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

Transmitted Via Overnight Courier

January 30, 2004

Mr. Michael Nalipinski
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 1 (GECD310)
Groundwater Quality Interim Report for Fall 2003

Dear Mr. Nalipinski:

In accordance with GE's approved *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (September 2000) and *Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Spring 2003* (July 2003), enclosed is the *Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Fall 2003.* This report summarizes activities performed as part of the Plant Site 1 Groundwater Management Area (GMA 1) groundwater quality monitoring program during fall 2003 and presents the results of the latest round of sampling and analysis of groundwater performed at GMA 1.

As proposed in GE's *Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Spring 2003* (July 2003) and approved by EPA, groundwater sampling activities were limited to select wells where fewer than four sampling rounds were conducted during the baseline monitoring program between fall 2001 and spring 2003, plus additional sample collection for mercury analysis at certain locations. Beginning in spring 2004, an interim groundwater quality monitoring program will be implemented at GMA 1 until such time as all required soil-related Removal Actions are completed within this GMA and a comprehensive long-term monitoring program may be developed.

Please call Andrew Silfer or me if you have any questions regarding this report.

Sincerely,

John F. Novotny/AS for

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

Enclosure
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TECHNICAL REPORT

Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Fall 2003

General Electric Company
Pittsfield, Massachusetts

January 2004

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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 soil, 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 RAAs at and near the GE Pittsfield facility have been divided into five separate 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 1 Groundwater Management Area, also known as and referred to herein as GMA 1.

In September 2000, GE submitted a *Baseline Monitoring Program Proposal for Plant Site 1 Groundwater Management Area* (GMA 1 Baseline Monitoring Proposal). The GMA 1 Baseline Monitoring Proposal summarized the hydrogeologic information available at that time for GMA 1 and proposed groundwater and NAPL monitoring activities (incorporating as appropriate those activities that were in place at that time) for the baseline monitoring period at this GMA. EPA provided conditional approval of the GMA 1 Baseline Monitoring Proposal by letter of March 20, 2001. Thereafter, certain modifications were made to the GMA 1 baseline monitoring program as a result of EPA approval conditions and/or findings during field reconnaissance of the selected monitoring locations. Those modifications were documented in update letters from GE to EPA dated May 18, August 16, and August 22, 2001.

The baseline monitoring program, which was initiated in fall 2001, consisted of four semi-annual groundwater quality sampling events followed by preparation and submittal of reports summarizing the groundwater monitoring results and, as appropriate, proposal of modifications to the monitoring program. The fourth baseline monitoring report for GMA 1, entitled *Plant Site 1 Groundwater Management Area Baseline Groundwater Quality Interim Report for Spring 2003* (Spring 2003 GMA 1 Groundwater Quality Report), was

submitted to EPA on July 30, 2003. Section 6.1.3 of Attachment H to the SOW provides that if the two-year "baseline" period ends prior to the completion of soil-related response actions at all the RAAs in a GMA, GE may make a proposal to EPA to modify and/or extend the Baseline Monitoring Program based on the results of the initial assessment and the estimated timing of future response actions at the RAAs in the GMA. The approved GMA 1 Baseline Monitoring Proposal also allows GE to propose a modification and/or extension of the baseline monitoring program based on the results of the initial assessment and the estimated timing of future response actions. Therefore, the Spring 2003 GMA 1 Groundwater Quality Report contained a proposal to modify and extend baseline groundwater quality monitoring activities at GMA 1 (under a program to be referred to as an interim monitoring program) until such time as the soil-related Removal Actions at the GMA 1 RAAs are completed and the needs for a long-term groundwater quality monitoring program may fully delineated. EPA conditionally approved the Spring 2003 GMA 1 Groundwater Quality Report by letter dated September 23, 2003 and GE took into account the conditions set forth in that letter in performing the activities described in this report. Under GE's proposal, as conditionally approved, GE was to conduct a sampling in fall 2003 consisting of the collection of groundwater samples from six wells that did not yet have four complete rounds of sampling as part of the baseline monitoring program and the collection of samples for mercury analysis only from 12 wells at which mercury had been detected in the fall 2002 sampling round.

As part of the interim groundwater quality monitoring program, GE is required to submit reports after each groundwater sampling event to summarize the groundwater monitoring results and related activities and, as appropriate, propose modifications to the monitoring program. This *Plant Site 1 Groundwater Management Area Groundwater Quality Interim Report for Fall 2003* (Fall 2003 GMA 1 Groundwater Quality Report) presents the results of groundwater sampling activities performed at this GMA in October 2003. It should be noted that this report is intended to address groundwater quality issues at GMA 1. Groundwater flow monitoring and the presence and extent of NAPL at GMA 1 are addressed in separate semi-annual reports submitted under GE's NAPL monitoring program.

1.2 Background Information

As discussed above, the CD and SOW provide for the performance of groundwater-related Removal Actions at a number of GMAs. Some of these GMAs, including GMA 1, incorporate multiple RAAs to reflect the fact that groundwater may flow between RAAs. GMA 1 incorporates 11 RAAs and occupies an area of approximately 215 acres (Figures 1 and 2). The RAAs within GMA 1 include the following:

- RAA 1 - 40s Complex
- RAA 2 - 30s Complex
- RAA 3 - 20s Complex
- RAA 4 - East Street Area 2-South
- RAA 5 - East Street Area 2-North
- RAA 6 - East Street Area 1-North
- RAA 12 - Lyman Street Area
- RAA 13 - Newell Street Area II
- RAA 14 - Newell Street Area I
- RAA 17 - Silver Lake Area
- RAA 18 - East Street Area 1-South

The GMA contains a combination of GE-owned and non-GE-owned industrial areas, residential properties, and recreational areas. The Housatonic River flows through the southern portion of this GMA, while Silver Lake is located along the western boundary.

Certain portions of this GMA originally consisted of land associated with oxbows or low-lying areas of the Housatonic River. Re-channelization and straightening of the Housatonic River in the early 1940s by the City of Pittsfield and the United States Army Corps of Engineers (USACE) separated several of these oxbows and low-lying areas from the active course of the river. These oxbows and low-lying areas were subsequently filled with various materials from a variety of sources, resulting in the current surface elevations and topography.

As discussed in Section 1.1 above, the CD and the SOW provide for the performance of groundwater-related Removal Actions at the GMAs, including the implementation of groundwater monitoring, assessment, and recovery programs. In general, these programs consist of a baseline monitoring program conducted over a period of at least two years to establish existing groundwater conditions and a long-term monitoring program performed to assess groundwater conditions over time and to verify the attainment of the Performance Standards for groundwater. The baseline monitoring program was initiated at GMA 1 in the fall of 2001 and the spring 2003 sampling event constituted the fourth baseline sampling event at most of the wells in GMA 1. EPA has approved the implementation of a modified monitoring program (referred to as the "interim monitoring program") until the completion of the soil-related Removal Actions at the GMA 1 RAAs, at which time a long-term monitoring program will commence.

As set forth in the GMA 1 Baseline Monitoring Proposal and Addendum, the baseline monitoring program at this GMA initially involved a total of 65 monitoring wells. Subsequent modifications to the program resulted in the addition of one well (LSSC-08I) and replacement of five wells with substitute monitoring wells (ESA2S-52 for ES2-17, MW-3R for MW-3, GMA1-13 for 95-9, ESA1S-33 for ES1-8, and ES1-23R for ES1-23). All of these wells were monitored for groundwater elevations on a quarterly basis and sampled on a semi-annual basis for analysis of PCBs and/or certain other 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). The specific groundwater quality parameters for each individual well were selected based on the monitoring objectives of the well.

In the Spring 2003 GMA 1 Groundwater Quality Report, GE described its proposed interim groundwater quality monitoring program. As approved by EPA, this program was to consist of the following. For fall 2003, GE was to conduct:

- Semi-annual sampling and analyses at any GMA 1 baseline monitoring well where four baseline sampling rounds were not conducted until four such sampling events are performed. Analyses were to be performed according to the requirements of the baseline monitoring program as it existed prior to initiation of the interim sampling.

- Collection of one additional set of samples (collected in fall 2003) for mercury analysis from 12 wells where mercury concentrations above the MCP GW-3 Standard were recorded in fall 2002;

Beginning in spring 2004, GE was to perform:

- Annual sampling and analysis for select constituents at certain GMA 1 locations (i.e., wells where average sample concentrations near the MCP Method 1 GW-3 standards were observed during baseline monitoring and wells downgradient of known NAPL areas/recovery systems where no additional hydraulic controls are in place. The annual sampling schedule will alternate between the spring and fall seasons, beginning with spring 2004.

- Replacement of well MW-4 with a new well (MW-4R) to be sampled during the spring and fall of 2004, after which GE will evaluate whether the analytical results are consistent with prior data from well MW-4 and propose either an annual or semi-annual sampling schedule for the remainder of the interim monitoring program.

- Performance of sampling at certain additional wells specified in EPA's September 23, 2003 conditional approval letter beginning in spring 2004. Specifically, GE will sample LSSC-16S and NS-17 for VOCs only, and wells RF-2, ES1-14, E2SC-23, and LSSC-8S for dissolved PCBs only.

- Performance of well inspections approximately two to three months prior to each sampling event in order to allow timely replacement of any wells found to be damaged.

- Presentation of preliminary monitoring results and analytical data in GE's monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

- Preparation of brief annual summary reports providing the data results after validation for prior sampling events, evaluations of the monitoring data, and proposals to modify the monitoring program.

The portion of the GMA 1 interim monitoring program performed in fall 2003 is summarized in Table 1.

A separate non-GE-related disposal site, as designated under the MCP, is located on an adjacent property near the northern edge of the Lyman Street Area. This disposal site is the O'Connell Mobil Station site (MDEP Site No. 1-13347) (also referred to as the "East Street Mobil Site") at 730 East Street. GE understands this site is currently being addressed by O'Connell Oil Associates, Inc. to satisfy the requirements of Massachusetts General Laws Chapter 21-E and the MCP. Available documentation indicates that soluble-phase contaminants related to gasoline releases from the O'Connell Mobil Station may have migrated onto GMA 1. GE is required to include available monitoring results from response actions performed at this adjacent site in the baseline monitoring reports for GMA 1. GE has requested but has not obtained any more recent information on this site since submittal of the Spring 2003 GMA 1 Groundwater Quality Report. GE will continue to seek to obtain additional information concerning this site and any information obtained will be included in future groundwater monitoring reports.

1.3 Format to Document

The remainder of this report is presented in five sections. Section 2 describes the groundwater quality-related activities performed at GMA 1 in fall 2003. Section 3 presents the analytical results obtained during the fall 2003 sampling event performed between October 9 and 17, 2003. Section 4 provides a summary of the applicable groundwater quality Performance Standards identified in the CD and SOW, and provides an assessment of the results of the fall 2003 activities, including a comparison to those Performance Standards.

Section 5 proposes certain modifications to the interim groundwater quality monitoring program, which will be continued until such time as the soil-related Removal Actions at the GMA 1 RAAs are completed and the needs for a long-term monitoring program may fully delineated. Finally, Section 6 presents the schedule for future field and reporting activities related to groundwater quality at GMA 1.

2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the interim groundwater monitoring program, and summarized herein, primarily involved the collection and analysis of groundwater samples at select monitoring wells within GMA 1, as described in Table 1. The fall 2003 field sampling data are presented in Appendix B. This section discusses the field procedures used to collect groundwater samples, as well as the methods used to analyze the groundwater samples. In addition, information regarding well installation and development of a replacement well at GMA 1 is also provided in this section. All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

2.2 Well Installation and Development

GE installed one replacement well (MW-4R) in fall 2003. This well was installed as a replacement for well MW-4, which was found to be damaged. Groundwater elevations at well MW-4 have been anomalously high during each groundwater elevation monitoring event. This well is located in a high traffic area utilized as part of the Removal Action for the 1-1/2 Mile Reach of the Housatonic River and the surface seal of the well appears to be compromised. Replacement well MW-4R was installed to the east of the MW-4 well location, adjacent to the south wall of the building at 10 Lyman Street so that it would not be impacted by traffic along the access road. The location of the replacement well was approved by EPA. A monitoring well log for the new well is presented in Appendix A.

Following installation, the new well was 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 is transmitting groundwater representative of the surrounding formation. Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with a positive displacement pump.

2.3 Groundwater Sampling and Analysis

The fall 2003 groundwater sampling event was performed between October 9 and 17, 2003. Groundwater samples were scheduled to be collected from 18 groundwater monitoring wells. A total of 17 monitoring wells

were actually sampled, as well GMA1-2 was found to be dry at the time of sampling (as had been the case during three of the previous four baseline monitoring events).

Low-flow sampling techniques using either a bladder or peristaltic pump were utilized for the purging and collection of groundwater samples during this sampling event. The sampling methods utilized at each well are specified in Appendix B. Each monitoring well was purged utilizing low-flow techniques until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized prior to sample collection. Field parameters were measured in combination with the sampling activities at the monitoring wells. The stabilized field parameter measurements are presented in Table 2 and the field sampling data are provided in Appendix B. A general summary of the field measurement results during the fall 2003 monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units (NTU)	0.0 – 29.0
pH	pH units	6.11 – 7.56
Specific Conductivity	Millisiemens per centimeter	0.389 – 13.88
Oxidation-Reduction Potential	Millivolts	-138.7 – 165.0
Dissolved Oxygen	Milligrams per liter	0.20 – 9.45
Temperature	Degrees Celsius	11.61 – 18.70

All of the groundwater samples were collected by the low-flow techniques as specified in the FSP/QAPP. However, stabilized field sampling parameters were not recorded at well GMA1-2 due to insufficient quantity of water available during sampling. The well dried shortly after the initial field parameter readings were collected. GE returned to the well on four occasions after the first sampling attempt, but the well remained dry. As such, no groundwater samples were collected from well GMA1-2 in fall 2003. As noted above, this location was also dry during three of the four previous baseline sampling rounds.

The collected groundwater samples were submitted to CT&E Environmental Services, Inc. of Charleston, West Virginia for laboratory analysis. For the two groundwater samples that were monitored for compliance with the GW-3 standards, the samples were submitted for analysis of the following constituents using the associated EPA methods:

CONSTITUENT	EPA METHOD
VOCs	8260B
Semi-Volatile Organic Compounds (SVOCs)	8270C
PCBs (Filtered and Unfiltered Samples)	8082
Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans (PCDDs/PCDFs)	8290
Metals (Filtered and Unfiltered Samples)	6010B, 7000A, and 7470A
Cyanide (Filtered and Unfiltered Samples)	9014
Sulfide	9034

For the three groundwater samples collected from wells that were 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 compounds listed as SVOCs in the FSP/QAPP (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene). The VOCs and five SVOCs were analyzed using EPA Method 8260B in accordance with a letter from GE to EPA dated September 28, 2001. In addition, samples from 12 wells were analyzed for mercury only, utilizing EPA Method 7470A. The results of all these analyses are discussed in Section 3.

Following receipt of the analytical data from the laboratory, the preliminary results were reviewed for completeness and compared to the Massachusetts Contingency Plan (MCP) Method 1 GW-2 (where applicable) and GW-3 standards, and to the MCP Upper Concentration Limits (UCLs) for groundwater. The preliminary analytical results were presented in the next monthly report on overall activities at the GE-Pittsfield/Housatonic River Site, along with a discussion identifying sample results received with concentrations above the applicable MCP Method 1 standards and/or UCLs. Finally, the data was validated in accordance with the FSP/QAPP and the validated results were utilized in the preparation of this report. The data validation report is provided in Appendix E.

3. Groundwater Analytical Results

3.1 General

A description of the fall 2003 groundwater analytical results is presented in this section. Tables 3 and 4 provide a comparison of the concentrations of all detected constituents with the currently applicable groundwater quality Performance Standards established in the CD and SOW, while Table 5 presents a comparison of the concentrations of detected constituents with the UCLs for groundwater. An assessment of these results relative to those groundwater quality Performance Standards and the UCLs is provided in Section 4.

3.2 Groundwater Quality Results

The following subsections provide an overview of the fall 2003 analytical results from the GMA 1 groundwater quality monitoring wells for each constituent group that was analyzed.

3.2.1 VOC Results

Groundwater samples collected from five groundwater quality monitoring wells were analyzed for VOCs during the fall 2003 sampling event. The VOC analytical results are summarized in Appendix C. No VOCs were detected in two of the groundwater samples, while six individual VOCs were observed in one or more of the remaining four samples. Total VOC concentrations ranged from non-detect (in two samples) to 0.00979 parts per million (ppm). The only VOC observed in more than one groundwater sample was chloroform (detected in groundwater samples from well GMA1-4 at 0.0089 ppm and well LS-29 at 0.00094 J ppm). Both readings are considerably below the Method 1 GW-2 standard of 0.4 ppm and the GW-3 standard of 10 ppm.

3.2.2 SVOC Results

Groundwater samples collected from two GW-3 monitoring wells were analyzed for SVOCs during the fall 2003 sampling event. In addition, samples from three GW-2 wells that are not also GW-3 wells were analyzed for five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene), as discussed in Section 2.3. The SVOC analytical results are summarized in Appendix C. No SVOCs were detected in either of the two GW-3 groundwater samples. In regard to the samples from the three

wells that were analyzed only for five select SVOCs, one constituent (naphthalene) was detected in a single GW-2 monitoring well (well LS-MW-3R at concentrations of 0.011 ppm and 0.002 ppm in the original and duplicate samples from this location). These concentrations are considerably below the GW-2 standard of 6 ppm. None of the SVOCs for which analyses were performed was detected in the other two GW-2 wells.

3.2.3 PCB Results

Unfiltered and filtered groundwater samples from two monitoring wells were analyzed for PCBs as part of the fall 2003 sampling event. The PCB analytical results are summarized in Appendix C. One or more PCB Aroclors were detected in each of the unfiltered or filtered samples at these wells. Total PCB concentrations ranged from 0.00007 ppm (at well GMA1-13) to 0.0023 ppm (at well LS-29) in the unfiltered samples and from 0.000071 ppm (at well GMA1-13) to 0.00056 ppm (at well LS-29) in the filtered samples.

3.2.4 PCDD/PCDF Results

Groundwater samples from two monitoring wells were analyzed for PCDDs/PCDFs during the fall 2003 sampling event. The analytical results are summarized in Appendix C. One or more individual PCDD/PCDF compounds were detected in each of the groundwater samples. In addition, total Toxicity Equivalency Quotients (TEQs) were calculated for the PCDD/PCDF compounds using the Toxicity Equivalency Factors (TEFs) derived by the World Health Organization (WHO). In calculating those TEQs, the concentrations of individual PCDD/PCDF compounds that were not detected were represented as one-half of the analytical detection limit for those compounds. Total TEQ concentrations ranged from 3.3×10^{-9} to 5.1×10^{-9} ppm.

3.2.5 Inorganic Constituent Results

Unfiltered and filtered groundwater samples from two monitoring wells were analyzed for inorganic constituents during the fall 2003 sampling event. Also, 12 additional groundwater samples were analyzed for mercury only. The analytical results for these samples are summarized in Appendix C. Each of the two sampling locations analyzed for the full inorganic analyte list contained inorganic constituents in both the unfiltered and filtered samples. Up to nine individual inorganic constituents were observed in one or more of the unfiltered samples, while six inorganic constituents were detected in at least one filtered sample. Barium was the only inorganic observed in every unfiltered and filtered sample.

All mercury results in this monitoring event were non-detect, including the two locations analyzed for all inorganics and the 12 locations where samples were collected for mercury analysis only.

4. Assessment of Results

4.1 General

This report constitutes the first interim monitoring report and is the fifth groundwater quality monitoring report submitted since commencement of the GMA 1 baseline groundwater monitoring program. The information presented herein is based on the laboratory results obtained during the fall 2003 groundwater sampling event, supplemented with historical groundwater analytical data when available.

4.2 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 1 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 MCP. 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 1 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 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. It should be noted that some groundwater within GMA 1 does not in fact discharge directly to surface water because of the operation of numerous groundwater pumping systems. Water extracted from these systems is transferred to an on-site treatment plant for processing prior to discharge. Nevertheless, in accordance with the CD and SOW, all groundwater at GMA 1 is considered as GW-3.

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 1. The current MCP Method 1 GW-2 and GW-3 standards for the constituents detected in the fall 2003 sampling event are listed in Tables 3 and 4, respectively. (In the event of any discrepancy between the standards listed in these tables and those published in the MCP, the latter will be controlling.) 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 the 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 1 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);

(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 designated as the compliance points for attainment of the Performance Standards identified above. These wells were initially identified in the GMA 1 Baseline Monitoring Proposal (although certain modifications were made subsequent to submittal of that proposal as a result of EPA approval conditions, findings during field reconnaissance of the selected wells, or replacement of certain wells during the course of the baseline monitoring program). As described above and in Sections 4.3.1 (for GW-2 wells) and 4.3.2 (for GW-3 wells), only selected wells were sampled in fall 2003.

4.3 Groundwater Quality – Fall 2003

For the purpose of generally assessing current groundwater quality conditions, the analytical results from the fall 2003 groundwater sampling event were compared to the applicable groundwater Performance Standards for GMA 1. These Performance Standards are described in Section 4.2 above, and are currently based (on a well-specific basis) on the MCP Method 1 GW-2 and/or GW-3 standards. The following subsections discuss the fall 2003 groundwater analytical results in relation to these Performance Standards, as well as in relation to the MCP

UCLs for groundwater. In support of those discussions, Tables 3 and 4 provide a comparison of the concentrations of detected constituents with the currently applicable GW-2 and GW-3 standards, respectively, while Table 5 presents a comparison of the concentrations of detected constituents with the groundwater UCLs.

4.3.1 Fall 2003 Groundwater Results Relative to GW-2 Performance Standards

As part of the fall 2003 program, groundwater samples were collected from three of the four wells designated as GW-2 wells that were sampled less than four times during the baseline monitoring program. Specifically, wells A7, GMA1-4 and MW-3R were sampled, while no samples were obtained from well GMA1-2, as it was dry. The fall 2003 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 3. As shown in Table 3, none of the fall 2003 sample concentrations from the GW-2 monitoring wells was above the corresponding GW-2 Performance Standard. 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 located within 30 feet of a school or occupied residential structure and as a trigger level for the proposal of interim response actions). These results are consistent with the results from prior baseline sampling events, where available.

4.3.2 Fall 2003 Groundwater Results Relative to GW-3 Performance Standards

Groundwater samples were collected from each of the two wells (i.e., wells GMA1-13 and LS-29) designated as GW-3 wells that were sampled less than four times during the baseline monitoring program. Twelve additional GW-3 wells were also sampled and analyzed for mercury only. The fall 2003 groundwater analytical results for all constituents detected in the GW-3 monitoring wells and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 4. Although that table provides a comparison of the fall 2003 analytical results from all 14 GW-3 monitoring wells that were sampled in fall 2003, only 11 of those wells (i.e., the downgradient GW-3 perimeter wells as identified in Table 1) have been designated as compliance points for the GW-3 standards. The two wells that were sampled and analyzed for the entire GW-3 analyte list are both designated as GW-3 General/Source Area Sentinel wells and are not considered compliance points for the GW-3 standards.

In making comparisons to the Method 1 GW-3 standards for PCBs and inorganics, GE has used the results from the filtered samples. EPA has previously agreed to this approach in a letter to GE dated January 2, 2002

(relating to groundwater monitoring for GE's On-Plant Consolidation Areas). Accordingly, the unfiltered sample results were only utilized for comparison to the MCP UCLs (discussed in Section 4.3.3 below).

The comparisons set forth in Table 4 show that one constituent, filtered PCBs, was found at a level above the MCP Method 1 GW-3 standard of 0.0003 ppm, and this was found in the single groundwater sample collected from well LS-29 in fall 2003. Filtered PCB concentrations in excess of the MCP Method 1 GW-3 standard were previously detected in this well. No other constituents were detected at concentrations above their respective MCP Method 1 GW-3 standards in fall 2003. Graphs showing the historical concentrations of total VOCs and PCBs at all wells analyzed for these constituents in fall 2003, along with the concentrations of other constituents analyzed in fall 2003 at locations where the MCP Method 1 GW-3 standards were previously exceeded, are included in Appendix D.

The SOW requires that for sampling results which exceed the Method 1 GW-3 standards at downgradient perimeter monitoring wells in which (a) such an exceedance 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), GE must propose interim response actions (SOW Att. H, p. 24). 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 (SOW Att. H, p. 24). GE's proposed response to address the GW-3 exceedance at well LS-29 (i.e., addition of this well to the interim groundwater quality monitoring program) is discussed in Section 5.

4.3.3 Fall 2003 Comparison to Upper Concentration Limits

In addition to comparing the fall 2003 groundwater analytical results with applicable MCP Method 1 GW-2 and MCP Method 1 GW-3 standards, the analytical results from all 17 wells that were sampled have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)). These comparisons, which include filtered and unfiltered data, are presented in Table 5 and summarized below. No constituents were found at levels above their corresponding UCLs in any of the samples collected in fall 2003.

4.4 Overall Assessment of Groundwater Analytical Results

Graphs illustrating historical total VOC concentrations and filtered/unfiltered PCB concentrations for all wells sampled in fall 2003 that have been previously sampled and analyzed for those constituents are presented in Appendix D. In addition, Appendix D contains graphs of historical concentrations of individual constituents that exceeded the applicable MCP Method 1 GW-3 standards or UCLs at monitoring wells during any of the four baseline monitoring program sampling events (no exceedances of the MCP Method 1 GW-2 standards have been documented at the GW-2 monitoring wells, and therefore no graphs have been prepared based on GW-2 sampling data) that were analyzed for those constituents in fall 2003.

The fall 2003 monitoring event constitutes the fourth sampling event for four of the wells (95-9/GMA1-13, A7, LS-29, and MW-3/MW-3R) that were sampled. In addition, 12 wells were sampled and analyzed for mercury to obtain a fourth set of mercury data in addition to the suspect results from fall 2002. Therefore, GE has evaluated the baseline data from these locations to determine whether additional sampling is warranted at any of these locations. The following subsections discuss the overall baseline groundwater quality data set for these wells with respect to the applicable GW-2 and GW-3 Performance Standards.

4.4.1 Overall Groundwater Results Relative to GW-2 Performance Standards

The GMA 1 baseline groundwater monitoring results for wells A7 and MW-3/MW-3R up to the present time, including the fall 2003 groundwater analytical data, indicate no significant potential for groundwater-related impacts to the occupied buildings in the vicinity of these wells. All detected constituents in the MW-3/MW-3R groundwater samples were at levels well below the respective Method 1 GW-2 standards and none of those samples contained total VOC levels above 5 ppm (no GW-2 constituents were detected in well A7 during the baseline monitoring program).

4.4.2 Overall Groundwater Results Relative to GW-3 Performance Standards

The GMA 1 baseline groundwater monitoring results for wells 95-9/GMA1-13 and LS-29 up to the present time, including the fall 2003 groundwater analytical data, show that only one constituent (PCBs) was detected at levels above the MCP Method 1 GW-3 standard during the baseline monitoring period.

No other constituents were detected in samples from wells 95-9/GMA1-13 or LS-29 at concentrations near or above their respective MCP Method 1 GW-3 standards during the baseline monitoring program.

At wells 95-9/GMA1-13 and LS-29, the only constituent detected at a level above the MCP Method 1 GW-3 standard during the baseline monitoring program was PCBs; specifically in the filtered samples from well 95-9 in fall 2001 and from well LS-29 in fall 2001 and fall 2003. On average, PCB concentrations were slightly below the GW-3 standard of 0.0003 ppm at these two wells during the baseline monitoring program. Additional sampling and analysis for PCBs during the interim monitoring program is proposed in Section 5 to determine whether long-term monitoring will be necessary.

Finally, as discussed above, mercury was detected in 37 groundwater samples in a single sampling event (fall 2002), including 13 wells where mercury levels were above the MCP Method 1 GW-3 standard of 0.001 ppm for mercury. These mercury results have not been replicated in any of the other baseline monitoring rounds (including the samples from the spring 2003 sampling event sent to two different laboratories for analysis). Mercury had not been detected in any of those wells during any prior or subsequent baseline monitoring events (with the exception of a split sample collected from well ES1-5 in spring 2003, where an estimated mercury concentration at the analytical detection limit was recorded in the filtered sample). All of the mercury samples for fall 2003 were non-detect. Therefore, the occurrence of mercury at several locations in fall 2002, which included both upgradient and downgradient wells spread across several RAAs, was considered anomalous and GE proposes to reject the mercury data that showed concentration above the GW-3 standard in fall 2002 and to replace it with the fall 2003 results to complete the baseline data set at the 12 locations that were sampled. Mercury levels were also above the MCP Method 1 GW-3 standard at well MW-4 in fall 2002. That well has been replaced by well MW-4R, which will be sampled during the interim monitoring program for all GW-3 parameters, including mercury, beginning in spring 2004, as specified in EPA's September 23, 2003 conditional approval letter. As such, this well was not sampled in fall 2003 and GE proposes to further evaluate, and perhaps propose to replace, the anomalous fall 2002 data at this location with the results to be obtained during the interim monitoring period.

5. Proposed Monitoring Program Modifications

5.1 General

In the Spring 2003 GMA 1 Groundwater Quality Report, GE proposed an interim groundwater monitoring program to be conducted until completion of the soil-related Removal Actions at the RAAs that comprise GMA 1. Aside from completing a total of four baseline sampling events at certain locations that could not be sampled during every round of the initial two-year baseline monitoring program, the interim monitoring program was designed to obtain additional data from locations where it is not yet clear whether the initial baseline groundwater quality results indicate that the well may require future monitoring in a long-term monitoring program. To identify this subset of monitoring wells, GE evaluated the average constituent concentrations observed in the historical data set at each well at which four baseline sampling events had been completed. Specifically, wells where the average concentration of a given constituent are below, but greater than 50% of the MCP GW-3 Standard for that constituent, were considered for interim monitoring. None of the GW-2 monitoring wells contained constituents greater than 50% of the respective MCP GW-2 Standards; therefore, no additional monitoring was proposed based solely on GW-2 compliance. The components of the interim monitoring program were conditionally approved by EPA, as modified, in a letter dated September 23, 2003.

This section contains a description of GE's proposed modifications to the previously-approved interim groundwater monitoring program, taking into account the results of the fall 2003 groundwater sampling event, which included collection of the fourth baseline sample sets from four monitoring locations.

5.2 Proposed Modification to Interim Groundwater Quality Monitoring Program

GE's proposal for continued groundwater quality monitoring and for modifications to the interim program for each well that was sampled for the fourth time in fall 2003 is described below. The rationale for the inclusion or exclusion of each well in the interim baseline groundwater quality monitoring program is provided. A breakdown of the interim sampling program, including the modifications based on the comments from EPA's September 23, 2003 conditional approval letter and GE's proposed modifications based on the fall 2003 sampling, is provided in Table 6. Locations of the wells to be included in the program are shown on Figure 2.

GW-2 sentinel well A7 was found to be dry during the fall 2002 baseline sampling event and was not sampled. As a result, only three sample sets were collected from this location at the conclusion of the fourth baseline sampling event in spring 2003. GE collected a fourth baseline sample set from this well in fall 2003 for analysis of VOCs and five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene). Upon review of those analytical results, GE proposes to discontinue groundwater quality monitoring at this location as none of the analyzed constituents was detected at this well during any of the baseline monitoring events.

