1,3-Dinitrobenzene	CCAL %D	45.9%	<30%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.4%	<30%	ND(0.010) J	
						7,12-Dimethylbenz(a)anthracene	CCAL %D	40.4%	<30%	ND(0.010) J	
						Aramite	CCAL %D	55.6%	<30%	ND(0.010) J	
						Benzidine	CCAL %D	49.8%	<30%	ND(0.020) J	
						Hexachloropropene	CCAL %D	39.2%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	31.2%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						1,2,4,5-Tetrachlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						1,2,4-Trichlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						1,2-Dichlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						1,2-Diphenylhydrazine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	1,3-Dichlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						1,4-Dichlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	0.016 J	
						1,4-Naphthoquinone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						1-Naphthylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						2,4-Dinitrotoluene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						2-Acetylaminofluorene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						2-Chloronaphthalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						2-Methylnaphthalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	0.0074 J	
						2-Naphthylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						2-Nitroaniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.050) J	
						2-Picoline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						3,3'-Dichlorobenzidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.020) J	
						3,3'-Dimethylbenzidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	3-Methylcholanthrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						3-Nitroaniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.050) J	
						4-Aminobiphenyl	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						4-Bromophenyl-phenylether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						4-Chloroaniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						4-Chlorobenzilate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						4-Chlorophenyl-phenylether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						4-Nitroaniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						5-Nitro-o-toluidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Acenaphthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	0.0049 J	
						Acenaphthylene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Acetophenone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Aniline	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Anthracene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Benzo(a)anthracene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Benzo(a)pyrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Benzo(b)fluoranthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Benzo(g,h,i)perylene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Benzo(k)fluoranthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						bis(2-Chloroethoxy)methane	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						bis(2-Chloroethyl)ether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						bis(2-Chloroisopropyl)ether	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						bis(2-Ethylhexyl)phthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.0060) J	
						Butylbenzylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Chrysene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Diallate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Dibenzo(a,h)anthracene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Dibenzofuran	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	0.0046 J	
						Diethylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Dimethoate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.050) J	
						Dimethylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Di-n-Butylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Di-n-Octylphthalate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Diphenylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Disulfoton	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Ethyl Methanesulfonate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Ethyl Parathion	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Famphur	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.050) J	
						Fluoranthene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Fluorene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	0.0041 J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Hexachlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Hexachlorocyclopentadiene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Hexachloroethane	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Hexachlorophene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.020) J	
						Indeno(1,2,3-cd)pyrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Isodrin	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Isophorone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Isosafrole	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Kepone	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.050) J	
						Methapyrilene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Methyl Methanesulfonate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Methyl Parathion	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Naphthalene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Nitrobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	N-Nitrosodiethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitrosodimethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitroso-di-n-butylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitroso-di-n-propylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitrosodiphenylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitrosomethylethylamine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitrosomorpholine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitrosopiperidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						N-Nitrosopyrrolidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						o,o,o-Triethylphosphorothioate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						o-Toluidine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						p-Dimethylaminoazobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Pentachlorobenzene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Pentachloroethane	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	Phenacetin	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Phenanthrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	0.0050 J	
						Phorate	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Pronamide	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Pyrene	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Pyridine	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Safrole	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Sulfotep	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
						Thionazin	Surrogate Recovery Base-neutral	33.0%,29%,23.0%	43.0%-116.0%, 35.0%-114.0%, 33.0%-141.0%	ND(0.010) J	
2D0P727	GMA3-6	4/25/2002	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	56.1%	<30%	ND(0.010) J	
						1,3-Dinitrobenzene	CCAL %D	45.9%	<30%	ND(0.010) J	
						2,3,4,6-Tetrachlorophenol	CCAL %D	43.2%	<30%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.4%	<30%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	73.1%	<30%	ND(0.010) J	
						4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						7,12-Dimethylbenz(a)anthracene	CCAL %D	40.4%	<30%	ND(0.010) J	
						Aramite	CCAL %D	55.6%	<30%	ND(0.010) J	
						Benzidine	CCAL %D	49.8%	<30%	ND(0.020) J	
						Hexachloropropene	CCAL %D	39.2%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	31.2%	<30%	ND(0.010) J	
2E0P001	54B	4/29/2002	Water	Tier II	Yes	2,3,4,6-Tetrachlorophenol	CCAL %D	37.4%	<30%	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	35.4%	<30%	ND(0.010) J	
						2-Nitroaniline	CCAL %D	32.0%	<30%	ND(0.050) J	
						4-Chlorobenzilate	CCAL %D	38.7%	<30%	ND(0.010) J	

