GE
159 Plastics Avenue
Pittsfield, MA 01201
USA

Transmitted via Overnight Courier

February 25, 2005

Mr. William P. Lovely, Jr.
U.S. Environmental Protection Agency
EPA New England
One Congress Street, Suite 1100
Boston, Massachusetts 02114-2023

Re: GE-Pittsfield/Housatonic River Site
Groundwater Management Area 3 (GECD330)
Groundwater Quality and NAPL Monitoring Interim Report for Fall 2004

Dear Mr. Lovely:

In accordance with GE's approved *Baseline Monitoring Program Proposal for Plant Site 2 Groundwater Management Area* (April 2001), enclosed is a report entitled *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Fall 2004* (Fall 2004 GMA 3 Baseline Report). This report summarizes activities performed at Groundwater Management Area (GMA) 3 (also known as the Plant Site 2 GMA) between July and December 2004, including the results of the fall 2004 round of sampling and analysis of groundwater performed as part of the baseline monitoring program for GMA 3 and the results of GE's non-aqueous phase liquid (NAPL) monitoring and recovery program in this area.

Please contact me if you have any questions or comments.

Sincerely,

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

Enclosure
V:\GE_Pittsfield_CD_GMA_3\Reports and Presentations\Fall 2004 Monitoring Report\0925CvrLtr.doc

cc: Dean Tagliaferro, EPA
Tim Conway, EPA (cover letter only)
Holly Inglis, EPA (CD-ROM)
Rose Howell, EPA (cover letter only)
K.C. Mitkevicius, USACE (CD-ROM)
Linda Palmieri, Weston (2 hard copies & CD-ROM)
Anna Symington, MDEP (cover letter only)
Robert Bell, MDEP (cover letter only)
Susan Steenstrup, MDEP (2 copies)
Thomas Angus, MDEP (cover letter only)
Mayor James Ruberto, City of Pittsfield
Pittsfield Commissioner of Public Health
Nancy E. Harper, MA AG
Dale Young, MA EOEA
Michael Carroll, GE (cover letter only)
Andrew Silfer, GE (CD-ROM)
Rod McLaren, GE (cover letter only)
Mark Harkness, GE
Andrew Hogeland, GE Advanced Materials
Steven Deloye, GE Advanced Materials
Jeff Gardner, Berkshire Community College
Kevin Boland, CSX Transportation
Cheryl Grosso, United States Navy
James Nuss, BBL
Jim Bieke, Goodwin Procter
John Ciampa, SPECTRA
Public Information Repositories
GE Internal Repositories

Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Fall 2004

General Electric Company
Pittsfield, Massachusetts

February 2005

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

Table of Contents

Tables

Figures

Appendices

1. Introduction

1.1 General

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

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

As part of the baseline program, GE is required to submit reports on a semi-annual basis to summarize the groundwater and NAPL monitoring and recovery results and, as appropriate, propose modification to the monitoring program. With regard to GMA 3, GE deferred the 2002 and 2003 sampling rounds (with EPA approval) because

certain property access issues could not be resolved prior to the scheduled performance of those sampling events. However, GE continued to perform NAPL and groundwater elevation monitoring on an interim basis at all locations for which access was available and collected groundwater samples from well 78B-R on a semi-annual basis for analysis of volatile organic compounds (VOCs) and, until fall 2003, PCBs.

The final property access issues were resolved by February 2004, and, beginning in spring 2004, GE commenced the full semi-annual baseline groundwater quality sampling program at GMA 3. That baseline monitoring program will continue for a minimum of two years. In fall 2004, under the baseline program, the GMA 3 monitoring wells were gauged to determine physical groundwater characteristics (i.e., gradient, flow direction, presence of NAPL) and/or sampled for analysis of PCBs and/or certain non-PCB constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethylvinyl ether, and 1,2-diphenyhydrazine (Appendix IX+3). This *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Fall 2004* (Fall 2004 GMA 3 Baseline Report) presents the results of groundwater sampling activities performed in October 2004, as well as certain other groundwater characterization and NAPL-related activities performed between July and December 2004.

1.2 Background Information

1.2.1 GMA Description

GMA 3 encompasses the portion of the Unkamet Brook Area (as defined in the CD and SOW) located to the east of Plastics Avenue, and occupies an area of approximately 103 acres (Figures 1 and 2). This area includes the eastern portion of GE's Pittsfield facility, which is generally bounded by Dalton Avenue to the north, Merrill Road to the south, Plastics Avenue to the west, and railroad tracks to the east. GMA 3 also contains commercial/recreational properties located between Merrill Road and the Housatonic River to the southeast of the facility. Unkamet Brook extends from northwest to southeast through the interior of this GMA, although a portion of the brook in the center of the area flows through underground culverts. The GE-owned portion of this GMA located west of Unkamet Brook is mostly paved and covered with large buildings. The GE-owned portion to the east of Unkamet Brook, as well as much of the land between Merrill Road and the Housatonic River, is undeveloped except for the area associated with Building OP-3 and the commercial area along Merrill Road.

Groundwater at GMA 3 generally flows in a southeasterly direction toward the Housatonic River, usually with a pattern that mimics the existing topography. However, localized variations in the flow direction exist due to fill materials used beneath building foundations in the GE Plastics area and the presence of Unkamet Brook. The subsurface conditions across GMA 3 are illustrated on cross-sections A-A' and B-B', presented as Figures 3 and 4,

respectively. The locations of these cross-sections are provided on Figure 2. Figures 5 and 6 illustrate groundwater elevations and flow direction using data collected during the summer 2004 and fall 2004 monitoring rounds, respectively. The groundwater elevation data utilized to prepare those figures is provided in Tables 3A and 3B. The horizontal hydraulic gradients are somewhat variable within GMA 3, but generally decrease toward the Housatonic River, corresponding to a flattening in the ground surface topography.

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

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

Most of the GMA 3 well clusters consist of an A-series well paired with a B-series well, and sometimes one or more of the deeper series wells. Consistent with prior monitoring data from the well clusters, the vertical component of the hydraulic gradient was variable in fall 2004. In general, groundwater flows downward in the northern part of the GMA, moves laterally across the central areas, and rises to the south, near the Housatonic River.

The presence of NAPL in GMA 3 has been documented in prior GE reports. NAPL has been observed near Building 59 in coarse gravel that was assumed to be fill material for the foundation of that building. NAPL also has been found in the vicinity of Building 51 and that NAPL may have originated from leakage of underground storage tanks located on the northeast side of that building. Previous investigations have identified the NAPL as a light non-aqueous phase liquid (LNAPL) in the soil at and above the groundwater table interface. The LNAPL east of Building 51 contains multiple constituents, including PCBs, polynuclear aromatic hydrocarbons (PAHs), ethylbenzene, xylenes, 1,2,4-trichlorobenzene, and 1,4-dichlorobenzene, among other constituents. By contrast, the LNAPL just north of Building 59 contains PCBs, a single low level SVOC, and no VOCs. Dense non-aqueous phase liquid (DNAPL) has not been encountered at any of the monitoring wells within GMA 3.

Distribution of the LNAPL has been confined to the vicinity of Buildings 51 and 59, along the western boundary of the GMA, due primarily to: (a) the generally low hydraulic gradients in this area; (b) the difference in grain size between the coarse fill materials near and beneath the buildings and the grain size of the surrounding native soils;

(c) an apparent groundwater mound present between Buildings 59 and 119, to the south of the NAPL area; and (d) the ongoing LNAPL recovery efforts (both automated and manual) conducted by GE. All locations where NAPL has been previously documented are shown on Figure 7, while the extent of NAPL observed in fall 2004 is illustrated on Figure 8. A discussion of the current extent of NAPL and the results of NAPL monitoring and recovery activities is provided in Section 4.5.

1.2.2 Baseline Monitoring Program

As discussed in Section 1.1 above, the CD and the SOW provide for the performance of groundwater-related activities at a number of 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 to be initiated at GMA 3 in the spring of 2002, but, as discussed above, access issues prevented performance of the full baseline monitoring program before spring 2004. The full baseline monitoring program is scheduled to continue for a two-year period from its commencement in spring 2004.

As set forth in the GMA 3 Baseline Monitoring Proposal, Addendum, and subsequent EPA-approved program modifications, the full baseline monitoring program at this GMA involves a total of 60 monitoring wells. All of these wells are to be monitored for groundwater elevations on a quarterly basis, while 21 of the wells are to be sampled on a semi-annual basis for analysis of PCBs and/or certain non-PCB Appendix IX+3 constituents. The specific groundwater quality parameters for each individual well were selected based on the monitoring objectives of the well. In addition, groundwater samples from 20 monitoring wells are to be collected on an annual basis for analysis of certain constituents (i.e., natural attenuation parameters) to assess intrinsic and natural processes that may be influencing VOC concentrations in groundwater. Finally, 25 monitoring wells that are not part of the semi-annual or annual sampling program are also routinely monitored for groundwater elevation and the presence of NAPL on an established schedule. The GMA 3 baseline monitoring program is summarized in Table 1 and the construction details of the monitoring wells are provided in Table 2. The well locations are shown on Figure 2.

Several of the baseline wells were not sampled under the GMA 3 baseline monitoring program prior to spring 2004 because certain property owners within this GMA had not given GE permission to access the locations of new or existing groundwater quality monitoring wells. Because of the access issues, in the *Groundwater Management Area 3 Baseline Groundwater Quality and NAPL Monitoring Interim Report for Spring 2002* (Spring 2002 GMA 3 Baseline Report) GE proposed to omit the fall 2002 groundwater sampling round if access could not be obtained to

the areas of those wells by September 30, 2002, and to conduct a minimum of 2 years of semi-annual baseline groundwater quality sampling beginning with the time that the necessary access was obtained. EPA approved this proposal. For the same reason, with EPA's approval, GE also deferred the spring 2003 and fall 2003 sampling rounds. All property access issues have since been resolved and baseline monitoring was commenced at all GMA 3 wells in spring 2004, except where wells were found to be unusable for sampling purposes.

In addition to the wells for which consent for property access had been an issue, another well (GMA3-1) was to be located in an area that was found to be inaccessible to drilling equipment because of marshy conditions. EPA agreed to defer the installation of well GMA3-1 until after the completion of future remediation activities (i.e., soil/sediment removal and the re-routing of Unkamet Brook) in this area.

1.3 Format of Document

The remainder of this report is presented in six sections. Section 2 describes the groundwater- and NAPL-related activities performed at GMA 3 in fall 2004. Section 3 presents the analytical results obtained during the fall 2004 sampling event. Section 4 provides a summary of the applicable groundwater quality and NAPL-related Performance Standards under the CD and SOW, an assessment of the groundwater quality results from fall 2004, including comparisons to the currently applicable groundwater quality Performance Standards and to the Upper Concentration Limits (UCLs) for groundwater, and an evaluation of the NAPL monitoring/recovery program. Section 5 proposes certain modifications to the current NAPL and baseline groundwater quality monitoring programs. Finally, Section 6 addresses the schedule for future field and reporting activities related to groundwater quality and NAPL presence at GMA 3, focusing in particular on the spring 2005 monitoring event.

2. Field and Analytical Procedures

2.1 General

The activities conducted as part of the fall 2004 semi-annual groundwater monitoring program primarily involved monitoring well installations, measurement of groundwater/NAPL levels, and the collection of groundwater samples from monitoring wells within GMA 3. Monitoring and recovery of LNAPL (if present) were routinely performed at the monitoring wells which are included in the NAPL monitoring program. All wells that were gauged for groundwater elevations, sampled for groundwater quality, and/or monitored for LNAPL during fall 2004 are identified in Table 1, and a site plan showing the groundwater monitoring/sampling locations described in this report is presented on Figure 2. This section discusses the procedures used to conduct those field activities, as well as the methods used to analyze the groundwater samples. All activities were performed in accordance with GE's approved *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP).

2.2 Well Installation and Development

Prior to the spring 2004 sampling event, GE conducted an inventory of the monitoring wells subject to sampling to assess the condition of the wells prior to sampling. Based on the inventory results, GE attempted to repair and/or re-develop wells that were found to obstructed or contained significant sediment accumulations so that these wells could be used to obtain groundwater samples. However, four monitoring wells (i.e., wells 6B, 54B, 82B, and 95B) that were to be utilized during the baseline monitoring program to compare groundwater quality with the MCP Method 1 GW-3 standards and seven natural attenuation monitoring wells (i.e., wells 16C, 16E, 89D, 95B, 95C, 111A, and 114C) were found to be unusable (note that well 95B was scheduled to be monitored as both a GW-3 and natural attenuation well). In most cases, significant portions of the well screens had filled with sediment that could not be removed by additional well development, and some of these wells were damaged beyond repair. GE discussed these situations with EPA during a technical meeting on May 21, 2004 and EPA provided verbal approval of GE's proposed responses, which were documented in a letter to EPA dated June 15, 2004. Those responses included decommissioning of each unusable well and installation of replacement wells at seven of the ten locations (i.e., wells 6B, 16C, 54B, 82B, 89D, 95B, and 111A). Well 114B was also added to the list of wells to be replaced, based on difficulties in obtaining groundwater samples in spring 2004. Wells 16E, 95C, and 114C were removed from the natural attenuation monitoring program.

GE installed six of these replacement wells (i.e., 6B-R, 16C-R, 82B-R, 95B-R, 111A-R, and 114B-R) prior to the fall 2004 baseline groundwater quality monitoring event. GE was unable to access the remaining two replacement well locations (i.e., wells 54B-R and 89D-R) due to flooded conditions in the vicinity of these wells, but plans to install these wells prior to the next monitoring event, if access is improved during the winter. The locations of the new replacement wells are shown on Figure 2. Table 2 shows the survey data and well construction details for these wells, along with the existing wells in the baseline monitoring program. Monitoring well logs for the new replacement wells are presented in Appendix A.

Following installation, the new monitoring wells were developed to remove fine materials (e.g., fine sand, silt, clay) that may have accumulated in the filter pack and to ensure that the well screen was transmitting groundwater representative of the surrounding formation. Well GMA3-4 was also redeveloped in response to elevated turbidities encountered during the prior sampling event in spring 2004. Development was performed by surging the saturated portion of the well screen with a surge block and removing groundwater with either a submersible, positive displacement, or peristaltic pump, depending on the quantity of water available.

2.3 Groundwater Elevation Monitoring

Summer 2004 and fall 2004 quarterly groundwater elevation monitoring was performed in July 2004 and October 2004, respectively. This activity involved the collection of groundwater level data at the locations listed in Tables 3A and 3B. Groundwater levels and NAPL thicknesses (where NAPL is present) were measured in accordance with the procedures specified in GE's approved FSP/QAPP. The July 2004 and October 2004 groundwater elevation data are presented in Tables 3A and 3B, respectively, and the data obtained from wells screened across or near the water table were used to prepare groundwater elevation contour maps (Figures 5 and 6, respectively).

Groundwater elevations were, on average, approximately 0.49 and 0.08 feet higher than the elevations measured during the respective prior seasonal monitoring events in summer 2003 and fall 2003 at locations measured during both monitoring events. Consistent with prior data, groundwater was found to generally flow toward the Housatonic River, with some localized variations in the vicinity of Buildings 51 and 59. LNAPL monitoring and recovery data for fall 2004 are summarized in Table 4 and Appendix C.

2.4 Groundwater Sampling and Analysis

The fall 2004 baseline sampling event was performed between October 6 and 22, 2004. Under the full baseline monitoring program, samples are scheduled to be collected from 21 monitoring wells during the fall sampling

rounds; however, full sample sets were collected from only 18 of those wells and a partial sample set was collected from one well, 111B, which did not yield sufficient groundwater volume to collect samples for all analyses. GE will replace this well prior to the next semi-annual sampling event. The two wells that were not sampled at all (i.e., wells GMA3-1 and 54B-R) have yet to be installed. As explained above, the installation of well GMA3-1, located in a marshy area, has been deferred until re-routing of Unkamet Brook, and well 54B-R could not be installed due to flooded conditions in the vicinity of that well. GE plans to install well 54B-R during the winter months when rig access may be more feasible.

Low-flow sampling techniques, using either a bladder or peristaltic pump, were generally utilized for the purging and collection of groundwater samples during this sampling event. The specific sampling method utilized, as well as a summary of any deviations from the low-flow sampling method specified in the FSP/QAPP, are listed in Appendix B. Each monitoring well was purged until field parameters (including temperature, pH, specific conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity) stabilized or the well was pumped dry. The field parameters were measured in combination with the sampling activities at all monitoring wells sampled. The data are summarized in Table 5 and the field sampling records are contained in Appendix B. A general summary of the fall 2004 field measurement results, collected just prior to sampling, for the monitoring event is provided below:

PARAMETER	UNITS	RANGE
Turbidity	Nephelometric turbidity units	1.0 - 53
pH	pH units	5.51 – 8.20
Specific Conductivity	Millisiemens per centimeter	0.282 – 12.060
Oxidation-Reduction Potential	Millivolts	-356.3 – 353.2
Dissolved Oxygen	Milligrams per liter	0.23 – 12.10
Temperature	Degrees Celsius	10.30 – 22.70

Only one well (OBG-2) did not achieve the sample turbidity goal of 50 nephelometric turbidity units (NTU) or less in fall 2004. This well is located to the south of OP-3 and produced moderately low turbidity samples during the previous sampling event at this well in spring 2004. Although well OBG-2 was purged at an extremely low pump setting over an extended period, the turbidity stabilized at a level slightly above the 50 NTU goal (53 NTU). GE will continue to attempt to collect lower turbidity samples from this well during future sampling events using low-flow purging and sampling techniques.

The collected groundwater samples were submitted to SGS Environmental Services of Charleston, West Virginia, for laboratory analysis. For all groundwater samples, except those from the wells that were monitored solely for

compliance with the GW-2 standards (discussed below), the samples were submitted for analysis of the following parameters using the associated EPA methods:

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

For groundwater samples collected from wells that are monitored solely for compliance with the GW-2 standards, the samples were submitted for analysis of the VOCs listed in GE's FSP/QAPP, as well as five select compounds listed as SVOCs in the FSP/QAPP (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene), using EPA Method 8260B, in accordance with a letter from GE to EPA dated February 20, 2002. The VOC sample collected from GW-3 well 111B was analyzed only for the five SVOCs because, as noted above, a sufficient quantity of groundwater could not be collected from this well to perform analyses for the remaining GW-3 parameters.

None of the groundwater samples collected during fall 2004 was analyzed for natural attenuation parameters, as these analyses are only conducted during the spring monitoring rounds.

Following receipt of the analytical data from the laboratory, the data were validated in accordance with the FSP/QAPP. The results of this data validation process are presented in Appendix F. As discussed in the data validation report, 99.7% of the fall 2004 groundwater quality data are considered to be useable, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP. The VOC and PCB results were found to be 100% usable. The validated analytical results are summarized in Section 3 and discussed in Section 4 below.

2.5 LNAPL Monitoring and Recovery

This section describes the results of the LNAPL monitoring and recovery activities performed by GE within GMA 3 from July through December 2004 (henceforth referred to as fall 2004), including the October 2004 semi-annual monitoring event and other routine monitoring conducted during that period. These activities primarily include the operation of the automated LNAPL recovery system at well 51-21, the routine measurement of groundwater elevations and NAPL thickness (if present), and the manual removal of NAPL if sufficient thickness is present. All activities were performed in accordance with GE's approved FSP/QAPP.

Approximately two weeks prior to the semi-annual monitoring event, GE monitored all wells where the presence of NAPL was noted during the prior year and manually removed any NAPL which was present. The purpose of these bailing rounds is to ensure that any NAPL present in a well is also present in the surrounding formation and not remnant oil which may have been trapped in the well since the prior removal event. The bailing round activities provide a consistent basis to compare the current presence and thickness of NAPL between wells that may otherwise be subject to varying NAPL removal schedules.

Routine LNAPL monitoring was conducted at the monitoring wells listed in Table 4 on a quarterly, monthly, and/or weekly basis. Table 4 also summarizes the fall 2004 LNAPL removal data on a well-by-well basis, and Table C-1 (Appendix C) presents a summary of all of the fall 2004 LNAPL measurements and removal quantities (when performed) for each well at GMA 3. Approximately 43 gallons of LNAPL were recovered between July and December 2004 at GMA 3. Of this total, approximately 28 gallons were removed by the automated skimmer system at well 51-21, and the remaining 15 gallons were manually recovered during routine monitoring events. Since 1997, approximately 870 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

Figure 7 depicts the historical maximum extent of LNAPL observed at GMA 3. That figure represents a compilation of past investigations and shows the maximum lateral extent of LNAPL that has been observed and documented in prior GE reports, and is not indicative of current conditions. Figure 8 indicates the extent of LNAPL observed during the semi-annual monitoring event conducted in October 2004. As shown on those two figures, the northern (upgradient) extent of LNAPL has decreased since the onset of the periodic LNAPL monitoring and recovery activities being conducted in this area. Consistent with historical monitoring results at this GMA, DNAPL was not encountered in any of the monitoring wells gauged during fall 2004.