GW-2 sentinel well MW-3 was found to be damaged in spring 2002 and was not sampled. Subsequently, GE replaced well MW-3 with well LS-MW-3R and utilized the replacement well for the remaining sampling events. As a result, only three sample sets were collected from this location at the conclusion of the fourth baseline sampling event in spring 2003. GE collected a fourth baseline sample set from this well in fall 2003 for analysis of VOCs and five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene). GE proposes to discontinue groundwater quality monitoring at this location as none of the analyzed constituents was detected at levels near or above the applicable MCP Method 1 GW-2 standards at this well during the baseline monitoring events.

General/source area sentinel well 95-9 was utilized for baseline monitoring in fall 2001 and spring 2002, but was found to be damaged and a groundwater sample could not be collected in fall 2002. GE installed well GMA1-13 as a replacement for well 95-9 and utilized it in spring and fall 2003 to complete four baseline monitoring program sampling events at this location. Upon review of those analytical results, GE proposes to add this well to the interim groundwater quality monitoring program for filtered PCB analysis. Interim sampling for PCBs (filtered samples only) is proposed at well GMA1-13 as the average PCB concentrations for this well combined with prior data from well 95-9 were near, although slightly below the MCP Method 1 GW-3 standard, and additional data are necessary to determine if long-term monitoring is warranted.

General/source area sentinel well LS-29 was found to be damaged and a groundwater sample could not be collected in fall 2002. GE repaired the well and utilized it in spring and fall 2003 to complete four baseline monitoring program sampling events at this location. Upon review of those analytical results, GE proposes to add this well to the interim groundwater quality monitoring program for filtered PCB analysis. Interim sampling for PCBs (filtered samples only) is proposed at well LS-29 as the average PCB concentrations at this well were near, although slightly below the MCP Method 1 GW-3 standard, and additional data are necessary to determine if long-term monitoring is warranted.

No interim sampling is proposed to further assess the presence of mercury at the 12 wells that were only analyzed for mercury in fall 2003, because all data collected, aside from the fall 2002 results and one split sample, has been non-detect. As discussed in Section 4.4.2, the occurrence of mercury in several samples in fall 2002 is considered anomalous and GE proposes to reject the mercury data that showed concentration above the GW-3 standard in fall 2002 and to replace it with the fall 2003 results to complete the baseline data set at the 12 locations that were sampled. In addition, replacement well MW-4R will be sampled and analyzed for mercury during the interim monitoring program beginning in spring 2004 and GE proposes to further evaluate, and perhaps propose to delete, the anomalous fall 2002 data at well MW-4 and supplement the baseline data set with the results to be obtained from the replacement well during the interim monitoring period.

6. Schedule of Future Activities

6.1 General

This section addresses the schedule for future groundwater quality monitoring activities and reporting for GMA 1. This schedule assumes that the modifications to the interim groundwater quality monitoring program proposed in Section 5 will be implemented. Specifically, this section provides a schedule for the upcoming spring 2004 interim monitoring event and associated reporting activities.

6.2 Field Activities Schedule

GE proposes to continue its routine groundwater elevation and NAPL monitoring activities according to the schedule approved by EPA under GE's NAPL monitoring program. All future groundwater elevation monitoring and reporting will be conducted under the NAPL monitoring program.

GE anticipates that the spring 2004 annual interim sampling event will take place in April 2004. The 20monitoring wells previously approved and the two additional wells proposed (pending EPA approval) for annual sampling in the interim groundwater monitoring program will be sampled for the analytes listed in Table 6. In addition, the two wells that still do not have four complete baseline monitoring data sets (wells GMA1-2 and GMA1-4) will be sampled for the GW-2 analytical parameter list that was previously approved for baseline monitoring and replacement well MW-4R will be sampled for the GW-3 analytical parameter list (excluding pesticides/herbicides and unfiltered samples for PCBs and inorganics).

Approximately two to three months prior to that sampling event, GE will conduct an inspection of all wells to be sampled and will purge well ESA1S-33 with a bladder pump to ascertain whether the well can produce low turbidity samples. If any of the wells is found to be unusable, GE will either repair the well or install a replacement well, as appropriate. Prior to performing the bladder pump assessment at well ESA1S-33, GE and EPA will identify the location of a potential replacement well in the event that well ESA1S-33 is found to be unusable.

Prior to performance of these activities, GE will provide EPA with 7 days advance notice to allow the assignment of field oversight personnel.

6.3 Reporting Schedule

GE will provide the results of ongoing water level measurements, and preliminary groundwater analytical data in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

GE will submit the Spring 2004 Interim Groundwater Quality Report for GMA 1 by July 31, 2004, in accordance with the reporting schedule approved by EPA. That report will present the final, validated spring 2004 interim sampling results and a brief discussion of the results, including proposals to further modify the interim monitoring program, if necessary.

Subsequent annual Interim Groundwater Quality Reports for GMA 1 will be submitted by January 31 where sampling activities were performed in the prior fall) or by July 31 where sampling activities were performed in the prior spring.

Tables

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TABLE 1
FALL 2003 GROUNDWATER QUALITY MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Fall 2003 Analyses	Comments
RAA 1 - 40s COMPLEX			
No groundwater quality monitoring was performed in this RAA in fall 2003.			
RAA 2 - 30s COMPLEX			
GMA1-2	GW-2 Sentinel	VOC (+5 SVOC)	Well was dry in fall 2003 and unable to be sampled. Additional baseline samples had been scheduled for collection due to lack of water during prior sampling events.
RAA 3 - 20s COMPLEX			
No groundwater quality monitoring was performed in this RAA in fall 2003.			
RAA 4 - EAST STREET AREA 2-SOUTH			
GMA1-13	GW-3 General/Source Area Sentinel	APP. IX, excl. pest/herb	Replacement for well 95-9. The fourth baseline sample set (between the two wells) was collected in fall 2003.
HR-G1-MW-3	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
HR-G3-MW-1	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
RAA 5 - EAST STREET AREA 2-NORTH			
A7	GW-2 Sentinel	VOC(+5 SVOC)	The fourth baseline sample set from this well was collected in fall 2003.
ES1-05	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
GMA1-4	GW-2 Sentinel	VOC(+5 SVOC)	The second baseline sample set from this well was collected in fall 2003. Additional baseline samples scheduled for collection due to lack of water during prior sampling events.
RAA 6 - EAST STREET AREA 1-NORTH			
No groundwater quality monitoring was performed in this RAA in fall 2003.			
RAA 12 - LYMAN STREET AREA			
B-2	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
E-7	GW-3 Perimeter (Upgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
LS-29	GW-3 General/Source Area Sentinel	APP. IX, excl. pest/herb	The fourth baseline sample set from this well was collected in fall 2003.
MW-3R	GW-2 Sentinel	VOC (+5 SVOC)	The fourth baseline sample set from this well was collected in fall 2003.
MW-6R	GW-3 Perimeter (Upgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.

TABLE 1
FALL 2003 GROUNDWATER QUALITY MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Fall 2003 Analyses	Comments
RAA 13 - NEWELL STREET AREA II			
GMA1-9	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
N2SC-07S	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
NS-09	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
NS-17	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
NS-20	GW-3 Perimeter (Upgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
NS-37	GW-3 Perimeter (Downgradient)	Hg	Mercury concentrations above GW-3 standard in Fall 2002; one additional sample for mercury was collected.
RAA 14 - NEWELL STREET AREA I			
No groundwater quality monitoring was performed in this RAA in fall 2003.			
RAA 18 - EAST STREET AREA 1 SOUTH			
No groundwater quality monitoring was performed in this RAA in fall 2003.			

NOTES:

1. Six wells (i.e., A7, GMA1-2, GMA1-4, GMA1-13, LS-29, and MW-3R) were sampled because less than four rounds of data were previously collected during the baseline monitoring program. The fourth sample set was collected at the following wells in fall 2003: A7, GMA1-13, LS-29, and MW-3R. The other two wells (i.e., GMA1-2 and GMA1-4) will continue to be sampled on a semi-annual basis until the fourth data set is collected. Additional sampling for select constituents is also proposed at wells GMA1-13 and LS-29 during the interim groundwater quality monitoring program.

2. Wells that were sampled for mercury analysis only in fall 2003 are proposed to be removed from the interim groundwater quality monitoring program, except where analyses for other constituents will be conducted, as previously proposed by GE and approved by EPA.

TABLE 2
FIELD PARAMETER MEASUREMENTS - FALL 2003

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

WELL NUMBER	TURBIDITY (NTU)	TEMPERATURE (Degrees Celsius)	pH (Standard Units)	SPECIFIC CONDUCTIVITY (mS/cm)	OXIDATION-REDUCTION POTENTIAL (mV)	DISSOLVED OXYGEN (mg/L)
RAA 2 - 30s COMPLEX						
GMA1-2	10.0	18.18	6.11	0.919	165.0	6.25
RAA 4 - EAST STREET AREA 2-SOUTH						
GMA1-13	1.0	11.61	7.00	1.300	3.1	5.49
HR-G1-MW-3	5.0	13.72	6.92	0.708	-68.5	3.28
HR-G3-MW-1	2.0	14.12	6.77	2.147	-32.2	1.67
RAA 5 - EAST STREET AREA 2-NORTH						
A7	9.0	17.03	7.51	13.880	51.1	1.47
ES1-05	2.0	17.50	6.72	1.905	-58.7	0.22
GMA1-4	1.0	15.87	7.56	1.244	100.5	9.45
RAA 12 - LYMAN STREET AREA						
B-2	20.0	14.18	6.64	1.326	-119.4	0.25
E-7	0.0	14.79	6.81	0.822	69.4	2.55
LS-29	14.0	12.57	7.45	1.108	-13.1	8.35
MW-3R	4.0	15.64	6.65	3.210	-111.1	0.50
MW-6R	5.0	18.70	6.86	3.020	-138.7	0.90
RAA 13 - NEWELL STREET AREA II						
GMA1-9	8.0	12.30	6.81	0.671	-67.0	0.31
N2SC-07S	2.0	12.47	6.87	1.419	-94.0	0.31
NS-09	1.0	13.53	6.66	0.967	41.6	0.26
NS-17	2.0	12.63	6.79	1.473	-79.4	0.41
NS-20	8.0	13.95	6.23	0.389	127.5	0.20
NS-37	29.0	14.59	6.49	1.290	91.1	0.46

Notes:

1. Measurements collected during fall 2003 groundwater sampling event performed between October 9 and 17, 2003.
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 3
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:		East St. Area 2 - North		Lyman Street Area
Sample ID:	Method 1 GW-2	A-7	GMA1-4	LS-MW-3R
Parameter / Date Collected:	Standards	10/09/03	10/09/03	10/13/03
Volatile Organics				
Benzene	2	ND(0.0050)	ND(0.0050)	0.0034 J [0.00064 J]
Bromodichloromethane	Not Listed	ND(0.0050)	0.00089 J	ND(0.0050) [ND(0.0050)]
Chloroform	0.4	ND(0.0050)	0.0089	ND(0.0050) [ND(0.0050)]
Toluene	6	ND(0.0050)	ND(0.0050)	0.00091 J [ND(0.0050)]
Xylenes (total)	6	ND(0.010)	ND(0.010)	0.0040 J [0.00061 J]
Total VOCs	5	ND(0.20)	0.0098 J	0.019 J [0.0033 J]
Semivolatile Organics				
Naphthalene	6	ND(0.0050)	ND(0.0050)	0.011 J [0.0020 J]

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. Only volatile and semivolatile analysis is presented for the MCP Method 1 GW-2 Standards Comparison.
4. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
5. Field duplicate sample results are presented in brackets.
6. Only volatile and semivolatile constituents detected in at least one sample are summarized.

Data Qualifiers:

Organics (volatiles and semivolatiles)

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

TABLE 4A
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID: / Sample ID: / Parameter / Date Collected:	Method 1 GW-3 Standards	East St. Area 2 - South GMA1-13 10/15/03	Lyman Street Area LS-29 10/13/03
Volatile Organics			
Chloroform	10	ND(0.0050)	0.00094 J
Tetrachloroethene	5	ND(0.0020)	0.0034
PCBs-Unfiltered			
Aroclor-1254	Not Applicable	0.000070	0.0023
Total PCBs	Not Applicable	0.000070	0.0023
PCBs-Filtered			
Aroclor-1254	Not Listed	0.000071	0.00056
Total PCBs	0.0003	0.000071	0.00056
Semivolatile Organics			
None Detected	--	--	--
Furans			
2,3,7,8-TCDF	Not Listed	ND(0.0000000011)	ND(0.0000000019)
TCDFs (total)	Not Listed	ND(0.0000000011)	ND(0.0000000019)
1,2,3,7,8-PeCDF	Not Listed	ND(0.00000000082) X	ND(0.0000000014) X
2,3,4,7,8-PeCDF	Not Listed	ND(0.00000000070)	ND(0.0000000038) X
PeCDFs (total)	Not Listed	ND(0.00000000070)	0.0000000062
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000025)	0.0000000064 J
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000025)	ND(0.0000000029) X
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000025)	ND(0.0000000021) X
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000025)	0.0000000022 J
HxCDFs (total)	Not Listed	ND(0.0000000025)	0.000000017
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000025)	ND(0.0000000026)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000025)	ND(0.0000000035)
HpCDFs (total)	Not Listed	ND(0.0000000025)	0.0000000046
OCDF	Not Listed	ND(0.0000000050)	ND(0.000000011)
Dioxins			
2,3,7,8-TCDD	0.00000003	ND(0.0000000018)	ND(0.0000000018)
TCDDs (total)	Not Listed	ND(0.0000000033)	ND(0.0000000021)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000025)	ND(0.0000000025)
PeCDDs (total)	Not Listed	0.00000000092	ND(0.0000000025)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000025)	ND(0.0000000050)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000025)	ND(0.0000000044)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000025)	ND(0.0000000050)
HxCDDs (total)	Not Listed	ND(0.0000000025)	ND(0.0000000048)
1,2,3,4,6,7,8-HpCDD	Not Listed	0.0000000018 J	ND(0.0000000054)
HpCDDs (total)	Not Listed	ND(0.0000000018)	ND(0.0000000054)
OCDD	Not Listed	ND(0.000000012) X	0.000000011 J
Total TEQs (WHO TEFs)	0.0000001	0.0000000033	0.0000000051
Inorganics-Unfiltered			
Antimony	Not Applicable	0.0120 B	ND(0.0600)
Barium	Not Applicable	0.00880 B	0.00730 B
Beryllium	Not Applicable	0.00110	ND(0.20)
Cadmium	Not Applicable	0.00130 B	ND(0.00500)
Chromium	Not Applicable	ND(0.0100)	ND(0.0100)
Lead	Not Applicable	ND(0.00300)	0.00250 J
Selenium	Not Applicable	0.00910	ND(0.00500) J
Zinc	Not Applicable	0.00580 B	ND(0.0200) J
Inorganics-Filtered			
Antimony	0.3	ND(0.0600)	ND(0.0600)
Barium	30	0.00880 B	0.00700 B
Beryllium	0.05	ND(0.0010)	ND(0.00100)
Cadmium	0.01	ND(0.00500)	ND(0.00500)
Chromium	2	0.00140 B	ND(0.0100)
Lead	0.03	ND(0.00300)	ND(0.00300) J
Selenium	0.08	ND(0.00500)	ND(0.00500) J
Zinc	0.9	ND(0.020)	ND(0.020)

TABLE 4A
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Total 2,3,7,8-TCDD toxicity equivalents (TEQs) were calculated using Toxicity Equivalency Factors (TEFs) derived by the World Health
5. Organization (WHO) and published by Van den Berg et al. In Environmental Health Perspectives 106(2), December 1998. Field duplicate sample results are presented in brackets.
6. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
7. Shading indicates that value exceeds GW-3 Standards.
8. -- Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
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 4B
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:		East St. Area 2 - North	East St. Area 2 - South		Lyman Street Area		
Sample ID:	Method 1 GW-3	ES1-05	HR-G1-MW-3	HR-G3-MW-1	B-2	E-07	LS-MW-6R
Parameter Date Collected:	Standards	10/10/03	10/16/03	10/16/03	10/09/03	10/09/03	10/09/03
Inorganics-Unfiltered							
Mercury	Not Applicable	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)
Inorganics-Filtered							
Mercury	0.001	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)

Site ID:		Newell St. Area II					
Sample ID:	Method 1 GW-3	GMA1-9	N2SC-07S	NS-09	NS-17	NS-20	NS-37
Parameter Date Collected:	Standards	10/16/03	10/17/03	10/16/03	10/15/03	10/16/03	10/17/03
Inorganics-Unfiltered							
Mercury	Not Applicable	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)
Inorganics-Filtered							
Mercury	0.001	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of mercury.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.

TABLE 5A
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:		East St. Area 2 - North		East St. Area 2 - South	Lyman Street Area	
Sample ID:	UCL-GW	A-7	GMA1-4	GMA1-13	LS-29	LS-MW-3R
Parameter Date Collected:	Standards	10/09/03	10/09/03	10/15/03	10/13/03	10/13/03
Volatile Organics						
Benzene	70	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.0034 J [0.00064 J]
Bromodichloromethane	100	ND(0.0050)	0.00089 J	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Chloroform	100	ND(0.0050)	0.0089	ND(0.0050)	0.00094 J	ND(0.0050) [ND(0.0050)]
Tetrachloroethene	50	ND(0.0020)	ND(0.0020)	ND(0.0020)	0.0034	ND(0.0020) [ND(0.0020)]
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	0.00091 J [ND(0.0050)]
Xylenes (total)	100	ND(0.010)	ND(0.010)	ND(0.010)	ND(0.010)	0.0040 J [0.00061 J]
PCBs-Unfiltered						
Aroclor-1254	Not Listed	NA	NA	0.000070	0.0023	NA
Total PCBs	0.005	NA	NA	0.000070	0.0023	NA
PCBs-Filtered						
Aroclor-1254	Not Listed	NA	NA	0.000071	0.00056	NA
Total PCBs	0.005	NA	NA	0.000071	0.00056	NA
Semivolatile Organics						
Naphthalene	60	ND(0.0050)	ND(0.0050)	ND(0.010)	ND(0.010)	0.011 J [0.0020 J]
Furans						
2,3,7,8-TCDF	Not Listed	NA	NA	ND(0.0000000011)	ND(0.0000000019)	NA
TCDFs (total)	Not Listed	NA	NA	ND(0.0000000011)	ND(0.0000000019)	NA
1,2,3,7,8-PeCDF	Not Listed	NA	NA	ND(0.00000000082) X	ND(0.0000000014) X	NA
2,3,4,7,8-PeCDF	Not Listed	NA	NA	ND(0.00000000070)	ND(0.0000000038) X	NA
PeCDFs (total)	Not Listed	NA	NA	ND(0.00000000070)	0.0000000062	NA
1,2,3,4,7,8-HxCDF	Not Listed	NA	NA	ND(0.0000000025)	0.0000000064 J	NA
1,2,3,6,7,8-HxCDF	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000029) X	NA
1,2,3,7,8,9-HxCDF	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000021) X	NA
2,3,4,6,7,8-HxCDF	Not Listed	NA	NA	ND(0.0000000025)	0.0000000022 J	NA
HxCDFs (total)	Not Listed	NA	NA	ND(0.0000000025)	0.000000017	NA
1,2,3,4,6,7,8-HpCDF	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000026)	NA
1,2,3,4,7,8,9-HpCDF	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000035)	NA
HpCDFs (total)	Not Listed	NA	NA	ND(0.0000000025)	0.0000000046	NA
OCDF	Not Listed	NA	NA	ND(0.0000000050)	ND(0.000000011)	NA
Dioxins						
2,3,7,8-TCDD	0.0000001	NA	NA	ND(0.0000000018)	ND(0.0000000018)	NA
TCDDs (total)	Not Listed	NA	NA	ND(0.0000000033)	ND(0.0000000021)	NA
1,2,3,7,8-PeCDD	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000025)	NA
PeCDDs (total)	Not Listed	NA	NA	0.00000000092	ND(0.0000000025)	NA
1,2,3,4,7,8-HxCDD	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000050)	NA
1,2,3,6,7,8-HxCDD	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000044)	NA
1,2,3,7,8,9-HxCDD	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000050)	NA
HxCDDs (total)	Not Listed	NA	NA	ND(0.0000000025)	ND(0.0000000048)	NA
1,2,3,4,6,7,8-HpCDD	Not Listed	NA	NA	0.0000000018 J	ND(0.0000000054)	NA
HpCDDs (total)	Not Listed	NA	NA	ND(0.0000000018)	ND(0.0000000054)	NA
OCDD	Not Listed	NA	NA	ND(0.000000012) X	0.000000011 J	NA
Total TEQs (WHO TEFs)	0.000001	NA	NA	0.0000000033	0.0000000051	NA
Inorganics-Unfiltered						
Antimony	3	NA	NA	0.0120 B	ND(0.0600)	NA
Barium	100	NA	NA	0.00880 B	0.00730 B	NA
Beryllium	0.5	NA	NA	0.00110	ND(0.20)	NA
Cadmium	0.1	NA	NA	0.00130 B	ND(0.00500)	NA
Chromium	20	NA	NA	ND(0.0100)	ND(0.0100)	NA
Lead	0.3	NA	NA	ND(0.00300)	0.00250 J	NA
Selenium	0.8	NA	NA	0.00910	ND(0.00500) J	NA
Zinc	20	NA	NA	0.00580 B	ND(0.0200) J	NA
Inorganics-Filtered						
Antimony	3	NA	NA	ND(0.0600)	ND(0.0600)	NA
Barium	100	NA	NA	0.00880 B	0.00700 B	NA
Beryllium	0.5	NA	NA	ND(0.0010)	ND(0.00100)	NA
Cadmium	0.1	NA	NA	ND(0.00500)	ND(0.00500)	NA
Chromium	20	NA	NA	0.00140 B	ND(0.0100)	NA
Lead	0.3	NA	NA	ND(0.00300)	ND(0.00300) J	NA
Selenium	0.8	NA	NA	ND(0.00500)	ND(0.00500) J	NA
Zinc	20	NA	NA	ND(0.020)	ND(0.020)	NA

TABLE 5A
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. NA - Not Analyzed.
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. Field duplicate sample results are presented in brackets.
7. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
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 5B
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATER

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:		East St. Area 2 - North	East St. Area 2 - South		Lyman Street Area		
Sample ID:	UCL-GW	ES1-05	HR-G1-MW-3	HR-G3-MW-1	B-2	E-07	LS-MW-6R
Parameter / Date Collected:	Standards	10/10/03	10/16/03	10/16/03	10/09/03	10/09/03	10/09/03
Inorganics-Unfiltered							
Mercury	0.02	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)
Inorganics-Filtered							
Mercury	0.02	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200)

Site ID:		Newell St. Area II					
Sample ID:	UCL-GW	GMA1-9	N2SC-07S	NS-09	NS-17	NS-20	NS-37
Parameter / Date Collected:	Standards	10/16/03	10/17/03	10/16/03	10/15/03	10/16/03	10/17/03
Inorganics-Unfiltered							
Mercury	0.02	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)
Inorganics-Filtered							
Mercury	0.02	ND(0.000200)	ND(0.000200)	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of mercury.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. ND - Analyte was not detected. The number in parentheses is the associated detection limit.
4. Field duplicate sample results are presented in brackets.

TABLE 6
PROPOSED MODIFIED INTERIM GROUNDWATER QUALITY MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Sampling Schedule	Analyses	Basis for Inclusion in Interim Monitoring Program
RAA 1 - 40s COMPLEX				
No interim groundwater quality monitoring to be performed in this RAA.				
RAA 2 - 30s COMPLEX				
GMA1-2	GW-2 Sentinel	Semi-Annual (2)	VOC (+5 SVOC)	Three additional sample sets are proposed due to lack of water during prior baseline sampling events.
RF-02	GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Location added to interim monitoring program per September 23, 2003 EPA conditional approval letter.
RF-16	GW-3 Perimeter (Downgradient)	Annual (1)	Cyanide	Average cyanide concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
RAA 3 - 20s COMPLEX				
No interim groundwater quality monitoring to be performed in this RAA.				
RAA 4 - EAST STREET AREA 2-SOUTH				
GMA1-13	GW-3 General/Source Area Sentinel	Annual (1)	PCB	Replacement for well 95-9. Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
E2SC-23	GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Location added to interim monitoring program per September 23, 2003 EPA conditional approval letter.
E2SC-24	GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
ES2-02A	GW-3 Perimeter (Downgradient)	Annual (1)	Cyanide	Average cyanide concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
ESA2S-52	GW-3 General/Source Area Sentinel	Annual (1)	Cyanide	Average cyanide concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
HR-G1-MW-3	GW-3 Perimeter (Downgradient)	Annual (1)	Cyanide	Average cyanide concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
HR-G3-MW-1	GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
RAA 5 - EAST STREET AREA 2-NORTH				
ES1-05	GW-3 Perimeter (Downgradient)	Annual	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
ES1-27R	GW-3 General/ Source Area Sentinel	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
GMA1-4	GW-2 Sentinel	Semi-Annual (2)	VOC(+5 SVOC)	Two additional sample sets are proposed due to lack of water during prior baseline sampling events.

TABLE 6
PROPOSED MODIFIED INTERIM GROUNDWATER QUALITY MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Sampling Schedule	Analyses	Basis for Inclusion in Interim Monitoring Program
RAA 6 - EAST STREET AREA 1-NORTH				
ES1-14	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual (1)	PCB	Location added to interim monitoring program per September 23, 2003 EPA conditional approval letter.
ESA1N-52	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
RAA 12 - LYMAN STREET AREA				
LS-29	GW-3 General/Source Area Sentinel	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
LSSC-08S	GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Location added to interim monitoring program per September 23, 2003 EPA conditional approval letter.
LSSC-16S	GW-2 Sentinel	Annual (1)	VOC (+5 SVOC)	Location added to interim monitoring program per September 23, 2003 EPA conditional approval letter.
LSSC-18	GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
MW-4R	GW-3 Perimeter (Downgradient)	Semi-Annual (3)	APP. IX, excl. pest/herb (minimum of 2 rounds)	Location added to interim monitoring program per September 23, 2003 EPA conditional approval letter. Sampling schedule may be proposed to be modified from semi-annual to annual after 2004 data is evaluated.
RAA 13 - NEWELL STREET AREA II				
N2SC-07S	GW-3 Perimeter (Downgradient)	Annual (1)	VOC/PCB	Average PCB and chlorobenzene concentrations are slightly below GW-3 Standard (i.e., greater than 50 %).
NS-17	GW-3 Perimeter (Downgradient)	Annual (1)	VOC	Location added to interim monitoring program for VOC sampling per September 23, 2003 EPA conditional approval letter.
RAA 14 - NEWELL STREET AREA I				
No interim groundwater quality monitoring to be performed in this RAA.				

TABLE 6
PROPOSED MODIFIED INTERIM GROUNDWATER QUALITY MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Well Usage	Sampling Schedule	Analyses	Basis for Inclusion in Interim Monitoring Program
RAA 18 - EAST STREET AREA 1 SOUTH				
139	GW-2 Sentinel/ GW-3 Perimeter (Downgradient)	Annual (1)	PCB	Average PCB concentration is slightly below GW-3 Standard (i.e., greater than 50 %).
ESA1S-33	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual (1)	VOC(+5 SVOC)/ PCB/Cyanide	Replacement for well ES1-8 downgradient of NAPL containment area.
GMA1-6	GW-2 Sentinel/ GW-3 General/Source Area Sentinel	Annual (1)	VOC(+5 SVOC)/ PCB	Downgradient of NAPL containment area.

NOTES:

1. The wells proposed for annual groundwater quality sampling will be sampled for the listed parameters during the interim period between the completion of the baseline monitoring program and the initiation of a long-term monitoring program. The sampling schedule will alternate between the spring and fall seasons each year, beginning with spring 2004.
2. Wells that are included due to less than four rounds of baseline data (i.e., GMA1-2 and GMA1-4) will be sampled on a semi-annual basis and may be proposed to be removed from the interim groundwater quality monitoring program after the fourth data set is collected or if, despite additional attempts, the data cannot be obtained.
3. Samples will be collected from well MW-4R on a semi-annual basis during 2004, at a minimum, after which GE will propose to retain or modify the sampling schedule and/or analyses to be performed.
4. All analyses for PCB, metals, and cyanide conducted under the annual interim monitoring program will be performed on filtered samples only.

Figures

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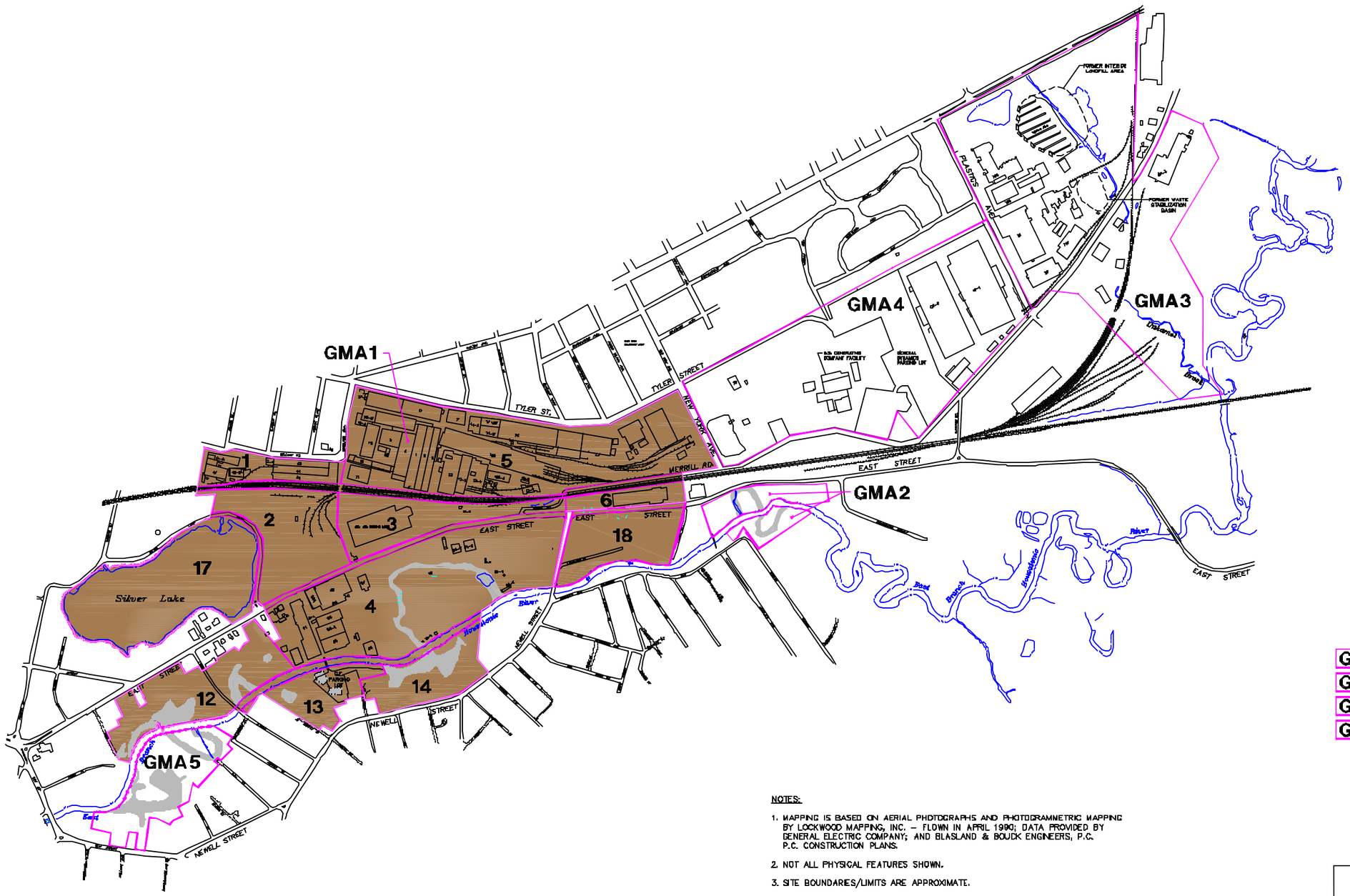


LEGEND

GMA 1 (PLANT SITE 1)

COMPRISED OF:

- RAA 1–40s COMPLEX
- RAA 2–30s COMPLEX
- RAA 3–20s COMPLEX
- RAA 4–EAST STREET AREA 2 SOUTH
- RAA 5–EAST STREET AREA 2 NORTH
- RAA 6–EAST STREET AREA 1 NORTH
- RAA 12–LYMAN STREET AREA (INCLUDING FORMER OXBOWS B, D AND E)
- RAA 13–NEWELL STREET AREA II
- RAA 14–NEWELL STREET AREA I
- RAA 17–SILVER LAKE AREA
- RAA 18–EAST STREET AREA 1 SOUTH (NAPL/GROUNDWATER ONLY)

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

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.