TABLE G-1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

GROUNDWATER MANAGEMENT AREA 3 BASELINE GROUNDWATER QUALITY INTERIM REPORT FOR SPRING 2002

ANALYTICAL DATA VALIDATION SUMMARY
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
2E0P001	54B	4/29/2002	Water	Tier II	Yes	4-Phenylenediamine	ICAL RRF	0.031	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	39.4%	<30%	ND(0.010) J	
						Diphenylamine	CCAL %D	41.8%	<30%	ND(0.010) J	
						Hexachloropropene	CCAL %D	55.5%	<30%	ND(0.010) J	
						Pentachloronitrobenzene	CCAL %D	49.1%	<30%	ND(0.010) J	
PCDDs/PCDFs											
2D0P698	6B	4/25/2002	Water	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.000000013)	
2D0P698	78B-R	4/25/2002	Water	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.000000030)	
2D0P727	GMA3-6	4/25/2002	Water	Tier II	No						
2E0P001	54B	4/29/2002	Water	Tier II	Yes	OCDD	Method Blank	-	-	ND(0.000000017)	
Sulfide and Cyanide											
2D0P544	78-1	4/18/2002	Water	Tier I	No						
2D0P544	78-3	4/18/2002	Water	Tier I	No						
2D0P544	78-5	4/18/2002	Water	Tier I	No						Duplicate of GMA5-2
2D0P634	002A	4/23/2002	Water	Tier I	No						
2D0P634	39D	4/23/2002	Water	Tier I	No						
2D0P698	6B	4/25/2002	Water	Tier II	No						
2D0P698	78B-R	4/25/2002	Water	Tier II	No						
2D0P698	6B	4/25/2002	Water	Tier II	No						
2D0P698	78B-R	4/25/2002	Water	Tier II	No						
2D0P698	16C	4/25/2002	Water	Tier II	No						
2D0P698	16E	4/25/2002	Water	Tier II	No						
2D0P698	MW-39-E	4/25/2002	Water	Tier II	No						
2D0P727	GMA3-6	4/25/2002	Water	Tier I	No						
2D0P727	16A	4/26/2002	Water	Tier I	No						
2D0P727	16B-R	4/26/2002	Water	Tier I	No						
2D0P727	43A	4/26/2002	Water	Tier I	No						
2D0P727	43B	4/26/2002	Water	Tier I	No						
2D0P727	DUP-7	4/26/2002	Water	Tier I	No						
2E0P001	54B	4/29/2002	Water	Tier I	No						
Alkalinity, Nitrate, Nitrite, DOC, Sulfate and Chloride											
2D0P634	002A	4/23/2002	Water	Tier II	No						
2D0P634	39D	4/23/2002	Water	Tier II	No						
2D0P698	16C	4/25/2002	Water	Tier I	No						
2D0P698	16E	4/25/2002	Water	Tier I	No						
2D0P698	MW-39-E	4/25/2002	Water	Tier I	No						
2D0P727	16A	4/26/2002	Water	Tier I	No						
2D0P727	16B-R	4/26/2002	Water	Tier I	No						
2D0P727	43A	4/26/2002	Water	Tier I	No						
2D0P727	43B	4/26/2002	Water	Tier I	No						
2D0P727	DUP-7	4/26/2002	Water	Tier I	No						