3. Groundwater Analytical Results

3.1 General

This section presents a description of the fall 2004 groundwater analytical results. A summary of the full validated fall 2004 data set is provided in Appendix D, while the data validation report on these results is presented in Appendix F. Tables 6, 7, and 8 summarize the validated results for detected constituents in groundwater relative to the MCP Method 1 GW-2 and GW-3 standards and the MCP UCLs for groundwater, respectively. An assessment of these results relative to those groundwater quality standards and UCLs is provided in Section 4.

3.2 Baseline Groundwater Quality Results

3.2.1 VOC Results

Groundwater samples from 19 monitoring wells were analyzed for VOCs during the fall 2004 sampling event. The VOC analytical results for all constituents analyzed are summarized in Appendix D. No VOCs were detected in eight of the groundwater samples, while 9 individual VOCs were observed in the remaining 11 samples. The most commonly observed VOCs were chlorobenzene (detected in eight groundwater samples) and benzene (detected in six groundwater samples). Total VOC concentrations ranged from non-detect (in eight samples) to 4.3 parts per million (ppm) in monitoring well 78B-R.

3.2.2 SVOC Results

Groundwater samples from 11 monitoring wells were analyzed for SVOCs during the fall 2004 sampling event. Additionally, samples from seven GW-2 monitoring wells and one GW-3 monitoring well (i.e., well 111B, as discussed above) were analyzed for five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene) using EPA Method 8260B. The SVOC analytical results for all constituents analyzed are summarized in Appendix D. No SVOCs were detected in five of the groundwater samples that were analyzed for the entire SVOC list, while 13 individual SVOC constituents were observed in one or more of the remaining six such samples. The most commonly observed SVOC was 1,4-dichlorobenzene, which was detected in five of the six samples containing SVOCs.

In regard to the groundwater samples that were analyzed only for five select SVOCs, two of these constituents (1,3-dichlorobenzene and 1,4-dichlorobenzene) were detected in well 16B-R, while a single constituent was observed in

wells GMA3-2 (1,4-dichlorobenzene) and GMA3-8 (naphthalene). Each of these detected constituents was below the practical quantitation limit (PQL). No SVOCs were detected in the other five groundwater samples that were analyzed for the five select SVOC parameters.

3.2.3 PCB Results

Unfiltered and filtered groundwater samples from 11 monitoring wells were analyzed for PCBs as part of the fall 2004 sampling event. The PCB analytical results for all aroclors analyzed are summarized in Appendix D. PCBs were detected in six of the unfiltered groundwater samples and in four of the filtered groundwater samples. Total PCB concentrations in the unfiltered samples ranged from non-detect (in five samples) to 0.000502 ppm, while filtered sample concentrations ranged from non-detect (in seven samples) to 0.00038 ppm.

3.2.4 Pesticide/Herbicide Results

Groundwater samples from 11 monitoring wells were analyzed for pesticides and herbicides during the fall 2004 sampling event. The analytical results for the constituents analyzed are presented in Appendix D. No pesticides or herbicides were detected in any of the 11 groundwater samples analyzed, which is generally consistent with the spring 2004 sampling event, where only one organochlorine pesticide (4,4'-DDD) was detected in a single groundwater sample (well 114B) at an estimated value less than the PQL. The results from the spring 2004 and fall 2004 sampling events indicate that pesticide and herbicide compounds are not constituents of interest in groundwater at the developed portions of GMA 3. Therefore, as discussed in Section 5, GE is proposing to eliminate pesticide and herbicide analyses from selected monitoring wells during future groundwater quality monitoring events. EPA has approved a similar approach regarding pesticides and herbicides at the other Plant Site GMAs following the completion of two baseline sampling events and has also agreed that these analyses need be performed for soil samples collected from the same areas as part of the ongoing pre-design investigation for the Unkamet Brook Area RAA.

3.2.5 PCDD/PCDF Results

Groundwater samples from 11 monitoring wells were analyzed for PCDDs/PCDFs during the fall 2004 sampling event. The PCDD/PCDF analytical results are summarized in Appendix D. One individual PCDD/PCDF congener (OCDD) was observed in the groundwater sample from well 6B-R, while the samples were non-detect for all congeners in the remaining 10 wells. 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 the analytical detection limit for those compounds. Total TEQ concentrations ranged from 3.2×10^{-9} to 7.0×10^{-9} ppm.

3.2.6 Inorganics Results

Unfiltered and filtered groundwater samples from 11 monitoring wells were analyzed for inorganics during the fall 2004 sampling event. The inorganic analytical results for all inorganic constituents analyzed are summarized in Appendix D. There were 11 individual inorganic constituents that were detected in one or more of the unfiltered samples, while 10 inorganic constituents were detected in one or more filtered samples. The most commonly observed inorganics were barium (detected in all unfiltered and filtered samples), nickel (detected in seven unfiltered and six filtered samples), and zinc (detected in all unfiltered samples, but in no filtered samples).

4. Assessment of Results

4.1 General

This report constitutes the second groundwater quality/NAPL recovery monitoring report submitted since commencement of the full GMA 3 baseline groundwater monitoring program. Four other, limited, reports covering the period in which certain baseline groundwater quality monitoring activities could not be implemented due to property access issues have also been submitted. Conclusions developed herein are based on the laboratory results and field measurements obtained during the fall 2004 groundwater sampling event, supplemented with historical groundwater analytical data where available.

4.2 Performance Standards

4.2.1 Groundwater Quality Performance Standards

The Performance Standards applicable to response actions for groundwater at GMA 3 are set forth in Section 2.7 and Attachment H (Section 4.1) of the SOW. In general, the Performance Standards for groundwater quality are based on the groundwater classification categories designated in the 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 3 and are described below:

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

- GW-3 groundwater is defined as groundwater that discharges to surface water. By MCP definition, all groundwater at a site is classified as GW-3 since it is considered to be ultimately discharged to surface water. In accordance with the CD and SOW, all groundwater at GMA 3 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 3. The current MCP Method 1 GW-3 standards for the constituents detected in the fall 2003 sampling event are listed in Table 5. (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 3 consist of the following:

1. At monitoring wells designated as compliance points to assess GW-2 groundwater (i.e., groundwater located at an average depth of 15 feet or less from the ground surface and within 30 feet of an existing occupied building), groundwater quality shall achieve any of the following:

   (a) the Method 1 GW-2 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-2 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or

   (b) alternative risk-based GW-2 standards developed by GE and approved by EPA as protective against unacceptable risks due to volatilization and transport of volatile chemicals from groundwater to the indoor air of nearby occupied buildings; or

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

2. Groundwater quality shall ultimately achieve the following standards at the perimeter monitoring wells designated as compliance points for GW-3 standards:

(a) the Method 1 GW-3 groundwater standards set forth in the MCP (or, for constituents for which no such standards exist, Method 2 GW-3 standards once developed, unless GE provides and EPA approves a rationale for not developing such Method 2 standards); or

(b) alternative risk-based GW-3 standards proposed by GE and approved by EPA as protective against unacceptable risks in surface water due to potential migration of constituents in groundwater.

These Performance Standards are to be applied to the results of the individual monitoring wells included in the monitoring program. Several monitoring wells have been designated as the compliance points for attainment of the Performance Standards identified above. In addition, at GMA 3, a number of wells are designated as natural attenuation monitoring wells, which are used to evaluate natural attenuation mechanisms in groundwater. The GW-2, GW-3, and natural attenuation monitoring wells at this GMA were identified in the GMA 3 Baseline Monitoring Proposal Addendum and are listed in Table 1.

4.2.2 NAPL-Related Performance Standards

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

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

2. For areas near surface waters in which there is no physical containment barrier between the wells and the surface water, elimination of measurable NAPL (i.e., detectable with an oil/water interface probe) in wells near the

surface water bank that could potentially discharge NAPL into the surface water, in order to prevent such discharge and assist in achieving groundwater quality Performance Standards.

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

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

5. For NAPL detected in wells designed to assess GW-2 groundwater (i.e., located at average depths of 15 feet or less from the ground surface and within a horizontal distance of 30 feet from an existing occupied building), a demonstration that constituents in the NAPL do not pose an unacceptable risk to occupants of such building via volatilization and transport to the indoor air of such building. Such demonstration may include assessment activities such as: NAPL sampling, soil gas sampling, desk-top modeling of potential volatilization of chemicals from the NAPL (or associated groundwater) to the indoor air of the nearby occupied buildings, or sampling of the indoor air of such buildings. If necessary, GE shall propose corrective actions, including, but not limited to, containment, recovery, or treatment of NAPL and impacted groundwater.

In addition to these Performance Standards, GE has developed and implemented site-wide criteria for NAPL monitoring and manual recovery requirements, standard procedures for assessment of new NAPL occurrences, and the feasibility of the installation of new recovery systems. In response, GE proposed several NAPL monitoring program guidelines in the Fall 2001 NAPL Monitoring Report for GMA 1 (conditionally approved by EPA on August 29, 2002) and subsequently implemented the approved guidelines across all GMAs. Those guidelines were incorporated into the most recent revision to GE's *Field Sampling Plan/Quality Assurance Project Plan* (FSP/QAPP) submitted to EPA on June 15, 2004.

4.3 Groundwater Quality

The analytical results from the fall 2004 groundwater sampling event were compared to the applicable MCP Method 1 GW-2 and GW-3 standards and to the UCLs for groundwater. These comparisons are summarized in Tables 6, 7, and 8 (for the GW-2 standards, GW-3 standards, and UCLs, respectively) and are discussed in the following subsections.

4.3.1 Groundwater Results Relative to GW-2 Performance Standards

Groundwater samples were collected from all ten designated GW-2 monitoring wells (16B-R, 51-14, GMA3-2, GMA3-4, GMA3-5, GMA3-6, GMA3-7, GMA3-8, GMA3-9, and OBG-2) in fall 2004. The fall 2004 groundwater analytical results for all detected constituents subject to MCP Method 1 GW-2 standards and a comparison of those results with the applicable MCP Method 1 GW-2 standards are presented in Table 6. As shown in Table 6, none of the fall 2004 sample results from the GW-2 monitoring wells exceeded the GW-2 standards. In addition, none of the GW-2 wells exhibited total VOC concentrations above 5 ppm (the level specified in the SOW as a notification level for GW-2 wells within 30 feet of a school or occupied residential structure and as a trigger level for the proposal of interim response actions).

4.3.2 Groundwater Results Relative to GW-3 Performance Standards

A total of 12 of the 14 monitoring wells at GMA 3 designated as GW-3 monitoring wells (6B-R, 78B-R, 82B-R, 89B, 90B, 95B-R, 111B, 114B-R, GMA3-3, GMA3-5, GMA3-6, and GMA3-7) were sampled in fall 2004. As discussed above, one of the remaining GW-3 monitoring wells (54B) is unusable for sampling purposes, but has yet to be replaced, while the final well (GMA3-1) will not be installed until after the completion of future remediation activities and the re-routing of Unkamet Brook. In addition, as also discussed above, well 111B was only sampled for a limited parameter set due to lack of groundwater in the well. The fall 2004 groundwater analytical results for all detected constituents and a comparison of those results with the applicable MCP Method 1 GW-3 standards are presented in Table 7.

In comparing the baseline monitoring results for PCBs and inorganic constituents to the Method 1 GW-3 standards, 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. Accordingly, the unfiltered sample results for these constituents were used only for comparison to the MCP UCLs (discussed in Section 4.3.3 below).

The comparisons set forth in Table 7 indicate that the only exceedances of the Method 1 GW-3 standards at GW-3 monitoring wells were for chlorobenzene in four wells and a slight exceedances for PCBs in a single well. Specifically, chlorobenzene concentrations detected in the samples from GW-3 perimeter wells 6B-R (0.92 ppm), 78B-R (2.3 ppm), 89B (estimated concentration of 0.56J ppm, with a duplicate sample concentration of 0.01 ppm), and 114B-R (1.0 ppm) exceed the Method 1 GW-3 standard of 0.5 ppm. With regard to PCBs, concentrations detected in the filtered sample from GW-3 perimeter well 78B-R (0.00038 ppm) slightly exceed the Method 1 GW-3 standard of 0.0003 ppm.

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

For the four wells where the Method 1 GW-3 standard for chlorobenzene was exceeded (wells 6B-R, 78B-R, 89B, and 114B-R), prior VOC data has shown similar or greater concentrations than those detected during fall 2004. In addition, these wells are located in the vicinity of a known chlorobenzene plume. Although this is the first sampling event where PCB concentrations above the Method 1 GW-3 standard were observed in filtered samples collected from well 78B-R, prior data from unfiltered samples collected from this well showed PCB concentrations at levels greater than 0.0003 ppm during each sampling event. Therefore, GE's proposed response action to address these exceedances is to continue the baseline sampling program, as discussed further in Section 6.2.3.

4.3.3 Comparison to Upper Concentration Limits

In addition to comparing the fall 2004 groundwater analytical results with applicable MCP Method 1 GW-2 and GW-3 standards, all detected constituents have also been compared with the groundwater UCLs specified in the MCP (310 CMR 40.0996(7)), as presented in Table 8. The results shown on Table 8 indicate that no constituents were detected at levels above the applicable UCLs during this sampling event.

4.4 Overall Assessment of Analytical Results

Graphs illustrating historical concentrations of total VOCs and filtered and unfiltered PCBs, along with the fall 2004 concentrations, are provided in Appendix E for all wells sampled in fall 2004 that have been previously sampled and analyzed for those constituents. In addition, Appendix E contains graphs of historical concentrations of individual constituents (e.g., chlorobenzene) that exceeded the applicable MCP Method 1 GW-3 standards or UCLs at GW-3 monitoring wells during any of the prior baseline monitoring program sampling events that were analyzed for those constituents in fall 2004.

Since the fall 2004 monitoring event constitutes the second sampling event at most locations under the GMA 3 baseline monitoring program, and the first sampling event at some locations, the amount of data available to assess any trends in constituent concentrations is limited in some wells. However, based on a review of the Concentration vs. Time graphs presented in Appendix E, it appears that concentrations of total VOCs are below their historical high levels in most of the wells where prior data are available.

4.5 Evaluation of NAPL Monitoring and Recovery Activities

This section discusses the effectiveness of the existing NAPL monitoring and recovery program at GMA 3 and proposes certain modifications to optimize operations in the future. In general, the ongoing NAPL recovery operations at GMA 3 have proven effective in removing LNAPL from the subsurface and in preventing LNAPL migration. As discussed in Section 2.5, approximately 43 gallons of LNAPL were recovered at GMA 3 in fall 2004. Of this total, approximately 28 gallons were removed by the automated skimmer system at well 51-21, and the remaining 15 gallons were manually recovered from other monitoring wells (see Table 4). For comparison, over the same time period in fall 2003, approximately 58.5 gallons of LNAPL were recovered at GMA 3 (approximately 52.5 gallons by the automated skimmer system at well 51-21, and approximately 6 gallons from other monitoring wells). Since 1997, over 870 gallons of LNAPL have been removed from GMA 3 as part of GE's NAPL monitoring and recovery program.

The historical maximum extent of measurable LNAPL at GMA 3 is illustrated on Figure 7, while the extent of LNAPL observed in October 2004 is shown on Figure 8. These figures show a decrease in the extent of measurable LNAPL observed in fall 2004 compared to the known maximum extent, particularly along the northern edge of the LNAPL area. This reduction may, at least in part, be attributable to GE's NAPL recovery program, which includes an automatic skimmer system in well 51-21 and routine manual recovery of LNAPL at surrounding locations. In comparison to the prior fall, the extent of LNAPL reflected in Figure 8 appears to be slightly larger in comparison to the prior fall, due to the installation of new wells GMA3-10 and GMA3-12, and the detection of NAPL at those wells. Since these wells, which are located to the west of Building 51, were just installed in spring 2004, there was no prior data available to confirm the presence or absence of LNAPL in this area. Therefore, it cannot be determined whether there is any actual expansion of the extent of LNAPL in the area of well GMA3-10. Other than the reduction in LNAPL along the northern edge of the LNAPL area and detection of LNAPL in the new wells, the extent of LNAPL has remained relatively consistent for several years.

Although this NAPL monitoring and recovery program appears to be effective in preventing the migration of NAPL, certain modifications to the NAPL monitoring program have recently been proposed by GE and approved by EPA

(e.g., installation of additional monitoring wells to the west of Building 51 and the performance of LNAPL recovery testing at well GMA3-12). These modifications are discussed in detail in Section 5.4.

5. Groundwater and NAPL Monitoring Program Modifications

5.1 General

This section contains GE's proposed modifications to future groundwater and NAPL monitoring activities at GMA 3. These activities are proposed to address the fall 2004 groundwater sampling and NAPL monitoring results at GMA 3. This section also includes a description of the implementation of recently-approved modifications to the baseline groundwater and NAPL monitoring program that were proposed in the Spring 2004 GMA 3 Baseline Report (conditionally approved by EPA in a letter dated December 7, 2004) and in GE's January 20, 2005 letter to EPA (conditionally approved by EPA in a letter dated February 10, 2005).

5.2 Baseline Groundwater Quality Monitoring Program Modifications

5.2.1 Replacement Well Installations

As discussed in Section 2.2, in spring 2004, GE found that several baseline groundwater quality and natural attenuation monitoring wells were unusable for sampling purposes. The approach approved by EPA, i.e., decommissioning of the wells and installation of replacement wells at certain locations, was described in GE's June 15, 2004 letter. GE installed replacement wells 6B-R, 82B-R, 95B-R, 111A-R, and 114B-R prior to the fall 2004 sampling event, but was unable to install the remaining wells (54B-R and 89D-R) due to marshy field conditions. GE will again attempt to install these wells, under the assumption that winter conditions (e.g., lowered water levels and frozen terrain) will permit access to the well locations. In addition, well 111B was found to contain insufficient groundwater for sampling purposes in fall 2004 and will also be replaced. Details concerning these well installations will be provided in the next semi-annual report.

Additionally, EPA and GE have previously agreed that installation of well GMA3-1 may be deferred until after completion of future remediation actions in this area, including the re-routing of Unkamet Brook.

5.2.2 Response to Exceedances of MCP Method 1 GW-3 Standard

As discussed in Section 4.3.2, chlorobenzene was detected above the MCP Method 1 GW-3 standard at perimeter wells 6B-R, 78B-R, 89B and 114B-R, while PCBs were detected above the MCP Method 1 GW-3 standard at perimeter well 78B-R. Chlorobenzene had previously been detected at these wells (or at their predecessors for

replacement wells) at higher concentrations than those found during fall 2004. As shown in the graphs in Appendix E, chlorobenzene concentrations at wells 6B/6B-R and 89B are significantly lower than their historical high levels, while concentrations at well 78B-R have remained relatively consistent over the time this well has been monitored. The fall 2004 chlorobenzene concentration at well 114B-R (which was sampled for the first time as a replacement for well 114B) was slightly higher than those observed during the prior several sampling events at well 114B, but still within the range of historical concentrations at this location. Moreover, these wells are located within the known chlorobenzene plume at GMA 3. PCB data from well 78B-R is available from two sampling rounds conducted prior to fall 2004. As shown in the graphs in Appendix E, the current sampling event is the first round where PCBs were detected in the filtered samples. However, PCBs have consistently been detected in the unfiltered samples collected from this well and the 2004 concentrations are significantly lower than the initial sampling event conducted in spring 2002. GE proposes to conduct continued monitoring at these wells, which will enable GE to further identify possible trends within the data.

5.2.3 Elimination of Certain Pesticide and Herbicide Analysis

During the fall 2004 sampling event, groundwater samples were collected from 11 wells for analysis of pesticide and herbicide compounds. The results from this event and the spring 2004 sampling event indicated that only one of the Appendix IX pesticide or herbicide compounds were detected in a single groundwater sample. Based on the predominant absence of these compounds over two consecutive sampling events, which were performed under low and high groundwater conditions, GE believes that pesticides and herbicides are not constituents of interest in GMA 3 groundwater. Furthermore, EPA has approved the elimination of pesticide/herbicide analyses for soil samples collected at the GE-owned industrial areas at this RAA during the pre-design investigation for Unkamet Brook. Available soils data from other areas within the Unkamet Brook RAA that have been collected during the ongoing pre-design investigation indicate that the majority of the pesticide/herbicide results were non-detect, and that, where detected, the distribution is limited to the marshy areas to the north of Merrill Road and, to a lesser extent, in the northern portion of the marshy area to the south of Merrill Road and east of Unkamet Brook.

Therefore, GE proposes to eliminate the analysis of groundwater samples for pesticides and herbicides from wells located within GE-owned industrial areas and the western and southernmost GW-3 monitoring wells for the remainder of the GMA 3 baseline monitoring program. At the present time, GE will continue to analyze groundwater samples for these parameters at certain locations within the eastern and northern areas of the Unkamet Brook RAA, where pesticides have been detected in pre-design investigation soil samples. Specifically, GE proposes to continue pesticide and herbicide analyses at wells GMA3-1, GMA3-3, 54B-R, 78B-R, 6B-R, 82B-R,

89B, 90B, 95B-R, and 114B-R and to eliminate this parameter from future sampling events at wells GMA3-5, GMA3-6, GMA3-7, and 111B-R.