0 600' 1200'
APPROXIMATE SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

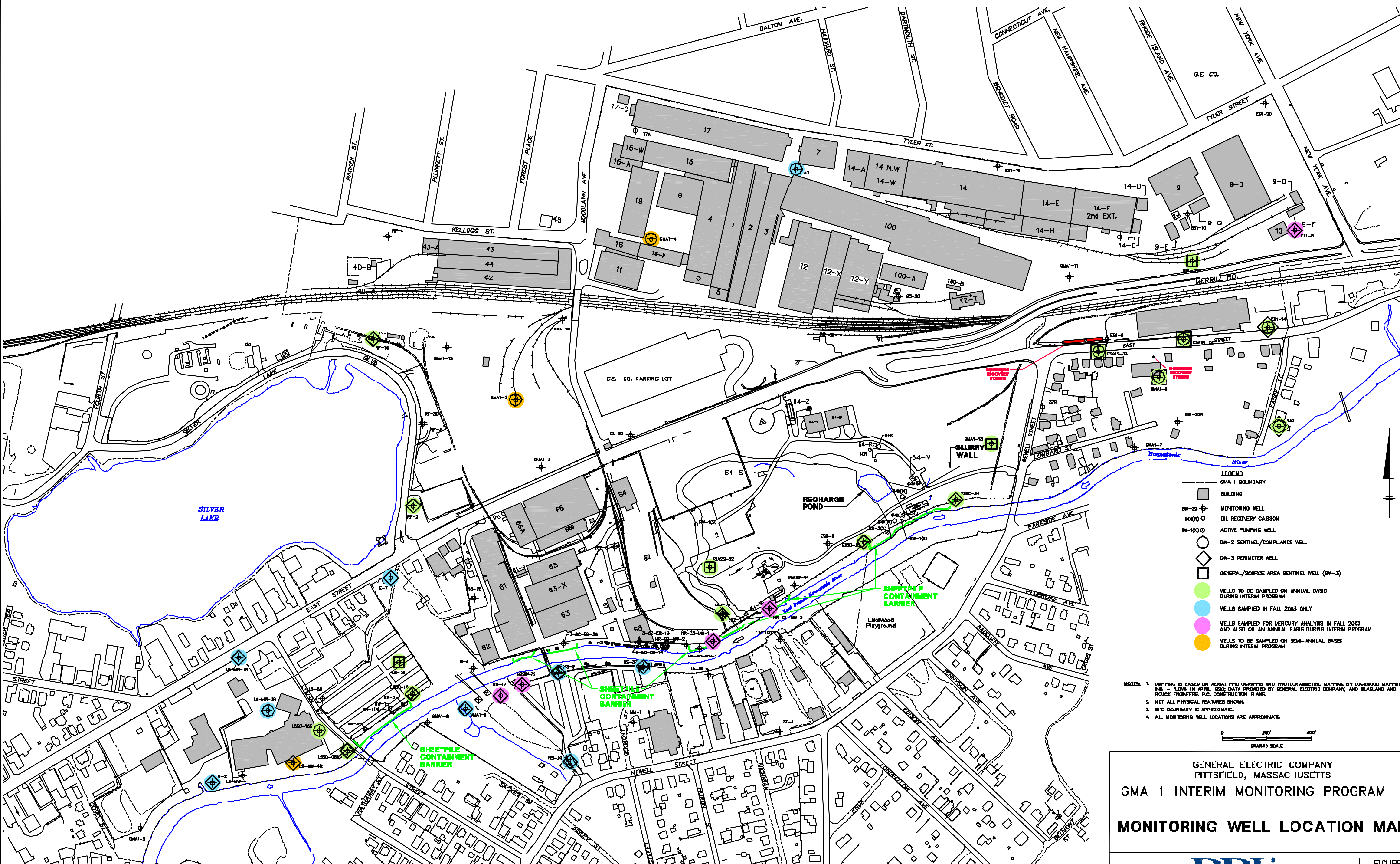
GMA 1 INTERIM MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREAS

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

FIGURE 1

L: ON=*, OFF=REF
Pt: PAGSET/PLT-DL
1/14/04 SYR-04-BNS RCB DWW
N/10113001/10113871.DWG



GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

GMA 1 INTERIM MONITORING PROGRAM

MONITORING WELL LOCATION MAP

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FIGURE
2

Appendices

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Appendix A

Monitoring Well Log

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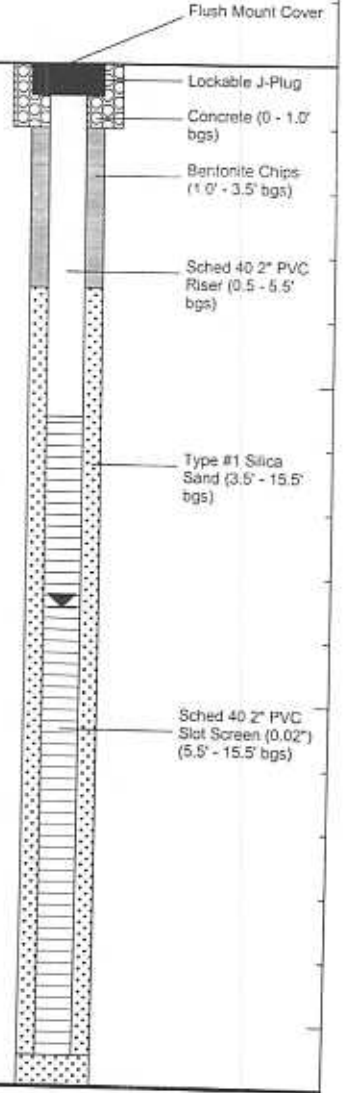
Date Start/Finish: 10/8/03 **Drilling Company:** Parrett-Wolff **Driller's Name:** Rick Novatna, Joel Percy **Drilling Method:** Direct Push/Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4 1/4" **Rig Type:** Truck-Mounted Ingersoll Rand **Sampling Method:** 2" Split Spoon	**Northing:** 532351.6 **Easting:** 130525.4 **Casing Elevation:** 980.82 **Borehole Depth:** 16 ft, bgs **Surface Elevation:** 981.2 **Geologist:** N. Smith	**Well/Boring ID:** MW-4R **Client:** General Electric Company **Location:** GMA 1 - Lyman Street

DEPTH	ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description
0									
	980	1	0-2	0.8	0.4	NA	NA		ASPHALT. Dark brown fine to medium SAND, little Silt, medium Gravel and Asphalt debris, dry. [FILL]
		2	2-4	0.75	0.0	NA	NA		Brown fine to medium SAND, dry.
5		3	4-6	0.33	0.6	NA	NA		Brown fine to medium SAND, trace fine to medium Gravel and Glass fragments, moist. [FILL]
	975	4	6-8	1.6	2.2	NA	NA		Dark grey fine SAND, little Silt, trace organic material, moist. Dark gray fine SAND, trace Silt, moist.
		5	8-10	0.75	1.0	NA	NA		Brown fine to medium SAND, trace Silt, wet.
10									Dark gray fine SAND, little Silt, wet.
	970	6	10-12	1.5	9.3	NA	NA		Gray-brown fine to medium SAND, wet, loose.
		7	12-14	0.6	5.2	NA	NA		
15			14-16	1.8	14.2	NA	NA		Gray-brown medium SAND, wet. Gray SILT, light fine Sand, trace clay, moist.



Well/Boring Construction

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

Remarks: NA = not available;
bgs = below ground surface.

Appendix B

Field Sampling Data

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

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method					Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	
RAA 2 - 30s COMPLEX						
GMA1-2	NS	NS	NS	PP	NS	Fall 2003: Well dry - no sample collected. Spring 2003: Well purged dry. Sample collected after recharge. Insufficient water to collect field parameter data (except for turbidity). Fall 2002: Well dry - no sample collected. Spring 2002: Well dry - no sample collected. Fall 2001: Well dry - no sample collected.
RAA 4 - EAST STREET AREA 2-SOUTH						
95-09/GMA1-13	BA	PP/BA	NS	PP	BP	Spring 2003: Well 95-9 replaced by well GMA1-13 Fall 2002: Well damaged - no sample collected. Fall 2001: Field parameters not collected.
HR-G1-MW-3	SP	PP	PP	BP	BP	Fall 2003: River elevation very high, water near base of well. Spring 2002: Dissolved oxygen meter malfunction. Fall 2001: Unable to get turbidity below 50 NTU.
HR-G3-MW-1	SP	PP	PP	BP	BP	Fall 2001: Pump malfunction during sample collection, was briefly shut down.
RAA 5 - EAST STREET AREA 2-NORTH						
A-7	SP	PP/BA	NS	PP	PP	Fall 2002: Well dry - no sample collected.
ES1-05	BA	BP	SP	BP	BP	Spring 2003: Portion of well casing broken. Fall 2002: Well almost dry - unable to get turbidity below 50 NTU. Spring 2002: Well casing broken at top. Fall 2001: Field parameters not collected.
GMA1-4	NS	NS	NS	PP	PP	Spring 2003: Well cover missing. Fall 2002: Well dry - no sample collected. Spring 2002: Well dry - no sample collected. Fall 2001: Well dry - no sample collected.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method					Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	
RAA 12 - LYMAN STREET AREA						
B-2	PP	PP/BA	PP	PP	PP	
E-7	PP	PP	PP	PP	PP	Fall 2002: Turbidity meter malfunction. Samples visually clear.
LS-29	SP	BP	NS	PP	PP	Spring 2003: Pump type changed from bladder pump to peristaltic pump. Fall 2002: Well not sampled; Casing broken.
MW-3/MW-3R	PP	NS	PP	BP	BP	Fall 2002: Well MW-3 replaced by well MW-3R Spring 2002: Well MW-3 damaged - not sampled.
MW-6R	PP	PP/BA	PP	PP	PP	Fall 2003: Strong petroleum odor observed. Fall 2001: Dissolved oxygen meter malfunction.
RAA 13 - NEWELL STREET AREA II						
GMA1-9	PP	PP/BA	PP	PP	PP	Fall 2001: Dissolved oxygen meter malfunction.
N2SC-07S	SP	BP	PP	BP	BP	Spring 2002: Dissolved oxygen meter malfunction. Fall 2001: Dissolved oxygen meter malfunction.
NS-09	SP	PP/BA	PP	PP	PP	Spring 2003: Well riser broken, but well still usable. Fall 2001: Turbidity meter malfunction. Samples visually clear.
NS-17	SP	PP/BA	PP	PP	PP	

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

GROUNDWATER MANAGEMENT AREA 1
GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY-PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method					Comments
	Fall 2001	Spring 2002	Fall 2002	Spring 2003	Fall 2003	
RAA 13 - NEWELL STREET AREA II (continued)						
NS-20	SP	PP/BA	PP	PP	PP	Spring 2003: Increase in pump rate noted during sample collection.
NS-37	SP	BP	PP	BP	BP	Fall 2003: Slight sheen observed,

NOTES:
BP - Bladder Pump
PP - Peristaltic Pump
SP - Submersible Pump
BA - Bailer
PP/BA - Peristaltic Pump with Bailer used for VOC sample collection
NS - Not Sampled

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-2
Key No. NA
PID Background (ppm) NA
Well Headspace (ppm) NA

Site/GMA Name GMA 1
Sampling Personnel K GROCS / R BLASLAND
Date 10/9/03
Weather 60-70° / MOSTLY CLEAR / SUNNY

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth _____ Meas. From _____
Water Table Depth 16.32 Meas. From TIC
Well Depth 16.32 Meas. From TIC
Length of Water Column _____
Volume of Water in Well _____
Intake Depth of pump/tubing _____ Meas. From _____

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redeveloped? Y N

Sample Time NA
Sample ID NA
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time _____
Pump Stop Time _____
Minutes of Pumping _____
Volume of water removed _____
Did well go dry? Y N

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type _____
Samples collected by same method as evacuation? Y N(specify)

Water Quality Meter Type(s) / Serial Numbers _____

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS WELL DRY

SAMPLE DESTINATION

Laboratory: —
Delivered Via: —
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-2
Key No. Lot 4
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE Pittsfield - GMA 1
Sampling Personnel GAR/CAA
Date 10-20-03
Weather Partly sunny, 47°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.3 Meas. From Ground
Well Diameter 2"
Screen Interval Depth 6.2-16.2' Meas. From Ground
Water Table Depth 15.84' Meas. From TIC
Well Depth 16.32' Meas. From TIC
Length of Water Column 0.48'
Volume of Water in Well 0.08gal
Intake Depth of pump/tubing 16.2' Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y N

Sample Time ~~(GMA1)~~ —
Sample ID GMA1-2
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
(X)	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time ~~10:25~~ 10:30
Pump Stop Time 10:35
Minutes of Pumping 5
Volume of water removed 0.08gal
Did well go dry? (Y) N

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type: QED pump 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS 05G1461AI
Hach Turbidity Meter 020200025376

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10%]*	ORP (mV) [10 mV]*
10:34	100 mL	0.08gal	0	13.13	6.11	0.919	10	6.25	165.0

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge - clear, colorless, few organic particles
~~Final Purge~~ Well went dry w/in 5 minutes. NO sample taken
Well still dry on 10/22/03
Heavy Rain on 10/27/03
Well still dry on 10/28/03
Well still dry on 11/7/03

SAMPLE DESTINATION

Laboratory: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-13
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name G.E. Pittsfield
Sampling Personnel GAR/KLB
Date 10/15/03
Weather Overcast, Light Rain, Very Windy, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 1.90 Meas. From Ground
Well Diameter 2"
Screen Interval Depth 15'-25' Meas. From Ground
Water Table Depth 17.37 Meas. From TIC
Well Depth ~~27.00~~ Meas. From TIC
Length of Water Column ~~9.91~~ 27.28
Volume of Water in Well 1.615 GAL
Intake Depth of pump/tubing 22.5 Meas. From TIC

Reference Point Identification:
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 11:15
Sample ID GMA1-13
Duplicate ID —
MS/MSD —
Split Sample ID 25-GW0000046-0-3015

Required	Analytical Parameters	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp list)	( )
(X)	SVOCs	(X)
(X)	PCBs (Total)	(X)
(X)	PCBs (Dissolved)	(X)
(X)	Metals/Inorg. (Total)	(X)
(X)	Metals/Inorg. (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 9:40
Pump Stop Time
Minutes of Pumping
Volume of water removed
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type MORSCHALK SYSTEM 1 SN #2332031
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 03C0392 AE
HACH TURBIDIMETER SN 98120001980T

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
9:40	0.250	—	17.40	—	—	—	16	—	—
9:55	.075	0.29723	17.38	12.75	6.78	1.277	10	~~7.97~~ 7.47	202.9
10:00	0.150	0.49538	17.38	12.72	6.84	1.289	6	7.56	188.7
10:05	0.150	0.69353	17.38	12.08	~~6.84~~ 6.23	1.292	5	7.23	177.2
10:10	0.150	0.89168	17.38	11.95	6.87	1.291	5	6.59	169.6
10:15	0.150	1.08983	17.38	11.88	6.87	1.295	5	6.07	161.1
10:20	0.150	1.28798	17.39	11.81	6.87	1.298	4	5.90	155.0
10:25	0.150	1.486	17.38	11.77	6.88	1.299	4	5.74	149.6
10:30	0.150	1.684	17.38	11.72	6.88	1.299	3	5.64	144.8
10:35	0.150	1.882	17.38	11.71	6.90	1.299	3	5.62	136.1
10:40	0.150	2.08	17.38	11.74	6.91	1.300	3	5.57	118.1
10:45	0.150	2.278	17.38	11.76	6.92	1.300	3	5.53	97.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
INITIAL PURGE: CLEAR, ODORLESS
Final Purge: Clear, odorless
* Weston/EPA collected a split sample for VOCs, SVOCs, & filtered PCBs

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-13
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD
Sampling Personnel GAR/KLB
Date 10/15/03
Weather OVERCAST, I

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 1.90 Meas. From GROUND
Well Diameter 2"
Screen Interval Depth 15-25' Meas. From GROUND
Water Table Depth 17.37' Meas. From TIC
Well Depth 27.28' Meas. From TIC
Length of Water Column 9.91'
Volume of Water in Well 1.615 gal
Intake Depth of pump/tubing 22.5' Meas. From TIC

Reference Point Identification
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 11:15
Sample ID GMA1-13
Duplicate ID
MS/MSD —
Split Sample ID 25-GW000046-0-3015

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp.list)	( )
(X)	SVOCs	(X)
(X)	PCBs (Total)	(X)
(X)	PCBs (Dissolved)	(X)
(X)	Metals/Inorg. (Total)	(X)
(X)	Metals/Inorg. (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 9:40
Pump Stop Time
Minutes of Pumping
Volume of water removed
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type MARSCHALK SYSTEM I
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C0392AE
HACH TURBIDIMETER 98120001980?

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
10:48	0.150	2.400	17.37	11.72	6.94	1.300	2	5.56	76.1
10:51	0.150	2.550	17.38	11.67	6.96	1.300	2	5.55	62.7
10:54	0.150	2.688	17.38	11.69	6.97	1.300	2	5.54	52.0
10:57	0.150	2.758	17.38	11.67	6.97	1.300	2	5.52	40.1
11:00	0.150	2.878	17.38	11.66	6.98	1.300	1	5.53	28.5
11:03	0.150	2.998	17.38	11.66	6.98	1.300	2	5.51	20.0
11:06	0.150	3.118	17.38	11.65	6.99	1.300	2	5.51	15.5
11:09	0.150	3.238	17.38	11.64	7.00	1.300	1	5.50	10.0
11:12	0.150	3.358	17.38	11.63	7.00	1.300	1	5.50	6.0
11:15	0.150	3.478	17.38	11.61	7.00	1.300	1	5.49	3.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. HR-G1-MW-3
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name G.E. Pittsfield - GMA-1
Sampling Personnel GAR
Date 10/16/03
Weather Clear, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point +2.0' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 7'-17' Meas. From Ground
Water Table Depth 3.62' Meas. From TIC
Well Depth 18.01' Meas. From TIC
Length of Water Column 14.39'
Volume of Water in Well 2.35 gallons
Intake Depth of pump/tubing 12' Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 12:05
Sample ID HR-G1-MW-3
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Total & Filtered Mercury

EVACUATION INFORMATION

Pump Start Time ~~11:10~~ 11:15
Pump Stop Time 12:15
Minutes of Pumping 60
Volume of water removed 1.5 gallons
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type Marschalk System one
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI-556 MPS - 03C0392 AE
Hach Turbidimeter - 02020000253 76

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 unit]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
11:18	150ml	—	3.58	—	—	—	20	—	—
11:25	100	0.33	3.57	—	—	—	11	—	—
11:30	100	0.46	3.57	14.36	6.73	0.713	9	9.60	-37.8
11:35	100	0.59	3.57	14.10	6.81	0.720	8	3.36	-61.0
11:40	100	0.72	3.57	13.97	6.84	0.720	6	3.24	-67.5
11:45	100	0.85	3.57	13.99	6.89	0.718	6	3.24	-71.0
11:50	100	0.98	3.57	13.80	6.89	0.715	6	3.22	-70.0
11:55	100	1.11	3.57	13.73	6.90	0.710	5	3.28	-68.7
12:00	100	1.24	3.57	13.72	6.92	0.708	5	3.28	-68.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Very light brown, odorless
Final Purge: Clear, odorless
*Note: Housatonic River is very high today, water is up to base of HR-G1-MW-3

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. HR-G3-MW-1
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name G.E. Pittsfield - GMA-1
Sampling Personnel GAR
Date 10/16/03
Weather Mostly clear, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point +3.44' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 4.1'-14.1' Meas. From Ground
Water Table Depth 10.52' Meas. From TIC
Well Depth 17.86' Meas. From TIC
Length of Water Column 7.34'
Volume of Water in Well 1.20 gallons
Intake Depth of pump/tubing 14.5' Meas. From TIC

Reference Point Identification
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 15:20
Sample ID HR-G3-MW-1
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other(s) (specify) Total & Filtered Mercury	(X)

EVACUATION INFORMATION

Pump Start Time 14:35
Pump Stop Time 15:30
Minutes of Pumping 55
Volume of Water Removed 1.5 gallons
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type Marschalk - System One
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI-556 MPS-03C0392 AE
Hach Turbidimeter - 02020002 5376

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:35	100 ml	—	10.54	—	—	—	16	—	—
14:40	100	0.13	10.54	—	—	—	13	—	—
14:47	100	0.26	10.54	14.48	6.61	2.084	6	3.40	42.5
14:50	100	0.39	10.54	14.35	6.57	2.109	6	1.77	0.6
14:55	100	0.52	10.54	14.32	6.73	2.115	5	1.66	-19.9
15:00	100	0.65	10.54	14.40	6.75	2.118	4	1.65	-27.2
15:05	100	0.78	10.54	14.32	6.75	2.125	3	1.63	-29.5
15:10	100	0.91	10.54	14.22	6.76	2.133	2	1.66	-31.1
15:15	100	1.04	10.54	14.15	6.77	2.144	2	1.67	-31.9
15:20	100	1.17	10.54	14.12	6.77	2.147	2	1.67	-32.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
Initial Purge: Clear, Odorless
Final Purge: Clear, odorless

SAMPLE DESTINATION
Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. A-7
Key No. NA
PID Background (ppm) NA
Well Headspace (ppm) NA

Site/GMA Name GMA 1
Sampling Personnel K Gross/R Blasland
Date 10/9/03
Weather 60-70°, Mostly clear, sunny

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.5 in Meas. From BGS
Well Diameter 2
Screen Interval Depth 4 - 10 Meas. From BGS
Water Table Depth 7.90 Meas. From TIC
Well Depth 13.33 Meas. From TIC
Length of Water Column 5.71
Volume of Water in Well 0.931
Intake Depth of pump/tubing 11 Ft Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 1131
Sample ID A-7
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
(X)	VOCs (Exp list)	(X)
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 1101
Pump Stop Time 1131
Minutes of Pumping 30
Volume of water removed 0.793 gal
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type Geopump
Samples collected by same method as evacuation? (Y) N/specify

Water Quality Meter Type(s) / Serial Numbers: YSI 556/#2, HACH 2100P/SN 9807

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1108	0.1	0.018	8.15	16.95	7.53	13.77	8	3.50	136.2
1111	0.1	.264	8.19	16.97	7.53	13.82	8	2.10	117.0
1114	0.1	.343	8.22	16.97	7.53	13.87	8	1.62	99.2
1117	0.1	.423	8.24	16.82	7.52	13.86	8	1.56	81.6
1120	0.1	.502	8.26	16.79	7.52	13.96	9	1.59	74.0
1123	0.1	.581	8.28	16.87	7.51	13.96	10	1.56	61.1
1126	0.1	.661	8.29	16.94	7.51	13.89	10	1.53	54.5
1129	0.1	.740	8.30	16.03	7.51	13.88	9	1.47	51.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS H2O clear, no odor. At end of purge water clear, no odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. ESI-05
Key No. NA
PID Background (ppm) NA
Well Headspace (ppm) NA

Site/GMA Name G.E. P.H. Field - GMA-1
Sampling Personnel GAR, KLB, KMG
Date 10/10/03
Weather CLEAR, 70-75°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 0 Meas. From TIC
Well Diameter 2 inch
Screen Interval Depth 35-45ft Meas. From BGS
Water Table Depth 39.71 ft Meas. From TIC
Well Depth 44.80 ft Meas. From TIC
Length of Water Column 5.09 ft
Volume of Water in Well 0.83 gal
Intake Depth of pump/tubing 42.5 Meas. From TIC

Reference Point Identification
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 1325
Sample ID ESI-05
Duplicate ID —
MS/MSD COLLECTED
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg (Total)	( )
( )	Metals/Inorg (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 1230
Pump Stop Time ~~1355~~ 1320
Minutes of Pumping
Volume of water removed 2.3 gal
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type MARSchalk System #1
Samples collected by same method as evacuation? Y N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556/03C146IAI, HACH TURBIDMeter 98120001980T

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
12:36	.150	—	39.9	—	—	—	89	—	—
1240	.100	0.765	39.95	—	—	—	40	—	—
1250	.160	0.688	40.07	—	—	—	10	—	—
1300	.110	0.979	39.95	18.27	6.75	1.796	5	0.032	-59.8
1305	0.100	1.111	39.96	17.12	6.69	1.809	4	0.23	-65
1310	0.100	1.243	39.910	17.58	6.71	1.863	3	0.23	-58.2
1313	0.100	1.322	39.91	17.18	6.72	1.888	2	0.22	-58.0
1316	0.100	1.401	39.91	17.33	6.75	1.886	2	0.21 to 0.22	-59.3
1313	0.100	1.480	39.91	17.50	6.72	1.905	2	0.22	-58.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS Initial purge - H_2O light brown, organic particles, moderate odor (decaying organic material)
Final purge - clear, slight organic odor
*MS/MSD COLLECTED HERE

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-4
Key No. NA
PID Background (ppm) NA
Well Headspace (ppm) NA

Site/GMA Name GMA 1
Sampling Personnel K GROSS/R Blasland
Date 10/9/03
Weather 60-70°, mostly clear, sunny

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 3.57ft Meas. From BGS
Well Diameter 2
Screen Interval Depth 16.3-20.3 Meas. From BGS
Water Table Depth 15.99 Meas. From TIC
Well Depth 19.19 Meas. From TIC
Length of Water Column 3.2
Volume of Water in Well 0.521
Intake Depth of pump/tubing 18.3 Meas. From BGS

Reference Point Identification
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 1026
Sample ID GMA1-4
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
(X)	VOCs (Exp.list)	(X)
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 0934
Pump Stop Time 1026
Minutes of Pumping 54
Volume of water removed 1.427
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GeoPump
Samples collected by same method as evacuation? Y N(-specify)

Water Quality Meter Type(s) / Serial Number: YSI 556/#2, HACH 2100P/6N9807

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
0943	0.1	0.264	16.16	15.63	7.22	1.230	4	9.04	200.0
0948	0.1	.396	16.17	15.54	7.39	1.240	3	8.92	168.0
0953	0.1	.555	16.17	15.60	7.45	1.239	3	9.16	146.0
0958	0.1	.660	16.17	15.56	7.50	1.244	2	9.35	130.7
1003	0.1	.819	16.17	15.58	7.52	1.244	2	9.34	121.9
1008	0.1	.951	16.17	15.64	7.53	1.244	2	9.43	115.0
1013	0.1	1.083	16.17	15.71	7.55	1.244	1	9.43	109.3
1018	0.1	1.215	16.17	15.79	7.56	1.244	1	9.45	104.2
1023	0.1	1.295	16.17	15.87	7.56	1.244	1	9.45	100.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS H2O clear, odorless. At end of purge, H2O clear, odorless.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. B-2
Key No. NA
PID Background (ppm) NA
Well Headspace (ppm) NA

Site/GMA Name GMA1
Sampling Personnel K GROSS / R Blasland
Date 10/9/03
Weather 60-70°, mostly clear, sunny

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point 10.25 ft Meas. From BGS
Well Diameter 4
Screen Interval Depth 3-18 Meas. From BGS
Water Table Depth 5.17 Meas. From TIC
Well Depth 17.07 Meas. From TIC
Length of Water Column 11.9
Volume of Water in Well 7.735
Intake Depth of pump/tubing 13 Meas. From BGS

Reference Point Identification:
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 14 35
Sample ID B-2
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY (FILT. & UNFILT.)

EVACUATION INFORMATION

Pump Start Time 1351
Pump Stop Time 1435
Minutes of Pumping 44
Volume of water removed 2.906 gal
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GeoPump
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 / #2, HACH 2100P/SN 9807

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1357	.25	.396	5.47	15.40	6.80	1.622	38	2.55	-128.4
1400	.25		5.51	14.68	6.59	1.471	36	1.08	-123.3
1403	.25		5.53	14.64	6.55	1.408	36	1.06	-118.7
1406	.25		5.55	14.51	6.55	1.362	35	0.57	-113.7
1409	.25		5.57	14.47	6.55	1.346	31	0.50	-113.3
1412	.25		5.59	14.60	6.57	1.328	31	0.40	-113.6
1415	.25		5.60	14.40	6.56	1.326	26	0.33	-113.3
1418	.25		5.61	14.27	6.59	1.324	25	0.28	-113.1
1421	.25		5.61	14.29	6.57	1.324	23	0.27	-113.9
1424	.25		5.61	14.28	6.63	1.324	21	0.27	-116.7
1427	.25	2.378	5.62	14.14	6.64	1.323	20	0.27	-118.0
1430	.25	2.576	5.63	14.18	6.64	1.326	20	0.25	-119.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS light brown tint to H_2O. Fine sediment, slight odor. approx. 1403, odor slight to none in H_2O, no sediment, light brown tint with foam. At end of purge odor slight to none, H_2O light brown.

SAMPLE DESTINATION

Laboratory: STL
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. E-07
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA-1
Sampling Personnel GAR/KLB
Date 10/9/03
Weather Clear, 60-65°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.5' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 4.6'-20.1' Meas. From Ground
Water Table Depth 5.85' Meas. From TIC
Well Depth 19.65' Meas. From TIC
Length of Water Column 13.80'
Volume of Water in Well 2.25 gallons
Intake Depth of pump/tubing 11.0' Meas. From TIC

Reference Point Identification
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grnde/BGS Ground Surface

Redevelop? Y (N)

Sample Time 11:00
Sample ID E-07
Duplicate ID —
MS/MSC —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Total + Filtered Mercury

EVACUATION INFORMATION

Pump Start Time 10:00
Pump Stop Time 11:05
Minutes of Pumping 65
Volume of water removed 1.20 gallons
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type Geo Pump 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 - 03C1461 A1
Hach Turbidimeter - 94110000G523

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
10:15 ~~9:40~~	100 ml	—	5.88	—	—	—	Intu	—	—
10:25	120 ml	0.32	6.00	14.70	6.70	0.839	1	3.03	97.9
10:30	100 ml	0.45	6.01	14.68	6.76	0.833	1	2.55	89.6
10:35	100 ml	0.58	6.02	14.73	6.78	0.832	0	2.72	82.4
10:40	100 ml	0.71	6.02	14.75	6.79	0.828	0	2.56	77.4
10:45	100 ml	0.84	6.02	14.75	6.79	0.828	1	2.56	74.9
10:50	100 ml	0.97	6.02	14.77	6.81	0.823	0	2.59	71.1
10:55	100 ml	1.10	6.02	14.79	6.81	0.822	0	2.55	69.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
Initial Purge: Clear, odorless
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: ~~CTE~~ SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. LS-29
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE Pittsfield - GMA-1
Sampling Personnel GAR / KLB
Date 10/13/03
Weather CLEAR, 50-60°, SUNNY, BREEZY.