5.3 NAPL Monitoring and Recovery Program Modifications

The NAPL monitoring and recovery program that is in place at GMA 3 appears to be effective in identifying and reducing the extent of NAPL in the area of Buildings 51 and 59. GE plans to continue the existing program (i.e., operation of the automated system and routine monitoring and manual removal at other monitoring wells); however, the following previously-proposed modifications to the GMA 3 NAPL monitoring program have recently been approved by EPA and will shortly be implemented:

- GE will continue to monitor wells GMA3-10 and GMA3-12 on a weekly basis, but to implement the standard criteria for LNAPL removal, i.e., observed thickness of greater than 0.25 feet, rather than removing any LNAPL present.

- GE will conduct LNAPL removal testing at well GMA3-12 to assess whether the installation of an automated LNAPL recovery system would be feasible. Specifically, GE will remove LNAPL accumulations from this well over a two- to three-day testing period, initially on an hourly basis, and document the rate and volume of LNAPL returning to each well.

- GE will install two new monitoring wells (to be designated as wells GMA3-13 and GMA3-14) at the locations shown on Figure 2, and will utilize the new wells as monthly LNAPL monitoring locations. Each well will be installed with 10-foot screen sections positioned to straddle the water table, or, if groundwater is very close to the ground surface, as shallow as possible. GE will utilize the boring observations and monitoring results from these wells to further assess whether LNAPL is present near the sanitary sewer line beneath Plastics Avenue. If LNAPL is observed in either of these wells, GE will perform a visual inspection of this line at manholes located along Plastics Avenue to the west of the known NAPL area. If the presence of NAPL is detected within the manholes, samples of both sediment and NAPL -- or, if there is insufficient NAPL to sample, the sediment and water – will be collected for analysis of PCBs.

- GE will monitor well GMA4-3 (located on the western side of Plastics Avenue) on a monthly basis to verify that NAPL has not migrated in that direction.

- GE will collect LNAPL samples from monitoring wells GMA3-10 and UB-PZ-3 (located to the west of Building 51) and 51-8 (located to the east of Building 51). To assess the potential for volatilization, the LNAPL samples will be analyzed for VOCs and five select SVOCs (1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, and naphthalene), using EPA Method 8260B.

The results of these NAPL-related activities will be presented in the next semi-annual NAPL monitoring report. In addition, GE will provide an evaluation of the potential volatilization of constituents detected in the LNAPL samples to assess whether components of the LNAPL could impact indoor air quality in this area.

6. Schedule of Future Activities

6.1 General

Schedule requirements related to the baseline monitoring programs were generally identified in Attachment H to the SOW and further clarified in the GMA 3 Baseline Monitoring Proposal. This section primarily addresses scheduling issues relating to the recently-approved program modifications and the upcoming spring 2005 monitoring event.

6.2 Field Activities Schedule

GE is currently coordinating the well installation activities discussed in Section 5.2.1 and 5.3 above and will develop the new wells in March 2005 in order to allow the wells sufficient time to equilibrate prior to the spring sampling round.

GE plans to conduct the LNAPL recovery testing at well GMA3-12 and LNAPL sampling at wells GMA3-10, UB-PZ-3, and 51-8 in March 2005, in conjunction with the development of the new monitoring wells.

GE has recently completed its quarterly water level monitoring round for winter 2004-2005 and will continue its routine weekly and monthly groundwater elevation and NAPL monitoring according to the schedule approved by EPA. In accordance with the approved semi-annual monitoring schedule, the spring 2005 groundwater elevation monitoring and sampling events are currently scheduled for April 2005. GE will also conduct a NAPL bailing round approximately one to two weeks prior to the spring 2005 semi-annual groundwater elevation monitoring event

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

6.3 Reporting Schedule

GE will submit the spring 2005 Baseline Groundwater Quality and NAPL Monitoring Interim Report for GMA 3 by August 31, 2005, in accordance with the previously approved reporting schedule. GE will also continue to provide the results of its ongoing groundwater monitoring activities and NAPL monitoring and recovery efforts in its monthly reports on overall activities at the GE-Pittsfield/Housatonic River Site.

Tables

TABLE 1
MONITORING PROGRAM SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Frequency	Sampling Frequency	Well Designation / Analytical Category	Well Utilized in Fall 2004	Comments
2A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
6B-R	Quarterly	Semi-Annual	GW-3 Perimeter	Yes	Replacement for well 6B.
16A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
16B-R	Quarterly	Semi-Annual / Annual	Semi-Annual Sampling: GW-2 Sentinel/ Annual Sampling: Natural Attenuation	Yes	GW-2 Sampling Only (Natural Attenuation Sampling only conducted in spring rounds)
16C-R	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
39B-R	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
39D	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
39E	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
43A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
43B	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
50B	Quarterly	None	None - Groundwater Elevation Monitoring Only	Yes	
51-05	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-06	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-07	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-08	Weekly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-09	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	

TABLE 1
MONITORING PROGRAM SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Frequency	Sampling Frequency	Well Designation / Analytical Category	Well Utilized in Fall 2004	Comments
51-11	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-12	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-13	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	No	Well was dry during each monitoring round in fall 2004.
51-14	Monthly	Semi-Annual	GW-2 Sentinel	Yes	
51-15	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-16R	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-17	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-18	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-19	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
51-21	Quarterly	None	None - Groundwater Elevation/NAPL Monitoring & NAPL Recovery Only	Yes	LNAPL skimmer present in well.
54B	Quarterly	Semi-Annual	GW-3 Perimeter	No	Well found to be unusable and not sampled. Replacement well 54B-R to be installed.
59-01	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
59-03R	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
59-07	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
78B-R	Quarterly	Semi-Annual	GW-3 Perimeter	Yes	
82B-R	Quarterly	Semi-Annual	GW-3 Perimeter	Yes	Replacement for well 82B.

TABLE 1
MONITORING PROGRAM SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Frequency	Sampling Frequency	Well Designation / Analytical Category	Well Utilized in Fall 2004	Comments
89A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
89B	Quarterly	Semi-Annual / Annual	Semi-Annual Sampling: GW-3 Perimeter/ Annual Sampling: Natural Attenuation	Yes	GW-3 Sampling Only During Fall (Natural Attenuation Sampling only conducted in spring rounds)
89D	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only. Replacement well 89D-R to be installed prior to spring sampling.
90A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
90B	Quarterly	Semi-Annual / Annual	Semi-Annual Sampling: GW-3 Perimeter/ Annual Sampling: Natural Attenuation	Yes	GW-3 Sampling Only During Fall (Natural Attenuation Sampling only conducted in spring rounds)
95A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
95B-R	Quarterly	Semi-Annual / Annual	Semi-Annual Sampling: GW-3 Perimeter/ Annual Sampling: Natural Attenuation	Yes	Replacement for well 95B. GW-3 Sampling Only (Natural Attenuation Sampling only conducted in spring rounds)
111A-R	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
111B	Quarterly	Semi-Annual / Annual	Semi-Annual Sampling: GW-3 Perimeter/ Annual Sampling: Natural Attenuation	Yes	Insufficient quantity of groundwater available to collect complete sample set - only VOCs collected.
114A	Quarterly	Annual	Natural Attenuation	Yes	Groundwater Elevation Monitoring Only During Fall (Samples only collected in spring rounds)
114B-R	Quarterly	Semi-Annual / Annual	Semi-Annual Sampling: GW-3 Perimeter/ Annual Sampling: Natural Attenuation	Yes	Replacement for well 114B. GW-3 Sampling Only (Natural Attenuation Sampling only conducted in spring rounds)
GMA3-1	Quarterly	Semi-Annual	GW-3 Perimeter	No	Installation of this well has been deferred until re-routing of Unkamet Brook is completed.
GMA3-2	Quarterly	Semi-Annual	GW-2 Sentinel	Yes	
GMA3-3	Quarterly	Semi-Annual	GW-3 Perimeter	Yes	
GMA3-4	Quarterly	Semi-Annual	GW-2 Sentinel	Yes	

TABLE 1
MONITORING PROGRAM SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Monitoring Frequency	Sampling Frequency	Well Designation / Analytical Category	Well Utilized in Fall 2004	Comments
GMA3-5	Quarterly	Semi-Annual	GW-2 Sentinel/ GW-3 Perimeter	Yes	
GMA3-6	Quarterly	Semi-Annual	GW-2 Sentinel/ GW-3 Source Area Sentinel	Yes	
GMA3-7	Quarterly	Semi-Annual	GW-2 Sentinel/ GW-3 Perimeter	Yes	
GMA3-8	Quarterly	Semi-Annual	GW-2 Sentinel	Yes	
GMA3-9	Quarterly	Semi-Annual	GW-2 Sentinel	Yes	
GMA3-10	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
GMA3-11	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
GMA3-12	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
OBG-2	Quarterly	Semi-Annual	GW-2 Sentinel	Yes	
UB-MW-10	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
UB-PZ-1	Quarterly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
UB-PZ-2	Quarterly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	
UB-PZ-3	Monthly	None	None - Groundwater Elevation/NAPL Monitoring Only	Yes	

Notes:

1. Monitoring consists of periodic depth to water and NAPL thickness measurements, if present. LNAPL is manually removed from a well if a thickness of greater than 0.25 feet is observed during a monitoring event (except at well 51-21, which is equipped with an automated skimmer).
2. Sampling consists of semi-annual or annual sampling and analysis. Analytical parameters based on well designation (i.e., GW-2 Sentinel, GW-3 Perimeter, GW-3 Source Area Sentinel, &/or Natural Attenuation).

TABLE 2
MONITORING WELL CONSTRUCTION SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft bgs)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)	Average Depth to Groundwater (ft bgs)	Average Groundwater Elevation (ft AMSL)
	Northing	Easting									
2A	537005.10	138853.90	1.00	991.50	994.16	45.00	5.00	946.50	941.50	5.8	985.72
6B-R	537191.50	138910.00	2.00	991.40	993.62	2.00	10.00	989.40	979.40	5.2	986.22
16A	536730.50	139115.60	2.00	991.50	991.77	44.00	6.00	947.50	941.50	7.2	984.30
16B-R	536856.80	139061.70	2.00	991.80	994.87	3.08	10.00	988.72	978.72	6.3	985.49
16C-R	536734.00	139112.40	2.00	991.40	991.47	90.00	10.00	901.40	891.40	8.2	983.21
16E	536730.30	139112.70	1.00	991.40	992.14	144.00	6.00	847.40	841.40	7.3	984.11
34B	536293.70	138394.20	2.00	1,000.50	1,000.56	20.00	5.00	980.50	975.50	14.9	985.60
35B	536443.40	138525.40	2.00	998.03	997.36	18.00	5.00	980.03	975.03	12.6	985.40
39B-R	536938.60	138862.60	2.00	992.29	991.97	4.00	10.00	988.29	978.29	6.4	985.86
39D	536948.40	138857.90	4.00	992.34	992.16	56.00	10.00	936.34	926.34	6.7	985.68
39E	536932.10	138851.00	4.00	992.34	992.21	225.00	10.00	767.34	757.34	6.2	986.14
43A	538081.20	137905.90	1.00	991.90	993.79	45.00	5.00	946.90	941.90	5.7	986.17
43B	538081.20	137904.40	1.00	991.90	993.61	15.00	5.00	976.90	971.90	4.4	987.47
50B	538647.00	139106.20	2.00	989.72	991.72	8.50	5.00	981.22	976.22	1.3	988.44
51-05	536750.50	138335.60	2.00	996.91	996.44	5.00	10.00	991.91	981.91	10.7	986.23
51-06	536937.64	138194.32	2.00	997.57	997.36	5.00	10.00	992.57	982.57	11.1	986.43
51-07	536843.80	138244.60	2.00	997.26	997.08	5.00	10.00	992.26	982.26	10.9	986.38
51-08	536677.80	138317.00	2.00	997.39	997.08	5.00	10.00	992.39	982.39	11.5	985.91
51-09	536563.70	138370.30	2.00	997.76	997.70	5.00	10.00	992.76	982.76	10.1	987.64
51-11	536860.00	138774.50	2.00	994.62	994.37	5.00	10.00	989.62	979.62	8.8	985.82
51-12	536497.30	138518.50	2.00	996.83	996.55	5.00	10.00	991.83	981.83	7.7	989.12
51-13	536917.10	138579.80	2.00	997.68	997.65	5.00	10.00	992.68	982.68	10.4	987.24
51-14	536771.40	138502.60	2.00	996.93	996.77	5.00	10.00	991.93	981.93	10.9	986.07
51-15	536808.20	138306.30	2.00	996.68	996.43	5.00	10.00	991.68	981.68	10.6	986.08
51-16R	536830.20	138347.60	2.00	996.70	996.39	5.00	10.00	991.70	981.70	10.3	986.41
51-17	536769.90	138377.40	2.00	996.48	996.43	5.00	10.00	991.48	981.48	10.3	986.18
51-18	536902.90	138463.40	2.00	997.38	997.12	5.00	10.00	992.38	982.38	11.3	986.12

TABLE 2
MONITORING WELL CONSTRUCTION SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft bgs)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)	Average Depth to Groundwater (ft bgs)	Average Groundwater Elevation (ft AMSL)
	Northing	Easting									
51-19	536823.20	138414.80	2.00	996.65	996.43	5.00	10.00	991.65	981.65	10.7	985.97
51-21	536767.70	138442.35	4.00	996.70	1,001.49	5.00	10.00	991.70	981.70	10.7	986.01
54B	537852.80	139081.90	2.00	987.30	987.96	8.50	5.00	978.80	973.80	1.1	986.20
59-01	536488.80	138238.60	2.00	997.78	996.72	4.00	20.00	993.78	973.78	11.0	986.82
59-03R	536501.00	138260.70	2.00	997.82	997.64	7.30	10.00	990.52	980.52	11.9	985.97
59-07	536517.40	138296.10	2.00	998.27	997.96	4.00	20.00	994.27	974.27	12.2	986.06
78B-R	537551.80	138716.50	2.00	989.11	988.83	1.82	10.00	987.29	977.29	1.8	987.30
82B-R	536937.40	139621.60	2.00	987.80	989.90	2.00	10.00	985.80	975.80	3.2	984.63
89A	536030.80	139413.40	1.00	983.60	985.76	43.00	5.00	940.60	935.60	1.4	982.23
89B	536031.60	139411.70	2.00	983.10	986.03	4.00	3.00	979.10	976.10	0.3	982.76
89D	536025.90	139415.70	1.00	984.20	985.42	70.00	5.00	914.20	909.20	2.4	981.78
90A	536254.90	139765.40	1.00	986.50	988.07	45.00	5.00	941.50	936.50	3.8	982.68
90B	536251.60	139761.00	2.00	986.50	989.10	8.00	3.00	978.50	975.50	4.1	982.36
95A	535822.10	139769.60	1.00	985.30	987.18	45.00	5.00	940.30	935.30	4.7	980.58
95B-R	535637.20	139722.30	2.00	984.30	986.24	3.00	10.00	981.30	971.30	3.5	980.82
95C	535823.20	139780.30	1.00	985.30	988.16	95.00	5.00	890.30	885.30	1.5	983.83
111A-R	535824.10	139087.80	2.00	995.10	997.35	40.00	10.00	955.10	945.10	11.8	983.35
111B	535820.40	139083.80	2.00	994.90	996.75	10.00	5.00	984.90	979.90	11.8	983.09
114A	535499.50	139775.20	1.00	983.20	986.16	45.00	5.00	938.20	933.20	3.8	979.39
114B-R	535503.90	139786.90	2.00	983.50	985.54	4.00	10.00	979.50	969.50	4.5	978.98
114C	535500.50	139792.80	1.00	983.70	986.68	88.00	5.00	895.70	890.70	3.8	979.91
GMA3-2	536596.40	138956.60	2.00	992.25	991.94	5.19	10.00	987.06	977.06	7.9	984.32
GMA3-3	538094.20	138178.20	2.00	990.86	990.45	2.00	10.00	988.86	978.86	2.5	988.36
GMA3-4	537044.70	138021.80	2.00	994.94	994.60	3.57	10.00	991.37	981.37	7.5	987.42
GMA3-5	537323.20	139766.90	2.00	991.50	993.67	4.00	10.00	987.50	977.50	6.0	985.47
GMA3-6	537021.50	138342.30	2.00	997.74	997.49	8.00	10.00	989.74	979.74	11.2	986.50
GMA3-7	536291.70	138397.40	2.00	1000.45	1000.17	10.00	10.00	990.45	980.45	13.8	986.62

TABLE 2
MONITORING WELL CONSTRUCTION SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Survey Coordinates		Well Diameter (inches)	Ground Surface Elevation (ft AMSL)	Measuring Point Elevation (ft AMSL)	Depth to Top of Screen (ft bgs)	Screen Length (ft)	Top of Screen Elevation (ft AMSL)	Base of Screen Elevation (ft AMSL)	Average Depth to Groundwater (ft bgs)	Average Groundwater Elevation (ft AMSL)
	Northing	Easting									
GMA3-8	536339.60	138899.10	2.00	994.50	996.24	5.00	10.00	989.50	979.50	8.2	986.32
GMA3-9	537383.20	138385.60	2.00	992.90	992.39	3.00	10.00	989.90	979.90	5.3	987.56
GMA3-10	536659.10	138056.40	2.00	997.78	997.54	9.00	10.00	988.78	978.78	10.9	986.83
GMA3-11	536353.70	138147.90	2.00	997.78	997.25	9.00	10.00	988.78	978.78	10.6	987.22
GMA3-12	536469.20	138169.70	4.00	998.04	997.84	7.00	15.00	991.04	976.04	11.3	986.75
OBG-2	537209.10	139475.80	3.00	992.24	992.20	3.00	11.40	989.24	977.84	5.4	986.88
UB-MW-10	536908.10	138278.30	1.00	996.21	995.99	8.00	10.00	988.21	978.21	10.0	986.17
UB-PZ-1	536336.80	138383.90	1.00	999.00	999.70	9.00	5.00	990.00	985.00	12.3	986.72
UB-PZ-2	536726.10	138735.70	1.00	994.40	994.77	4.00	10.00	990.40	980.40	9.2	985.22
UB-PZ-3	536480.10	138110.00	1.00	998.55	998.15	11.00	5.00	987.55	982.55	12.4	986.10

NOTES:

1. The listed wells were scheduled to be utilized during fall 2004 for baseline groundwater quality sampling or groundwater elevation monitoring. Due to the condition of some wells, not all wells were able to be sampled as scheduled (see Table 1).
2. ft AMSL: Feet above mean sea level
3. ft bgs: Feet below ground surface
4. NA: Information not available.

TABLE 3A
GROUNDWATER ELEVATION DATA - SUMMER 2004
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Overall Average Groundwater Elevation (ft AMSL)	Average Summer Groundwater Elevation (ft AMSL)	Summer 2004 Groundwater Elevation (ft AMSL)	Summer 2004 LNAPL Thickness (ft)
Monitoring Wells Screened at Water Table				
006B	986.22	985.79	986.48	0.00
016B-R	985.49	984.97	985.23	0.00
039B-R	985.86	985.30	985.52	0.00
043B	987.47	986.99	987.72	0.00
050B	988.44	987.98	988.32	0.00
51-05	986.23	986.39	986.60	0.01
51-06	986.43	986.48	986.65	0.00
51-07	986.38	986.36	986.52	0.00
51-08	985.91	985.84	986.25	0.56
51-09	987.64	987.53	987.12	0.00
51-11	985.82	985.79	985.91	0.00
51-12	989.21	989.11	989.08	0.00
51-13	987.24	987.08	<987.38	Not Applicable
51-14	986.07	986.00	986.09	0.00
51-15	986.08	986.11	986.28	0.03
51-16R	986.41	986.16	986.26	0.12
51-17	986.18	986.20	986.48	1.29
51-18	986.12	986.08	986.23	0.00
51-19	985.97	986.01	986.14	0.98
51-21	986.01	986.08	986.20	0.01
54B	986.20	985.76	984.26	0.00
59-01	986.82	986.95	986.36	0.00
59-03R	985.97	986.16	986.55	1.19
59-07	986.06	986.26	986.41	0.00
078B-R	987.30	986.87	987.29	0.00
082B	984.63	983.88	983.88	0.00
089B	982.76	982.88	982.88	0.00
090B	982.36	NA	NA	NA
095B	980.82	982.32	982.32	0.00
111B	983.09	NA	NA	NA
114B	978.98	979.05	979.05	0.00
GMA3-2	984.32	983.53	984.14	0.00
GMA3-3	988.36	988.01	988.38	0.00
GMA3-4	987.42	987.21	987.58	0.00
GMA3-5	985.47	984.41	984.41	0.00
GMA3-6	986.50	986.19	986.65	0.00
GMA3-7	986.62	986.11	986.46	0.00
GMA3-8	986.32	985.54	985.54	0.00
GMA3-9	987.56	987.02	987.59	0.00

TABLE 3A
GROUNDWATER ELEVATION DATA - SUMMER 2004
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Overall Average Groundwater Elevation (ft AMSL)	Average Summer Groundwater Elevation (ft AMSL)	Summer 2004 Groundwater Elevation (ft AMSL)	Summer 2004 LNAPL Thickness (ft)
GMA3-10	986.83	986.47	986.47	0.66
GMA3-11	987.22	986.77	986.77	0.00
GMA3-12	986.75	986.41	986.41	0.67
OBG-2	986.88	986.55	986.55	0.00
UB-MW-10	986.17	986.15	986.39	0.00
UB-PZ-1	986.72	986.39	985.94	0.00
UB-PZ-2	985.22	984.71	NA	NA
UB-PZ-3	986.10	986.23	986.33	0.30
Monitoring Wells Screened Below Water Table				
002A	985.72	985.31	985.78	Not Applicable
016A	984.30	983.91	984.29	Not Applicable
016E	984.18	984.71	985.26	Not Applicable
039D	985.68	985.27	985.75	Not Applicable
039E	986.14	985.68	986.36	Not Applicable
043A	986.17	985.74	988.04	Not Applicable
089A	982.23	982.96	982.96	Not Applicable
089D	981.78	983.01	983.01	Not Applicable
090A	982.68	NA	NA	Not Applicable
095A	980.58	980.43	980.43	Not Applicable
095C	983.83	983.76	983.76	Not Applicable
111A	983.35	983.12	983.12	Not Applicable
114A	979.39	979.89	979.89	Not Applicable
114C	979.91	981.50	981.50	Not Applicable
Unkamet Brook Staff Gauge				
GMA3-SG-1	986.54	NA	986.34	0.00
GMA3-SG-3	987.87	NA	987.51	0.00

NOTES:

1. Groundwater elevation/NAPL thickness data collected on July 15-16, 2004.
2. ft AMSL - Feet Above Mean Sea Level
3. Groundwater elevations denoted <## indicate that the well was dry on the date measured and the referenced elevation represents the base of well elevation.
4. Average groundwater elevations based on available seasonal groundwater elevation data since 2000.
5. NA - Data not available.
6. Wells 90A, 90B, 111B, and UB-PZ-2 were unable to be measured in July 2004. These wells were either not located, inaccessible, or obstructed.

TABLE 3B
GROUNDWATER ELEVATION DATA - FALL 2004
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Overall Average Groundwater Elevation (ft AMSL)	Average Fall Groundwater Elevation (ft AMSL)	Fall 2004 Groundwater Elevation (ft AMSL)	Fall 2004 LNAPL Thickness (ft)
Monitoring Wells Screened at Water Table				
006B-R	986.22	985.20	986.74	0.00
016B-R	985.49	985.55	985.71	0.00
039B-R	985.86	986.02	985.88	0.00
043B	987.47	987.85	987.80	0.00
050B	988.44	988.29	988.64	0.00
51-05	986.23	986.24	986.57	0.01
51-06	986.43	986.06	986.94	0.00
51-07	986.38	986.16	986.74	0.00
51-08	985.91	985.44	986.57	0.06
51-09	987.64	987.01	987.78	0.00
51-11	985.82	985.26	986.36	0.00
51-12	989.21	989.03	989.31	0.00
51-13	987.24	987.40	<987.39	Not Applicable
51-14	986.07	986.00	986.43	0.00
51-15	986.08	985.73	986.62	0.01
51-16R	986.41	986.25	986.59	0.03
51-17	986.18	985.80	986.78	1.52
51-18	986.12	986.00	986.57	0.00
51-19	985.97	985.56	986.48	0.97
51-21	986.01	985.79	986.56	<0.01
54B	986.20	985.28	985.28	0.00
59-01	986.82	986.41	986.68	0.00
59-03R	985.97	985.76	986.69	1.06
59-07	986.06	985.90	986.75	0.01
078B-R	987.30	987.68	987.45	0.00
082B-R	984.63	984.37	985.22	0.00
089B	982.76	982.59	983.42	0.00
090B	982.36	982.72	982.78	0.00
095B-R	980.82	980.19	980.65	0.00
111B	983.09	983.18	983.73	0.00
114B-R	978.98	979.25	979.56	0.00
GMA3-2	984.32	984.47	984.75	0.00
GMA3-3	988.36	988.78	988.81	0.00
GMA3-4	987.42	987.39	987.85	<0.01 (See Note 6)
GMA3-5	985.47	985.30	985.30	0.00
GMA3-6	986.50	986.51	986.96	0.00

TABLE 3B
GROUNDWATER ELEVATION DATA - FALL 2004
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Overall Average Groundwater Elevation (ft AMSL)	Average Fall Groundwater Elevation (ft AMSL)	Fall 2004 Groundwater Elevation (ft AMSL)	Fall 2004 LNAPL Thickness (ft)
GMA3-7	986.62	986.57	986.95	0.00
GMA3-8	986.32	986.35	986.35	0.00
GMA3-9	987.56	987.62	987.62	0.00
GMA3-10	986.83	986.81	986.81	0.73
GMA3-11	987.22	987.15	987.15	0.00
GMA3-12	986.75	986.75	986.75	0.30
OBG-2	986.88	986.57	986.83	0.00
UB-MW-10	986.17	985.94	986.76	0.00
UB-PZ-1	986.72	986.49	<986.95	Not Applicable
UB-PZ-2	985.22	985.04	985.92	0.00
UB-PZ-3	986.10	985.90	986.69	0.44
Monitoring Wells Screened Below Water Table				
002A	985.72	985.74	986.16	Not Applicable
016A	984.30	984.39	984.74	Not Applicable
016C	983.21	983.90	983.66	Not Applicable
039D	985.68	985.69	986.13	Not Applicable
039E	986.14	986.06	986.69	Not Applicable
043A	986.17	987.66	988.18	Not Applicable
089A	982.23	983.31	983.31	Not Applicable
089D	981.78	983.34	983.34	Not Applicable
090A	982.68	982.88	982.88	Not Applicable
095A	980.58	980.88	980.88	Not Applicable
111A-R	983.35	984.32	984.32	Not Applicable
114A	979.39	980.25	980.25	Not Applicable
Unkamet Brook Staff Gauge				
GMA3-SG-1	986.54	NA	986.42	0.00
GMA3-SG-3	987.87	NA	987.39	0.00

NOTES:

1. Groundwater elevation/NAPL thickness data collected on October 13-15, 2004.
2. ft AMSL - Feet Above Mean Sea Level
3. Groundwater elevations denoted <## indicate that the well was dry on the date measured and the referenced elevation represents the base of well elevation.
4. Average groundwater elevations based on available seasonal groundwater elevation data since 2000.
5. NA - Data not available.
6. An instrument detection of LNAPL at well GMA3-4 was verified as false based on visual observations.

TABLE 4
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Name	Number of Measurements	Measuring Point Elevation (Feet AMSL)	Depth to Water		LNAPL Observations			LNAPL Recovery [6]	
			Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (Liters)	LNAPL Recovery (Gallons)
GMA3 Monitoring Wells									
2A	2	994.16	8.00	8.38	0	---	---	---	---
6B	2	993.01	6.38	6.53	0	---	---	---	---
006B-R	4	993.62	6.42	7.75	0	---	---	---	---
16A	2	991.77	7.03	7.48	0	---	---	---	---
16B-R	3	994.87	8.99	9.64	0	---	---	---	---
16C-R	2	991.47	7.81	8.54	0	---	---	---	---
16E	2	992.14	6.88	7.15	0	---	---	---	---
39B-R	2	991.97	6.09	6.45	0	---	---	---	---
39D	2	992.21	6.03	6.41	0	---	---	---	---
39E	2	992.21	5.52	5.85	0	---	---	---	---
43A	2	993.79	5.61	5.75	0	---	---	---	---
43B	2	993.61	5.81	5.89	0	---	---	---	---
50B	2	991.76	3.12	3.44	0	---	---	---	---
51-05	6	996.44	9.85	10.29	6	0.01	0.98	0.91	0.24
51-06	5	997.36	10.42	10.72	0	---	---	---	---
51-07	5	997.08	10.34	10.70	0	---	---	---	---
51-08	27	997.08	10.53	12.48	27	0.02	1.48	12.26	3.24
51-09	5	997.70	9.92	10.65	0	---	---	---	---
51-11	2	994.37	8.01	8.46	0	---	---	---	---
51-12	2	996.55	7.24	7.47	0	---	---	---	---

TABLE 4
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Name	Number of Measurements	Measuring Point Elevation (Feet AMSL)	Depth to Water		LNAPL Observations			LNAPL Recovery [6]	
			Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (Liters)	LNAPL Recovery (Gallons)
51-13	2	997.42	Dry		0	---	---	---	---
51-14	6	996.77	10.24	10.68	1	0.01		---	---
51-15	6	996.43	9.79	10.24	6	0.01	0.25	0.15	0.04
51-16R	6	996.39	9.75	10.24	6	0.01	0.12	0.08	0.02
51-17	6	996.43	10.75	11.23	6	1.18	1.52	3.94	1.04
51-18	5	997.12	10.43	10.89	0	---	---	---	---
51-19	6	996.43	10.30	11.20	6	0.40	0.98	2.15	0.57
51-21	26	1001.49	14.12	15.66	23	<0.01	0.01	106.88	28.27
54B	2	987.96	2.68	3.70	0	---	---	---	---
59-01	5	997.52	10.84	11.25	1	0.01		0.61	0.16
59-03R	6	997.64	10.88	11.32	6	0.88	1.19	2.33	0.62
59-07	6	997.96	11.18	11.51	4	0.01	0.03	0.54	0.14
78B-R	3	988.83	1.30	1.54	0	---	---	---	---
82B	2	990.08	6.06	6.20	0	---	---	---	---
82B-R	3	989.90	4.18	5.78	0	---	---	---	---
89A	2	985.76	2.45	2.80	0	---	---	---	---
89B	2	986.03	2.61	3.15	0	---	---	---	---
89D	2	985.42	2.08	2.41	0	---	---	---	---
90A	1	988.07	5.19		0	---	---	---	---
90B	2	989.10	5.95	6.32	0	---	---	---	---
95A	2	987.18	6.30	6.75	0	---	---	---	---

TABLE 4
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Name	Number of Measurements	Measuring Point Elevation (Feet AMSL)	Depth to Water		LNAPL Observations			LNAPL Recovery [6]	
			Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (Liters)	LNAPL Recovery (Gallons)
95B	2	988.72	6.00	6.40	0	---	---	---	---
95B-R	3	986.24	5.54	5.76	0	---	---	---	---
95C	1	988.16	4.40		0	---	---	---	---
109A	1	990.03	7.10		0	---	---	---	---
109B	1	989.06	5.95		0	---	---	---	---
111A	1	997.57	14.45		0	---	---	---	---
111A-R	3	997.35	13.03	13.56	0	---	---	---	---
111B	6	996.75	12.95	13.19	0	---	---	---	---
114A	2	986.16	5.91	6.27	0	---	---	---	---
114B	1	984.98	5.93		0	---	---	---	---
114B-R	3	985.54	5.91	6.00	0	---	---	---	---
114C	2	986.68	4.85	5.18	0	---	---	---	---
GMA3-2	3	991.94	6.60	7.80	0	---	---	---	---
GMA3-3	3	990.45	1.64	2.07	0	---	---	---	---
GMA3-4	4	994.60	6.70	7.23	1	<0.01 (False instrument reading)		---	---
GMA3-5	3	993.67	7.77	9.26	0	---	---	---	---
GMA3-6	3	997.49	10.43	10.84	0	---	---	---	---
GMA3-7	3	1000.17	13.08	13.71	0	---	---	---	---
GMA3-8	3	996.24	9.89	10.70	0	---	---	---	---
GMA3-9	3	992.39	4.77	4.9	0	---	---	---	---
GMA3-10	27	997.54	11.24	12.08	27	0.37	0.87	10.76	2.85

TABLE 4
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA SUMMARY

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Name	Number of Measurements	Measuring Point Elevation (Feet AMSL)	Depth to Water		LNAPL Observations			LNAPL Recovery [6]	
			Minimum (Feet BMP)	Maximum (Feet BMP)	Times Observed	Minimum Thickness (Feet)	Maximum Thickness (Feet)	LNAPL Recovery (Liters)	LNAPL Recovery (Gallons)
GMA3-11	5	997.25	10.10	10.68	0	---	---	---	---
GMA3-12	27	997.84	11.22	12.25	27	0.08	0.70	22.84	6.04
OBG-2	3	992.20	4.81	5.65	0	---	---	---	---
UB-MW-10	5	995.99	9.23	10.61	0	---	---	---	---
UB-PZ-1	2	999.70	13.76	Dry	0	---	---	---	---
UB-PZ-2	1	994.77	8.85		0	---	---	---	---
UB-PZ-3	6	998.15	11.82	12.20	6	0.18	0.44	0.31	0.08
Unkamet Brook Staff Gauge									
GMA3-SG-1	2	983.44	2.90	2.98	0	---	---	---	---
GMA3-SG-3	2	985.53	1.86	1.98	0	---	---	---	---

Total amount of LNAPL Recovered - July 2004 through December 2004: 163.76 liters
43.26 gallons

NOTES

1. --- indicates LNAPL was not present in a measurable quantity
2. NA indicates information not available.
3. DRY - Indicates that groundwater was not present in the well at the time measurements were conducted.
4. ft BMP = Feet Below Measuring Point
5. ft AMSL = Feet Above Mean Sea Level
6. LNAPL was recovered via an automated skimmer at well 51-21 and was manually removed from the remaining

TABLE 5
FIELD PARAMETER MEASUREMENTS - FALL 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
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)
6B-R	5.0	16.72	7.41	0.621	-132.5	0.37
16B-R	8.0	17.65	7.34	1.721	-356.3	0.77
51-14	3.0	10.30	6.50	0.435	144.0	1.35
78B-R	6.0	16.60	5.81	2.208	-162.1	0.27
82B-R	8.0	13.30	6.23	0.627	-47.4	0.54
89B	12.0	13.99	6.60	0.830	-97.1	0.40
90B	1.0	13.81	6.85	0.282	353.2	1.22
95B-R	6.0	14.92	6.55	0.576	-66.6	0.48
111B	13.0	12.69	6.41	1.006	229.9	10.75
114B-R	5.0	13.50	5.57	0.739	-79.0	0.29
GMA3-2	12.0	18.50	7.22	12.060	-332.0	2.11
GMA3-3	3.0	16.37	6.45	5.451	-100.3	0.42
GMA3-4	1.0	21.85	8.20	0.545	60.5	5.60
GMA3-5	3.0	16.65	6.45	0.554	34.4	0.38
GMA3-6	5.0	18.39	6.56	1.807	-74.9	0.30
GMA3-7	27.0	17.65	6.99	0.636	-263.6	12.10
GMA3-8	6.0	13.70	7.05	0.941	-334.4	2.23
GMA3-9	8.0	14.53	5.51	0.769	-119.1	0.23
OBG-2	53.0	22.70	6.67	0.591	-120.7	0.46

Notes:

1. Measurements collected during fall 2004 GMA 3 baseline monitoring program sampling activities between October 6 and 22, 2004.
2. Well parameters were generally monitored continuously during purging by low-flow techniques. Final parameter readings are presented.
3. NTU - Nephelometric Turbidity Units
4. mS/cm - Millisiemens per centimeter
5. mV - Millivolts
6. mg/L - Milligrams per liter (ppm)

TABLE 6
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-2 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-2 Standards	16B-R 10/07/04	51-14 10/07/04	GMA3-2 10/06/04	GMA3-4 10/08/04	GMA3-5 10/07/04
Volatile Organics						
Benzene	2	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.015	ND(0.0050)	ND(0.0050)
Carbon Disulfide	Not Listed	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0012 J	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	0.02	ND(0.0050) [ND(0.0050)]	0.0014 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	1	0.00052 J [0.00056 J]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	0.4	ND(0.0050) [ND(0.0050)]	0.0019 J	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	30	ND(0.0050) [ND(0.0050)]	ND(0.0050)	0.0011 J	ND(0.0050)	ND(0.0050)
Trichloroethene	0.3	0.00061 J [0.00064 J]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total VOCs	5	0.0011 J [0.0012 J]	0.0033 J	0.017 J	ND(0.20)	ND(0.20)
Semivolatile Organics						
1,3-Dichlorobenzene	10	0.00069 J [0.00083 J]	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.010)
1,4-Dichlorobenzene	30	0.0014 J [0.0016 J]	ND(0.0050)	0.0017 J	ND(0.0050)	ND(0.010)
Naphthalene	6	ND(0.0050) [ND(0.0050)]	ND(0.0050) J	ND(0.0050)	ND(0.0050)	ND(0.010)

Parameter / Sample ID: / Date Collected:	Method 1 GW-2 Standards	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04	GMA3-9 10/15/04	OBG-2 10/08/04
Volatile Organics						
Benzene	2	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Disulfide	Not Listed	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	0.02	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	1	0.0033 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	0.4	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	30	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	0.3	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Total VOCs	5	0.0033 J	ND(0.20)	ND(0.20)	ND(0.20)	ND(0.20)
Semivolatile Organics						
1,3-Dichlorobenzene	10	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dichlorobenzene	30	0.0030 J	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Naphthalene	6	ND(0.010)	ND(0.010)	0.0042 J	ND(0.0050)	ND(0.0050)

Notes:

1. Samples were collected by Blasland Bouck & Lee, Inc., and were submitted to SGS 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 (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
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, semivolatiles)

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

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	6B-R 10/06/04	78B-R 10/15/04	82B-R 10/08/04
Volatile Organics				
1,1-Dichloroethane	50	ND(0.050)	ND(0.10)	0.0010 J
Benzene	7	0.70	2.0	0.0015 J
Chlorobenzene	0.5	0.92	2.3	ND(0.0050)
Toluene	50	0.038 J	ND(0.10)	ND(0.0050)
PCBs-Unfiltered				
Aroclor-1254	Not Applicable	ND(0.000065)	0.00041	ND(0.000065)
Aroclor-1260	Not Applicable	ND(0.000065)	0.000092	ND(0.000065)
Total PCBs	Not Applicable	ND(0.000065)	0.000502	ND(0.000065)
PCBs-Filtered				
Aroclor-1254	Not Listed	ND(0.000065)	0.00029	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	0.000090	ND(0.000065)
Total PCBs	0.0003	ND(0.000065)	0.00038	ND(0.000065)
Semivolatile Organics				
1,2-Dichlorobenzene	8	0.0049 J	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	8	0.055	0.0098 J	ND(0.010)
2,4,5-Trichlorophenol	0.1	ND(0.010)	0.0053 J	ND(0.010)
2-Methylnaphthalene	3	ND(0.010)	0.021	ND(0.010)
3&4-Methylphenol	Not Listed	0.021	ND(0.010)	ND(0.010)
Acenaphthene	5	ND(0.010)	0.018	ND(0.010)
Anthracene	3	ND(0.010)	0.0028 J	ND(0.010)
Dibenzofuran	Not Listed	ND(0.010)	0.014	ND(0.010)
Fluorene	3	ND(0.010)	0.015	ND(0.010)
Naphthalene	6	0.0031 J	0.035	ND(0.010)
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010)	ND(0.010)	ND(0.010)
Phenanthrene	0.05	ND(0.010)	0.016	ND(0.010)
Phenol	30	0.021	0.0063 J	ND(0.010)
Organochlorine Pesticides				
None Detected	--	--	--	--
Organophosphate Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000023)	ND(0.0000000025)	ND(0.0000000019)
TCDFs (total)	Not Listed	ND(0.0000000023)	ND(0.0000000048)	ND(0.0000000019)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000041)	ND(0.0000000016)	ND(0.0000000029)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000039)	ND(0.0000000016)	ND(0.0000000028)
PeCDFs (total)	Not Listed	ND(0.0000000041)	ND(0.0000000051)	ND(0.0000000029)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000033)	ND(0.0000000059)	ND(0.0000000028)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000032)	ND(0.0000000017)	ND(0.0000000026)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000039)	ND(0.0000000020)	ND(0.0000000033)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000035)	ND(0.0000000018)	ND(0.0000000029)
HxCDFs (total)	Not Listed	ND(0.0000000039)	ND(0.0000000087)	ND(0.0000000033)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000023)	ND(0.0000000046)	ND(0.0000000021)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000028)	ND(0.0000000035)	ND(0.0000000025)
HpCDFs (total)	Not Listed	ND(0.0000000028)	ND(0.0000000046)	ND(0.0000000025)
OCDF	Not Listed	ND(0.0000000066)	ND(0.0000000046)	ND(0.0000000048)
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000026)	ND(0.0000000014)	ND(0.0000000033)
TCDDs (total)	Not Listed	ND(0.0000000026)	ND(0.0000000014)	ND(0.0000000033)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000054)	ND(0.0000000025)	ND(0.0000000048)
PeCDDs (total)	Not Listed	ND(0.0000000054)	ND(0.0000000025)	ND(0.0000000048)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000042)	ND(0.0000000021)	ND(0.0000000035)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000037)	ND(0.0000000017)	ND(0.0000000031)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000038)	ND(0.0000000018)	ND(0.0000000032)
HxCDDs (total)	Not Listed	ND(0.0000000042)	ND(0.0000000021)	ND(0.0000000035)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000046)	ND(0.0000000019)	ND(0.0000000036)
HpCDDs (total)	Not Listed	ND(0.0000000046)	ND(0.0000000021)	ND(0.0000000036)
OCDD	Not Listed	0.00000013	ND(0.000000014)	ND(0.0000000046)
Total TEQs (WHO TEFs)	0.0000001	0.0000000065	0.0000000034	0.0000000060