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.2' Meas. From GROUND - BGS
Well Diameter 2 in
Screen Interval Depth 24.6-34.6 Meas. From GROUND - BGS
Water Table Depth 13.51' Meas. From TIC
Well Depth 34.69' Meas. From TIC
Length of Water Column 21.18'
Volume of Water in Well 3.452 gallons
Intake Depth of pump/tubing 29 Meas. From TIC

Reference Point Identification:
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 12:05
Sample ID LS-29
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp.list)	( )
(X)	SVOCs	(X)
(X)	PCBs (Total)	(XR)
(X)	PCBs (Dissolved)	(XR)
(X)	Metals/Inorg. (Total)	(X)
(X)	Metals/Inorg. (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 10:10 10:35
Pump Stop Time 12:50
Minutes of Pumping 135
Volume of water removed 4.939
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GEOPUMP 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 ~~0362~~ 03C0392 - HACH TURBIDIMETER 98120001980?

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
10:35	0.155	—	13.51	—	—	—	43	—	—
10:40	0.140	0.18519	13.51	—	—	—	61	—	—
10:50	0.150	0.58201	13.52	—	—	—	58	—	—
11:00	0.150	0.9788	13.52	—	—	—	49	—	—
11:05	0.150	1.1772	13.52	12.85	7.81	0.909	49	15.2	178.8
11:10	0.150	1.3756	13.52	12.54	7.58	1.017	45	9.96	132.0
11:15	0.150	1.5740	13.52	12.49	7.48	1.053	39	9.47	84.4
11:20	0.150	1.7724	13.52	12.36	7.45	1.063	33	9.19	56.0
11:25	0.150	1.9708	13.52	12.51	7.45	1.068	35	9.13	37.1
11:30	0.150	2.1692	13.52	12.51	7.44	1.079	32	9.10	22.7
11:35	0.150	2.3676	13.52	12.49	7.44	1.083	26	9.02	14.6
11:38 ~~11:40~~	0.150	2.4866	13.52	12.47	7.44	1.087	26	8.89	9.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS: INITIAL PURGE: VERY LIGHT BROWN, ODORLESS.
FINAL PURGE: CLEAR AND ODORLESS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. LS-29
Key No. -
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD - GMA 1
Sampling Personnel GAR/MLB
Date 10/13/03
Weather CLEAR, 50-60°, SUNNY, BREEZY

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.2' Meas. From BGS
Well Diameter 2 in
Screen Interval Depth 24.6-34.6 Meas. From BGS
Water Table Depth 13.51 Meas. From TIC
Well Depth 34.69' Meas. From TIC
Length of Water Column 21.18'
Volume of Water in Well 3.452
Intake Depth of pump/tubing 29 Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 12:05
Sample ID LS-29
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp.list)	( )
(X)	SVOCs	(X)
(X)	PCBs (Total)	(X)
(X)	PCBs (Dissolved)	(X)
(X)	Metals/Inorg. (Total)	(X)
(X)	Metals/Inorg. (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 10:35
Pump Stop Time 12:50
Minutes of Pumping 135
Volume of water removed 4.939
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GEDPUMP2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C0392 HACH TURBIDIMETER-
98120001980 7

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
11:41	0.150	2.6056	13.52	12.51	7.44	1.090	23	8.74	6.2
11:44	0.150	2.7246	13.52	12.43	7.44	1.094	20	8.68	2.1
11:47	0.150	2.8436	13.52	12.42	7.44	1.097	21	8.64	-1.4
11:50	0.150	2.9626	13.52	12.42	7.44	1.101	18	8.61	-5.1
11:53	0.150	3.0816	13.52	12.47	7.45	1.103	18	8.54	-8.1
11:56	0.150	3.2006	13.52	12.52	7.45	1.105	15	8.46	-10.4
11:59	0.150	3.3196	13.52	12.56	7.44	1.106	15	8.38	-11.7
12:02	0.150	3.4386	13.52	12.57	7.45	1.108	14	8.35	-13.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. LS-MW-3R
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name G.E. Pittsfield - GMA-1
Sampling Personnel GAR/KLB
Date 10/13/03
Weather Clear, 60-70°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.25' Meas. From BGS
Well Diameter 2in
Screen Interval Depth 5.2-15.2' Meas. From BGS
Water Table Depth 9.11' Meas. From TIC
Well Depth 15.863' Meas. From TIC
Length of Water Column 6.52'
Volume of Water in Well 1.06 gallon
Intake Depth of pump/tubing 12.5' Meas. From TIC

Reference Point Identification
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redeveloped? Y (N)

Sample Time 15:20
Sample ID LS-MW-3R
Duplicate ID DUP-1
MS/MSD COLLECTED HERE
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
(X)	VOCs (Exp.list)	(X)
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 14:20
Pump Stop Time 13:24
Minutes of Pumping 64
Volume of water removed 1.53 gal
Did well go dry? Y N

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type MARSCHALK SYSTEM 1 - SN: 4233203
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C0392 HACH TURBIDIMETER 98120001980T

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:20	0.100	—	9.16	—	—	—	84	—	—
14:30	0.100	0.2646	9.18	—	—	—	33	—	—
14:42	0.050	0.4233	9.16	—	—	—	22	—	—
14:45	0.150	0.5423	9.16	16.63	6.63	3.442	19	2.31	-109.6
14:48	0.125	0.6415	9.17	16.13	6.63	3.428	16	1.60	-110.0
14:51	0.125	0.7407	9.17	15.93	6.63	3.410	12	1.28	-110.7
14.54	0.125	0.8400	9.18	15.86	6.63	3.381	10	1.05	-110.7
14:57	0.125	0.9392	9.18	15.81	6.63	3.338	9	0.85	-110.1
15:00	0.125	1.0384	9.20	15.78	6.63	3.317	7	0.77	-110.8
15:03	0.125	1.1376	9.18	15.78	6.63	3.288	6	0.66	-109.2
15:06	0.125	1.2368	9.18	15.70	6.63	3.272	5	0.58	-109.8
15:09	0.125	1.3360	9.18	15.64	6.63	3.248	5	0.58	-109.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS MS/MSD AND DUPLICATE COLLECTED HERE
INITAL PURGE: LIGHT BROWN, ODORLESS.
FINAL PURGE: CLEAR AND ODORLESS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. LS-MW-3R
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD - GMA 1
Sampling Personnel GAR/KLB
Date 10/13/03
Weather CLEAR, 60-70°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.25' Meas. From BGS
Well Diameter 2 in.
Screen Interval Depth 5.2 - 15.2' Meas. From BGS
Water Table Depth 9.11' Meas. From TIC
Well Depth 15.63' Meas. From TIC
Length of Water Column 6.52'
Volume of Water in Well 1.06 gal
Intake Depth of pump/tubing 12.5' Meas. From TIC

Reference Point Identification:
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 15:20
Sample ID LS-MW-3R
Duplicate ID ~~DUP-~~ DUP-1
MS/MSD COLLECTED HERE
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
(X)	VOCs (Exp list)	(X)
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
( )	Other (Specify)	( )

EVACUATION INFORMATION

Pump Start Time 12:20
Pump Stop Time 13:24
Minutes of Pumping 64
Volume of water removed 1.53 gal
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type
Samples collected by same method as evacuation? Y N(specify)

Water Quality Meter Type(s) / Serial Number(s)

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:12	0.125	1.4352	9.18	15.64	6.63	3.226	4	0.51	-110.0
15:15	0.125	1.5344	9.18	15.64	6.65	3.210	4	~~0.40~~ 0.50	-111.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. LS-MW-6R
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA-1
Sampling Personnel GAR/KLB
Date 10/9/03
Weather Clear, 65°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.35 Meas. From Ground
Well Diameter 2"
Screen Interval Depth 4'-14' Meas. From Ground
Water Table Depth 9.30 Meas. From TIC
Well Depth 13.78 Meas. From TIC
Length of Water Column 4.48
Volume of Water in Well 0.73
Intake Depth of pump/tubing 12.0 Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 15:20
Sample ID LS-MW-6R
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg (Total)	( )
( )	Metals/Inorg (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify): Total + Filtered Mercury	(X)

EVACUATION INFORMATION

Pump Start Time 14:10
Pump Stop Time 15:25
Minutes of Pumping 75
Volume of water removed 1.50 gallon
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type Geo Pump 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 - 03C1461 A1
Hach Turbidimeter - 94110000065223

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) (3%)*	pH (0.1 units)*	Sp. Cond. (mS/cm) (3%)*	Turbidity (NTU) (10% or 1 NTU)*	DO (mg/l) (10%* or 0.1 mg/l)*	ORP (mV) (10 mV)*
14:10	100 ml	—	9.31	—	—	—	43	—	—
14:15	100 ml	0.13	9.31	18.47	6.70	3.847	12	5.33	-135.4
14:20	100 ml	0.26	9.31	18.50	6.71	3.782	10	0.83	-133.0
14:25	100 ml	0.39	9.31	18.59	6.72	3.724	11	1.12	-131.4
14:30	100 ml	0.52	9.31	18.45	6.74	3.585	12	1.32	-126.5
14:35	100 ml	0.65	9.31	18.49	6.76	3.481	8	1.20	-128.3
14:40	100 ml	0.78	9.31	18.56	6.77	3.396	8	1.26	-131.1
14:45	100 ml	0.91	9.31	18.65	6.80	3.240	7	0.95	-134.4
14:50	100 ml	1.04	9.31	18.69	6.81	3.195	6	1.00	-136.1
14:55	100 ml	1.17	9.31	18.65	6.83	3.101	6	1.03	-136.4
15:00	100 ml	1.30	9.31	18.63	6.83	3.085	5	0.93	-137.2
15:05	100 ml	1.42	9.31	18.62	6.84	3.065	5	0.91	-137.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Initial Purge: Clear, a few small particles, strong Petro Odor
Final Purge: Clear, strong Petro Odor
Note: Purge water turned a dark-brown or orange after sitting a while

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. LS-MW-6R
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA-1
Sampling Personnel GAR/KLB
Date 10/9/03
Weather Clear, 65°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.35 Meas. From Ground
Well Diameter 2"
Screen Interval Depth 4'-14' Meas. From Ground
Water Table Depth 9.30 Meas. From TIC
Well Depth 13.78 Meas. From TIC
Length of Water Column 4.48
Volume of Water in Well 0.73
Intake Depth of pump/tubing 12.0' Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 15:20
Sample ID LS-MW-6R
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Total & Filtered Mercury

EVACUATION INFORMATION

Pump Start Time 14:10
Pump Stop Time 15:25
Minutes of Pumping 75
Volume of water removed 1.50 gallon
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type Geo Pump 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556
Flow Through Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:10	100ml	1.56	9.31	18.67	6.85	3.025	5	0.88	-138.8
15:15	106ml	1.69	9.31	18.70	6.86	3.020	5	0.90	-138.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS —

SAMPLE DESTINATION

Laboratory: CTE
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-9
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD
Sampling Personnel KLB
Date 10/16/03
Weather PARTLY SUNNY, WINDY, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 3.1' Meas. From GROUND
Well Diameter 2 inches
Screen Interval Depth 7.1 - 17.1' Meas. From GROUND
Water Table Depth 6.06' Meas. From TIC
Well Depth 21.37' Meas. From TIC
Length of Water Column 15.31
Volume of Water in Well 2.50 gal
Intake Depth of pump/tubing 12.0' Meas. From TIC

Reference Point Identification
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time ~~GMA1-9~~ 12:45
Sample ID GMA1-9
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 11:24
Pump Stop Time 12:54
Minutes of Pumping 90
Volume of water removed 2.5 gal
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type ~~GEO PROBE 2~~ GEOPUMP2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C1461 A1
HACH TURBIDIMETER 98120001980?

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
11:24	0.150	—	6.06	—	—	—	68	—	—
11:35	0.150	0.436	6.06	—	—	—	34	—	—
1.40	0.150	0.634	6.06	12.28	6.36	0.668	29	1.86	-52.7
11:45	0.125	0.799	6.06	12.20	6.58	0.677	25	0.38	-60.4
11:50	0.125	0.964	6.06	12.16	6.66	0.679	26	0.34	-63.2
11:55	0.100	1.096	6.05	12.13	6.70	0.679	21	0.29	-64.2
12:00	0.100	1.225	6.05	12.12	6.72	0.679	18	0.33	-63.6
12:05	0.100	1.360	6.05	12.15	6.73	0.677	16	0.31	-64.0
12:10	0.100	1.492	6.04	12.22	6.75	0.676	15	0.30	-64.0
12:15	0.100	1.624	6.04	12.32	6.77	0.675	13	0.30	-64.1
12:20	0.100	1.756	6.04	12.42	6.78	0.675	12	0.31	-64.9
12:25	0.100	1.888	6.05	12.46	6.79	0.674	10	0.30	-66.2

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

INITIAL PURGE: CLEAR, LIGHT YELLOW, TURBID, SLIGHT ORGANIC ODOR
FINAL PURGE: CLEAR, COLORLESS, SLIGHT ODOR

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. GMA1-9
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD
Sampling Personnel KLB
Date 10/16/03
Weather PARTLY SUNNY, WINDY, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 3.1' Meas. From GROUND
Well Diameter 2 inches
Screen Interval Depth 7.1-17.1' Meas. From GROUND
Water Table Depth 6.06' Meas. From TIC
Well Depth 21.37' Meas. From TIC
Length of Water Column 15.31'
Volume of Water in Well 2.5 gal
Intake Depth of pump/tubing 12' Meas. From TIC

Reference Point Identification:
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y N

Sample Time 12:45
Sample ID GMA1-9
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify) MERCURY - FILTERED AND UNFILTERED	(X)

EVACUATION INFORMATION

Pump Start Time 11:24
Pump Stop Time 12:54
Minutes of Pumping 90
Volume of water removed 2.5 gal
Dtr. well go dry? (Y) N

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GEO PUMP 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C1461A1
HACH TURBIDIMETER 98120001980 7

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
12:24	0.100	1.994	6.05	12.46	6.80	0.674	9	0.32	-67.2
12:33	0.100	2.100	6.05	12.43	6.80	0.674	9	0.32	-67.1
12:37	0.100	2.206	6.05	12.35	6.80	0.672	8	0.30	-67.8
12:41	0.100	2.312	6.04	12.31	6.81	0.671	7	0.30	-67.2
12:44	0.100	2.418	6.04	12.30	6.81	0.671	8	0.31	-67.0

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS —

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING FIELD LOG

Well No. N25C-07S
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD - GMA-1
Sampling Personnel KLB
Date 10/17/03
Weather SUNNY, 45-50°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.2' Meas. From GROUND
Well Diameter 2 inch
Screen Interval Depth 8.4-18.4' Meas. From BGS
Water Table Depth 7.51' Meas. From TIC
Well Depth 18.03' Meas. From TIC
Length of Water Column 10.52'
Volume of Water in Well 1.71 gallons
Intake Depth of pump/tubing 13.0' 14.0' Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 11:35
Sample ID N25C-07S
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time ~~10:15~~ 10:25
Pump Stop Time 11:50
Minutes of Pumping 85
Volume of water removed 2.24 gal.
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (Y)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type: MHKSCHALK SYSTEM 1
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 03C1461 A1
HACH TURBIDIMETER 020200025376

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
~~10:15~~ 10:25	0.175	—	7.51	—	—	—	19	—	—
10:35	0.100	0.2642	7.51	—	—	—	13	—	—
10:45	0.100	0.5284	7.50	12.60	6.67	1.392	10	1.95	-92.6
10:50	0.100	0.6605	7.49	12.62	6.75	1.403	8	0.79	-93.8
10:55	0.100	0.7926	7.49	12.65	6.79	1.413	6	0.56	-92.7
11:00	0.100	0.9247	7.48	12.66	6.82	1.413	5	0.54	-94.0
11:05	0.100	1.0568	7.47	12.67	6.83	1.419	5	0.42	-94.5
11:10	0.100	1.1889	7.45	12.61	6.85	1.419	4	0.36	-94.6
11:15	0.100	1.3210	7.44	12.50	6.85	1.418	3	0.27	-94.8
11:20	0.100	1.4531	7.43	12.50	6.86	1.418	2	0.29	-93.5
11:25	0.100	1.5852	7.43	12.59	6.87	1.419	2	0.32	-94.0
11:30	0.100	1.7173	7.41	12.47	6.87	1.419	2	0.31	-94.0

10:25

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
INITAL PURGE: CLEAR, COLORLESS, ODORLESS
FINAL PURGE: CLEAR, COLORLESS, ODORLESS

SAMPLE DESTINATION
Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. NS-09
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE - PITSFIELD
Sampling Personnel KLB
Date 10/16/03
Weather SUNNY, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.75 Meas. From GROUND
Well Diameter 4"
Screen Interval Depth 5-20' Meas. From GROUND
Water Table Depth 6.68' Meas. From TIC
Well Depth ~~19.55~~ → 19.83' Meas. From TIC
Length of Water Column 13.15
Volume of Water in Well 8.59 gal
Intake Depth of pump/tubing 11.75' Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time ~~NS-09~~ 10:12
Sample ID NS-09
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 9:15
Pump Stop Time 10:16
Minutes of Pumping 61
Volume of water removed 2 gal.
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type ~~GEOPROBE 2~~ GEDPUMP2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Number(s): YSI 556 03C 1461 A1
HACH TURBIDIMETER 98120001980?

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
9:15	0.100	—	6.70	—	—	—	1	—	—
9:20	0.100	0.132	6.68	—	—	—	1	—	—
9:26	0.125	0.330	6.68	13.27	6.50	0.953	0	4.61	188.4
9:31	0.125	0.495	6.67	13.23	6.53	0.963	0	0.74	179.1
9:36	0.125	0.660	6.67	13.26	6.58	0.965	0	0.50	200.7
9:41	0.125	0.825	6.67	13.33	6.61	0.967	1	0.45	189.2
9:46	0.25	0.990	6.66	13.41	6.63	0.967	0	0.35	123.0
9:51	0.150	1.188	6.65	13.40	6.63	0.968	1	0.31	79.0
9:56	0.150	1.386	6.64	13.44	6.65	0.968	1	0.29	49.0
10:01	0.150	1.545	6.63	13.47	6.65	0.967	1	0.29	44.2
10:04	0.150	1.704	6.62	13.49	6.66	0.967	1	0.28	42.0
10:08	0.150	1.962	6.62	13.53	6.66	0.967	1	0.26	41.6

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

INITIAL PURGE: CLEAR, COLORLESS, SLIGHT ODOR
FINAL PURGE: CLEAR, COLORLESS, SLIGHT ODOR

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. NS-17
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD
Sampling Personnel KLB
Date 10/15/03
Weather OVERCAST, 55°F, VERY WINDY

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 29.0" Meas. From GROUND
Well Diameter 2 in
Screen Interval Depth 6-16' Meas. From GROUND
Water Table Depth 10.17' Meas. From TIC
Well Depth 18.42' Meas. From TIC
Length of Water Column 8.15'
Volume of Water in Well 1.328
Intake Depth of pump/tubing 14.25' Meas. From TIC

Reference Point Identification
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 15:40
Sample ID NS-17
Duplicate ID DUP-2
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 14:40
Pump Stop Time ~~15:5~~ 16:02
Minutes of Pumping 82
Volume of water removed 1.6 gal
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( ) Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GEOPUMP 2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C1461 A1
HACH TURBIDIMETER 02020025376

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:40	0.125	—	10.19	—	—	—	9	—	—
14:45	0.100	0.13210	10.17	—	—	—	4	—	—
14:50	0.100	0.26420	10.17	12.76	6.67	1.456	3	9.74	-82.1
14:55	0.100	0.39630	10.17	12.66	6.70	1.465	2	0.97	-84.9
15:00	0.100	0.5284	10.17	12.68	6.73	1.466	4	0.80	-86.9
15:05	0.100	0.6605	10.15	12.65	6.75	1.467	3	0.49	-86.8
15:10	0.100	0.7926	10.15	12.58	6.76	1.471	5	0.44	-86.0
15:15	0.125	0.9577	10.14	12.59	6.77	1.472	5	0.39	-85.3
15:20	0.100	1.0898	10.13	12.57	6.78	1.473	3	0.45	-83.0
15:25	0.100	1.2219	10.11	12.56	6.78	1.474	3	0.45	-83.2
15:30	0.100	1.3540	10.10	12.60	6.79	1.473	2	0.45	-79.6
15:35	0.100	1.4861	10.09	12.63	6.79	1.473	2	0.41	-79.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS *DUPLICATE SAMPLE COLLECTED
INITIAL PURGE: LIGHT YELLOW, CLEAR, SLIGHT ODOR, SOME SOLIDS
FINAL PURGE: CLEAR, COLOR LESS, SLIGHT ODOR

SAMPLE DESTINATION
Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. NS-20
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD
Sampling Personnel KLB
Date 10/16/03
Weather PARTLY SUNNY, WINDY, 50-55°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.5 Meas. From GROUND
Well Diameter 2 inch
Screen Interval Depth 6'-16' Meas. From GROUND
Water Table Depth 6.09' Meas. From TIC
Well Depth 15.06' Meas. From TIC
Length of Water Column 8.97'
Volume of Water in Well 1.462 gal
Intake Depth of pump/tubing 11.5' Meas. From TIC

Reference Point Identification
TIC Top of Inner (PVC) casing
TOC Top of outer (protective) casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time 15:35
Sample ID NS-20
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 14:15
Pump Stop Time 15:43
Minutes of Pumping 88
Volume of water removed 2 gal
Did well go dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GEOPUMP2
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 03C1461 A1
HACH TURBIDIMETER 9812000198007

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:15	0.100	—	6.09	—	—	—	79	—	—
14:25	0.100	0.2642	6.10	—	—	—	53	—	—
14:30	0.100	0.3963	6.10	—	—	—	39	—	—
14:37	0.100	0.5284	6.11	14.55	6.33	0.383	29	1.80	135.1
14:42	0.100	0.6605	6.11	14.53	6.28	0.385	21	0.48	131.4
14:47	0.100	0.7926	6.11	14.49	6.26	0.388	21	0.41	129.4
14:52	0.100	0.9247	6.12	14.41	6.26	0.388	17	0.30	129.0
14:57	0.100	1.0568	6.12	14.19	6.24	0.388	16	0.34	130.2
15:02	0.100	1.1889	6.12	14.09	6.24	0.389	15	0.24	130.4
15:07	0.100	1.3210	6.12	13.96	6.23	0.390	12	0.22	130.3
15:12	0.100	1.4531	6.12	13.92	6.23	0.389	12	0.22	129.6
15:17	0.100	1.5852	6.12	13.87	6.23	0.390	10	0.21	129.4

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

INITIAL PURGE: LIGHT YELLOW-BROWN, TURBID, CLOUDY, ODORLESS
FINAL PURGE: LIGHT YELLOW, CLEAR, ODORLESS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill # —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

Well No. NS-20
Key No. —
PID Background (ppm) 01
Well Headspace (ppm) 0

Site/GMA Name GE PITTSFIELD
Sampling Personnel KLB
Date 10/16/03
Weather PARTLY SUNNY, WINDY, 50-55°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.5 Meas. From GROUND
Well Diameter 2 INCH
Screen Interval Depth 6-16' Meas. From GROUND
Water Table Depth 6.09' Meas. From TIC
Well Depth 15.06' Meas. From TIC
Length of Water Column 8.97'
Volume of Water in Well 1.462 gal
Intake Depth of pump/tubing 11.5 Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 15:35
Sample ID NS-20
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 14:15
Pump Stop Time 15:43
Minutes of Pumping 88 min
Volume of water removed 2 gal
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type GEOPUMP 2
Samples collected by same method as evacuation? Y N(specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 03C1461 A1
HACH TURBIDIMETER 991200019807

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
15:22	0.100	1.7173	6.12	13.83	6.22	0.389	9	0.21	129.4
15:27	0.100	1.8494	6.12	13.89	6.23	0.389	9	0.22	128.7
15:31	0.100	1.9551	6.12	13.95	6.23	0.389	8	0.20	127.5

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

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

Site/GMA Name GE PITTSFIELD - GMA-1
Sampling Personnel KLB/GAR
Date 10/17/03
Weather PARTLY SUNNY, 50°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.46' Meas. From GROUND
Well Diameter ~~11.05' - 20.55'~~ 2 inch
11.05' - 20.55' Screen Interval Depth ~~10.36'~~ Meas. From ~~AG~~ GROUND
Water Table Depth 10.36' Meas. From TIC
Well Depth 23.09' Meas. From TIC
Length of Water Column 18.33'
Volume of Water in Well 2.77 gallons
Intake Depth of pump/tubing 16.01' Meas. From TIC

Reference Point Identification
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BCS: Ground Surface

Redevelop? Y (N)

Sample Time 16:17
Sample ID NS-37
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

MERCURY - FILTERED AND UNFILTERED

EVACUATION INFORMATION

Pump Start Time 14:12
Pump Stop Time 16:30
Minutes of Pumping 138
Volume of water removed 4.25 gallons
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type: MARSCHALK SYSTEM 1
Samples collected by same method as evacuation? (Y) N(specify)

Water Quality Meter Type(s) / Serial Number: YSI 556 03C14161 A1
HACH TURBIDIMETER 02020002537G

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:12	0.100	—	10.27	-	-	-	320	-	-
14:22	0.100	0.2642	10.25	-	-	-	530	-	
14:32	0.100	0.5284	10.21	-	-	-	326	-	-
14:42	0.100	0.7926	10.20	-	-	-	194	-	-
14:52	0.100	1.0568	10.20	-	-	-	149	-	-
15:02	0.100	1.3210	10.18	-	-	-	123	-	-
15:12	0.100	1.5852	10.19	-	-	-	94	-	-
15:22	0.100	1.8494	10.18	-	-	-	59	-	-
15:32	0.100	2.1136	10.19	-	-	-	55	-	-
15:37	0.100	2.2457	10.19	-	-	-	48	-	-
15:44	0.100	2.3514	10.16	14.78	6.50	1.261	43	2.45	93.4
15:48	0.100	2.4570	10.18	14.75	6.49	1.271	40	0.82	89.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS
INITIAL PURGE: ORANGE-BROWN, TURBID, ODORLESS, SLIGHT SHEEN
FINAL PURGE: LIGHT YELLOW

SAMPLE DESTINATION
Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING FIELD LOG

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

Site/GMA Name G.E. Pittsfield - GMA-1
Sampling Personnel KLB/GAR
Date 10/17/03
Weather Partly sunny, 50°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.46' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 11.05'-20.5' Meas. From Ground
Water Table Depth 10.36' Meas. From TIC
Well Depth 23.69' Meas. From TIC
Length of Water Column 13.33'
Volume of Water in Well 2.17 gallons
Intake Depth of pump/tubing 16.0' Meas. From TIC

Reference Point Identification:
TIC: Top of Inner (PVC) casing
TOC: Top of outer (protective) casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

Sample Time 16:17
Sample ID NS-37
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp.list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorg. (Total)	( )
( )	Metals/Inorg. (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pest/Herb	( )
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Mercury - Filtered + unfiltered

EVACUATION INFORMATION

Pump Start Time 14:12
Pump Stop Time 16:30
Minutes of Pumping 138
Volume of water removed 4.25 gallons
Did well go dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type:
Samples collected by same method as evacuation? Y N(specify)

Water Quality Meter Type(s) / Serial Numbers:

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celcius) (3%)*	pH (0.1 units)*	Sp. Cond. (mS/cm) (3%)*	Turbidity (NTU) (10% or 1 NTU)*	DO (mg/l) (10%)*	ORP (mV) (10 mV)*
15:52	0.100	2.563	10.18	14.70	6.49	1.286	35	0.62	88.4
15:56	0.100	2.668	10.18	14.34	6.49	1.288	34	0.58	88.6
16:00	0.100	2.774	10.18	14.73	6.49	1.289	34	0.50	89.2
16:03	0.100	2.878	10.17	14.65	6.49	1.289	32	0.47	89.7
16:06	0.100	2.985	10.17	14.62	6.49	1.290	30	0.49	90.1
16:09	0.100	3.091	10.17	14.61	6.49	1.289	28	0.46	90.2
16:12	0.100	3.197	10.18	14.59	6.49	1.290	29	0.46	91.1