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	6B-R 10/06/04	78B-R 10/15/04	82B-R 10/08/04
Inorganics-Unfiltered				
Arsenic	Not Applicable	ND(0.0100)	ND(0.0100)	ND(0.0100)
Barium	Not Applicable	0.0510 B	1.40	0.0800 B
Chromium	Not Applicable	0.00240 B	ND(0.0100)	0.00120 B
Cobalt	Not Applicable	ND(0.0500)	ND(0.0500)	ND(0.0500)
Copper	Not Applicable	0.00310 B	0.00160 B	ND(0.0250)
Cyanide	Not Applicable	ND(0.0100)	0.00170 B	ND(0.0100)
Lead	Not Applicable	ND(0.00300)	0.000890 B	ND(0.00300)
Nickel	Not Applicable	0.00470 B	0.00700 B	0.00160 B
Silver	Not Applicable	ND(0.00500)	ND(0.00500)	ND(0.00500)
Vanadium	Not Applicable	0.00290 B	ND(0.0500)	ND(0.0500)
Zinc	Not Applicable	0.0180 B	0.0250	0.0140 J
Inorganics-Filtered				
Arsenic	0.4	0.00550 B	ND(0.0100)	ND(0.0100)
Barium	30	0.0460 B	1.40	0.0750 B
Chromium	2	0.00200 B	ND(0.0100)	ND(0.0100)
Cobalt	Not Listed	ND(0.0500)	ND(0.0500)	ND(0.0500)
Copper	Not Listed	0.00190 B	ND(0.009)	ND(0.0250)
Cyanide	0.01	ND(0.0100)	0.00130 B	ND(0.0100)
Lead	0.03	ND(0.00300)	ND(0.00300)	ND(0.00300)
Nickel	0.08	0.00610 B	0.00700 B	0.00220 B
Silver	0.007	ND(0.00500)	ND(0.00500)	0.00100 B
Vanadium	2	0.00370 B	ND(0.0500)	ND(0.0500)
Zinc	0.9	ND(0.020)	ND(0.0200)	ND(0.020) J

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	89B 10/14/04	90B 10/07/04	95B-R 10/14/04
Volatile Organics				
1,1-Dichloroethane	50	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)
Benzene	7	0.0014 J [0.079]	ND(0.0050)	ND(0.0050)
Chlorobenzene	0.5	0.010 J [0.56 J]	ND(0.0050)	0.077 J
Toluene	50	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)
PCBs-Unfiltered				
Aroclor-1254	Not Applicable	0.00012 [0.000027 J]	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Applicable	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs	Not Applicable	0.00012 [0.000027 J]	ND(0.000065)	ND(0.000065)
PCBs-Filtered				
Aroclor-1254	Not Listed	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Semivolatile Organics				
1,2-Dichlorobenzene	8	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
1,4-Dichlorobenzene	8	ND(0.010) [0.0051 J]	ND(0.010)	ND(0.010) J
2,4,5-Trichlorophenol	0.1	ND(0.010) [ND(0.010)]	ND(0.010)	R
2-Methylnaphthalene	3	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
3&4-Methylphenol	Not Listed	ND(0.010) [ND(0.010)]	ND(0.010)	R
Acenaphthene	5	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
Anthracene	3	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
Dibenzofuran	Not Listed	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
Fluorene	3	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
Naphthalene	6	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
Phenanthrene	0.05	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J
Phenol	30	ND(0.010) [ND(0.010)]	ND(0.010)	R
Organochlorine Pesticides				
None Detected	--	--	--	--
Organophosphate Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000031) [ND(0.0000000019)]	ND(0.0000000022)	ND(0.0000000037)
TCDFs (total)	Not Listed	ND(0.0000000031) [ND(0.0000000019)]	ND(0.0000000022)	ND(0.0000000037)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000021) [ND(0.0000000015)]	ND(0.0000000032)	ND(0.0000000023)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000021) [ND(0.0000000015)]	ND(0.0000000031)	ND(0.0000000023)
PeCDFs (total)	Not Listed	ND(0.0000000034) [ND(0.0000000017)]	ND(0.0000000032)	ND(0.0000000029)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000031) [ND(0.0000000020)]	ND(0.0000000031)	ND(0.0000000028)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000027) [ND(0.0000000018)]	ND(0.0000000029)	ND(0.0000000025)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000033) [ND(0.0000000022)]	ND(0.0000000036)	ND(0.0000000031)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000030) [ND(0.0000000020)]	ND(0.0000000032)	ND(0.0000000028)
HxCDFs (total)	Not Listed	ND(0.0000000033) [ND(0.0000000022)]	ND(0.0000000036)	ND(0.0000000031)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000015) [ND(0.00000000097)]	ND(0.0000000025)	ND(0.0000000016)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000018) [ND(0.0000000012)]	ND(0.0000000030)	ND(0.0000000020)
HpCDFs (total)	Not Listed	ND(0.0000000018) [ND(0.0000000012)]	ND(0.0000000030)	ND(0.0000000020)
OCDF	Not Listed	ND(0.0000000053) [ND(0.0000000037)]	ND(0.0000000052)	ND(0.0000000057)
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000024) [ND(0.0000000015)]	ND(0.0000000033)	ND(0.0000000022)
TCDDs (total)	Not Listed	ND(0.0000000024) [ND(0.0000000015)]	ND(0.0000000033)	ND(0.0000000022)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000034) [ND(0.0000000022)]	ND(0.0000000054)	ND(0.0000000036)
PeCDDs (total)	Not Listed	ND(0.0000000034) [ND(0.0000000022)]	ND(0.0000000054)	ND(0.0000000036)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000049) [ND(0.0000000032)]	ND(0.0000000038)	ND(0.0000000044)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000039) [ND(0.0000000026)]	ND(0.0000000034)	ND(0.0000000036)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000041) [ND(0.0000000027)]	ND(0.0000000035)	ND(0.0000000037)
HxCDDs (total)	Not Listed	ND(0.0000000049) [ND(0.0000000032)]	ND(0.0000000038)	ND(0.0000000044)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000029) [ND(0.0000000021)]	ND(0.0000000028)	ND(0.0000000031)
HpCDDs (total)	Not Listed	ND(0.0000000029) [ND(0.0000000021)]	ND(0.0000000028)	ND(0.0000000031)
OCDD	Not Listed	ND(0.0000000037) [ND(0.0000000021)]	ND(0.0000000051)	ND(0.0000000029)
Total TEQs (WHO TEFs)	0.0000001	0.0000000049 [0.0000000032]	0.0000000065	0.0000000049

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	89B 10/14/04	90B 10/07/04	95B-R 10/14/04
Inorganics-Unfiltered				
Arsenic	Not Applicable	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Barium	Not Applicable	0.0620 B [0.0620 B]	0.0220 B	0.0640 B
Chromium	Not Applicable	ND(0.0075) [ND(0.0075)]	0.00490 B	ND(0.0075)
Cobalt	Not Applicable	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Copper	Not Applicable	ND(0.0250) [0.00190 B]	ND(0.0250)	ND(0.0250)
Cyanide	Not Applicable	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Lead	Not Applicable	ND(0.00300) [ND(0.00300)]	0.00100 B	ND(0.00300)
Nickel	Not Applicable	ND(0.0400) [ND(0.0400)]	0.00500 B	ND(0.0400)
Silver	Not Applicable	0.00130 B [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Vanadium	Not Applicable	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	Not Applicable	0.0130 B [0.0140 B]	0.0160 J	0.0130 B
Inorganics-Filtered				
Arsenic	0.4	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Barium	30	0.0590 B [0.0610 B]	0.0230 B	0.0660 B
Chromium	2	ND(0.0075) [ND(0.010)]	0.00280 B	ND(0.010)
Cobalt	Not Listed	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Copper	Not Listed	ND(0.0250) [ND(0.009)]	ND(0.0250)	ND(0.009)
Cyanide	0.01	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)
Lead	0.03	0.000700 J [0.00130 J]	ND(0.00300)	ND(0.00300)
Nickel	0.08	ND(0.0400) [ND(0.0400)]	ND(0.0400)	ND(0.0400)
Silver	0.007	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Vanadium	2	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	0.9	ND(0.0200) [ND(0.020)]	ND(0.020) J	ND(0.020)

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	111B 10/22/04	114B-R 10/14/04	GMA3-3 10/15/04
Volatile Organics				
1,1-Dichloroethane	50	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzene	7	ND(0.0050)	ND(0.050)	0.0031 J
Chlorobenzene	0.5	ND(0.0050)	1.0	0.020
Toluene	50	ND(0.0050)	ND(0.050)	ND(0.0050)
PCBs-Unfiltered				
Aroclor-1254	Not Applicable	NA	ND(0.000065)	0.000046 J
Aroclor-1260	Not Applicable	NA	ND(0.000065)	0.000017 J
Total PCBs	Not Applicable	NA	ND(0.000065)	0.000063 J
PCBs-Filtered				
Aroclor-1254	Not Listed	NA	ND(0.000065)	0.000053 J
Aroclor-1260	Not Listed	NA	ND(0.000065)	0.000022 J
Total PCBs	0.0003	NA	ND(0.000065)	0.000075 J
Semivolatile Organics				
1,2-Dichlorobenzene	8	ND(0.0050)	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	8	ND(0.0050)	0.030	ND(0.010)
2,4,5-Trichlorophenol	0.1	NA	ND(0.010)	ND(0.010)
2-Methylnaphthalene	3	NA	ND(0.010)	0.0062 J
3&4-Methylphenol	Not Listed	NA	ND(0.010)	ND(0.010)
Acenaphthene	5	NA	ND(0.010)	0.015
Anthracene	3	NA	ND(0.010)	ND(0.010)
Dibenzofuran	Not Listed	NA	ND(0.010)	0.0065 J
Fluorene	3	NA	ND(0.010)	0.0067 J
Naphthalene	6	ND(0.0050) J	ND(0.010)	0.0043 J
N-Nitroso-di-n-propylamine	Not Listed	NA	0.0083 J	ND(0.010)
Phenanthrene	0.05	NA	ND(0.010)	0.0053 J
Phenol	30	NA	ND(0.010)	ND(0.010)
Organochlorine Pesticides				
None Detected	--	NA	--	--
Organophosphate Pesticides				
None Detected	--	NA	--	--
Herbicides				
None Detected	--	NA	--	--
Furans				
2,3,7,8-TCDF	Not Listed	NA	ND(0.0000000021)	ND(0.0000000032)
TCDFs (total)	Not Listed	NA	ND(0.0000000021)	ND(0.0000000032)
1,2,3,7,8-PeCDF	Not Listed	NA	ND(0.0000000017)	ND(0.0000000027)
2,3,4,7,8-PeCDF	Not Listed	NA	ND(0.0000000017)	ND(0.0000000027)
PeCDFs (total)	Not Listed	NA	ND(0.0000000024)	ND(0.0000000027)
1,2,3,4,7,8-HxCDF	Not Listed	NA	ND(0.0000000017)	ND(0.0000000023)
1,2,3,6,7,8-HxCDF	Not Listed	NA	ND(0.0000000015)	ND(0.0000000021)
1,2,3,7,8,9-HxCDF	Not Listed	NA	ND(0.0000000018)	ND(0.0000000025)
2,3,4,6,7,8-HxCDF	Not Listed	NA	ND(0.0000000016)	ND(0.0000000023)
HxCDFs (total)	Not Listed	NA	ND(0.0000000018)	ND(0.0000000025)
1,2,3,4,6,7,8-HpCDF	Not Listed	NA	ND(0.0000000011)	ND(0.0000000017)
1,2,3,4,7,8,9-HpCDF	Not Listed	NA	ND(0.0000000014)	ND(0.0000000021)
HpCDFs (total)	Not Listed	NA	ND(0.0000000014)	ND(0.0000000021)
OCDF	Not Listed	NA	ND(0.0000000034)	ND(0.0000000058)
Dioxins				
2,3,7,8-TCDD	Not Listed	NA	ND(0.0000000016)	ND(0.0000000022)
TCDDs (total)	Not Listed	NA	ND(0.0000000016)	ND(0.0000000022)
1,2,3,7,8-PeCDD	Not Listed	NA	ND(0.0000000025)	ND(0.0000000034)
PeCDDs (total)	Not Listed	NA	ND(0.0000000025)	ND(0.0000000034)
1,2,3,4,7,8-HxCDD	Not Listed	NA	ND(0.0000000028)	ND(0.0000000034)
1,2,3,6,7,8-HxCDD	Not Listed	NA	ND(0.0000000022)	ND(0.0000000027)
1,2,3,7,8,9-HxCDD	Not Listed	NA	ND(0.0000000023)	ND(0.0000000028)
HxCDDs (total)	Not Listed	NA	ND(0.0000000028)	ND(0.0000000034)
1,2,3,4,6,7,8-HpCDD	Not Listed	NA	ND(0.0000000021)	ND(0.0000000029)
HpCDDs (total)	Not Listed	NA	ND(0.0000000021)	ND(0.0000000029)
OCDD	Not Listed	NA	ND(0.0000000025)	ND(0.0000000032)
Total TEQs (WHO TEFs)	0.0000001	NA	0.0000000033	0.0000000046

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	111B 10/22/04	114B-R 10/14/04	GMA3-3 10/15/04
Inorganics-Unfiltered				
Arsenic	Not Applicable	NA	ND(0.0100)	0.0240
Barium	Not Applicable	NA	0.140 B	0.420
Chromium	Not Applicable	NA	ND(0.0075)	ND(0.010)
Cobalt	Not Applicable	NA	ND(0.0500)	ND(0.0500)
Copper	Not Applicable	NA	0.00180 B	ND(0.0250)
Cyanide	Not Applicable	NA	ND(0.0100)	0.00350 B
Lead	Not Applicable	NA	ND(0.00300)	0.000440 B
Nickel	Not Applicable	NA	0.0130 B	0.00180 B
Silver	Not Applicable	NA	ND(0.00500)	ND(0.00500)
Vanadium	Not Applicable	NA	ND(0.0500)	ND(0.0500)
Zinc	Not Applicable	NA	0.0140 B	0.0140 B
Inorganics-Filtered				
Arsenic	0.4	NA	ND(0.0100)	ND(0.0100)
Barium	30	NA	0.150 B	0.390
Chromium	2	NA	ND(0.010)	ND(0.0075)
Cobalt	Not Listed	NA	ND(0.0500)	ND(0.0500)
Copper	Not Listed	NA	ND(0.009)	ND(0.009)
Cyanide	0.01	NA	ND(0.0100)	0.00370 B
Lead	0.03	NA	ND(0.00300)	ND(0.00300)
Nickel	0.08	NA	ND(0.0400)	0.00280 B
Silver	0.007	NA	ND(0.00500)	ND(0.00500)
Vanadium	2	NA	ND(0.0500)	ND(0.0500)
Zinc	0.9	NA	ND(0.020)	ND(0.0200)

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04
Volatile Organics				
1,1-Dichloroethane	50	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Benzene	7	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
Chlorobenzene	0.5	ND(0.0050) [ND(0.0050)]	0.0033 J	ND(0.0050)
Toluene	50	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)
PCBs-Unfiltered				
Aroclor-1254	Not Applicable	0.000028 J [0.000027 J]	0.000029 J	0.000065
Aroclor-1260	Not Applicable	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs	Not Applicable	0.000028 J [0.000027 J]	0.000029 J	0.000065
PCBs-Filtered				
Aroclor-1254	Not Listed	0.000024 J [0.000024 J]	ND(0.000065)	0.000039 J
Aroclor-1260	Not Listed	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)
Total PCBs	0.0003	0.000024 J [0.000024 J]	ND(0.000065)	0.000039 J
Semivolatile Organics				
1,2-Dichlorobenzene	8	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	8	ND(0.010) [ND(0.010)]	0.0030 J	ND(0.010)
2,4,5-Trichlorophenol	0.1	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
2-Methylnaphthalene	3	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
3&4-Methylphenol	Not Listed	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Acenaphthene	5	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Anthracene	3	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Dibenzofuran	Not Listed	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Fluorene	3	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Naphthalene	6	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Phenanthrene	0.05	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Phenol	30	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)
Organochlorine Pesticides				
None Detected	--	--	--	--
Organophosphate Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000024) [ND(0.0000000025)]	ND(0.0000000020)	ND(0.0000000022)
TCDFs (total)	Not Listed	ND(0.0000000024) [ND(0.0000000025)]	ND(0.0000000020)	ND(0.0000000022)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000038) [ND(0.0000000042)]	ND(0.0000000031)	ND(0.0000000032)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000037) [ND(0.0000000041)]	ND(0.0000000030)	ND(0.0000000031)
PeCDFs (total)	Not Listed	ND(0.0000000038) [ND(0.0000000042)]	ND(0.0000000031)	ND(0.0000000032)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000041) [ND(0.0000000033)]	ND(0.0000000033)	ND(0.0000000028)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000039) [ND(0.0000000031)]	ND(0.0000000031)	ND(0.0000000027)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000048) [ND(0.0000000039)]	ND(0.0000000039)	ND(0.0000000034)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000042) [ND(0.0000000034)]	ND(0.0000000034)	ND(0.0000000030)
HxCDFs (total)	Not Listed	ND(0.0000000048) [ND(0.0000000039)]	ND(0.0000000039)	ND(0.0000000034)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000030) [ND(0.0000000030)]	ND(0.0000000024)	ND(0.0000000020)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000037) [ND(0.0000000036)]	ND(0.0000000030)	ND(0.0000000025)
HpCDFs (total)	Not Listed	ND(0.0000000037) [ND(0.0000000036)]	ND(0.0000000030)	ND(0.0000000025)
OCDF	Not Listed	ND(0.0000000063) [ND(0.0000000058)]	ND(0.0000000048)	ND(0.0000000051)
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000030) [ND(0.0000000029)]	ND(0.0000000031)	ND(0.0000000031)
TCDDs (total)	Not Listed	ND(0.0000000030) [ND(0.0000000029)]	ND(0.0000000031)	ND(0.0000000031)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000055) [ND(0.0000000059)]	ND(0.0000000059)	ND(0.0000000056)
PeCDDs (total)	Not Listed	ND(0.0000000055) [ND(0.0000000059)]	ND(0.0000000059)	ND(0.0000000056)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000047) [ND(0.0000000045)]	ND(0.0000000040)	ND(0.0000000036)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000042) [ND(0.0000000040)]	ND(0.0000000036)	ND(0.0000000032)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000043) [ND(0.0000000041)]	ND(0.0000000037)	ND(0.0000000033)
HxCDDs (total)	Not Listed	ND(0.0000000047) [ND(0.0000000045)]	ND(0.0000000040)	ND(0.0000000036)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000050) [ND(0.0000000044)]	ND(0.0000000035)	ND(0.0000000039)
HpCDDs (total)	Not Listed	ND(0.0000000050) [ND(0.0000000044)]	ND(0.0000000035)	ND(0.0000000039)
OCDD	Not Listed	ND(0.000000013) [ND(0.0000000045)]	ND(0.0000000045)	ND(0.0000000044)
Total TEQs (WHO TEFs)	0.0000001	0.0000000070 [0.0000000070]	0.0000000067	0.0000000065

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	Method 1 GW-3 Standards	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04
Inorganics-Unfiltered				
Arsenic	Not Applicable	ND(0.0100) [ND(0.0100)]	0.00530 B	ND(0.0100)
Barium	Not Applicable	0.0430 B [0.0430 B]	0.300	0.0860 B
Chromium	Not Applicable	ND(0.0100) [ND(0.0100)]	ND(0.0100)	0.00330 B
Cobalt	Not Applicable	0.00120 B [0.00160 B]	ND(0.0500)	ND(0.0500)
Copper	Not Applicable	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)
Cyanide	Not Applicable	ND(0.0100) [ND(0.0100)]	ND(0.010)	ND(0.0100)
Lead	Not Applicable	ND(0.00300) [ND(0.00300)]	ND(0.00300)	ND(0.00300)
Nickel	Not Applicable	0.00200 B [0.00210 B]	ND(0.0400)	ND(0.0400)
Silver	Not Applicable	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)
Vanadium	Not Applicable	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	Not Applicable	0.0150 B [0.0150 B]	0.0130 J	0.0180 J
Inorganics-Filtered				
Arsenic	0.4	ND(0.0100) [ND(0.0100)]	0.00490 B	ND(0.0100)
Barium	30	0.0460 B [0.0450 B]	0.290	0.0970 B
Chromium	2	ND(0.0100) [ND(0.0100)]	ND(0.0100)	0.00180 B
Cobalt	Not Listed	0.00150 B [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Copper	Not Listed	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)
Cyanide	0.01	ND(0.0100) [ND(0.0100)]	ND(0.010)	ND(0.0100)
Lead	0.03	ND(0.00300) [ND(0.00300)]	ND(0.00300)	ND(0.00300)
Nickel	0.08	0.00250 B [0.00350 B]	ND(0.0400)	0.00150 B
Silver	0.007	ND(0.00500) [0.00100 B]	0.00160 B	0.00110 B
Vanadium	2	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)
Zinc	0.9	ND(0.020) [ND(0.020)]	ND(0.0200) J	ND(0.020) J

TABLE 7
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP METHOD 1 GW-3 STANDARDS
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR SPRING 2004

GROUNDWATER MANAGEMENT AREA 3
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 SGS 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 (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
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. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
7. Field duplicate sample results are presented in brackets.
8. -- Indicates that all constituents for the parameter group were not detected.
9. Shading indicates that value exceeds GW-3 Standards.