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

Appendix C

Groundwater Analytical Results

BBL®
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engineers & scientists

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	East St. Area 2 - North			East St. Area 2 - South		
Sample ID:	A-7	ES1-05	GMA1-4	GMA1-13	HR-G1-MW-3	HR-G3-MW-1
Parameter / Date Collected:	10/09/03	10/10/03	10/09/03	10/15/03	10/16/03	10/16/03
Volatile Organics						
1,1,1,2-Tetrachloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,1,1-Trichloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,1,2,2-Tetrachloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,1,2-Trichloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,1-Dichloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,1-Dichloroethene	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA	NA
1,2,3-Trichloropropane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,2-Dibromo-3-chloropropane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050) J	NA	NA
1,2-Dibromoethane	ND(0.0010)	NA	ND(0.0010)	ND(0.0010)	NA	NA
1,2-Dichloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,2-Dichloropropane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
1,4-Dioxane	ND(0.20) J	NA	ND(0.20) J	ND(0.20) J	NA	NA
2-Butanone	ND(0.010) J	NA	ND(0.010) J	ND(0.010) J	NA	NA
2-Chloro-1,3-butadiene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
2-Chloroethylvinylether	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
2-Hexanone	ND(0.010)	NA	ND(0.010)	ND(0.010)	NA	NA
3-Chloropropene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
4-Methyl-2-pentanone	ND(0.010)	NA	ND(0.010)	ND(0.010)	NA	NA
Acetone	ND(0.010)	NA	ND(0.010)	ND(0.010)	NA	NA
Acetonitrile	ND(0.10) J	NA	ND(0.10) J	ND(0.10) J	NA	NA
Acrolein	ND(0.10)	NA	ND(0.10)	ND(0.10)	NA	NA
Acrylonitrile	ND(0.0050)	NA	ND(0.0050)	ND(0.0050) J	NA	NA
Benzene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Bromodichloromethane	ND(0.0050)	NA	0.00089 J	ND(0.0050)	NA	NA
Bromoform	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Bromomethane	ND(0.0020)	NA	ND(0.0020)	ND(0.0020)	NA	NA
Carbon Disulfide	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Carbon Tetrachloride	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Chlorobenzene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Chloroethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Chloroform	ND(0.0050)	NA	0.0089	ND(0.0050)	NA	NA
Chloromethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
cis-1,3-Dichloropropene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Dibromochloromethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Dibromomethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Dichlorodifluoromethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Ethyl Methacrylate	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Ethylbenzene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Iodomethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Isobutanol	ND(0.10) J	NA	ND(0.10) J	ND(0.10) J	NA	NA
Methacrylonitrile	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Methyl Methacrylate	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Methylene Chloride	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Propionitrile	ND(0.010)	NA	ND(0.010)	ND(0.010)	NA	NA
Styrene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Tetrachloroethene	ND(0.0020)	NA	ND(0.0020)	ND(0.0020)	NA	NA
Toluene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
trans-1,2-Dichloroethene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
trans-1,3-Dichloropropene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
trans-1,4-Dichloro-2-butene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Trichloroethene	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Trichlorofluoromethane	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Vinyl Acetate	ND(0.0050)	NA	ND(0.0050)	ND(0.0050)	NA	NA
Vinyl Chloride	ND(0.0020)	NA	ND(0.0020)	ND(0.0020)	NA	NA
Xylenes (total)	ND(0.010)	NA	ND(0.010)	ND(0.010)	NA	NA
Total VOCs	ND(0.20)	NA	0.0098 J	ND(0.20)	NA	NA
PCBs-Unfiltered						
Aroclor-1016	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1221	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1232	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1242	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1248	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1254	NA	NA	NA	0.000070	NA	NA
Aroclor-1260	NA	NA	NA	ND(0.000065)	NA	NA
Total PCBs	NA	NA	NA	0.000070	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	East St. Area 2 - North			East St. Area 2 - South		
Sample ID:	A-7	ES1-05	GMA1-4	GMA1-13	HR-G1-MW-3	HR-G3-MW-1
Parameter / Date Collected:	10/09/03	10/10/03	10/09/03	10/15/03	10/16/03	10/16/03
PCBs-Filtered						
Aroclor-1016	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1221	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1232	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1242	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1248	NA	NA	NA	ND(0.000065)	NA	NA
Aroclor-1254	NA	NA	NA	0.000071	NA	NA
Aroclor-1260	NA	NA	NA	ND(0.000065)	NA	NA
Total PCBs	NA	NA	NA	0.000071	NA	NA
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	ND(0.010)	NA	NA
1,2,4-Trichlorobenzene	ND(0.0050)	NA	ND(0.0050)	ND(0.010)	NA	NA
1,2-Dichlorobenzene	ND(0.0050)	NA	ND(0.0050)	ND(0.010)	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	ND(0.010)	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	ND(0.010) J	NA	NA
1,3-Dichlorobenzene	ND(0.0050)	NA	ND(0.0050)	ND(0.010)	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	ND(0.010) J	NA	NA
1,4-Dichlorobenzene	ND(0.0050)	NA	ND(0.0050)	ND(0.010)	NA	NA
1,4-Naphthoquinone	NA	NA	NA	ND(0.010)	NA	NA
1-Naphthylamine	NA	NA	NA	ND(0.010)	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	ND(0.010)	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	ND(0.010)	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	ND(0.010)	NA	NA
2,4-Dichlorophenol	NA	NA	NA	ND(0.010)	NA	NA
2,4-Dimethylphenol	NA	NA	NA	ND(0.010)	NA	NA
2,4-Dinitrophenol	NA	NA	NA	ND(0.050)	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	ND(0.010)	NA	NA
2,6-Dichlorophenol	NA	NA	NA	ND(0.010)	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	ND(0.010)	NA	NA
2-Acetylaminofluorene	NA	NA	NA	ND(0.010)	NA	NA
2-Chloronaphthalene	NA	NA	NA	ND(0.010)	NA	NA
2-Chlorophenol	NA	NA	NA	ND(0.010)	NA	NA
2-Methylnaphthalene	NA	NA	NA	ND(0.010)	NA	NA
2-Methylphenol	NA	NA	NA	ND(0.010)	NA	NA
2-Naphthylamine	NA	NA	NA	ND(0.010)	NA	NA
2-Nitroaniline	NA	NA	NA	ND(0.050) J	NA	NA
2-Nitrophenol	NA	NA	NA	ND(0.010)	NA	NA
2-Picoline	NA	NA	NA	ND(0.010)	NA	NA
3&4-Methylphenol	NA	NA	NA	ND(0.010)	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	ND(0.020)	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	ND(0.010) J	NA	NA
3-Methylcholanthrene	NA	NA	NA	ND(0.010)	NA	NA
3-Nitroaniline	NA	NA	NA	ND(0.050)	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	ND(0.050)	NA	NA
4-Aminobiphenyl	NA	NA	NA	ND(0.010)	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	ND(0.010)	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	ND(0.010)	NA	NA
4-Chloroaniline	NA	NA	NA	ND(0.010)	NA	NA
4-Chlorobenzilate	NA	NA	NA	ND(0.010) J	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	ND(0.010)	NA	NA
4-Nitroaniline	NA	NA	NA	ND(0.050)	NA	NA
4-Nitrophenol	NA	NA	NA	ND(0.050) J	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	ND(0.010) J	NA	NA
4-Phenylenediamine	NA	NA	NA	ND(0.010)	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	ND(0.010)	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	ND(0.010)	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	ND(0.010)	NA	NA
Acenaphthene	NA	NA	NA	ND(0.010)	NA	NA
Acenaphthylene	NA	NA	NA	ND(0.010)	NA	NA
Acetophenone	NA	NA	NA	ND(0.010)	NA	NA
Aniline	NA	NA	NA	ND(0.010)	NA	NA
Anthracene	NA	NA	NA	ND(0.010)	NA	NA
Aramite	NA	NA	NA	ND(0.010) J	NA	NA
Benzidine	NA	NA	NA	ND(0.020) J	NA	NA
Benzo(a)anthracene	NA	NA	NA	ND(0.010)	NA	NA
Benzo(a)pyrene	NA	NA	NA	ND(0.010)	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	ND(0.010)	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	ND(0.010)	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	East St. Area 2 - North			East St. Area 2 - South		
Sample ID:	A-7	ES1-05	GMA1-4	GMA1-13	HR-G1-MW-3	HR-G3-MW-1
Parameter / Date Collected:	10/09/03	10/10/03	10/09/03	10/15/03	10/16/03	10/16/03
Semivolatile Organics (continued)						
Benzo(k)fluoranthene	NA	NA	NA	ND(0.010)	NA	NA
Benzyl Alcohol	NA	NA	NA	ND(0.020)	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	ND(0.010)	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	ND(0.010)	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	ND(0.010) J	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	ND(0.0060)	NA	NA
Butylbenzylphthalate	NA	NA	NA	ND(0.010)	NA	NA
Chrysene	NA	NA	NA	ND(0.010)	NA	NA
Diallate	NA	NA	NA	ND(0.010)	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	ND(0.010)	NA	NA
Dibenzofuran	NA	NA	NA	ND(0.010)	NA	NA
Diethylphthalate	NA	NA	NA	ND(0.010)	NA	NA
Dimethylphthalate	NA	NA	NA	ND(0.010)	NA	NA
Di-n-Butylphthalate	NA	NA	NA	ND(0.010)	NA	NA
Di-n-Octylphthalate	NA	NA	NA	ND(0.010)	NA	NA
Diphenylamine	NA	NA	NA	ND(0.010)	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	ND(0.010)	NA	NA
Fluoranthene	NA	NA	NA	ND(0.010)	NA	NA
Fluorene	NA	NA	NA	ND(0.010)	NA	NA
Hexachlorobenzene	NA	NA	NA	ND(0.010)	NA	NA
Hexachlorobutadiene	NA	NA	NA	ND(0.0010)	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	ND(0.010) J	NA	NA
Hexachloroethane	NA	NA	NA	ND(0.010)	NA	NA
Hexachlorophene	NA	NA	NA	ND(0.020) J	NA	NA
Hexachloropropene	NA	NA	NA	ND(0.010)	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	ND(0.010)	NA	NA
Isodrin	NA	NA	NA	ND(0.010)	NA	NA
Isophorone	NA	NA	NA	ND(0.010)	NA	NA
Isosafrole	NA	NA	NA	ND(0.010)	NA	NA
Methapyrilene	NA	NA	NA	ND(0.010)	NA	NA
Methyl Methanesulfonate	NA	NA	NA	ND(0.010)	NA	NA
Naphthalene	ND(0.0050)	NA	ND(0.0050)	ND(0.010)	NA	NA
Nitrobenzene	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosomorpholine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosopiperidine	NA	NA	NA	ND(0.010)	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	ND(0.010)	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	ND(0.010)	NA	NA
o-Toluidine	NA	NA	NA	ND(0.010)	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	ND(0.010)	NA	NA
Pentachlorobenzene	NA	NA	NA	ND(0.010)	NA	NA
Pentachloroethane	NA	NA	NA	ND(0.010)	NA	NA
Pentachloronitrobenzene	NA	NA	NA	ND(0.010)	NA	NA
Pentachlorophenol	NA	NA	NA	ND(0.050)	NA	NA
Phenacetin	NA	NA	NA	ND(0.010)	NA	NA
Phenanthrene	NA	NA	NA	ND(0.010)	NA	NA
Phenol	NA	NA	NA	ND(0.010)	NA	NA
Pronamide	NA	NA	NA	ND(0.010)	NA	NA
Pyrene	NA	NA	NA	ND(0.010)	NA	NA
Pyridine	NA	NA	NA	ND(0.010)	NA	NA
Safrole	NA	NA	NA	ND(0.010)	NA	NA
Thionazin	NA	NA	NA	ND(0.010)	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	East St. Area 2 - North			East St. Area 2 - South		
Sample ID:	A-7	ES1-05	GMA1-4	GMA1-13	HR-G1-MW-3	HR-G3-MW-1
Parameter / Date Collected:	10/09/03	10/10/03	10/09/03	10/15/03	10/16/03	10/16/03
Furans						
2,3,7,8-TCDF	NA	NA	NA	ND(0.0000000011)	NA	NA
TCDFs (total)	NA	NA	NA	ND(0.0000000011)	NA	NA
1,2,3,7,8-PeCDF	NA	NA	NA	ND(0.00000000082) X	NA	NA
2,3,4,7,8-PeCDF	NA	NA	NA	ND(0.00000000070)	NA	NA
PeCDFs (total)	NA	NA	NA	ND(0.00000000070)	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	ND(0.0000000025)	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	ND(0.0000000025)	NA	NA
HxCDFs (total)	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	ND(0.0000000025)	NA	NA
HpCDFs (total)	NA	NA	NA	ND(0.0000000025)	NA	NA
OCDF	NA	NA	NA	ND(0.0000000050)	NA	NA
Dioxins						
2,3,7,8-TCDD	NA	NA	NA	ND(0.0000000018)	NA	NA
TCDDs (total)	NA	NA	NA	ND(0.0000000033)	NA	NA
1,2,3,7,8-PeCDD	NA	NA	NA	ND(0.0000000025)	NA	NA
PeCDDs (total)	NA	NA	NA	0.00000000092	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	ND(0.0000000025)	NA	NA
HxCDDs (total)	NA	NA	NA	ND(0.0000000025)	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	0.0000000018 J	NA	NA
HpCDDs (total)	NA	NA	NA	ND(0.0000000018)	NA	NA
OCDD	NA	NA	NA	ND(0.000000012) X	NA	NA
Total TEQs (WHO TEFs)	NA	NA	NA	0.0000000033	NA	NA
Inorganics-Unfiltered						
Antimony	NA	NA	NA	0.0120 B	NA	NA
Arsenic	NA	NA	NA	ND(0.0100)	NA	NA
Barium	NA	NA	NA	0.00880 B	NA	NA
Beryllium	NA	NA	NA	0.00110	NA	NA
Cadmium	NA	NA	NA	0.00130 B	NA	NA
Chromium	NA	NA	NA	ND(0.0100)	NA	NA
Cobalt	NA	NA	NA	ND(0.0500)	NA	NA
Copper	NA	NA	NA	ND(0.025)	NA	NA
Cyanide	NA	NA	NA	ND(0.0100)	NA	NA
Lead	NA	NA	NA	ND(0.00300)	NA	NA
Mercury	NA	ND(0.000200)	NA	ND(0.000200)	ND(0.000200)	ND(0.000200)
Nickel	NA	NA	NA	ND(0.0400)	NA	NA
Selenium	NA	NA	NA	0.00910	NA	NA
Silver	NA	NA	NA	ND(0.0050)	NA	NA
Sulfide	NA	NA	NA	ND(5.00)	NA	NA
Thallium	NA	NA	NA	ND(0.0100)	NA	NA
Tin	NA	NA	NA	ND(0.0300)	NA	NA
Vanadium	NA	NA	NA	ND(0.0500)	NA	NA
Zinc	NA	NA	NA	0.00580 B	NA	NA
Inorganics-Filtered						
Antimony	NA	NA	NA	ND(0.0600)	NA	NA
Arsenic	NA	NA	NA	ND(0.0100)	NA	NA
Barium	NA	NA	NA	0.00880 B	NA	NA
Beryllium	NA	NA	NA	ND(0.0010)	NA	NA
Cadmium	NA	NA	NA	ND(0.00500)	NA	NA
Chromium	NA	NA	NA	0.00140 B	NA	NA
Cobalt	NA	NA	NA	ND(0.0500)	NA	NA
Copper	NA	NA	NA	ND(0.025)	NA	NA
Cyanide	NA	NA	NA	ND(0.0100)	NA	NA
Lead	NA	NA	NA	ND(0.00300)	NA	NA
Mercury	NA	ND(0.000200)	NA	ND(0.000200)	ND(0.000200)	ND(0.000200)
Nickel	NA	NA	NA	ND(0.0400)	NA	NA
Selenium	NA	NA	NA	ND(0.00500)	NA	NA
Silver	NA	NA	NA	ND(0.0050)	NA	NA
Thallium	NA	NA	NA	ND(0.0100)	NA	NA
Tin	NA	NA	NA	ND(0.0300)	NA	NA
Vanadium	NA	NA	NA	ND(0.0500)	NA	NA
Zinc	NA	NA	NA	ND(0.020)	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Lyman Street Area					Newell St. Area II
Sample ID:	B-2	E-07	LS-29	LS-MW-3R	LS-MW-6R	GMA1-9
Parameter / Date Collected:	10/09/03	10/09/03	10/13/03	10/13/03	10/09/03	10/16/03
Volatile Organics						
1,1,1,2-Tetrachloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,1,1-Trichloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,1,2-Trichloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,1-Dichloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,1-Dichloroethene	NA	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NA	NA
1,2,3-Trichloropropane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	NA	NA
1,2-Dibromoethane	NA	NA	ND(0.0010)	ND(0.0010) [ND(0.0010)]	NA	NA
1,2-Dichloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,2-Dichloropropane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
1,4-Dioxane	NA	NA	ND(0.20) J	ND(0.20) J [ND(0.20) J]	NA	NA
2-Butanone	NA	NA	ND(0.010) J	ND(0.010) J [ND(0.010) J]	NA	NA
2-Chloro-1,3-butadiene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
2-Chloroethylvinylether	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
2-Hexanone	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]	NA	NA
3-Chloropropene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
4-Methyl-2-pentanone	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]	NA	NA
Acetone	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]	NA	NA
Acetonitrile	NA	NA	ND(0.10) J	ND(0.10) J [ND(0.10) J]	NA	NA
Acrolein	NA	NA	ND(0.10)	ND(0.10) [ND(0.10)]	NA	NA
Acrylonitrile	NA	NA	ND(0.0050) J	ND(0.0050) J [ND(0.0050) J]	NA	NA
Benzene	NA	NA	ND(0.0050)	0.0034 J [0.00064 J]	NA	NA
Bromodichloromethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Bromoform	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Bromomethane	NA	NA	ND(0.0020)	ND(0.0020) [ND(0.0020)]	NA	NA
Carbon Disulfide	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Carbon Tetrachloride	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Chlorobenzene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Chloroethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Chloroform	NA	NA	0.00094 J	ND(0.0050) [ND(0.0050)]	NA	NA
Chloromethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
cis-1,3-Dichloropropene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Dibromochloromethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Dibromomethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Dichlorodifluoromethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Ethyl Methacrylate	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Ethylbenzene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Iodomethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Isobutanol	NA	NA	ND(0.10) J	ND(0.10) J [ND(0.10) J]	NA	NA
Methacrylonitrile	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Methyl Methacrylate	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Methylene Chloride	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Propionitrile	NA	NA	ND(0.010)	ND(0.010) [ND(0.010)]	NA	NA
Styrene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Tetrachloroethene	NA	NA	0.0034	ND(0.0020) [ND(0.0020)]	NA	NA
Toluene	NA	NA	ND(0.0050)	0.00091 J [ND(0.0050)]	NA	NA
trans-1,2-Dichloroethene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
trans-1,3-Dichloropropene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Trichloroethene	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Trichlorofluoromethane	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Vinyl Acetate	NA	NA	ND(0.0050)	ND(0.0050) [ND(0.0050)]	NA	NA
Vinyl Chloride	NA	NA	ND(0.0020)	ND(0.0020) [ND(0.0020)]	NA	NA
Xylenes (total)	NA	NA	ND(0.010)	0.0040 J [0.00061 J]	NA	NA
Total VOCs	NA	NA	0.0043 J	0.019 J [0.0033 J]	NA	NA
PCBs-Unfiltered						
Aroclor-1016	NA	NA	ND(0.00025)	NA	NA	NA
Aroclor-1221	NA	NA	ND(0.00025)	NA	NA	NA
Aroclor-1232	NA	NA	ND(0.00025)	NA	NA	NA
Aroclor-1242	NA	NA	ND(0.00025)	NA	NA	NA
Aroclor-1248	NA	NA	ND(0.00025)	NA	NA	NA
Aroclor-1254	NA	NA	0.0023	NA	NA	NA
Aroclor-1260	NA	NA	ND(0.00025)	NA	NA	NA
Total PCBs	NA	NA	0.0023	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Lyman Street Area					Newell St. Area II
Sample ID:	B-2	E-07	LS-29	LS-MW-3R	LS-MW-6R	GMA1-9
Parameter / Date Collected:	10/09/03	10/09/03	10/13/03	10/13/03	10/09/03	10/16/03
PCBs-Filtered						
Aroclor-1016	NA	NA	ND(0.000065)	NA	NA	NA
Aroclor-1221	NA	NA	ND(0.000065)	NA	NA	NA
Aroclor-1232	NA	NA	ND(0.000065)	NA	NA	NA
Aroclor-1242	NA	NA	ND(0.000065)	NA	NA	NA
Aroclor-1248	NA	NA	ND(0.000065)	NA	NA	NA
Aroclor-1254	NA	NA	0.00056	NA	NA	NA
Aroclor-1260	NA	NA	ND(0.000065)	NA	NA	NA
Total PCBs	NA	NA	0.00056	NA	NA	NA
Semivolatile Organics						
1,2,4,5-Tetrachlorobenzene	NA	NA	ND(0.010)	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	ND(0.010)	ND(0.0050) [ND(0.0050)]	NA	NA
1,2-Dichlorobenzene	NA	NA	ND(0.010)	ND(0.0050) [ND(0.0050)]	NA	NA
1,2-Diphenylhydrazine	NA	NA	ND(0.010)	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	ND(0.010) J	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	ND(0.010)	ND(0.0050) [ND(0.0050)]	NA	NA
1,3-Dinitrobenzene	NA	NA	ND(0.010) J	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	ND(0.010)	ND(0.0050) [ND(0.0050)]	NA	NA
1,4-Naphthoquinone	NA	NA	ND(0.010)	NA	NA	NA
1-Naphthylamine	NA	NA	ND(0.010)	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	ND(0.010)	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	ND(0.010)	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	ND(0.010)	NA	NA	NA
2,4-Dichlorophenol	NA	NA	ND(0.010)	NA	NA	NA
2,4-Dimethylphenol	NA	NA	ND(0.010)	NA	NA	NA
2,4-Dinitrophenol	NA	NA	ND(0.050)	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	ND(0.010)	NA	NA	NA
2,6-Dichlorophenol	NA	NA	ND(0.010)	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	ND(0.010)	NA	NA	NA
2-Acetylaminofluorene	NA	NA	ND(0.010)	NA	NA	NA
2-Chloronaphthalene	NA	NA	ND(0.010)	NA	NA	NA
2-Chlorophenol	NA	NA	ND(0.010)	NA	NA	NA
2-Methylnaphthalene	NA	NA	ND(0.010)	NA	NA	NA
2-Methylphenol	NA	NA	ND(0.010)	NA	NA	NA
2-Naphthylamine	NA	NA	ND(0.010)	NA	NA	NA
2-Nitroaniline	NA	NA	ND(0.050) J	NA	NA	NA
2-Nitrophenol	NA	NA	ND(0.010)	NA	NA	NA
2-Picoline	NA	NA	ND(0.010)	NA	NA	NA
3&4-Methylphenol	NA	NA	ND(0.010)	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	ND(0.020)	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	ND(0.010) J	NA	NA	NA
3-Methylcholanthrene	NA	NA	ND(0.010)	NA	NA	NA
3-Nitroaniline	NA	NA	ND(0.050)	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	ND(0.050)	NA	NA	NA
4-Aminobiphenyl	NA	NA	ND(0.010)	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	ND(0.010)	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	ND(0.010)	NA	NA	NA
4-Chloroaniline	NA	NA	ND(0.010)	NA	NA	NA
4-Chlorobenzilate	NA	NA	ND(0.010) J	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	ND(0.010)	NA	NA	NA
4-Nitroaniline	NA	NA	ND(0.050)	NA	NA	NA
4-Nitrophenol	NA	NA	ND(0.050)	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	ND(0.010) J	NA	NA	NA
4-Phenylenediamine	NA	NA	ND(0.010)	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	ND(0.010)	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	ND(0.010)	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	ND(0.010)	NA	NA	NA
Acenaphthene	NA	NA	ND(0.010)	NA	NA	NA
Acenaphthylene	NA	NA	ND(0.010)	NA	NA	NA
Acetophenone	NA	NA	ND(0.010)	NA	NA	NA
Aniline	NA	NA	ND(0.010)	NA	NA	NA
Anthracene	NA	NA	ND(0.010)	NA	NA	NA
Aramite	NA	NA	ND(0.010) J	NA	NA	NA
Benzidine	NA	NA	ND(0.020) J	NA	NA	NA
Benzo(a)anthracene	NA	NA	ND(0.010)	NA	NA	NA
Benzo(a)pyrene	NA	NA	ND(0.010)	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	ND(0.010)	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	ND(0.010)	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Lyman Street Area					Newell St. Area II
Sample ID:	B-2	E-07	LS-29	LS-MW-3R	LS-MW-6R	GMA1-9
Parameter / Date Collected:	10/09/03	10/09/03	10/13/03	10/13/03	10/09/03	10/16/03
Semivolatile Organics (continued)						
Benzo(k)fluoranthene	NA	NA	ND(0.010)	NA	NA	NA
Benzyl Alcohol	NA	NA	ND(0.020)	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	ND(0.010)	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	ND(0.010)	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	ND(0.010) J	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	ND(0.0060)	NA	NA	NA
Butylbenzylphthalate	NA	NA	ND(0.010)	NA	NA	NA
Chrysene	NA	NA	ND(0.010)	NA	NA	NA
Diallate	NA	NA	ND(0.010)	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	ND(0.010)	NA	NA	NA
Dibenzofuran	NA	NA	ND(0.010)	NA	NA	NA
Diethylphthalate	NA	NA	ND(0.010)	NA	NA	NA
Dimethylphthalate	NA	NA	ND(0.010)	NA	NA	NA
Di-n-Butylphthalate	NA	NA	ND(0.010)	NA	NA	NA
Di-n-Octylphthalate	NA	NA	ND(0.010)	NA	NA	NA
Diphenylamine	NA	NA	ND(0.010)	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	ND(0.010)	NA	NA	NA
Fluoranthene	NA	NA	ND(0.010)	NA	NA	NA
Fluorene	NA	NA	ND(0.010)	NA	NA	NA
Hexachlorobenzene	NA	NA	ND(0.010)	NA	NA	NA
Hexachlorobutadiene	NA	NA	ND(0.0010)	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	ND(0.010)	NA	NA	NA
Hexachloroethane	NA	NA	ND(0.010)	NA	NA	NA
Hexachlorophene	NA	NA	ND(0.020) J	NA	NA	NA
Hexachloropropene	NA	NA	ND(0.010)	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	ND(0.010)	NA	NA	NA
Isodrin	NA	NA	ND(0.010)	NA	NA	NA
Isophorone	NA	NA	ND(0.010)	NA	NA	NA
Isosafrole	NA	NA	ND(0.010)	NA	NA	NA
Methapyrilene	NA	NA	ND(0.010)	NA	NA	NA
Methyl Methanesulfonate	NA	NA	ND(0.010)	NA	NA	NA
Naphthalene	NA	NA	ND(0.010)	0.011 J [0.0020 J]	NA	NA
Nitrobenzene	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosomorpholine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosopiperidine	NA	NA	ND(0.010)	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	ND(0.010)	NA	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	ND(0.010)	NA	NA	NA
o-Toluidine	NA	NA	ND(0.010)	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	ND(0.010)	NA	NA	NA
Pentachlorobenzene	NA	NA	ND(0.010)	NA	NA	NA
Pentachloroethane	NA	NA	ND(0.010)	NA	NA	NA
Pentachloronitrobenzene	NA	NA	ND(0.010)	NA	NA	NA
Pentachlorophenol	NA	NA	ND(0.050)	NA	NA	NA
Phenacetin	NA	NA	ND(0.010)	NA	NA	NA
Phenanthrene	NA	NA	ND(0.010)	NA	NA	NA
Phenol	NA	NA	ND(0.010)	NA	NA	NA
Pronamide	NA	NA	ND(0.010)	NA	NA	NA
Pyrene	NA	NA	ND(0.010)	NA	NA	NA
Pyridine	NA	NA	ND(0.010)	NA	NA	NA
Safrole	NA	NA	ND(0.010)	NA	NA	NA
Thionazin	NA	NA	ND(0.010)	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Lyman Street Area					Newell St. Area II
Sample ID:	B-2	E-07	LS-29	LS-MW-3R	LS-MW-6R	GMA1-9
Parameter / Date Collected:	10/09/03	10/09/03	10/13/03	10/13/03	10/09/03	10/16/03
Furans						
2,3,7,8-TCDF	NA	NA	ND(0.0000000019)	NA	NA	NA
TCDFs (total)	NA	NA	ND(0.0000000019)	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	ND(0.0000000014) X	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	ND(0.0000000038) X	NA	NA	NA
PeCDFs (total)	NA	NA	0.0000000062	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	0.0000000064 J	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	ND(0.0000000029) X	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	ND(0.0000000021) X	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	0.0000000022 J	NA	NA	NA
HxCDFs (total)	NA	NA	0.000000017	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	ND(0.0000000026)	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	ND(0.0000000035)	NA	NA	NA
HpCDFs (total)	NA	NA	0.0000000046	NA	NA	NA
OCDF	NA	NA	ND(0.000000011)	NA	NA	NA
Dioxins						
2,3,7,8-TCDD	NA	NA	ND(0.0000000018)	NA	NA	NA
TCDDs (total)	NA	NA	ND(0.0000000021)	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	ND(0.0000000025)	NA	NA	NA
PeCDDs (total)	NA	NA	ND(0.0000000025)	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	ND(0.0000000050)	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	ND(0.0000000044)	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	ND(0.0000000050)	NA	NA	NA
HxCDDs (total)	NA	NA	ND(0.0000000048)	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	ND(0.0000000054)	NA	NA	NA
HpCDDs (total)	NA	NA	ND(0.0000000054)	NA	NA	NA
OCDD	NA	NA	0.000000011 J	NA	NA	NA
Total TEQs (WHO TEFs)	NA	NA	0.0000000051	NA	NA	NA
Inorganics-Unfiltered						
Antimony	NA	NA	ND(0.0600)	NA	NA	NA
Arsenic	NA	NA	ND(0.0100) J	NA	NA	NA
Barium	NA	NA	0.00730 B	NA	NA	NA
Beryllium	NA	NA	ND(0.20)	NA	NA	NA
Cadmium	NA	NA	ND(0.00500)	NA	NA	NA
Chromium	NA	NA	ND(0.0100)	NA	NA	NA
Cobalt	NA	NA	ND(0.0500)	NA	NA	NA
Copper	NA	NA	ND(0.025)	NA	NA	NA
Cyanide	NA	NA	ND(0.0100)	NA	NA	NA
Lead	NA	NA	0.00250 J	NA	NA	NA
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200)	NA	ND(0.000200)	ND(0.000200)
Nickel	NA	NA	ND(0.0400)	NA	NA	NA
Selenium	NA	NA	ND(0.00500) J	NA	NA	NA
Silver	NA	NA	ND(0.00500)	NA	NA	NA
Sulfide	NA	NA	ND(5.00)	NA	NA	NA
Thallium	NA	NA	ND(0.0100) J	NA	NA	NA
Tin	NA	NA	ND(0.0300)	NA	NA	NA
Vanadium	NA	NA	ND(0.0500)	NA	NA	NA
Zinc	NA	NA	ND(0.0200) J	NA	NA	NA
Inorganics-Filtered						
Antimony	NA	NA	ND(0.0600)	NA	NA	NA
Arsenic	NA	NA	ND(0.0100) J	NA	NA	NA
Barium	NA	NA	0.00700 B	NA	NA	NA
Beryllium	NA	NA	ND(0.00100)	NA	NA	NA
Cadmium	NA	NA	ND(0.00500)	NA	NA	NA
Chromium	NA	NA	ND(0.0100)	NA	NA	NA
Cobalt	NA	NA	ND(0.0500)	NA	NA	NA
Copper	NA	NA	ND(0.0250)	NA	NA	NA
Cyanide	NA	NA	ND(0.0100)	NA	NA	NA
Lead	NA	NA	ND(0.00300) J	NA	NA	NA
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200)	NA	ND(0.000200)	ND(0.000200)
Nickel	NA	NA	ND(0.0400)	NA	NA	NA
Selenium	NA	NA	ND(0.00500) J	NA	NA	NA
Silver	NA	NA	ND(0.00500)	NA	NA	NA
Thallium	NA	NA	ND(0.0100) J	NA	NA	NA
Tin	NA	NA	ND(0.0300)	NA	NA	NA
Vanadium	NA	NA	ND(0.0500)	NA	NA	NA
Zinc	NA	NA	ND(0.020)	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Newell St. Area II				
Sample ID:	N2SC-07S	NS-09	NS-17	NS-20	NS-37
Parameter / Date Collected:	10/17/03	10/16/03	10/15/03	10/16/03	10/17/03
Volatile Organics					
1,1,1,2-Tetrachloroethane	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	NA	NA	NA	NA	NA
1,1-Dichloroethane	NA	NA	NA	NA	NA
1,1-Dichloroethene	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	NA	NA	NA	NA	NA
1,2-Dibromoethane	NA	NA	NA	NA	NA
1,2-Dichloroethane	NA	NA	NA	NA	NA
1,2-Dichloropropane	NA	NA	NA	NA	NA
1,4-Dioxane	NA	NA	NA	NA	NA
2-Butanone	NA	NA	NA	NA	NA
2-Chloro-1,3-butadiene	NA	NA	NA	NA	NA
2-Chloroethylvinylether	NA	NA	NA	NA	NA
2-Hexanone	NA	NA	NA	NA	NA
3-Chloropropene	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	NA	NA	NA	NA	NA
Acetone	NA	NA	NA	NA	NA
Acetonitrile	NA	NA	NA	NA	NA
Acrolein	NA	NA	NA	NA	NA
Acrylonitrile	NA	NA	NA	NA	NA
Benzene	NA	NA	NA	NA	NA
Bromodichloromethane	NA	NA	NA	NA	NA
Bromoform	NA	NA	NA	NA	NA
Bromomethane	NA	NA	NA	NA	NA
Carbon Disulfide	NA	NA	NA	NA	NA
Carbon Tetrachloride	NA	NA	NA	NA	NA
Chlorobenzene	NA	NA	NA	NA	NA
Chloroethane	NA	NA	NA	NA	NA
Chloroform	NA	NA	NA	NA	NA
Chloromethane	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA
Dibromochloromethane	NA	NA	NA	NA	NA
Dibromomethane	NA	NA	NA	NA	NA
Dichlorodifluoromethane	NA	NA	NA	NA	NA
Ethyl Methacrylate	NA	NA	NA	NA	NA
Ethylbenzene	NA	NA	NA	NA	NA
Iodomethane	NA	NA	NA	NA	NA
Isobutanol	NA	NA	NA	NA	NA
Methacrylonitrile	NA	NA	NA	NA	NA
Methyl Methacrylate	NA	NA	NA	NA	NA
Methylene Chloride	NA	NA	NA	NA	NA
Propionitrile	NA	NA	NA	NA	NA
Styrene	NA	NA	NA	NA	NA
Tetrachloroethene	NA	NA	NA	NA	NA
Toluene	NA	NA	NA	NA	NA
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA
Trichloroethene	NA	NA	NA	NA	NA
Trichlorofluoromethane	NA	NA	NA	NA	NA
Vinyl Acetate	NA	NA	NA	NA	NA
Vinyl Chloride	NA	NA	NA	NA	NA
Xylenes (total)	NA	NA	NA	NA	NA
Total VOCs	NA	NA	NA	NA	NA
PCBs-Unfiltered					
Aroclor-1016	NA	NA	NA	NA	NA
Aroclor-1221	NA	NA	NA	NA	NA
Aroclor-1232	NA	NA	NA	NA	NA
Aroclor-1242	NA	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Newell St. Area II				
Sample ID:	N2SC-07S	NS-09	NS-17	NS-20	NS-37
Parameter / Date Collected:	10/17/03	10/16/03	10/15/03	10/16/03	10/17/03
PCBs-Filtered					
Aroclor-1016	NA	NA	NA	NA	NA
Aroclor-1221	NA	NA	NA	NA	NA
Aroclor-1232	NA	NA	NA	NA	NA
Aroclor-1242	NA	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA	NA
Total PCBs	NA	NA	NA	NA	NA
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	NA	NA	NA	NA	NA
1,3,5-Trinitrobenzene	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NA	NA	NA	NA	NA
1,3-Dinitrobenzene	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	NA	NA	NA	NA	NA
1,4-Naphthoquinone	NA	NA	NA	NA	NA
1-Naphthylamine	NA	NA	NA	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	NA	NA	NA	NA	NA
2,6-Dichlorophenol	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA	NA
2-Acetylaminofluorene	NA	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA	NA
2-Naphthylamine	NA	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA	NA
2-Picoline	NA	NA	NA	NA	NA
3&4-Methylphenol	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA	NA
3,3'-Dimethylbenzidine	NA	NA	NA	NA	NA
3-Methylcholanthrene	NA	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA	NA	NA	NA
4-Aminobiphenyl	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	NA	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA	NA
4-Chlorobenzilate	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	NA	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA	NA
4-Nitroquinoline-1-oxide	NA	NA	NA	NA	NA
4-Phenylenediamine	NA	NA	NA	NA	NA
5-Nitro-o-toluidine	NA	NA	NA	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA	NA	NA	NA
a,a'-Dimethylphenethylamine	NA	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA	NA
Aniline	NA	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA	NA
Aramite	NA	NA	NA	NA	NA
Benzidine	NA	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Newell St. Area II				
Sample ID:	N2SC-07S	NS-09	NS-17	NS-20	NS-37
Parameter / Date Collected:	10/17/03	10/16/03	10/15/03	10/16/03	10/17/03
Semivolatile Organics (continued)					
Benzo(k)fluoranthene	NA	NA	NA	NA	NA
Benzyl Alcohol	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA	NA
Butylbenzylphthalate	NA	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA	NA
Diallate	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA	NA
Dimethylphthalate	NA	NA	NA	NA	NA
Di-n-Butylphthalate	NA	NA	NA	NA	NA
Di-n-Octylphthalate	NA	NA	NA	NA	NA
Diphenylamine	NA	NA	NA	NA	NA
Ethyl Methanesulfonate	NA	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA	NA
Hexachlorophene	NA	NA	NA	NA	NA
Hexachloropropene	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA	NA	NA	NA
Isodrin	NA	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA	NA
Isosafrole	NA	NA	NA	NA	NA
Methapyrilene	NA	NA	NA	NA	NA
Methyl Methanesulfonate	NA	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA	NA
N-Nitrosodiethylamine	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	NA	NA	NA	NA	NA
N-Nitroso-di-n-butylamine	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	NA	NA	NA	NA	NA
N-Nitrosomethylethylamine	NA	NA	NA	NA	NA
N-Nitrosomorpholine	NA	NA	NA	NA	NA
N-Nitrosopiperidine	NA	NA	NA	NA	NA
N-Nitrosopyrrolidine	NA	NA	NA	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA	NA	NA	NA
o-Toluidine	NA	NA	NA	NA	NA
p-Dimethylaminoazobenzene	NA	NA	NA	NA	NA
Pentachlorobenzene	NA	NA	NA	NA	NA
Pentachloroethane	NA	NA	NA	NA	NA
Pentachloronitrobenzene	NA	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA	NA
Phenacetin	NA	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA	NA
Phenol	NA	NA	NA	NA	NA
Pronamide	NA	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA	NA
Pyridine	NA	NA	NA	NA	NA
Safrole	NA	NA	NA	NA	NA
Thionazin	NA	NA	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Site ID:	Newell St. Area II				
Sample ID:	N2SC-07S	NS-09	NS-17	NS-20	NS-37
Parameter / Date Collected:	10/17/03	10/16/03	10/15/03	10/16/03	10/17/03
Furans					
2,3,7,8-TCDF	NA	NA	NA	NA	NA
TCDFs (total)	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDF	NA	NA	NA	NA	NA
2,3,4,7,8-PeCDF	NA	NA	NA	NA	NA
PeCDFs (total)	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA	NA	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA	NA	NA	NA
HxCDFs (total)	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA	NA	NA	NA
HpCDFs (total)	NA	NA	NA	NA	NA
OCDF	NA	NA	NA	NA	NA
Dioxins					
2,3,7,8-TCDD	NA	NA	NA	NA	NA
TCDDs (total)	NA	NA	NA	NA	NA
1,2,3,7,8-PeCDD	NA	NA	NA	NA	NA
PeCDDs (total)	NA	NA	NA	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA	NA	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA	NA	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA	NA	NA	NA
HxCDDs (total)	NA	NA	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA	NA	NA	NA
HpCDDs (total)	NA	NA	NA	NA	NA
OCDD	NA	NA	NA	NA	NA
Total TEQs (WHO TEFs)	NA	NA	NA	NA	NA
Inorganics-Unfiltered					
Antimony	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)
Nickel	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA
Sulfide	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA
Inorganics-Filtered					
Antimony	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA
Cyanide	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA
Mercury	ND(0.000200)	ND(0.000200)	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)
Nickel	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA
Tin	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA

TABLE C-1
FALL 2003 GROUNDWATER ANALYTICAL RESULTS

GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GROUNDWATER MANAGEMENT AREA 1
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and submitted to CT&E Environmental Services, Inc. for analysis of PCBs and Appendix IX+3 constituents.
2. Samples have been validated as per Field Sampling Plan/Quality Assurance Project Plan, General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved November 4, 2002 and resubmitted December 10, 2002).
3. NA - Not Analyzed.
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. Field duplicate sample results are presented in brackets.

Data Qualifiers:

Organics (volatiles, PCBs, semivolatiles, dioxin/furans)

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

Appendix D

Historical Groundwater Data

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Historical Groundwater Data

Total VOC Concentrations

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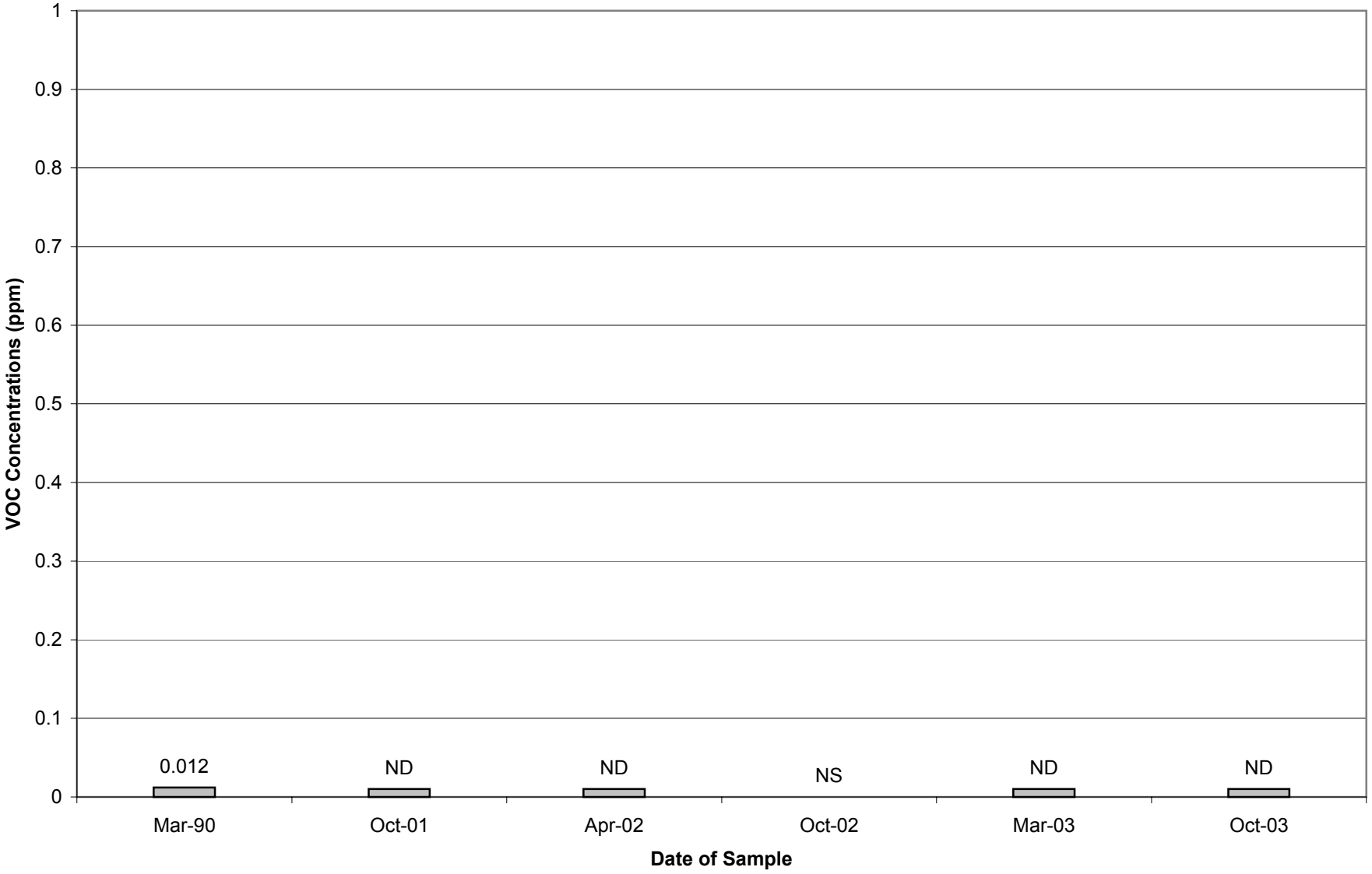
Appendix D

Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well A7 Historical VOC Concentrations



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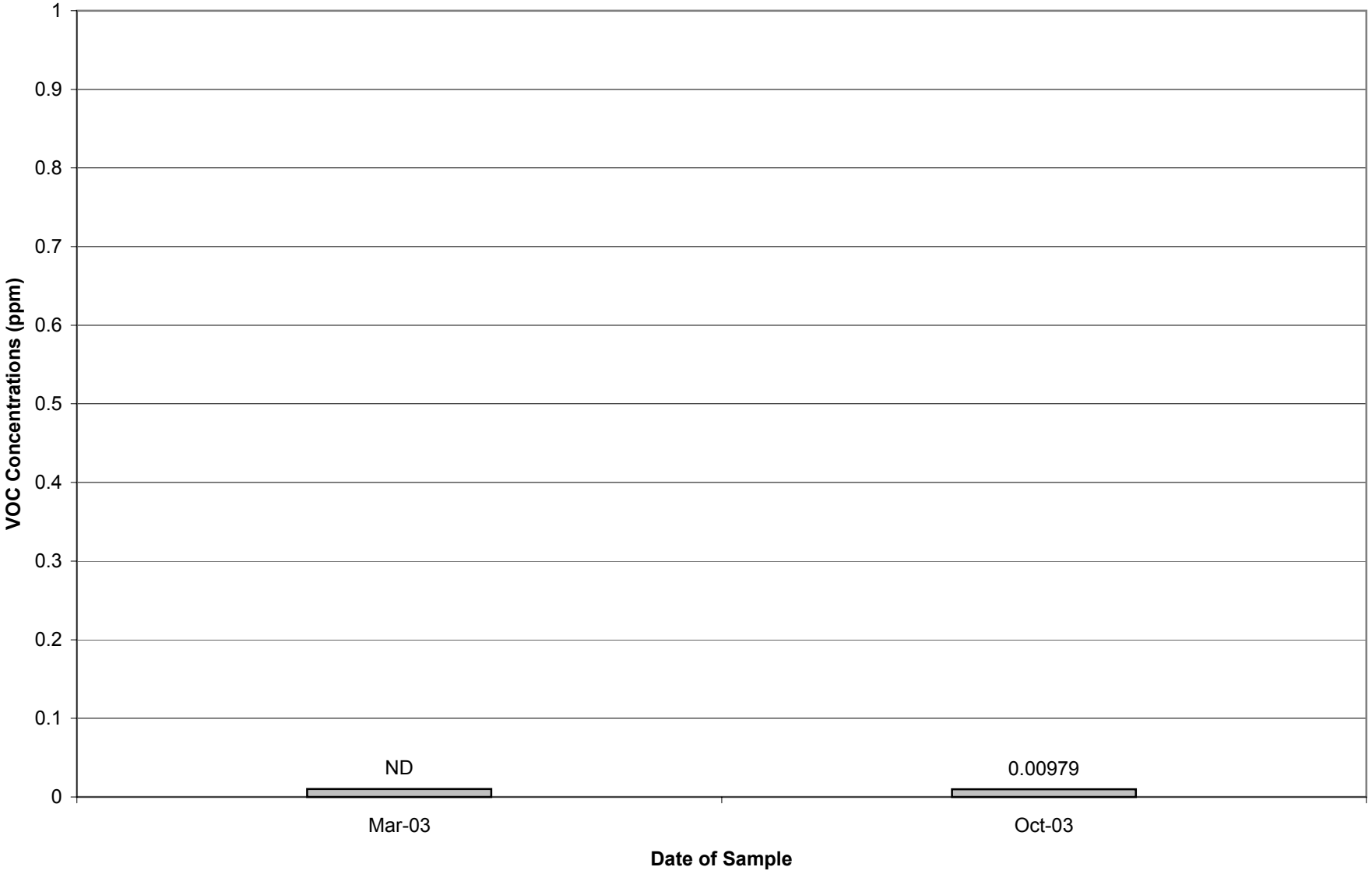
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well GMA1-4 Historical VOC Concentrations



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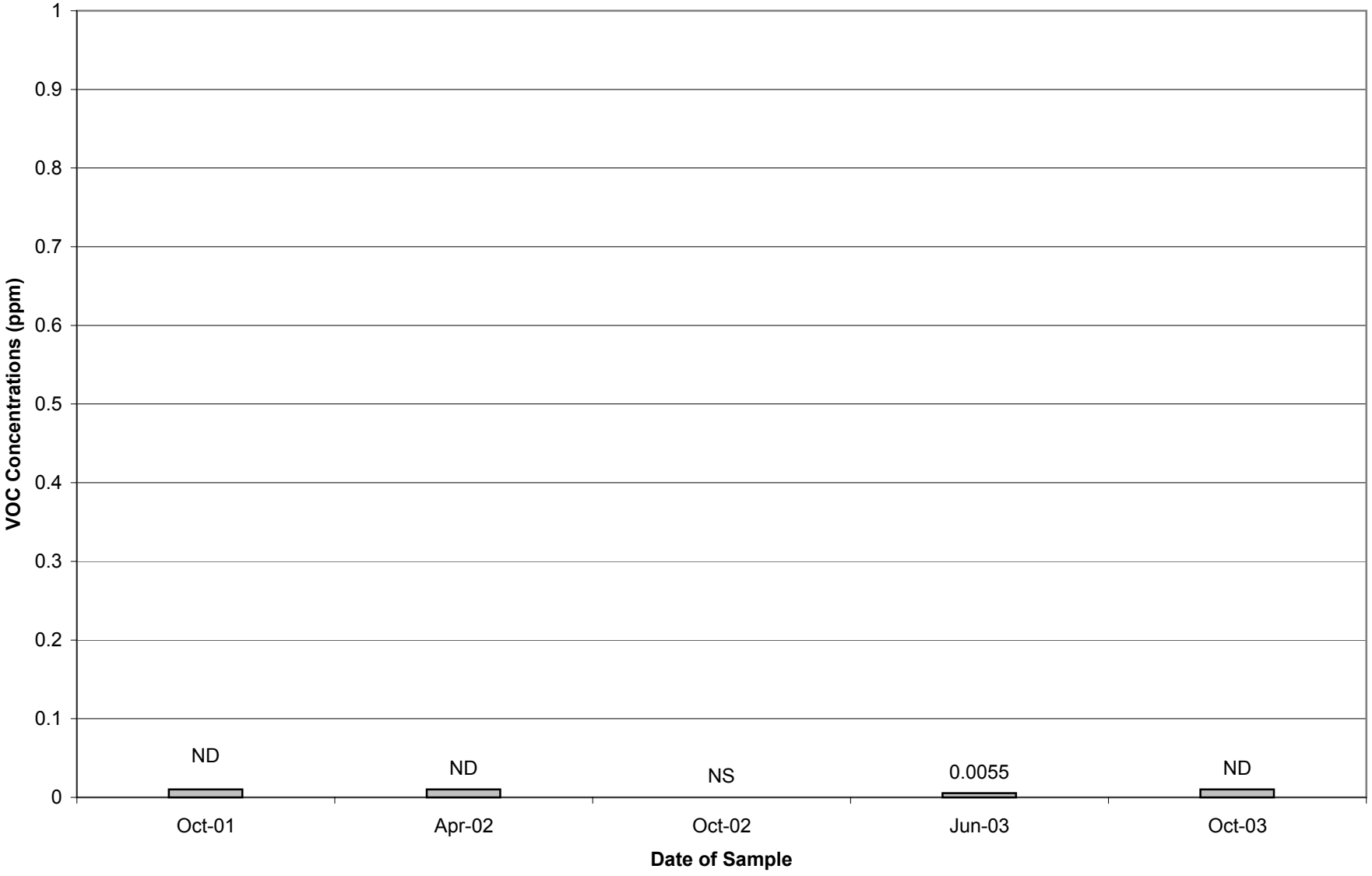
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well 95-09 and GMA1-13 Historical VOC Concentrations



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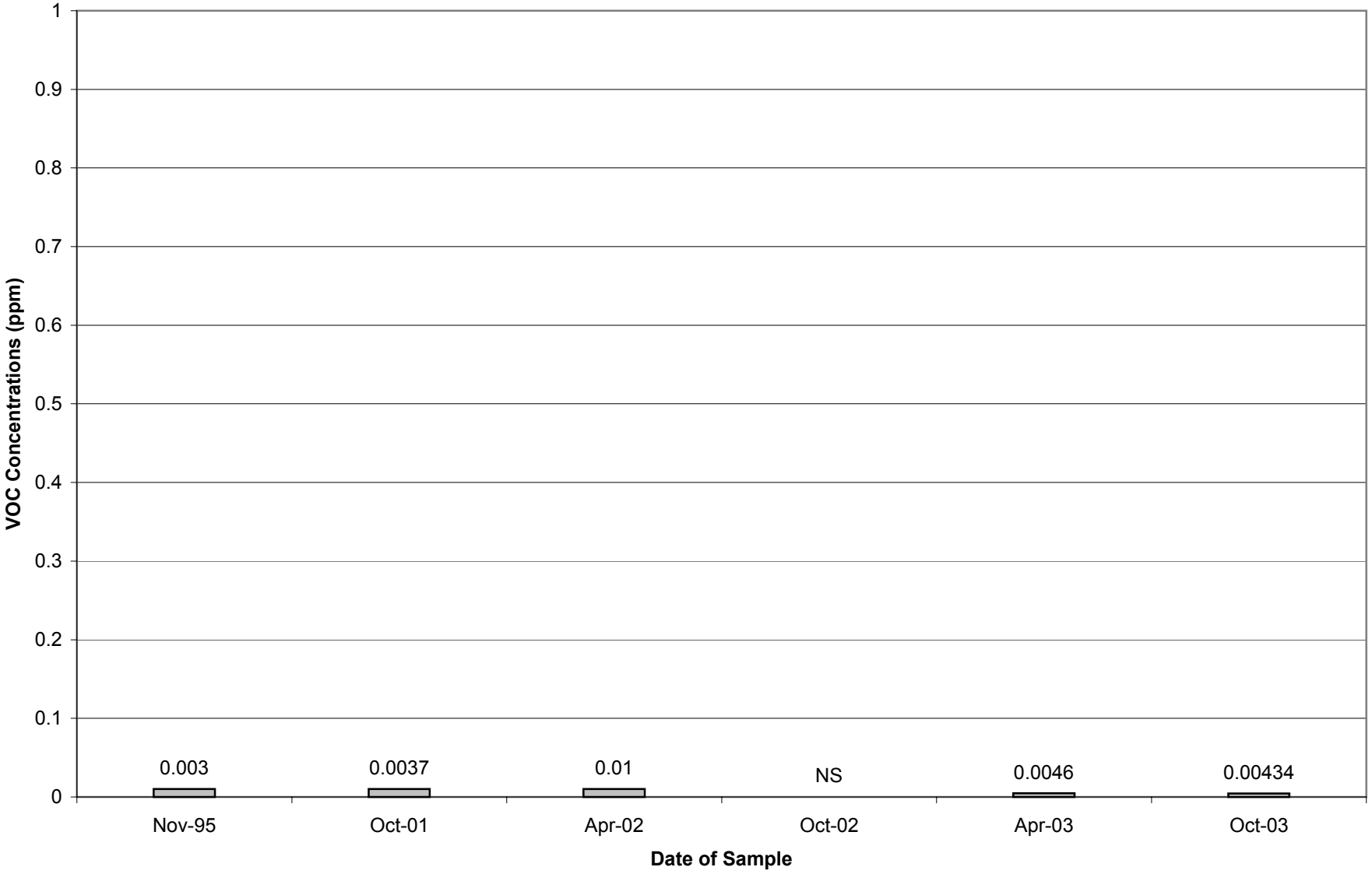
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well LS-29 Historical VOC Concentrations



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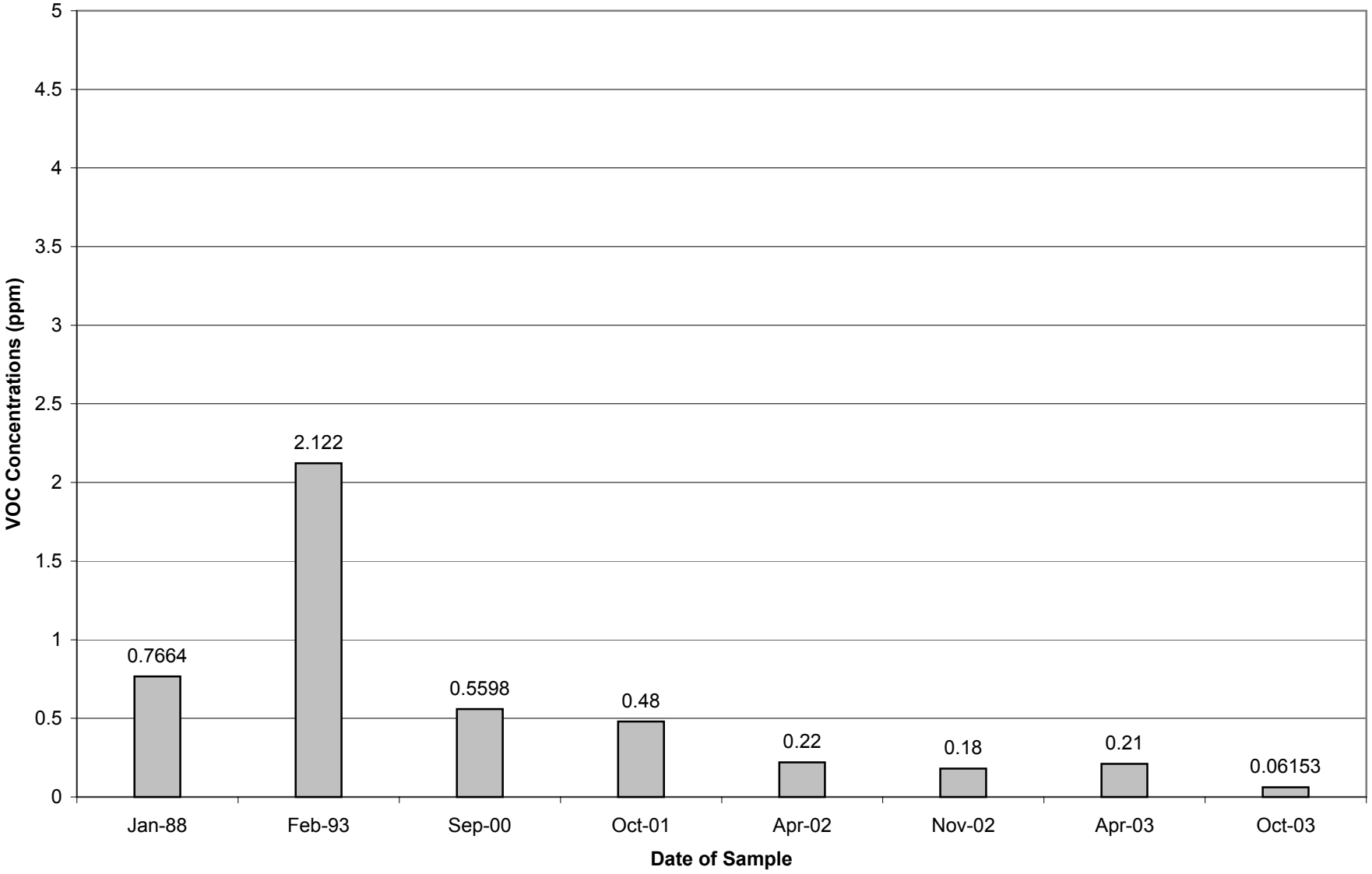
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well MW-3 and MW-3R Historical VOC Concentrations



Historical Groundwater Data

Total PCB Concentrations

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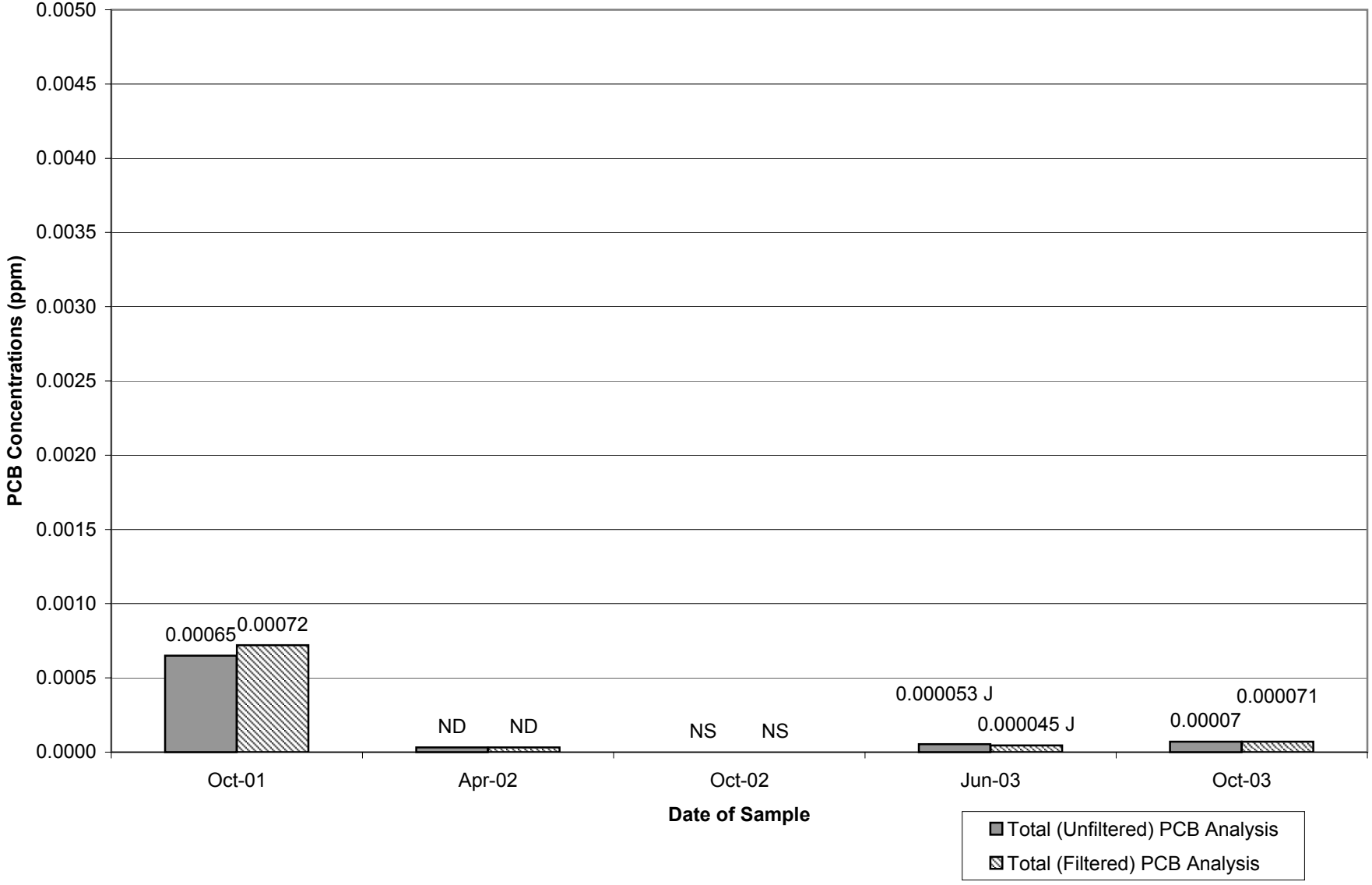
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well 95-9 & GMA1-13 Historical PCB Concentrations



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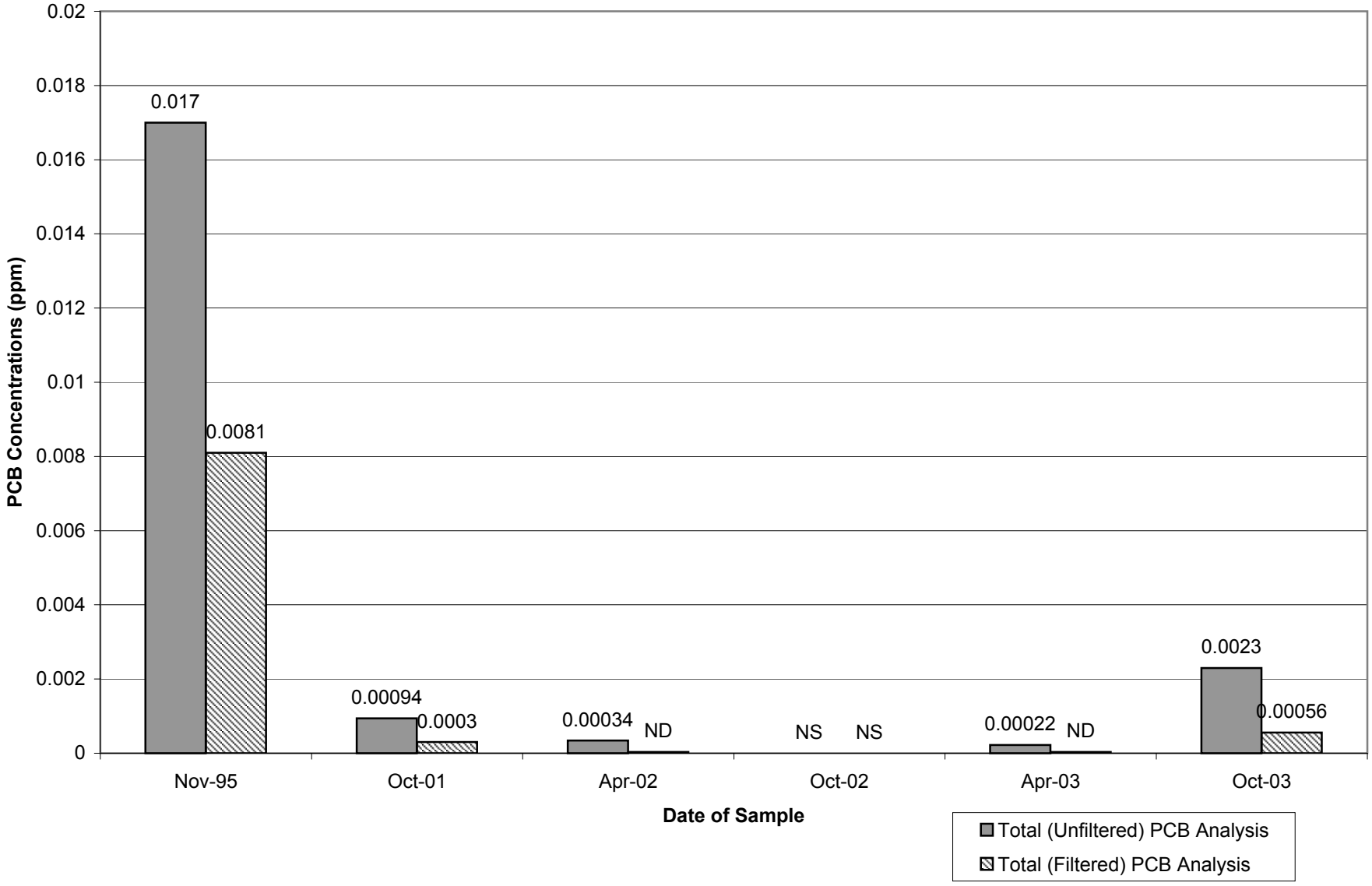
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well LS-29 Historical PCB Concentrations



Historical Groundwater Data

Mercury Concentrations

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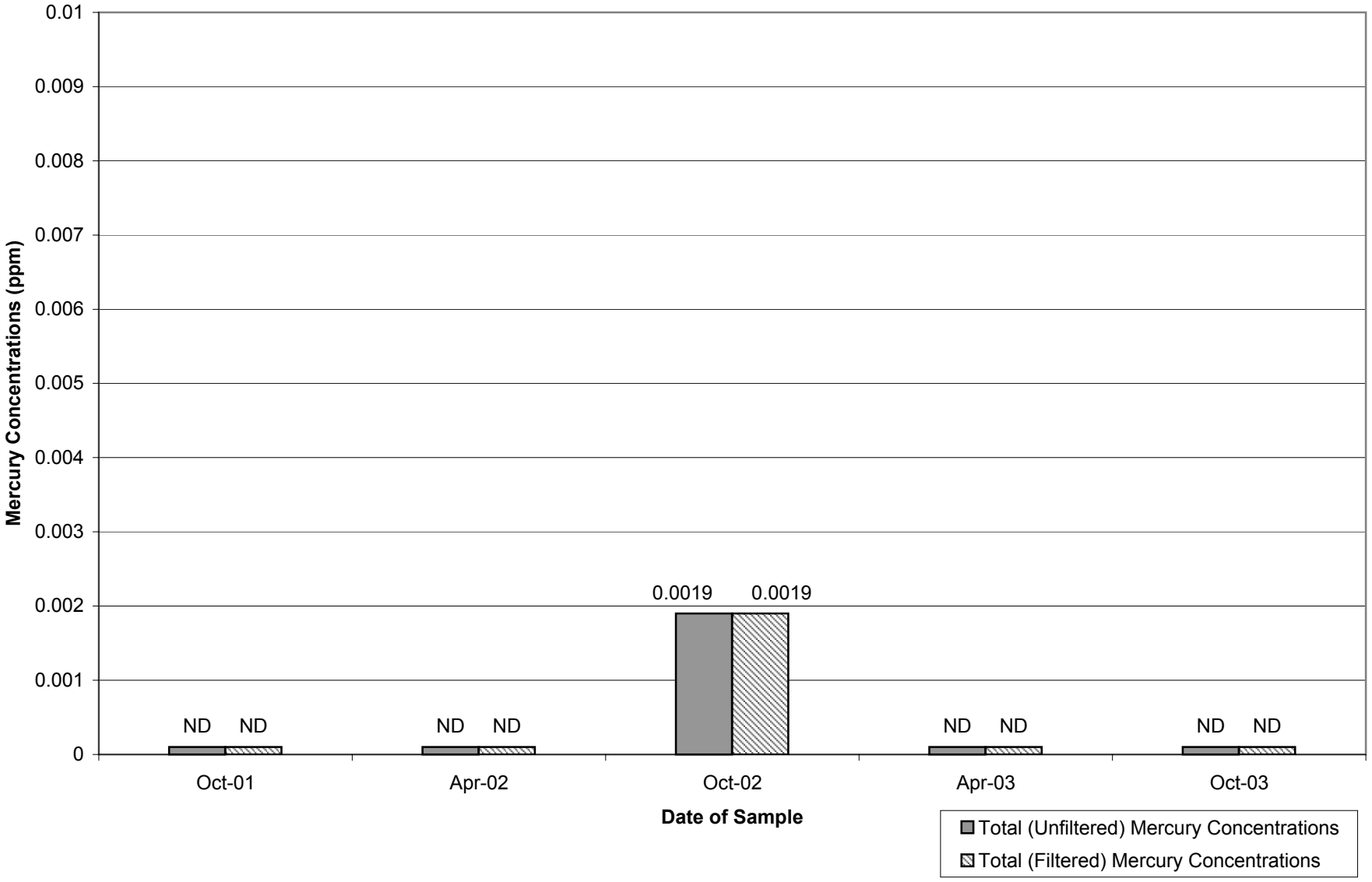
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well HR-G1-MW3 Unfiltered and Filtered Mercury Concentrations



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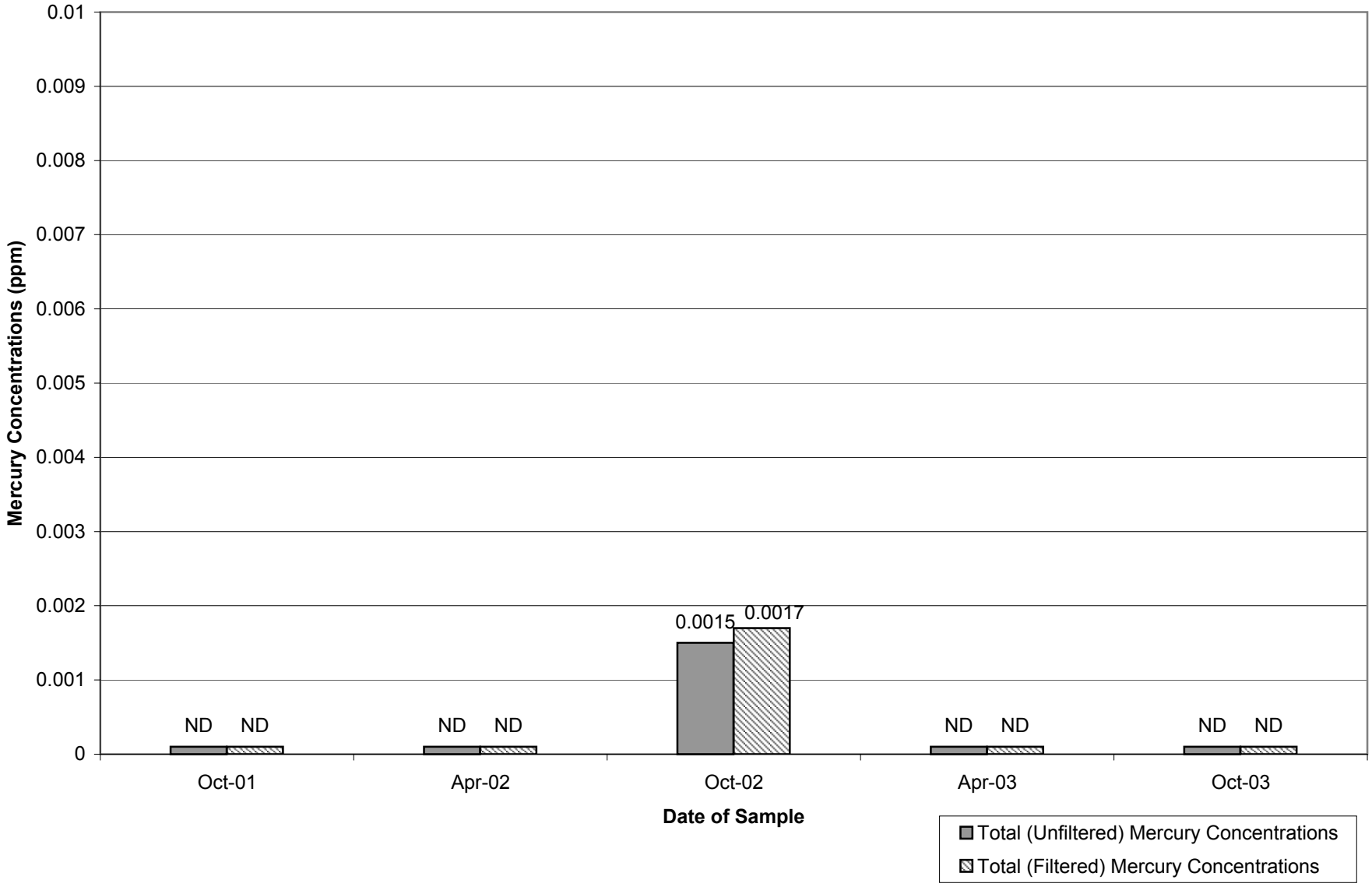
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well HR-G3-MW1 Unfiltered and Filtered Mercury Concentrations



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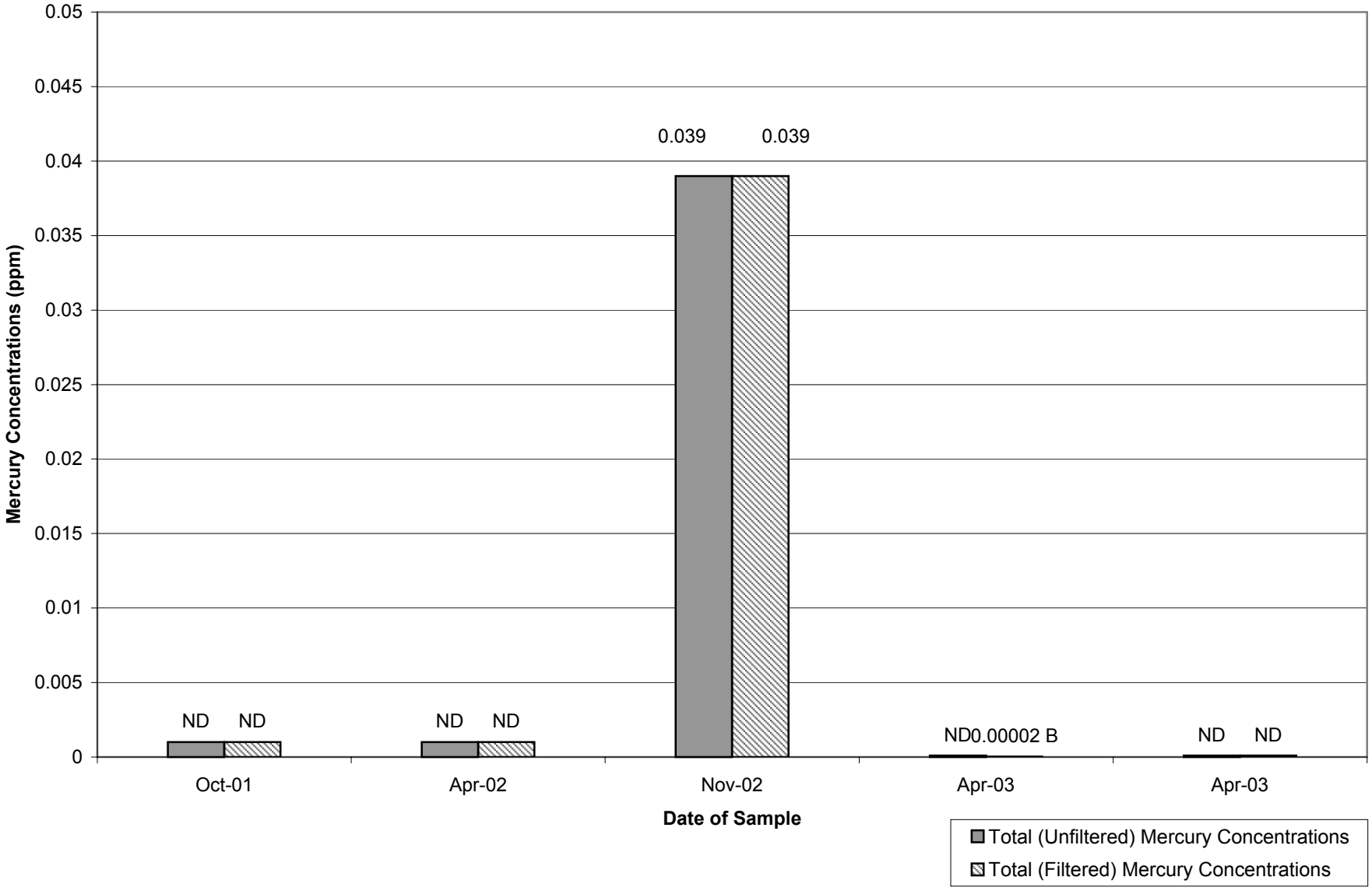
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well ES1-5 Unfiltered and Filtered Mercury Concentrations



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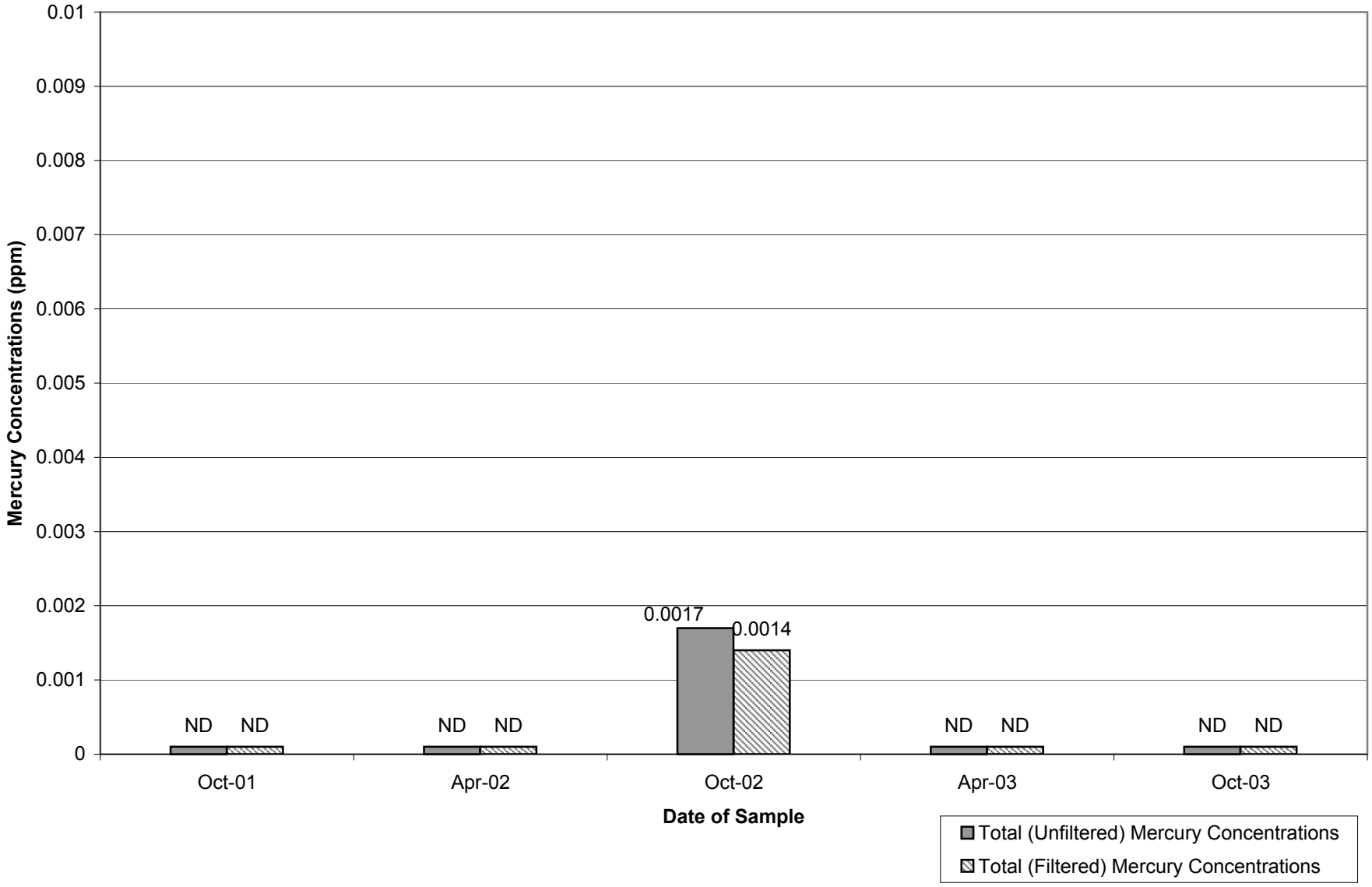
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well B-2 Unfiltered and Filtered Mercury Concentrations



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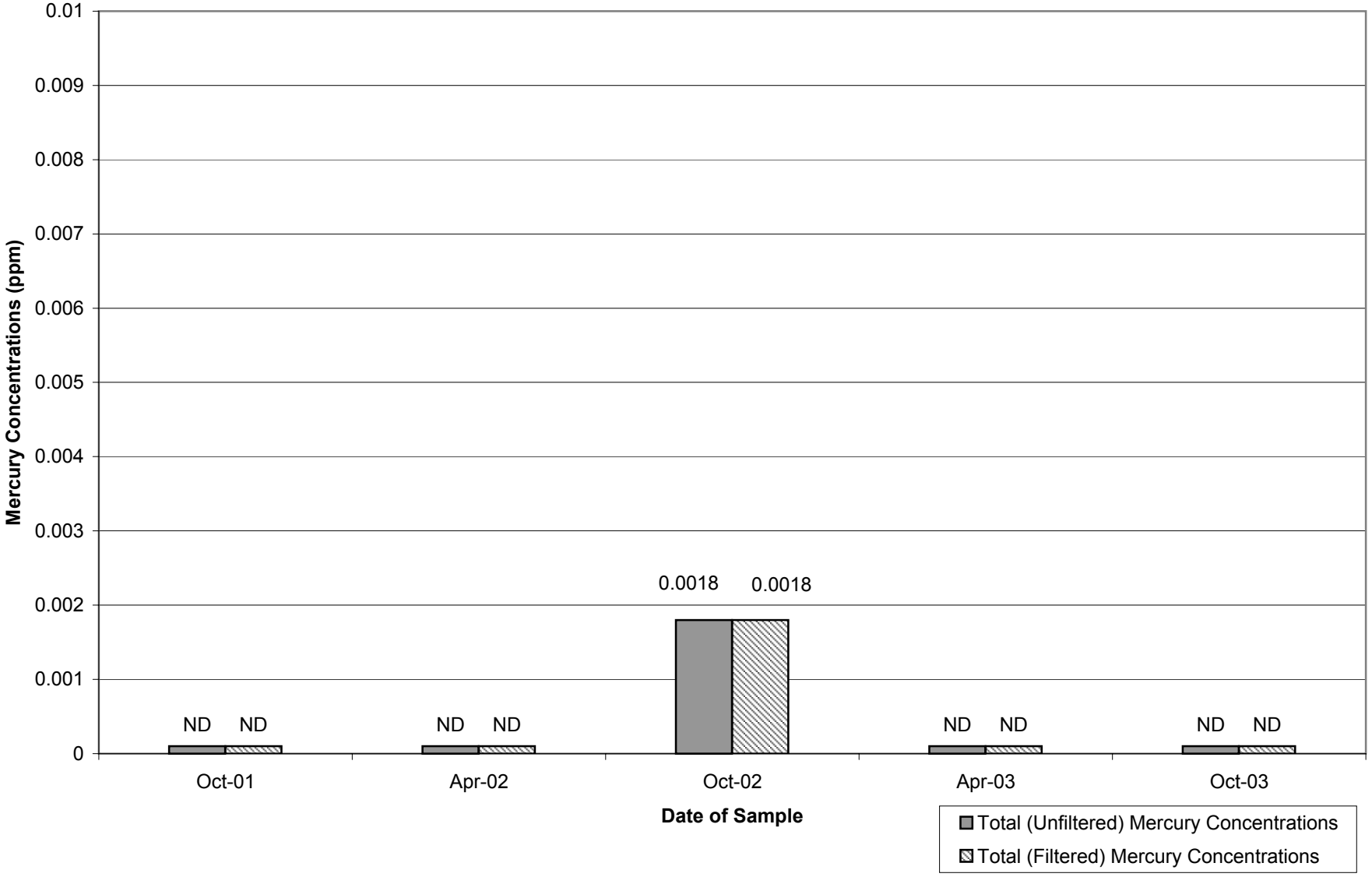
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well E-7 Unfiltered and Filtered Mercury Concentrations



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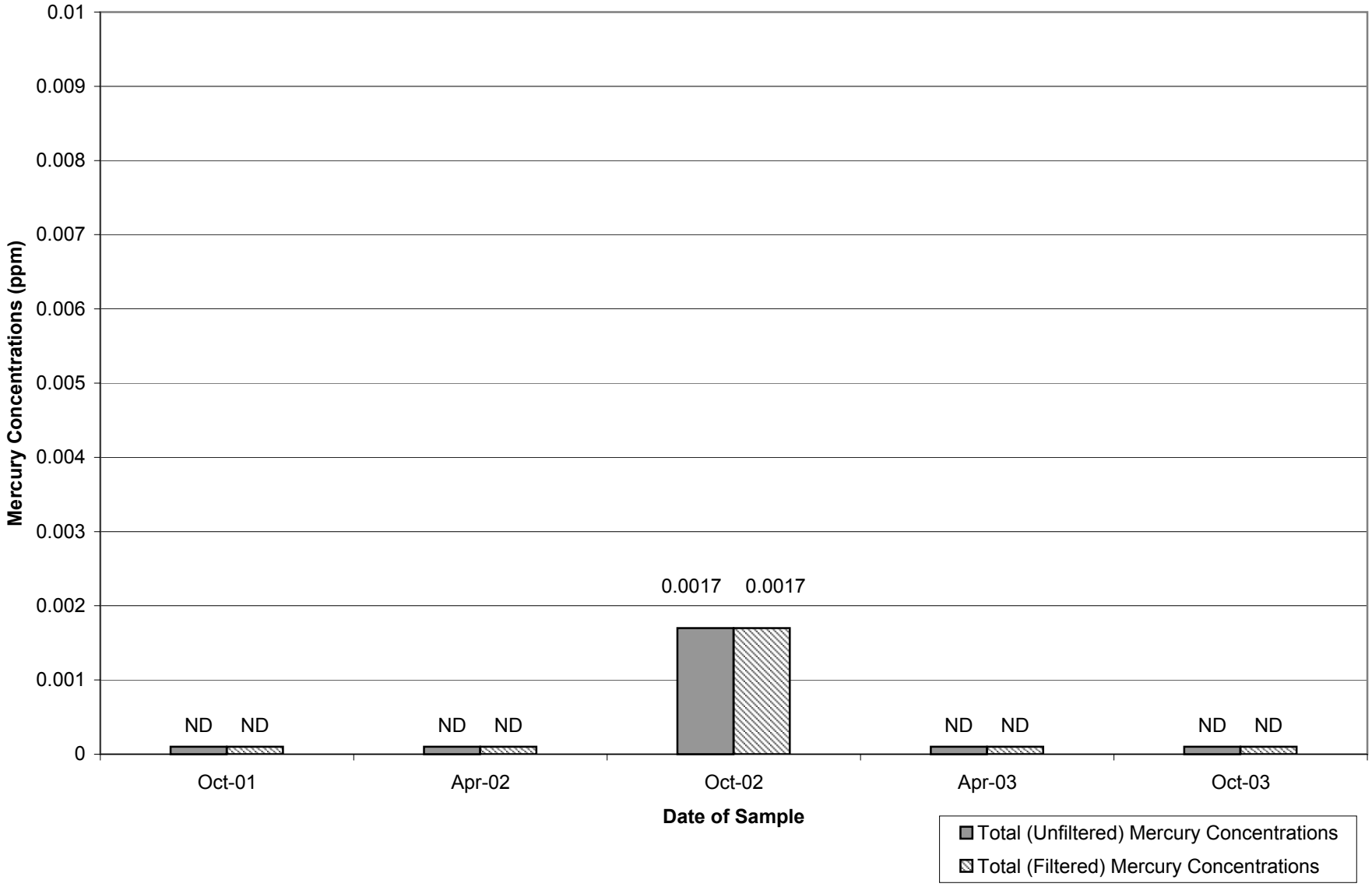
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well MW-6R Unfiltered and Filtered Mercury Concentrations



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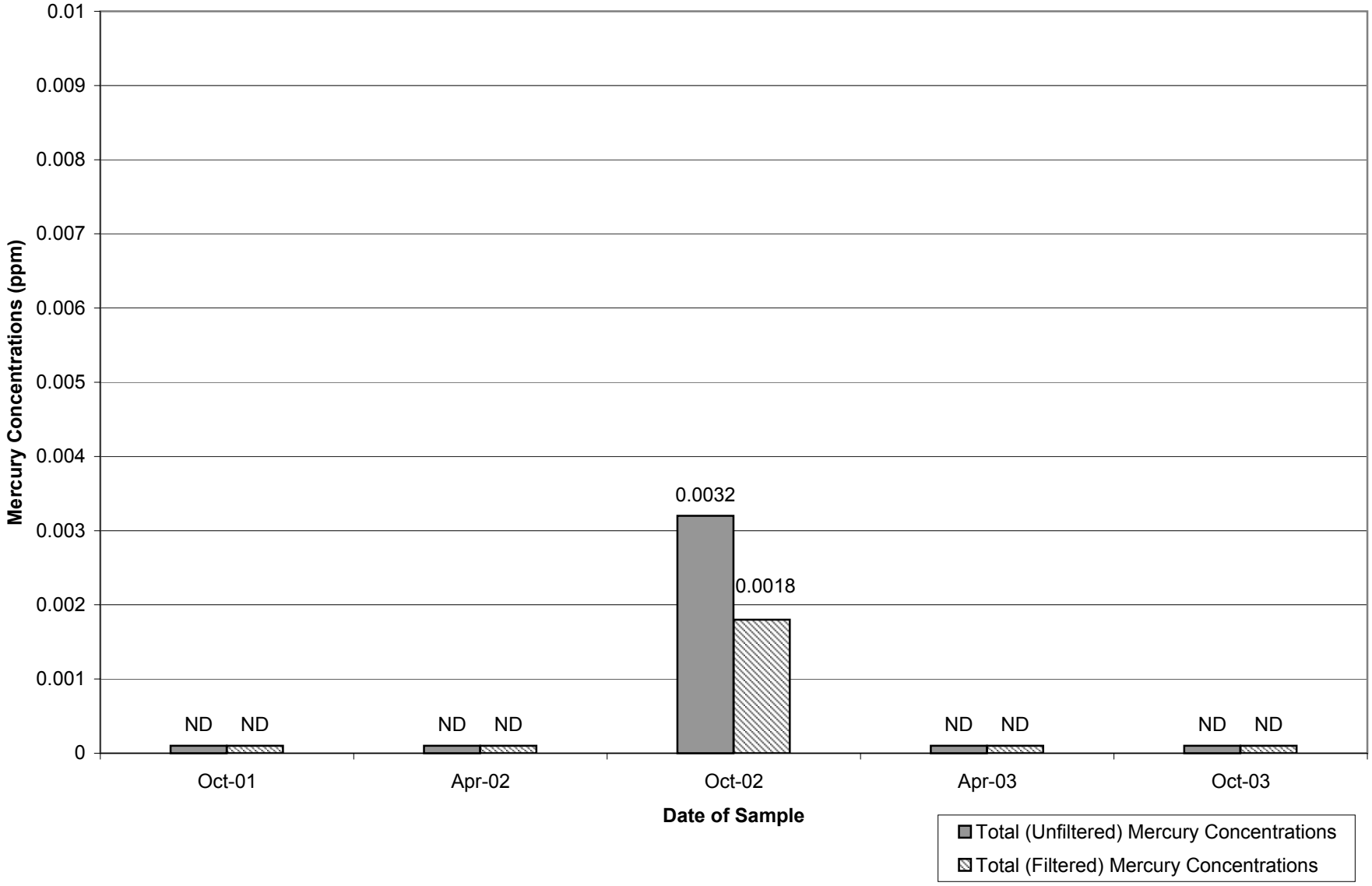
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well GMA1-9 Unfiltered and Filtered Mercury Concentrations