Data Qualifiers:

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

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

Inorganic Parameters

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

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04
Volatile Organics					
1,1-Dichloroethane	100	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)
Benzene	70	0.70	ND(0.0050) [ND(0.0050)]	ND(0.0050)	2.0
Carbon Disulfide	Not Listed	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)
Carbon Tetrachloride	100	ND(0.050)	ND(0.0050) [ND(0.0050)]	0.0014 J	ND(0.10)
Chlorobenzene	10	0.92	0.00052 J [0.00056 J]	ND(0.0050)	2.3
Chloroform	100	ND(0.050)	ND(0.0050) [ND(0.0050)]	0.0019 J	ND(0.10)
Ethylbenzene	100	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)
Toluene	100	0.038 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)
Trichloroethene	100	ND(0.050)	0.00061 J [0.00064 J]	ND(0.0050)	ND(0.10)
PCBs-Unfiltered					
Aroclor-1254	Not Listed	ND(0.000065)	NA	NA	0.00041
Aroclor-1260	Not Listed	ND(0.000065)	NA	NA	0.000092
Total PCBs	0.005	ND(0.000065)	NA	NA	0.000502
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	NA	NA	0.00029
Aroclor-1260	Not Listed	ND(0.000065)	NA	NA	0.000090
Total PCBs	0.005	ND(0.000065)	NA	NA	0.00038
Semivolatile Organics					
1,2-Dichlorobenzene	100	0.0049 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.010)
1,3-Dichlorobenzene	100	ND(0.010)	0.00069 J [0.00083 J]	ND(0.0050)	ND(0.010)
1,4-Dichlorobenzene	100	0.055	0.0014 J [0.0016 J]	ND(0.0050)	0.0098 J
2,4,5-Trichlorophenol	2	ND(0.010)	NA	NA	0.0053 J
2-Methylnaphthalene	100	ND(0.010)	NA	NA	0.021
3&4-Methylphenol	Not Listed	0.021	NA	NA	ND(0.010)
Acenaphthene	50	ND(0.010)	NA	NA	0.018
Anthracene	30	ND(0.010)	NA	NA	0.0028 J
Dibenzofuran	Not Listed	ND(0.010)	NA	NA	0.014
Fluorene	30	ND(0.010)	NA	NA	0.015
Naphthalene	60	0.0031 J	ND(0.0050) [ND(0.0050)]	ND(0.0050) J	0.035
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010)	NA	NA	ND(0.010)
Phenanthrene	3	ND(0.010)	NA	NA	0.016
Phenol	100	0.021	NA	NA	0.0063 J
Organochlorine Pesticides					
None Detected	--	--	NA	NA	--
Organophosphate Pesticides					
None Detected	--	--	NA	NA	--
Herbicides					
None Detected	--	--	NA	NA	--
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.0000000023)	NA	NA	ND(0.0000000025)
TCDFs (total)	Not Listed	ND(0.0000000023)	NA	NA	ND(0.0000000048)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000041)	NA	NA	ND(0.0000000016)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000039)	NA	NA	ND(0.0000000016)
PeCDFs (total)	Not Listed	ND(0.0000000041)	NA	NA	ND(0.0000000051)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000033)	NA	NA	ND(0.0000000059)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000032)	NA	NA	ND(0.0000000017)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000039)	NA	NA	ND(0.0000000020)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000035)	NA	NA	ND(0.0000000018)
HxCDFs (total)	Not Listed	ND(0.0000000039)	NA	NA	ND(0.0000000087)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000023)	NA	NA	ND(0.0000000046)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000028)	NA	NA	ND(0.0000000035)
HpCDFs (total)	Not Listed	ND(0.0000000028)	NA	NA	ND(0.0000000046)
OCDF	Not Listed	ND(0.0000000066)	NA	NA	ND(0.0000000046)

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04
Dioxins					
2,3,7,8-TCDD	Not Listed	ND(0.0000000026)	NA	NA	ND(0.0000000014)
TCDDs (total)	Not Listed	ND(0.0000000026)	NA	NA	ND(0.0000000014)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000054)	NA	NA	ND(0.0000000025)
PeCDDs (total)	Not Listed	ND(0.0000000054)	NA	NA	ND(0.0000000025)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000042)	NA	NA	ND(0.0000000021)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000037)	NA	NA	ND(0.0000000017)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000038)	NA	NA	ND(0.0000000018)
HxCDDs (total)	Not Listed	ND(0.0000000042)	NA	NA	ND(0.0000000021)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000046)	NA	NA	ND(0.0000000019)
HpCDDs (total)	Not Listed	ND(0.0000000046)	NA	NA	ND(0.0000000021)
OCDD	Not Listed	0.00000013	NA	NA	ND(0.000000014)
Total TEQs (WHO TEFs)	0.000001	0.0000000065	NA	NA	0.0000000034
Inorganics-Unfiltered					
Arsenic	4	ND(0.0100)	NA	NA	ND(0.0100)
Barium	100	0.0510 B	NA	NA	1.40
Chromium	20	0.00240 B	NA	NA	ND(0.0100)
Cobalt	Not Listed	ND(0.0500)	NA	NA	ND(0.0500)
Copper	Not Listed	0.00310 B	NA	NA	0.00160 B
Cyanide	2	ND(0.0100)	NA	NA	0.00170 B
Lead	0.3	ND(0.00300)	NA	NA	0.000890 B
Nickel	1	0.00470 B	NA	NA	0.00700 B
Silver	0.4	ND(0.00500)	NA	NA	ND(0.00500)
Vanadium	20	0.00290 B	NA	NA	ND(0.0500)
Zinc	20	0.0180 B	NA	NA	0.0250
Inorganics-Filtered					
Arsenic	4	0.00550 B	NA	NA	ND(0.0100)
Barium	100	0.0460 B	NA	NA	1.40
Chromium	20	0.00200 B	NA	NA	ND(0.0100)
Cobalt	Not Listed	ND(0.0500)	NA	NA	ND(0.0500)
Copper	Not Listed	0.00190 B	NA	NA	ND(0.009)
Cyanide	2	ND(0.0100)	NA	NA	0.00130 B
Lead	0.3	ND(0.00300)	NA	NA	ND(0.00300)
Nickel	1	0.00610 B	NA	NA	0.00700 B
Silver	0.4	ND(0.00500)	NA	NA	ND(0.00500)
Vanadium	20	0.00370 B	NA	NA	ND(0.0500)
Zinc	20	ND(0.020)	NA	NA	ND(0.0200)

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	82B-R 10/08/04	89B 10/14/04	90B 10/07/04
Volatile Organics				
1,1-Dichloroethane	100	0.0010 J	ND(0.0050) [ND(0.050)]	ND(0.0050)
Benzene	70	0.0015 J	0.0014 J [0.079]	ND(0.0050)
Carbon Disulfide	Not Listed	ND(0.0050)	ND(0.0050) [ND(0.050)]	ND(0.0050)
Carbon Tetrachloride	100	ND(0.0050)	ND(0.0050) [ND(0.050)]	ND(0.0050)
Chlorobenzene	10	ND(0.0050)	0.010 J [0.56 J]	ND(0.0050)
Chloroform	100	ND(0.0050)	ND(0.0050) [ND(0.050)]	ND(0.0050)
Ethylbenzene	100	ND(0.0050)	ND(0.0050) [ND(0.050)]	ND(0.0050)
Toluene	100	ND(0.0050)	ND(0.0050) [ND(0.050)]	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050) [ND(0.050)]	ND(0.0050)
PCBs-Unfiltered				
Aroclor-1254	Not Listed	ND(0.000065)	0.00012 [0.000027 J]	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Total PCBs	0.005	ND(0.000065)	0.00012 [0.000027 J]	ND(0.000065)
PCBs-Filtered				
Aroclor-1254	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Total PCBs	0.005	ND(0.000065)	ND(0.000065) [ND(0.000065)]	ND(0.000065)
Semivolatile Organics				
1,2-Dichlorobenzene	100	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
1,3-Dichlorobenzene	100	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
1,4-Dichlorobenzene	100	ND(0.010)	ND(0.010) [0.0051 J]	ND(0.010)
2,4,5-Trichlorophenol	2	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
2-Methylnaphthalene	100	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
3&4-Methylphenol	Not Listed	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Acenaphthene	50	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Anthracene	30	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Dibenzofuran	Not Listed	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Fluorene	30	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Naphthalene	60	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Phenanthrene	3	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Phenol	100	ND(0.010)	ND(0.010) [ND(0.010)]	ND(0.010)
Organochlorine Pesticides				
None Detected	--	--	--	--
Organophosphate Pesticides				
None Detected	--	--	--	--
Herbicides				
None Detected	--	--	--	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000019)	ND(0.0000000031) [ND(0.0000000019)]	ND(0.0000000022)
TCDFs (total)	Not Listed	ND(0.0000000019)	ND(0.0000000031) [ND(0.0000000019)]	ND(0.0000000022)
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000029)	ND(0.0000000021) [ND(0.0000000015)]	ND(0.0000000032)
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000028)	ND(0.0000000021) [ND(0.0000000015)]	ND(0.0000000031)
PeCDFs (total)	Not Listed	ND(0.0000000029)	ND(0.0000000034) [ND(0.0000000017)]	ND(0.0000000032)
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000028)	ND(0.0000000031) [ND(0.0000000020)]	ND(0.0000000031)
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000026)	ND(0.0000000027) [ND(0.0000000018)]	ND(0.0000000029)
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000033)	ND(0.0000000033) [ND(0.0000000022)]	ND(0.0000000036)
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000029)	ND(0.0000000030) [ND(0.0000000020)]	ND(0.0000000032)
HxCDFs (total)	Not Listed	ND(0.0000000033)	ND(0.0000000033) [ND(0.0000000022)]	ND(0.0000000036)
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000021)	ND(0.0000000015) [ND(0.00000000097)]	ND(0.0000000025)
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000025)	ND(0.0000000018) [ND(0.0000000012)]	ND(0.0000000030)
HpCDFs (total)	Not Listed	ND(0.0000000025)	ND(0.0000000018) [ND(0.0000000012)]	ND(0.0000000030)
OCDF	Not Listed	ND(0.0000000048)	ND(0.0000000053) [ND(0.0000000037)]	ND(0.0000000052)

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	82B-R 10/08/04	89B 10/14/04	90B 10/07/04
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000033)	ND(0.0000000024) [ND(0.0000000015)]	ND(0.0000000033)
TCDDs (total)	Not Listed	ND(0.0000000033)	ND(0.0000000024) [ND(0.0000000015)]	ND(0.0000000033)
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000048)	ND(0.0000000034) [ND(0.0000000022)]	ND(0.0000000054)
PeCDDs (total)	Not Listed	ND(0.0000000048)	ND(0.0000000034) [ND(0.0000000022)]	ND(0.0000000054)
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000035)	ND(0.0000000049) [ND(0.0000000032)]	ND(0.0000000038)
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000031)	ND(0.0000000039) [ND(0.0000000026)]	ND(0.0000000034)
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000032)	ND(0.0000000041) [ND(0.0000000027)]	ND(0.0000000035)
HxCDDs (total)	Not Listed	ND(0.0000000035)	ND(0.0000000049) [ND(0.0000000032)]	ND(0.0000000038)
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000036)	ND(0.0000000029) [ND(0.0000000021)]	ND(0.0000000028)
HpCDDs (total)	Not Listed	ND(0.0000000036)	ND(0.0000000029) [ND(0.0000000021)]	ND(0.0000000028)
OCDD	Not Listed	ND(0.0000000046)	ND(0.0000000037) [ND(0.0000000021)]	ND(0.0000000051)
Total TEQs (WHO TEFs)	0.000001	0.0000000060	0.0000000049 [0.0000000032]	0.0000000065
Inorganics-Unfiltered				
Arsenic	4	ND(0.0100)	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Barium	100	0.0800 B	0.0620 B [0.0620 B]	0.0220 B
Chromium	20	0.00120 B	ND(0.0075) [ND(0.0075)]	0.00490 B
Cobalt	Not Listed	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)
Copper	Not Listed	ND(0.0250)	ND(0.0250) [0.00190 B]	ND(0.0250)
Cyanide	2	ND(0.0100)	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Lead	0.3	ND(0.00300)	ND(0.00300) [ND(0.00300)]	0.00100 B
Nickel	1	0.00160 B	ND(0.0400) [ND(0.0400)]	0.00500 B
Silver	0.4	ND(0.00500)	0.00130 B [ND(0.00500)]	ND(0.00500)
Vanadium	20	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)
Zinc	20	0.0140 J	0.0130 B [0.0140 B]	0.0160 J
Inorganics-Filtered				
Arsenic	4	ND(0.0100)	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Barium	100	0.0750 B	0.0590 B [0.0610 B]	0.0230 B
Chromium	20	ND(0.0100)	ND(0.0075) [ND(0.010)]	0.00280 B
Cobalt	Not Listed	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)
Copper	Not Listed	ND(0.0250)	ND(0.0250) [ND(0.009)]	ND(0.0250)
Cyanide	2	ND(0.0100)	ND(0.0100) [ND(0.0100)]	ND(0.0100)
Lead	0.3	ND(0.00300)	0.000700 J [0.00130 J]	ND(0.00300)
Nickel	1	0.00220 B	ND(0.0400) [ND(0.0400)]	ND(0.0400)
Silver	0.4	0.00100 B	ND(0.00500) [ND(0.00500)]	ND(0.00500)
Vanadium	20	ND(0.0500)	ND(0.0500) [ND(0.0500)]	ND(0.0500)
Zinc	20	ND(0.020) J	ND(0.0200) [ND(0.020)]	ND(0.020) J

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	95B-R 10/14/04	111B 10/22/04	114B-R 10/14/04	GMA3-2 10/06/04
Volatile Organics					
1,1-Dichloroethane	100	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Benzene	70	ND(0.0050)	ND(0.0050)	ND(0.050)	0.015
Carbon Disulfide	Not Listed	ND(0.0050)	ND(0.0050)	ND(0.050)	0.0012 J
Carbon Tetrachloride	100	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Chlorobenzene	10	0.077 J	ND(0.0050)	1.0	ND(0.0050)
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	ND(0.050)	0.0011 J
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.050)	ND(0.0050)
PCBs-Unfiltered					
Aroclor-1254	Not Listed	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1260	Not Listed	ND(0.000065)	NA	ND(0.000065)	NA
Total PCBs	0.005	ND(0.000065)	NA	ND(0.000065)	NA
PCBs-Filtered					
Aroclor-1254	Not Listed	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1260	Not Listed	ND(0.000065)	NA	ND(0.000065)	NA
Total PCBs	0.005	ND(0.000065)	NA	ND(0.000065)	NA
Semivolatile Organics					
1,2-Dichlorobenzene	100	ND(0.010) J	ND(0.0050)	ND(0.010)	ND(0.0050)
1,3-Dichlorobenzene	100	ND(0.010) J	ND(0.0050)	ND(0.010)	ND(0.0050)
1,4-Dichlorobenzene	100	ND(0.010) J	ND(0.0050)	0.030	0.0017 J
2,4,5-Trichlorophenol	2	R	NA	ND(0.010)	NA
2-Methylnaphthalene	100	ND(0.010) J	NA	ND(0.010)	NA
3&4-Methylphenol	Not Listed	R	NA	ND(0.010)	NA
Acenaphthene	50	ND(0.010) J	NA	ND(0.010)	NA
Anthracene	30	ND(0.010) J	NA	ND(0.010)	NA
Dibenzofuran	Not Listed	ND(0.010) J	NA	ND(0.010)	NA
Fluorene	30	ND(0.010) J	NA	ND(0.010)	NA
Naphthalene	60	ND(0.010)	ND(0.0050) J	ND(0.010)	ND(0.0050)
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010) J	NA	0.0083 J	NA
Phenanthrene	3	ND(0.010) J	NA	ND(0.010)	NA
Phenol	100	R	NA	ND(0.010)	NA
Organochlorine Pesticides					
None Detected	--	--	NA	--	NA
Organophosphate Pesticides					
None Detected	--	--	NA	--	NA
Herbicides					
None Detected	--	--	NA	--	NA
Furans					
2,3,7,8-TCDF	Not Listed	ND(0.0000000037)	NA	ND(0.0000000021)	NA
TCDFs (total)	Not Listed	ND(0.0000000037)	NA	ND(0.0000000021)	NA
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000023)	NA	ND(0.0000000017)	NA
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000023)	NA	ND(0.0000000017)	NA
PeCDFs (total)	Not Listed	ND(0.0000000029)	NA	ND(0.0000000024)	NA
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000028)	NA	ND(0.0000000017)	NA
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000025)	NA	ND(0.0000000015)	NA
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000031)	NA	ND(0.0000000018)	NA
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000028)	NA	ND(0.0000000016)	NA
HxCDFs (total)	Not Listed	ND(0.0000000031)	NA	ND(0.0000000018)	NA
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000016)	NA	ND(0.0000000011)	NA
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000020)	NA	ND(0.0000000014)	NA
HpCDFs (total)	Not Listed	ND(0.0000000020)	NA	ND(0.0000000014)	NA
OCDF	Not Listed	ND(0.0000000057)	NA	ND(0.0000000034)	NA

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	95B-R 10/14/04	111B 10/22/04	114B-R 10/14/04	GMA3-2 10/06/04
Dioxins					
2,3,7,8-TCDD	Not Listed	ND(0.0000000022)	NA	ND(0.0000000016)	NA
TCDDs (total)	Not Listed	ND(0.0000000022)	NA	ND(0.0000000016)	NA
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000036)	NA	ND(0.0000000025)	NA
PeCDDs (total)	Not Listed	ND(0.0000000036)	NA	ND(0.0000000025)	NA
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000044)	NA	ND(0.0000000028)	NA
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000036)	NA	ND(0.0000000022)	NA
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000037)	NA	ND(0.0000000023)	NA
HxCDDs (total)	Not Listed	ND(0.0000000044)	NA	ND(0.0000000028)	NA
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000031)	NA	ND(0.0000000021)	NA
HpCDDs (total)	Not Listed	ND(0.0000000031)	NA	ND(0.0000000021)	NA
OCDD	Not Listed	ND(0.0000000029)	NA	ND(0.0000000025)	NA
Total TEQs (WHO TEFs)	0.000001	0.0000000049	NA	0.0000000033	NA
Inorganics-Unfiltered					
Arsenic	4	ND(0.0100)	NA	ND(0.0100)	NA
Barium	100	0.0640 B	NA	0.140 B	NA
Chromium	20	ND(0.0075)	NA	ND(0.0075)	NA
Cobalt	Not Listed	ND(0.0500)	NA	ND(0.0500)	NA
Copper	Not Listed	ND(0.0250)	NA	0.00180 B	NA
Cyanide	2	ND(0.0100)	NA	ND(0.0100)	NA
Lead	0.3	ND(0.00300)	NA	ND(0.00300)	NA
Nickel	1	ND(0.0400)	NA	0.0130 B	NA
Silver	0.4	ND(0.00500)	NA	ND(0.00500)	NA
Vanadium	20	ND(0.0500)	NA	ND(0.0500)	NA
Zinc	20	0.0130 B	NA	0.0140 B	NA
Inorganics-Filtered					
Arsenic	4	ND(0.0100)	NA	ND(0.0100)	NA
Barium	100	0.0660 B	NA	0.150 B	NA
Chromium	20	ND(0.010)	NA	ND(0.010)	NA
Cobalt	Not Listed	ND(0.0500)	NA	ND(0.0500)	NA
Copper	Not Listed	ND(0.009)	NA	ND(0.009)	NA
Cyanide	2	ND(0.0100)	NA	ND(0.0100)	NA
Lead	0.3	ND(0.00300)	NA	ND(0.00300)	NA
Nickel	1	ND(0.0400)	NA	ND(0.0400)	NA
Silver	0.4	ND(0.00500)	NA	ND(0.00500)	NA
Vanadium	20	ND(0.0500)	NA	ND(0.0500)	NA
Zinc	20	ND(0.020)	NA	ND(0.020)	NA

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	GMA3-3 10/15/04	GMA3-4 10/08/04	GMA3-5 10/07/04
Volatile Organics				
1,1-Dichloroethane	100	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Benzene	70	0.0031 J	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Carbon Disulfide	Not Listed	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Carbon Tetrachloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Chlorobenzene	10	0.020	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050) [ND(0.0050)]
PCBs-Unfiltered				
Aroclor-1254	Not Listed	0.000046 J	NA	0.000028 J [0.000027 J]
Aroclor-1260	Not Listed	0.000017 J	NA	ND(0.000065) [ND(0.000065)]
Total PCBs	0.005	0.000063 J	NA	0.000028 J [0.000027 J]
PCBs-Filtered				
Aroclor-1254	Not Listed	0.000053 J	NA	0.000024 J [0.000024 J]
Aroclor-1260	Not Listed	0.000022 J	NA	ND(0.000065) [ND(0.000065)]
Total PCBs	0.005	0.000075 J	NA	0.000024 J [0.000024 J]
Semivolatile Organics				
1,2-Dichlorobenzene	100	ND(0.010)	ND(0.0050)	ND(0.010) [ND(0.010)]
1,3-Dichlorobenzene	100	ND(0.010)	ND(0.0050)	ND(0.010) [ND(0.010)]
1,4-Dichlorobenzene	100	ND(0.010)	ND(0.0050)	ND(0.010) [ND(0.010)]
2,4,5-Trichlorophenol	2	ND(0.010)	NA	ND(0.010) [ND(0.010)]
2-Methylnaphthalene	100	0.0062 J	NA	ND(0.010) [ND(0.010)]
3&4-Methylphenol	Not Listed	ND(0.010)	NA	ND(0.010) [ND(0.010)]
Acenaphthene	50	0.015	NA	ND(0.010) [ND(0.010)]
Anthracene	30	ND(0.010)	NA	ND(0.010) [ND(0.010)]
Dibenzofuran	Not Listed	0.0065 J	NA	ND(0.010) [ND(0.010)]
Fluorene	30	0.0067 J	NA	ND(0.010) [ND(0.010)]
Naphthalene	60	0.0043 J	ND(0.0050)	ND(0.010) [ND(0.010)]
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010)	NA	ND(0.010) [ND(0.010)]
Phenanthrene	3	0.0053 J	NA	ND(0.010) [ND(0.010)]
Phenol	100	ND(0.010)	NA	ND(0.010) [ND(0.010)]
Organochlorine Pesticides				
None Detected	--	--	NA	--
Organophosphate Pesticides				
None Detected	--	--	NA	--
Herbicides				
None Detected	--	--	NA	--
Furans				
2,3,7,8-TCDF	Not Listed	ND(0.0000000032)	NA	ND(0.0000000024) [ND(0.0000000025)]
TCDFs (total)	Not Listed	ND(0.0000000032)	NA	ND(0.0000000024) [ND(0.0000000025)]
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000027)	NA	ND(0.0000000038) [ND(0.0000000042)]
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000027)	NA	ND(0.0000000037) [ND(0.0000000041)]
PeCDFs (total)	Not Listed	ND(0.0000000027)	NA	ND(0.0000000038) [ND(0.0000000042)]
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000023)	NA	ND(0.0000000041) [ND(0.0000000033)]
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000021)	NA	ND(0.0000000039) [ND(0.0000000031)]
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000025)	NA	ND(0.0000000048) [ND(0.0000000039)]
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000023)	NA	ND(0.0000000042) [ND(0.0000000034)]
HxCDFs (total)	Not Listed	ND(0.0000000025)	NA	ND(0.0000000048) [ND(0.0000000039)]
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000017)	NA	ND(0.0000000030) [ND(0.0000000030)]
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000021)	NA	ND(0.0000000037) [ND(0.0000000036)]
HpCDFs (total)	Not Listed	ND(0.0000000021)	NA	ND(0.0000000037) [ND(0.0000000036)]
OCDF	Not Listed	ND(0.0000000058)	NA	ND(0.0000000063) [ND(0.0000000058)]

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	GMA3-3 10/15/04	GMA3-4 10/08/04	GMA3-5 10/07/04
Dioxins				
2,3,7,8-TCDD	Not Listed	ND(0.0000000022)	NA	ND(0.0000000030) [ND(0.0000000029)]
TCDDs (total)	Not Listed	ND(0.0000000022)	NA	ND(0.0000000030) [ND(0.0000000029)]
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000034)	NA	ND(0.0000000055) [ND(0.0000000059)]
PeCDDs (total)	Not Listed	ND(0.0000000034)	NA	ND(0.0000000055) [ND(0.0000000059)]
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000034)	NA	ND(0.0000000047) [ND(0.0000000045)]
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000027)	NA	ND(0.0000000042) [ND(0.0000000040)]
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000028)	NA	ND(0.0000000043) [ND(0.0000000041)]
HxCDDs (total)	Not Listed	ND(0.0000000034)	NA	ND(0.0000000047) [ND(0.0000000045)]
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000029)	NA	ND(0.0000000050) [ND(0.0000000044)]
HpCDDs (total)	Not Listed	ND(0.0000000029)	NA	ND(0.0000000050) [ND(0.0000000044)]
OCDD	Not Listed	ND(0.0000000032)	NA	ND(0.000000013) [ND(0.0000000045)]
Total TEQs (WHO TEFs)	0.000001	0.0000000046	NA	0.0000000070 [0.0000000070]
Inorganics-Unfiltered				
Arsenic	4	0.0240	NA	ND(0.0100) [ND(0.0100)]
Barium	100	0.420	NA	0.0430 B [0.0430 B]
Chromium	20	ND(0.010)	NA	ND(0.0100) [ND(0.0100)]
Cobalt	Not Listed	ND(0.0500)	NA	0.00120 B [0.00160 B]
Copper	Not Listed	ND(0.0250)	NA	ND(0.0250) [ND(0.0250)]
Cyanide	2	0.00350 B	NA	ND(0.0100) [ND(0.0100)]
Lead	0.3	0.000440 B	NA	ND(0.00300) [ND(0.00300)]
Nickel	1	0.00180 B	NA	0.00200 B [0.00210 B]
Silver	0.4	ND(0.00500)	NA	ND(0.00500) [ND(0.00500)]
Vanadium	20	ND(0.0500)	NA	ND(0.0500) [ND(0.0500)]
Zinc	20	0.0140 B	NA	0.0150 B [0.0150 B]
Inorganics-Filtered				
Arsenic	4	ND(0.0100)	NA	ND(0.0100) [ND(0.0100)]
Barium	100	0.390	NA	0.0460 B [0.0450 B]
Chromium	20	ND(0.0075)	NA	ND(0.0100) [ND(0.0100)]
Cobalt	Not Listed	ND(0.0500)	NA	0.00150 B [ND(0.0500)]
Copper	Not Listed	ND(0.009)	NA	ND(0.0250) [ND(0.0250)]
Cyanide	2	0.00370 B	NA	ND(0.0100) [ND(0.0100)]
Lead	0.3	ND(0.00300)	NA	ND(0.00300) [ND(0.00300)]
Nickel	1	0.00280 B	NA	0.00250 B [0.00350 B]
Silver	0.4	ND(0.00500)	NA	ND(0.00500) [0.00100 B]
Vanadium	20	ND(0.0500)	NA	ND(0.0500) [ND(0.0500)]
Zinc	20	ND(0.0200)	NA	ND(0.020) [ND(0.020)]

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04	GMA3-9 10/15/04	OBG-2 10/08/04
Volatile Organics						
1,1-Dichloroethane	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzene	70	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Disulfide	Not Listed	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	10	0.0033 J	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Toluene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	100	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
PCBs-Unfiltered						
Aroclor-1254	Not Listed	0.000029 J	0.000065	NA	NA	NA
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	NA	NA	NA
Total PCBs	0.005	0.000029 J	0.000065	NA	NA	NA
PCBs-Filtered						
Aroclor-1254	Not Listed	ND(0.000065)	0.000039 J	NA	NA	NA
Aroclor-1260	Not Listed	ND(0.000065)	ND(0.000065)	NA	NA	NA
Total PCBs	0.005	ND(0.000065)	0.000039 J	NA	NA	NA
Semivolatile Organics						
1,2-Dichlorobenzene	100	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,3-Dichlorobenzene	100	ND(0.010)	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dichlorobenzene	100	0.0030 J	ND(0.010)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2,4,5-Trichlorophenol	2	ND(0.010)	ND(0.010)	NA	NA	NA
2-Methylnaphthalene	100	ND(0.010)	ND(0.010)	NA	NA	NA
3&4-Methylphenol	Not Listed	ND(0.010)	ND(0.010)	NA	NA	NA
Acenaphthene	50	ND(0.010)	ND(0.010)	NA	NA	NA
Anthracene	30	ND(0.010)	ND(0.010)	NA	NA	NA
Dibenzofuran	Not Listed	ND(0.010)	ND(0.010)	NA	NA	NA
Fluorene	30	ND(0.010)	ND(0.010)	NA	NA	NA
Naphthalene	60	ND(0.010)	ND(0.010)	0.0042 J	ND(0.0050)	ND(0.0050)
N-Nitroso-di-n-propylamine	Not Listed	ND(0.010)	ND(0.010)	NA	NA	NA
Phenanthrene	3	ND(0.010)	ND(0.010)	NA	NA	NA
Phenol	100	ND(0.010)	ND(0.010)	NA	NA	NA
Organochlorine Pesticides						
None Detected	--	--	--	NA	NA	NA
Organophosphate Pesticides						
None Detected	--	--	--	NA	NA	NA
Herbicides						
None Detected	--	--	--	NA	NA	NA
Furans						
2,3,7,8-TCDF	Not Listed	ND(0.0000000020)	ND(0.0000000022)	NA	NA	NA
TCDFs (total)	Not Listed	ND(0.0000000020)	ND(0.0000000022)	NA	NA	NA
1,2,3,7,8-PeCDF	Not Listed	ND(0.0000000031)	ND(0.0000000032)	NA	NA	NA
2,3,4,7,8-PeCDF	Not Listed	ND(0.0000000030)	ND(0.0000000031)	NA	NA	NA
PeCDFs (total)	Not Listed	ND(0.0000000031)	ND(0.0000000032)	NA	NA	NA
1,2,3,4,7,8-HxCDF	Not Listed	ND(0.0000000033)	ND(0.0000000028)	NA	NA	NA
1,2,3,6,7,8-HxCDF	Not Listed	ND(0.0000000031)	ND(0.0000000027)	NA	NA	NA
1,2,3,7,8,9-HxCDF	Not Listed	ND(0.0000000039)	ND(0.0000000034)	NA	NA	NA
2,3,4,6,7,8-HxCDF	Not Listed	ND(0.0000000034)	ND(0.0000000030)	NA	NA	NA
HxCDFs (total)	Not Listed	ND(0.0000000039)	ND(0.0000000034)	NA	NA	NA
1,2,3,4,6,7,8-HpCDF	Not Listed	ND(0.0000000024)	ND(0.0000000020)	NA	NA	NA
1,2,3,4,7,8,9-HpCDF	Not Listed	ND(0.0000000030)	ND(0.0000000025)	NA	NA	NA
HpCDFs (total)	Not Listed	ND(0.0000000030)	ND(0.0000000025)	NA	NA	NA
OCDF	Not Listed	ND(0.0000000048)	ND(0.0000000051)	NA	NA	NA

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	UCL-GW Standards	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04	GMA3-9 10/15/04	OBG-2 10/08/04
Dioxins						
2,3,7,8-TCDD	Not Listed	ND(0.0000000031)	ND(0.0000000031)	NA	NA	NA
TCDDs (total)	Not Listed	ND(0.0000000031)	ND(0.0000000031)	NA	NA	NA
1,2,3,7,8-PeCDD	Not Listed	ND(0.0000000059)	ND(0.0000000056)	NA	NA	NA
PeCDDs (total)	Not Listed	ND(0.0000000059)	ND(0.0000000056)	NA	NA	NA
1,2,3,4,7,8-HxCDD	Not Listed	ND(0.0000000040)	ND(0.0000000036)	NA	NA	NA
1,2,3,6,7,8-HxCDD	Not Listed	ND(0.0000000036)	ND(0.0000000032)	NA	NA	NA
1,2,3,7,8,9-HxCDD	Not Listed	ND(0.0000000037)	ND(0.0000000033)	NA	NA	NA
HxCDDs (total)	Not Listed	ND(0.0000000040)	ND(0.0000000036)	NA	NA	NA
1,2,3,4,6,7,8-HpCDD	Not Listed	ND(0.0000000035)	ND(0.0000000039)	NA	NA	NA
HpCDDs (total)	Not Listed	ND(0.0000000035)	ND(0.0000000039)	NA	NA	NA
OCDD	Not Listed	ND(0.0000000045)	ND(0.0000000044)	NA	NA	NA
Total TEQs (WHO TEFs)	0.000001	0.0000000067	0.0000000065	NA	NA	NA
Inorganics-Unfiltered						
Arsenic	4	0.00530 B	ND(0.0100)	NA	NA	NA
Barium	100	0.300	0.0860 B	NA	NA	NA
Chromium	20	ND(0.0100)	0.00330 B	NA	NA	NA
Cobalt	Not Listed	ND(0.0500)	ND(0.0500)	NA	NA	NA
Copper	Not Listed	ND(0.0250)	ND(0.0250)	NA	NA	NA
Cyanide	2	ND(0.010)	ND(0.0100)	NA	NA	NA
Lead	0.3	ND(0.00300)	ND(0.00300)	NA	NA	NA
Nickel	1	ND(0.0400)	ND(0.0400)	NA	NA	NA
Silver	0.4	ND(0.00500)	ND(0.00500)	NA	NA	NA
Vanadium	20	ND(0.0500)	ND(0.0500)	NA	NA	NA
Zinc	20	0.0130 J	0.0180 J	NA	NA	NA
Inorganics-Filtered						
Arsenic	4	0.00490 B	ND(0.0100)	NA	NA	NA
Barium	100	0.290	0.0970 B	NA	NA	NA
Chromium	20	ND(0.0100)	0.00180 B	NA	NA	NA
Cobalt	Not Listed	ND(0.0500)	ND(0.0500)	NA	NA	NA
Copper	Not Listed	ND(0.0250)	ND(0.0250)	NA	NA	NA
Cyanide	2	ND(0.010)	ND(0.0100)	NA	NA	NA
Lead	0.3	ND(0.00300)	ND(0.00300)	NA	NA	NA
Nickel	1	ND(0.0400)	0.00150 B	NA	NA	NA
Silver	0.4	0.00160 B	0.00110 B	NA	NA	NA
Vanadium	20	ND(0.0500)	ND(0.0500)	NA	NA	NA
Zinc	20	ND(0.0200) J	ND(0.020) J	NA	NA	NA

TABLE 8
COMPARISON OF GROUNDWATER ANALYTICAL RESULTS TO MCP UCLs FOR GROUNDWATEF
BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 200

GROUNDWATER MANAGEMENT AREA 3
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 SGS 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 (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
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. With the exception of dioxin/furans, only those constituents detected in one or more samples are summarized.
7. Field duplicate sample results are presented in brackets.
8. - Indicates that all constituents for the parameter group were not detected.

Data Qualifiers:

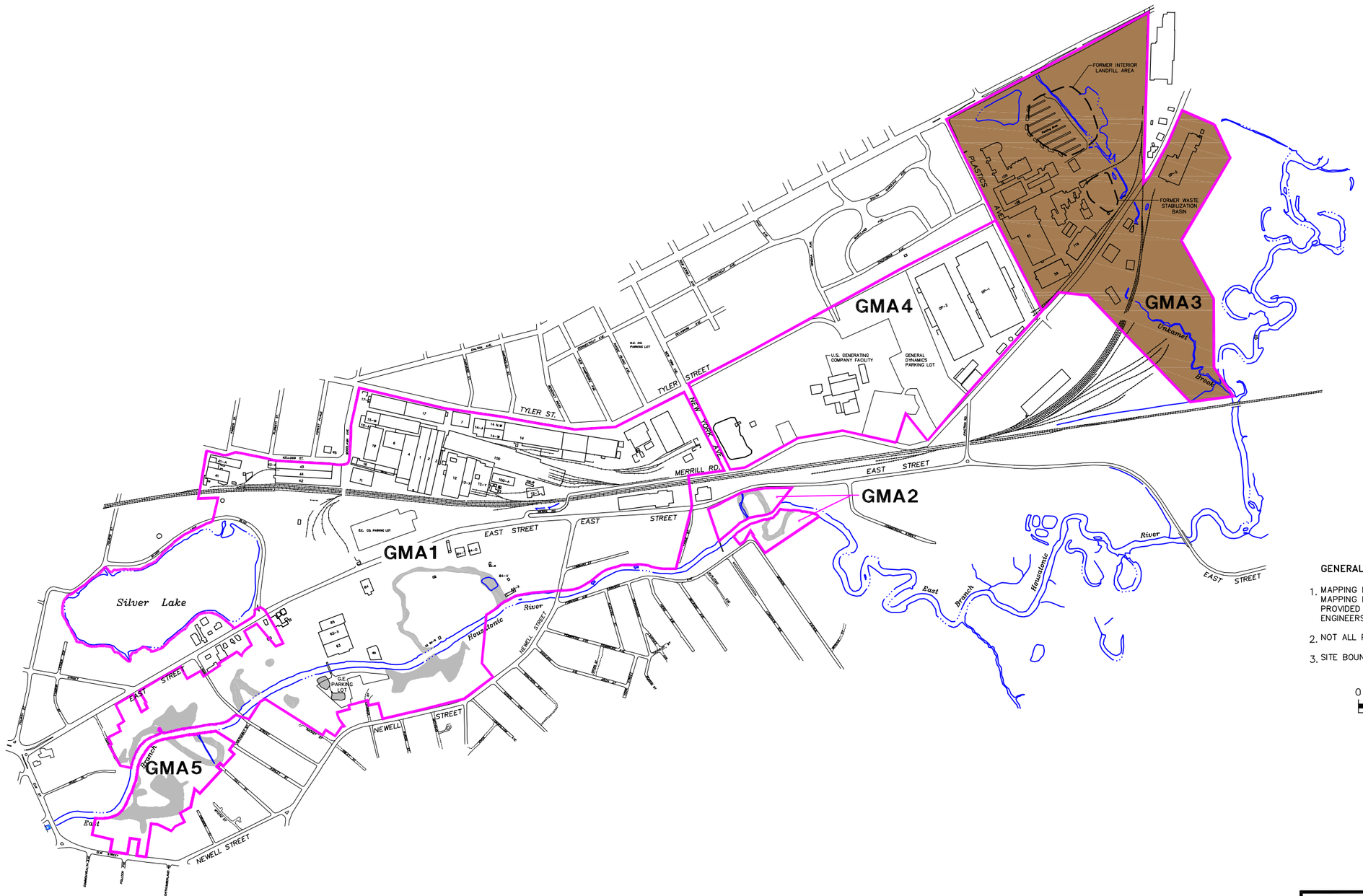
Organics (volatiles, PCBs, semivolatiles, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

Inorganic Parameters

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.