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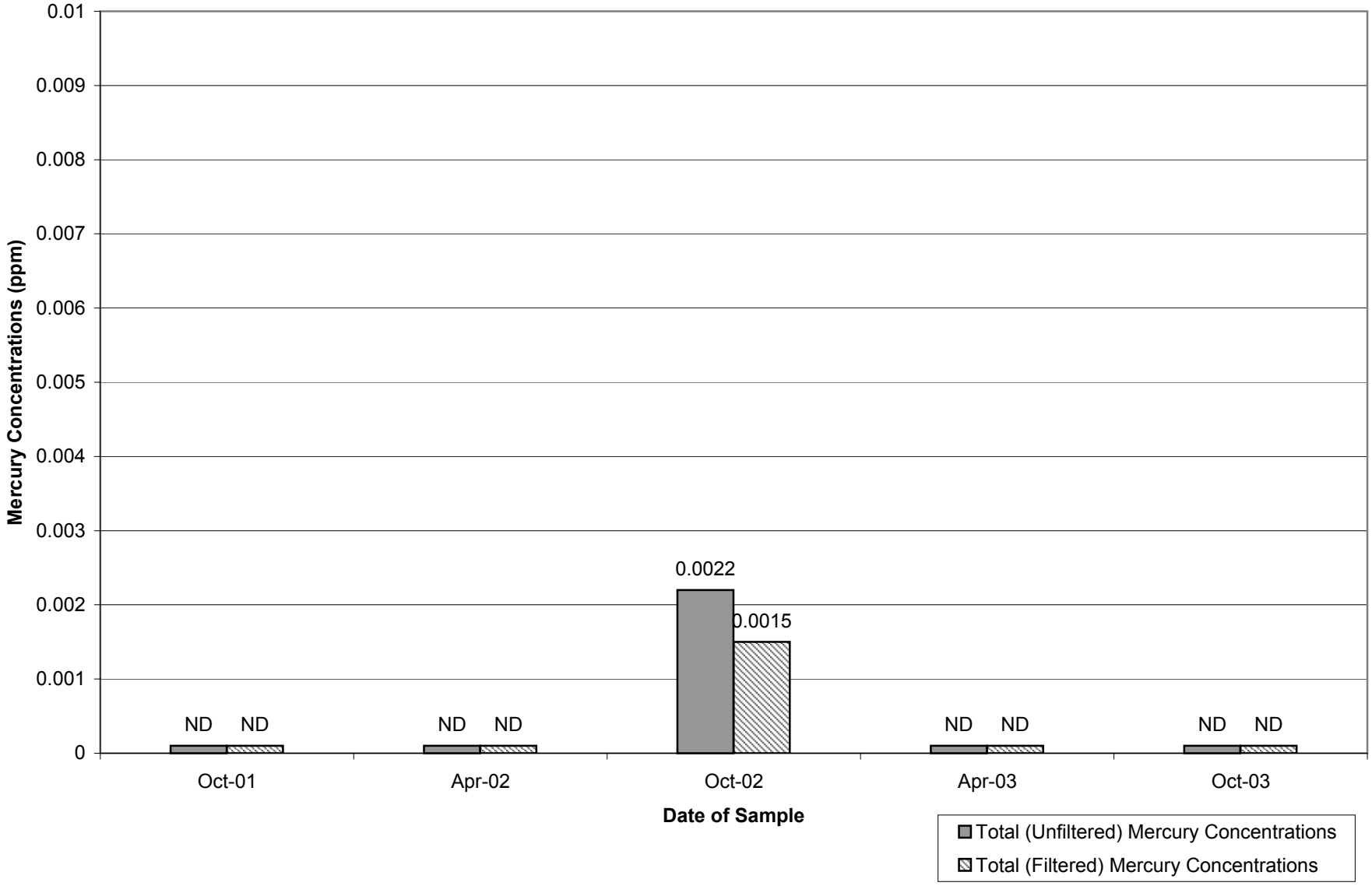
Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

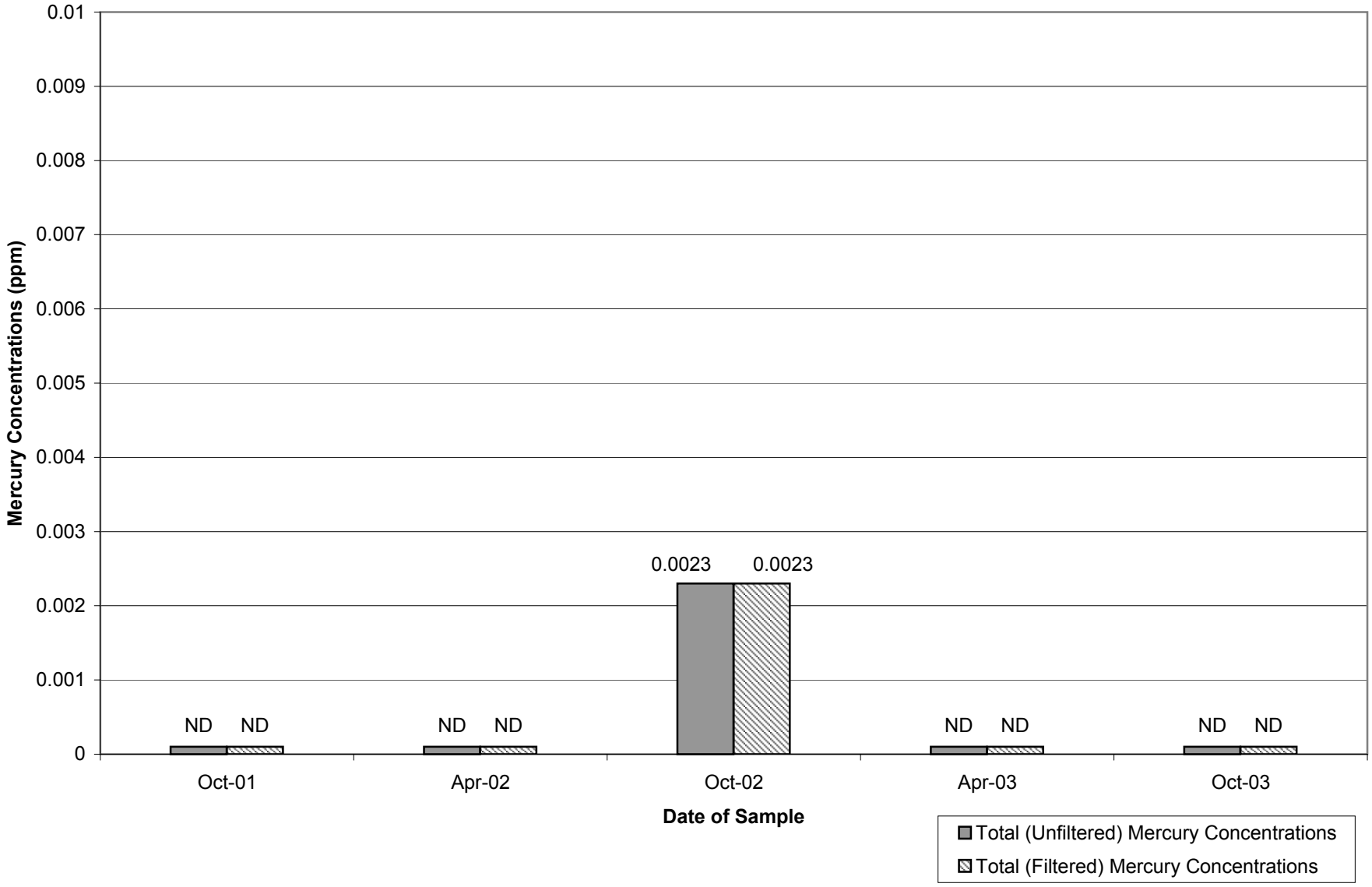
Well N2SC-07S Unfiltered and Filtered Mercury Concentrations



Appendix D

Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

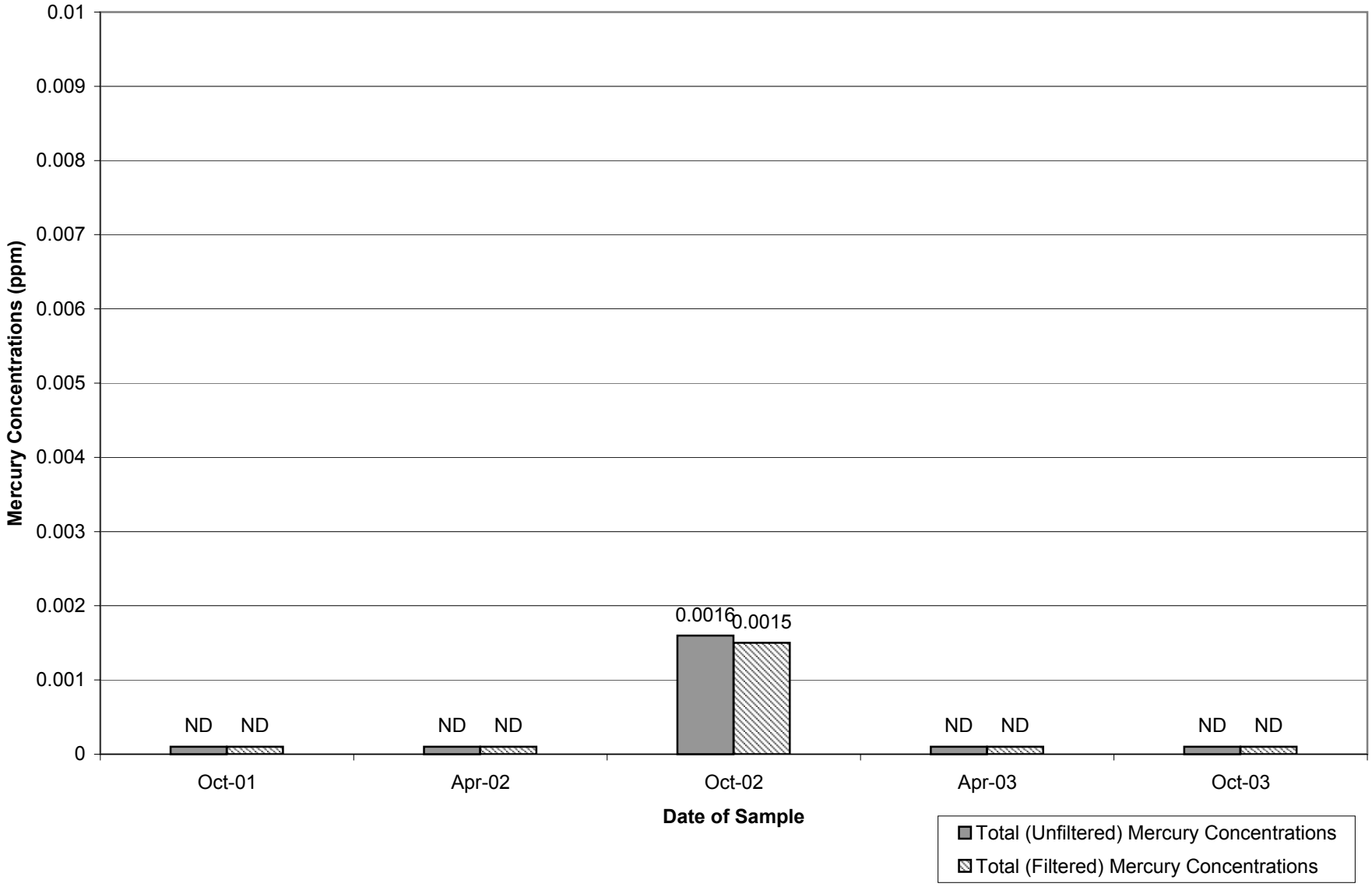
Well NS-09 Unfiltered and Filtered Mercury Concentrations



Appendix D

Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

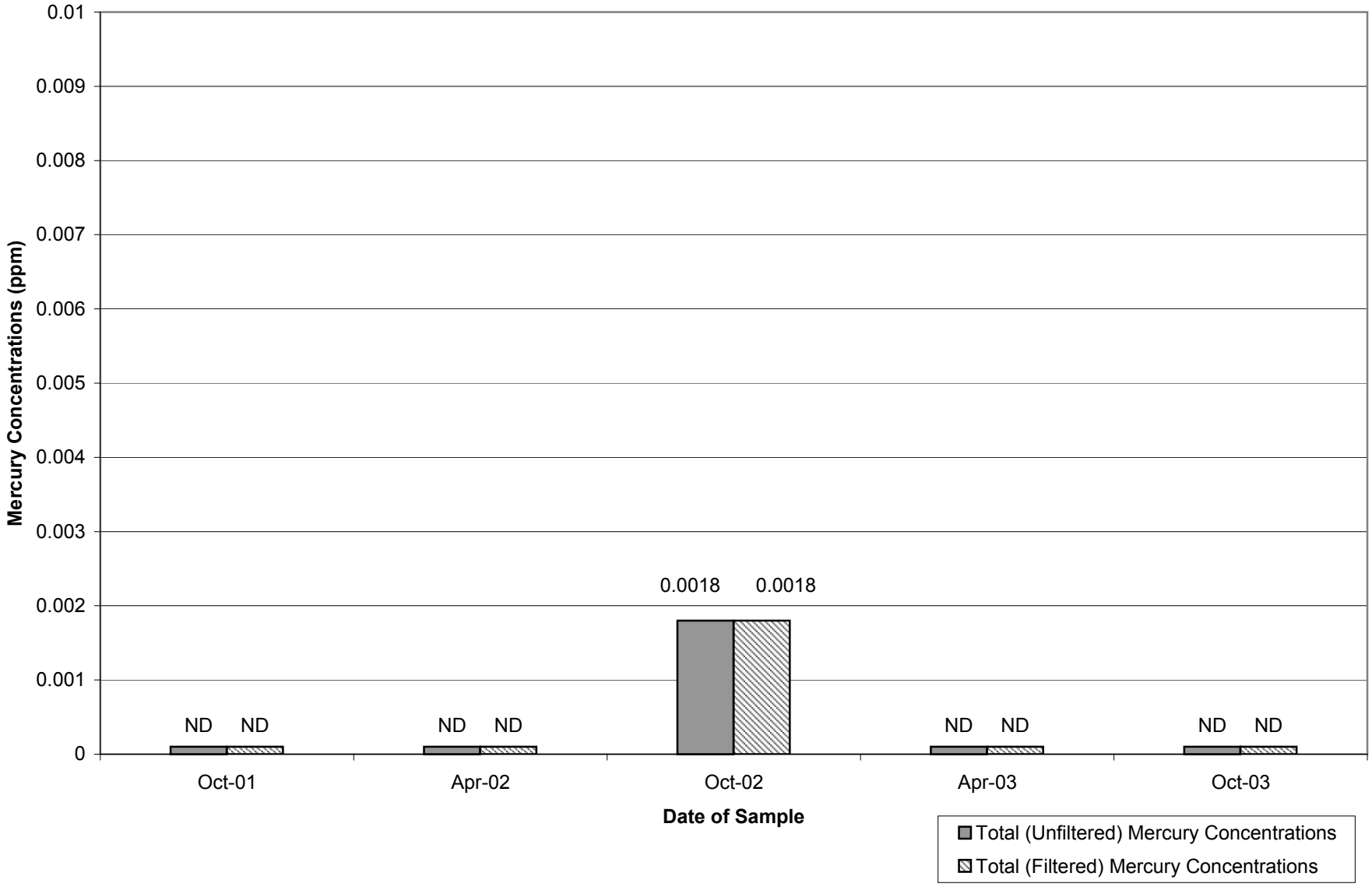
Well NS-17 Unfiltered and Filtered Mercury Concentrations



Appendix D

Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

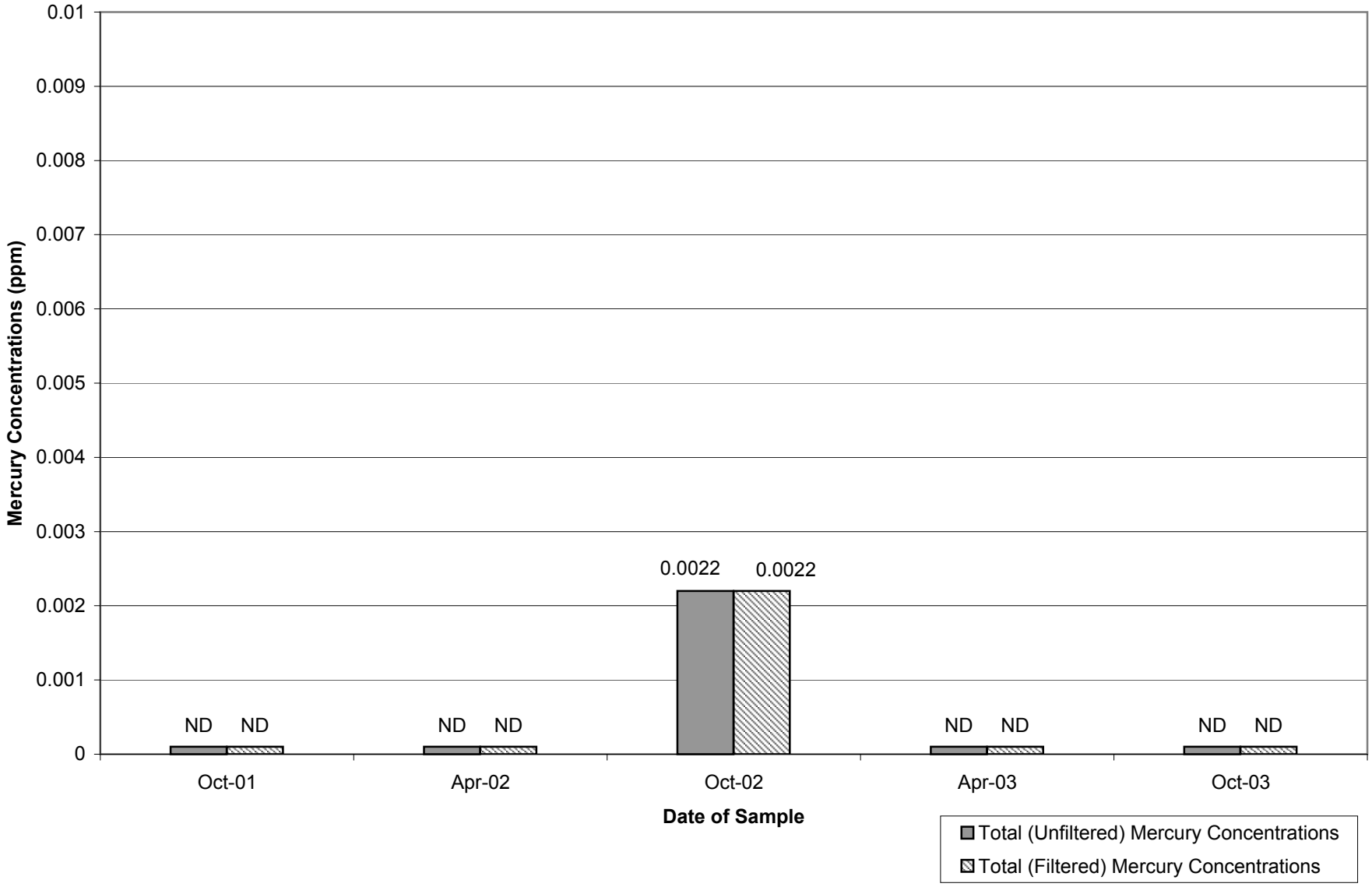
Well NS-20 Unfiltered and Filtered Mercury Concentrations



Appendix D

Groundwater Management Area 1
General Electric Company
Pittsfield, Massachusetts

Well NS-37 Unfiltered and Filtered Mercury Concentrations



Appendix E

Data Validation Report

BBL®
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APPENDIX E

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

PLANT SITE 1 GROUNDWATER MANAGEMENT AREA

FALL 2003 GROUNDWATER SAMPLING DATA VALIDATION REPORT

1.0 General

This appendix summarizes the Tier I and Tier II data review performed for groundwater samples collected at the Plant Site 1 Groundwater Management Area (GMA 1) 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), by CT&E Environmental Services, Inc. of Charleston, West Virginia. Data validation was performed for 4 polychlorinated biphenyl (PCB) samples, 9 volatile organic compound (VOC) samples, 2 semi-volatile organic compound (SVOC) samples, 2 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 30 metals samples, and 4 cyanide/sulfide samples.

2.0 Data Evaluation Procedures

This appendix 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. . ([BBL]; FSP/QAPP, approved November 4, 2002 and resubmitted December 10, 2002);

- *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 E-1. Each sample subjected to evaluation is listed in Table E-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 E-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 E-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

Section 7.5 of the FSP/QAPP provides 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	0	0	0	4	0	0	4
VOCs	0	0	0	5	3	1	9
SVOCs	0	0	0	2	0	0	2
PCDDs/PCDFs	0	0	0	2	0	0	2
Metals	16	0	0	12	0	2	30
Cyanide/Sulfide	0	0	0	4	0	0	4
Total	**16**	**0**	**0**	**29**	**3**	**3**	**51**

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 69% 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 estimated (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	1,4-Dioxane	9	J
	2-Butanone	9	J
	Acetonitrile	9	J
	Isobutanol	9	J
SVOCs	4-Nitroquinoline-1-oxide	2	J
	Hexachlorophene	2	J

Several of the organic compounds (including the compounds presented in the table above detailing RRF deviations) exhibit instrument response factors (RFs) below the USEPA Region I minimum value of 0.05, but meet the analytical method criterion, which does not specify minimum RFs 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 (R). In the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detected sample results were qualified as estimated (J).

Initial calibration criterion for SVOCs requires that the percent relative standard deviation (%RSD) must be less than or equal to 30 percent. Sample data for detected and non-detected compounds with %RSD values greater than 30 percent were qualified as approximated (J). The compounds that exceeded initial calibration criterion and the number of samples qualified due those exceeded are identified below.

Compounds Qualified Due to Initial Calibration %RSD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	4-Nitrophenol	1	J
	Hexachlorocyclopentadiene	1	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%. Sample data for detected and non-detected compounds with %D values that exceeded the continuing calibration criterion were qualified as estimated (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	1,2-Dibromo-3-chloropropane	6	J
	Acrylonitrile	6	J
SVOCs	1,3,5-Trinitrobenzene	2	J
	1,3-Dinitrobenzene	2	J
	2-Nitroaniline	2	J
	3,3'-Dimethylbenzidine	2	J
	4-Chlorobenzilate	2	J
	Aramite	2	J
	Benzidine	2	J
	bis(2-Chloroisopropyl)ether	2	J

Contract required detection limit (CRDL) standards were analyzed to evaluate instrument performance at low-level concentrations that are near the analytical method PQL. 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 PQL concentration (less than three times the PQL) were qualified as estimated (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	Analyte	Number of Affected Samples	Qualification
Inorganics	Arsenic	2	J
	Lead	2	J
	Selenium	2	J
	Thallium	2	J
	Zinc	1	J

Matrix Spike (MS)/Matrix Spike Duplicate (MSD) sample analysis recovery criteria for organics require that spike recoveries be within the laboratory generated QC acceptance limits specified on the MS/MSD reporting form. Organic sample results that exceeded laboratory generated QC acceptance limits and have MS/MSD recoveries

greater than 10 percent were qualified as estimated (J). Compounds that did not meet MS/MSD recovery criteria and the samples qualified due to those deviations are presented below.

Compounds Qualified Due to Matrix Spike/Matrix Spike Duplicate Recovery Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
VOCs	Naphthalene	1	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
Inorganics	Beryllium	2	U
	Copper	3	U
	Silver	2	U
	Zinc	2	U
PCDDs/PCDFs	1,2,3,4,6,7,8-HpCDF	2	U
	2,3,4,7,8-PeCDF	1	U
	HpCDDs (total)	1	U
	PeCDFs (total)	1	U

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
Cyanide and Sulfide	100	None
VOCs	100	None
SVOCs	100	None
PCBs	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, MS/MSD samples, and ICP serial dilution samples. None of the data required qualification for laboratory duplicate RPD deviations, field duplicate RPD deviations, 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, CRDL samples, and surrogate compound recoveries. For this analytical program, 5.2% of the data required qualification for calibration deviations, 0.15% of the data required qualification for MS/MSD recoveries, and 0.68% of the data required qualification for CRDL standard recoveries. None of the data required qualification for internal standards recoveries, surrogate 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 extraction 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 for individual analytical parameters and overall usability of this data set is 100%.

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

TABLE E-1
ANALYTICAL DATA VALIDATION SUMMARY

GROUNDWATER MANAGEMENT AREA 1 GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs											
3J0P250	A-7	10/9/2003	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.036	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P250	GMA1-4	10/9/2003	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.036	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P250	TRIP BLANK	10/9/2003	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.035	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.036	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P314	DUP-1	10/13/2003	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	31.2%	<25%	ND(0.0050) J	LS-MW-3R
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.044	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	30.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P314	LS-29	10/13/2003	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	31.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.044	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	30.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P314	LS-MW-3R	10/13/2003	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	31.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.044	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	30.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
						Naphthalene	MS %R	134.0%	75% to 130%	0.011 J	
						Naphthalene	MSD %R	214.0%	75% to 130%	0.011 J	
3J0P314	TRIP BLANK	10/13/2003	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	31.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.044	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	30.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P377	GMA1-13	10/15/2003	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	31.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.044	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	30.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	
3J0P377	TRIP BLANK	10/15/2003	Water	Tier II	Yes	1,2-Dibromo-3-chloropropane	CCAL %D	31.2%	<25%	ND(0.0050) J	
						1,4-Dioxane	ICAL RRF	0.001	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.049	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.044	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	30.0%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.011	>0.05	ND(0.10) J	

TABLE E-1
ANALYTICAL DATA VALIDATION SUMMARY

GROUNDWATER MANAGEMENT AREA 1 GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs											
3J0P314	LS-29	10/13/2003	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	46.1%	<25%	ND(0.010) J	
						1,3-Dinitrobenzene	CCAL %D	43.9%	<25%	ND(0.010) J	
						2-Nitroaniline	CCAL %D	67.0%	<25%	ND(0.050) J	
						3,3'-Dimethylbenzidine	CCAL %D	32.4%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	38.1%	<25%	ND(0.010) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Aramite	CCAL %D	47.1%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	32.3%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	47.3%	<25%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.020) J	
3J0P377	GMA1-13	10/15/2003	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL %D	46.1%	<25%	ND(0.010) J	
						1,3-Dinitrobenzene	CCAL %D	43.9%	<25%	ND(0.010) J	
						2-Nitroaniline	CCAL %D	67.0%	<25%	ND(0.050) J	
						3,3'-Dimethylbenzidine	CCAL %D	32.4%	<25%	ND(0.010) J	
						4-Chlorobenzilate	CCAL %D	38.1%	<25%	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	34.4%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Aramite	CCAL %D	47.1%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	32.3%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	47.3%	<25%	ND(0.010) J	
						Hexachlorocyclopentadiene	ICAL %RSD	30.1%	<30%	ND(0.010) J	
						Hexachlorophene	ICAL RRF	0.029	>0.05	ND(0.020) J	
PCBs											
3J0P314	LS-29 Filtered	10/13/2003	Water	Tier II	No						
3J0P314	LS-29	10/13/2003	Water	Tier II	No						
3J0P377	GMA1-13 Filtered	10/15/2003	Water	Tier II	No						
3J0P377	GMA1-13	10/15/2003	Water	Tier II	No						
PCDDs/PCDFs											
3J0P314	LS-29	10/13/2003	Water	Tier II	Yes	1,2,3,4,6,7,8-HpCDF	Method Blank	-	-	ND(0.0000000026)	
3J0P377	GMA1-13	10/15/2003	Water	Tier II	Yes	1,2,3,4,6,7,8-HpCDF	Method Blank	-	-	ND(0.0000000025)	
						2,3,4,7,8-PeCDF	Method Blank	-	-	ND(0.00000000070)	
						HpCDDs (total)	Method Blank	-	-	ND(0.0000000018)	
						PeCDFs (total)	Method Blank	-	-	ND(0.00000000070)	
Sulfide and Cyanide											
3J0P314	LS-29 Filtered	10/13/2003	Water	Tier II	No						
3J0P314	LS-29	10/13/2003	Water	Tier II	No						
3J0P377	GMA1-13 Filtered	10/15/2003	Water	Tier II	No						
3J0P377	GMA1-13	10/15/2003	Water	Tier II	No						

TABLE E-1
ANALYTICAL DATA VALIDATION SUMMARY

GROUNDWATER MANAGEMENT AREA 1 GROUNDWATER QUALITY INTERIM REPORT FOR FALL 2003
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

(Results are presented in parts per million, ppm)

Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals											
3J0P250	B-2 Filtered	10/9/2003	Water	Tier II	No						
3J0P250	B-2	10/9/2003	Water	Tier II	No						
3J0P250	E-07 Filtered	10/9/2003	Water	Tier II	No						
3J0P250	E-07	10/9/2003	Water	Tier II	No						
3J0P250	LS-MW-6R Filtered	10/9/2003	Water	Tier II	No						
3J0P250	LS-MW-6R	10/9/2003	Water	Tier II	No						
3J0P295	ES1-05 Filtered	10/10/2003	Water	Tier I	No						
3J0P295	ES1-05	10/10/2003	Water	Tier I	No						
3J0P314	LS-29 Filtered	10/13/2003	Water	Tier II	Yes	Arsenic	CRDL Standard %R	67.8%	80% to 120%	ND(0.0100) J	
						Lead	CRDL Standard %R	130.7%	80% to 120%	ND(0.00300) J	
						Selenium	CRDL Standard %R	130.1%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	133.8%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
3J0P314	LS-29	10/13/2003	Water	Tier II	Yes	Arsenic	CRDL Standard %R	67.8%	80% to 120%	ND(0.0100) J	
						Beryllium	Method Blank	-	-	ND(0.20)	
						Copper	Method Blank	-	-	ND(0.025)	
						Lead	CRDL Standard %R	130.7%	80% to 120%	0.00250 J	
						Selenium	CRDL Standard %R	130.1%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	133.8%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	66.4%	80% to 120%	ND(0.0200) J	
3J0P377	DUP-2 Filtered	10/15/2003	Water	Tier II	No						NS-17
3J0P377	DUP-2	10/15/2003	Water	Tier II	No						NS-17
3J0P377	GMA1-13 Filtered	10/15/2003	Water	Tier II	Yes	Beryllium	Method Blank	-	-	ND(0.0010)	
						Copper	Method Blank	-	-	ND(0.025)	
						Silver	Method Blank	-	-	ND(0.0050)	
						Zinc	Method Blank	-	-	ND(0.020)	
3J0P377	GMA1-13	10/15/2003	Water	Tier II	Yes	Copper	Method Blank	-	-	ND(0.025)	
						Silver	Method Blank	-	-	ND(0.0050)	
3J0P377	NS-17 Filtered	10/15/2003	Water	Tier II	No						
3J0P377	NS-17	10/15/2003	Water	Tier II	No						
3J0P400	GMA1-9 Filtered	10/16/2003	Water	Tier I	No						
3J0P400	GMA1-9	10/16/2003	Water	Tier I	No						
3J0P400	HR-G1-MW-3 Filtered	10/16/2003	Water	Tier I	No						
3J0P400	HR-G1-MW-3	10/16/2003	Water	Tier I	No						
3J0P400	HR-G3-MW-1 Filtered	10/16/2003	Water	Tier I	No						
3J0P400	HR-G3-MW-1	10/16/2003	Water	Tier I	No						
3J0P400	NS-09 Filtered	10/16/2003	Water	Tier I	No						
3J0P400	NS-09	10/16/2003	Water	Tier I	No						
3J0P400	NS-20 Filtered	10/16/2003	Water	Tier I	No						
3J0P400	NS-20	10/16/2003	Water	Tier I	No						
3J0P428	N2SC-07S Filtered	10/17/2003	Water	Tier I	No						
3J0P428	N2SC-07S	10/17/2003	Water	Tier I	No						
3J0P428	NS-37 Filtered	10/17/2003	Water	Tier I	No						
3J0P428	NS-37	10/17/2003	Water	Tier I	No						