Figures



LEGEND:

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

GENERAL NOTES:

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

0 1000' 2000'
GRAPHIC SCALE

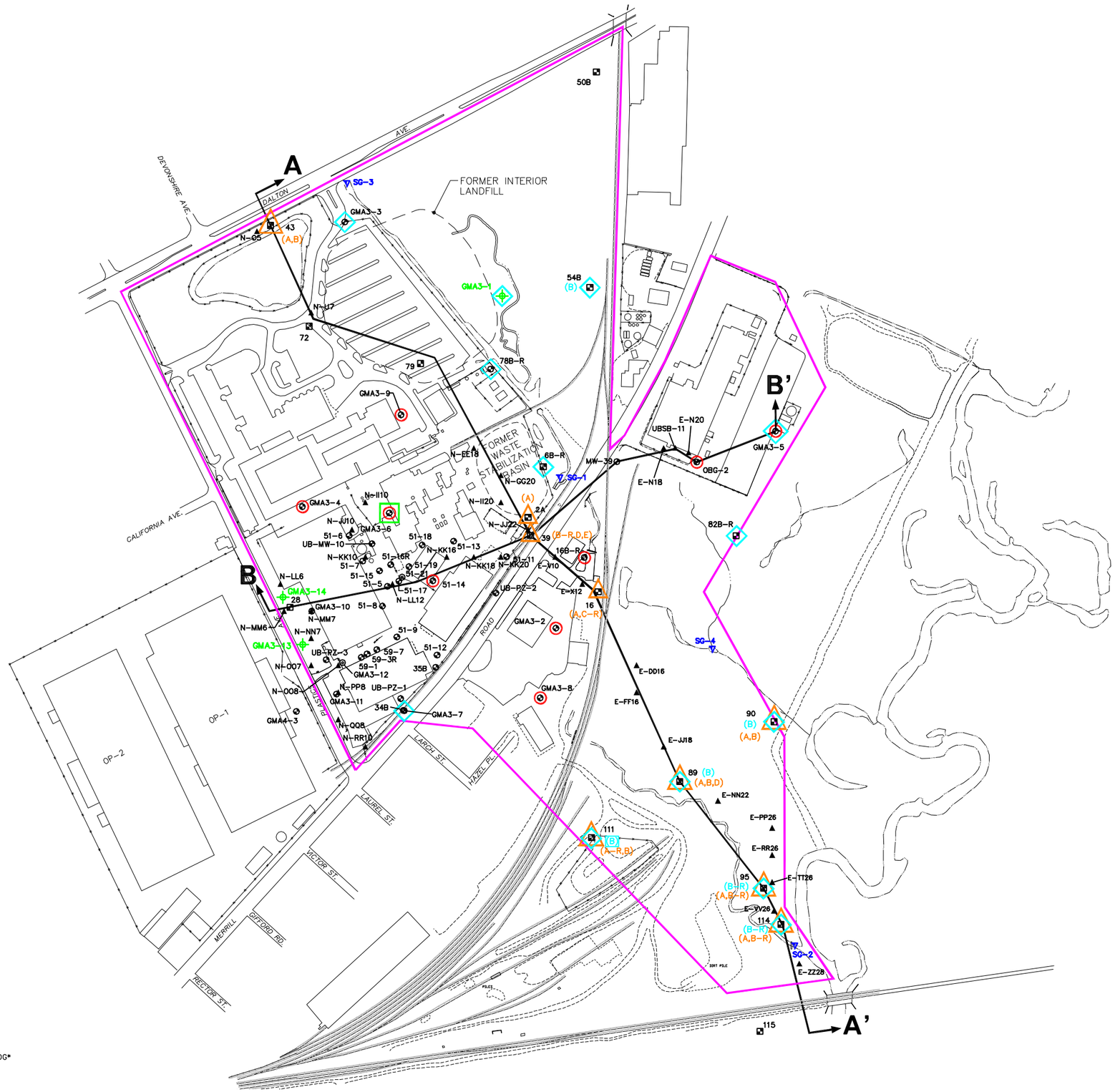
L: ON=*, OFF=*REF*
P: PAGESET/BL
2/25/05 SYR–54–PGL LAF RCB
C/20186002/20186G01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GROUNDWATER MANAGEMENT AREAS

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

FIGURE
1



LEGEND:

- SITE BOUNDARY
- FENCING
- UBSB–11 ▲ EXISTING SOIL BORING
- 51–6 ⊗ EXISTING MONITORING WELL
- 57 ⊠ EXISTING MONITORING WELL CLUSTER
- 51–21 ◎ NAPL RECOVERY WELL (SKIMMER)
- GMA3–1 ⊕ PROPOSED MONITORING WELL
- SG–1 ▽ SURFACE WATER STAFF GAUGE
- ○ GW–2 SENTINEL/COMPLIANCE WELL
- ◇ GW–3 PERIMETER WELL
- △ NATURAL ATTENUATION MONITORING WELL
- □ GENERAL/SOURCE AREA SENTINEL WELL (GW–3)
- A / A' CROSS SECTION LOCATION

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.–FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.
4. FOR WELL CLUSTERS SUBJECT TO DIFFERING MONITORING REQUIREMENTS, THE SPECIFIC WELL INCLUDED FOR EACH TYPE OF MONITORING IS PROVIDED IN PARENTHESES.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

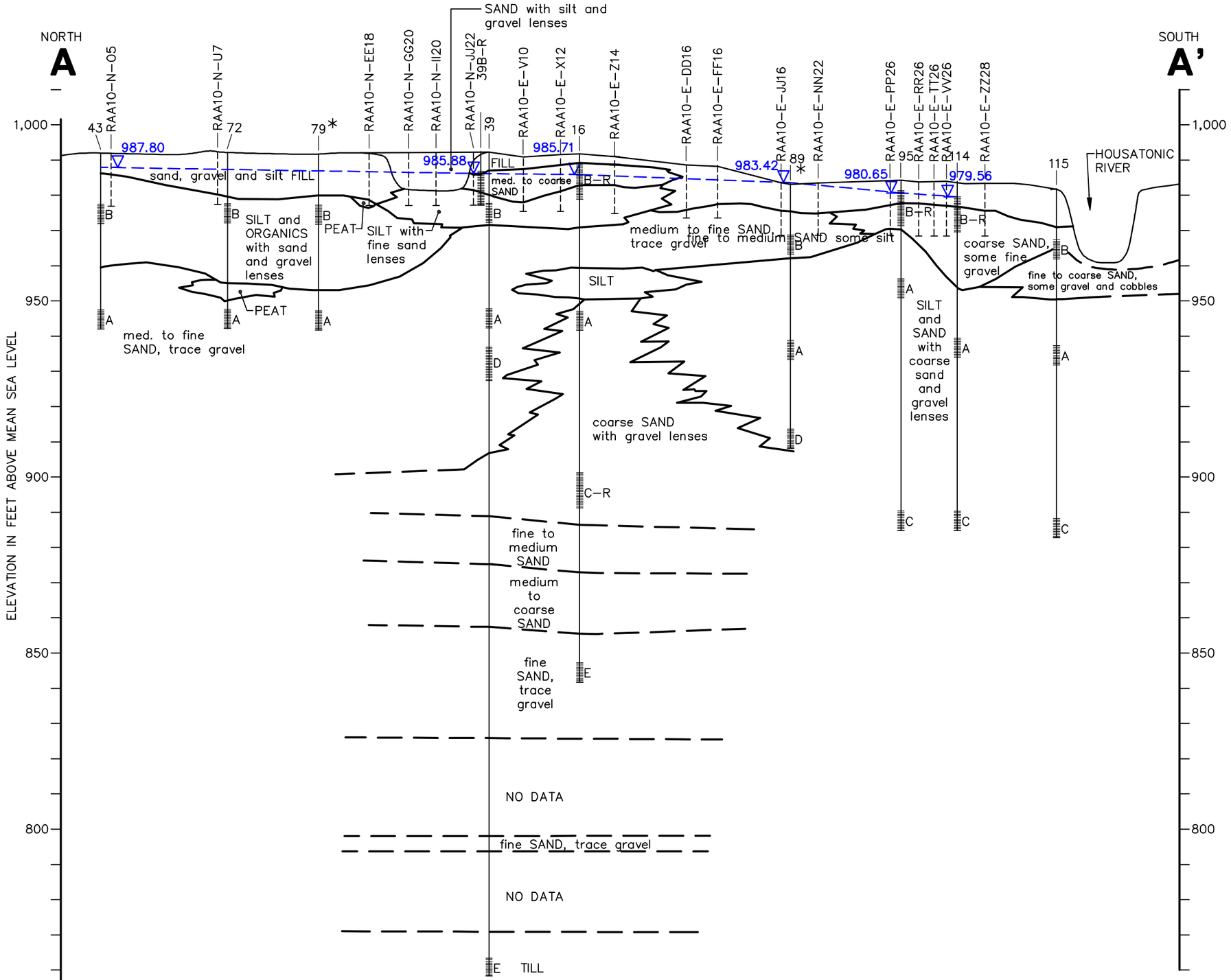
GMA 3 BASELINE MONITORING PROGRAM

SITE PLAN

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

FIGURE 2

X: 20186X02.DWG
L: ON=*, OFF=*REF*, |NAME–BLDG*
P: PAGESET/SYR–BL
2/25/05 SYR–85–NJR LAF RCB
C/20186002/20186G05.DWG



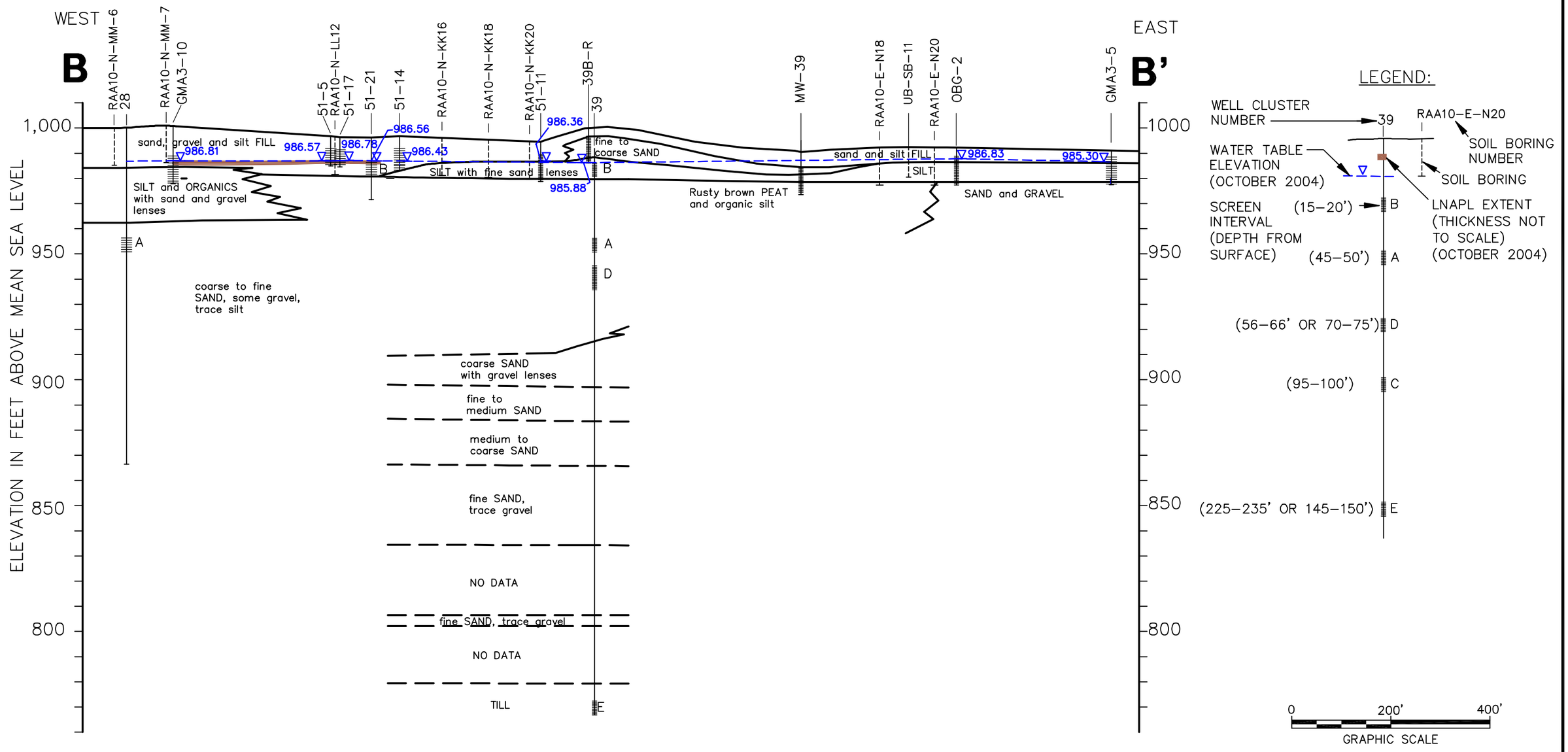
L: ON=*, OFF=*REF*
P: PAGESET/BL
2/25/05 SYR-85-RCB LAF RCB
C/20186002/20186V01.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GENERALIZED GEOLOGIC CROSS-SECTION A-A'

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

FIGURE
3



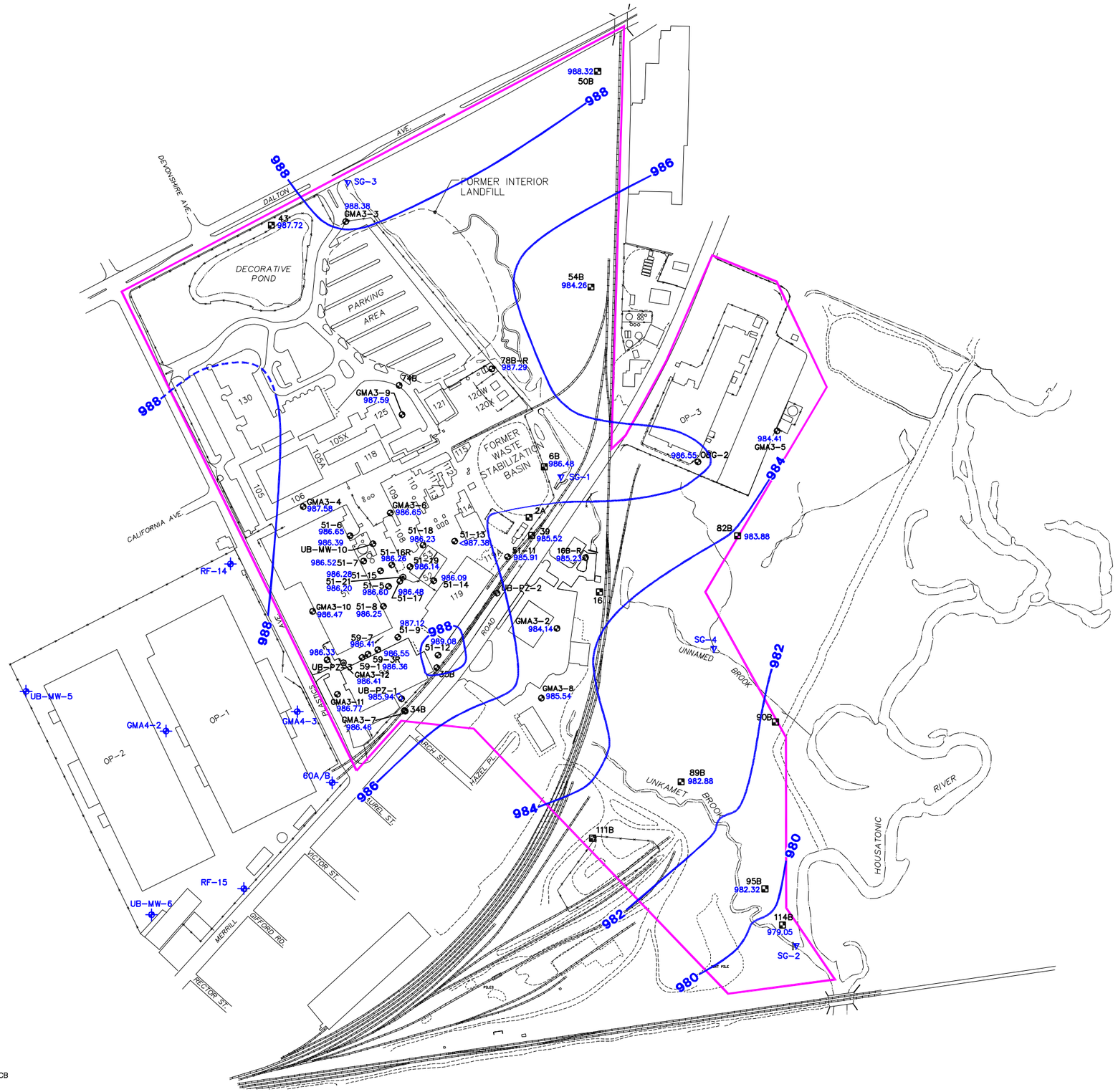
L: ON=*, OFF=*REF*
P: PAGESET/BL
2/25/05 SYR-85-RCB LAF RCB
C/20186002/20186V02.DWG

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GENERALIZED GEOLOGIC CROSS-SECTION B-B'

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

FIGURE
4



LEGEND:

- SITE BOUNDARY
- FENCING
- 51–6 EXISTING MONITORING WELL
- 54B EXISTING MONITORING WELL CLUSTER
- 51–21 NAPL RECOVERY WELL (SKIMMER)
- SG–1 SURFACE WATER STAFF GAUGE
- GMA4–2 GMA4 MONITORING WELL
- 990 GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- 986.33 GROUNDWATER ELEVATION IN FEET

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.–FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.
4. FOR WELL CLUSTERS, GROUNDWATER ELEVATION DATA FROM THE UPPERMOST WELL (B–SERIES) WAS UTILIZED IN THE PREPARATION OF THIS FIGURE.

0 400' 800'

GRAPHIC SCALE

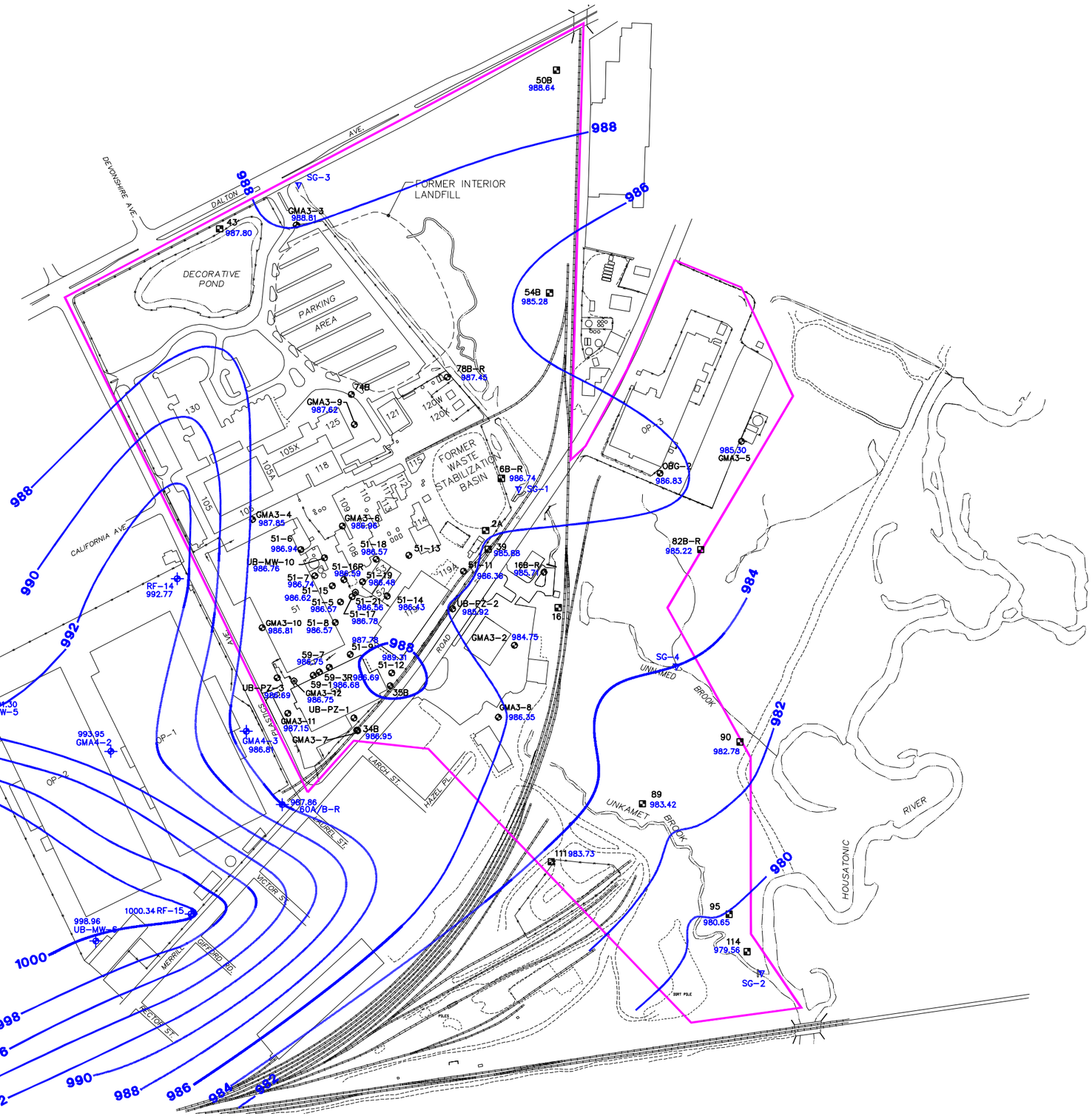
GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP - SUMMER 2004

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

FIGURE 5

X: 20186X02.DWG
L: ON=*, OFF=*REF*
P: PAGESET/BL
2/25/05 SYR-54-EIB LAF PGL RCB
C/20186002/20186W03.DWG



LEGEND:

- SITE BOUNDARY
- FENCING
- 51–6 ⊗ EXISTING MONITORING WELL
- 57 ⊡ EXISTING MONITORING WELL CLUSTER
- 51–21 ⊛ NAPL RECOVERY WELL (SKIMMER)
- SG–1 ∇ SURFACE WATER STAFF GAUGE
- GMA4–2 ⊕ GMA4 MONITORING WELL
- 990 GROUNDWATER ELEVATION CONTOUR IN FEET (DASHED WHERE INFERRED)
- 989.32 GROUNDWATER ELEVATION IN FEET

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.–FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.
4. FOR WELL CLUSTERS, GROUNDWATER ELEVATION DATA FROM THE UPPERMOST WELL (B–SERIES) WAS UTILIZED IN THE PREPARATION OF THIS FIGURE.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

GROUNDWATER ELEVATION CONTOUR MAP - FALL 2004

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

FIGURE 6

X: 20186X02.DWG
L: ON=*, OFF=*REF*
P: PAGESET/DL2B
2/25/05 SYR–54–DMW RCB PGL RCB
C/20186002/20186W01.DWG

LEGEND:

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

NOTES:

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

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

HISTORICAL EXTENT OF NAPL

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

FIGURE **7**

X: 20186X02.DWG
L: ON=*, OFF=*REF*
P: PAGESET/BL
2/25/05 SYR-54-PGL LAF RCB
C/20186002/20186G03.DWG

LEGEND:

- SITE BOUNDARY
- FENCING
- 51–6 — EXISTING MONITORING WELL
- 57 — EXISTING MONITORING WELL CLUSTER
- 51–21 — NAPL RECOVERY WELL (SKIMMER)
- GMA3–1 — BASELINE GROUNDWATER MONITORING WELL LOCATION (PROPOSED WELL)
- SG–1 — SURFACE WATER STAFF GAUGE
- EXTENT OF MEASURABLE LNAPL DURING FALL 2004 SEMI–ANNUAL MONITORING EVENT

NOTES:

1. FIGURE IS BASED ON PHOTOGRAPHIC MAPPING BY LOCKWOOD MAPPING, INC.–FLOWN IN APRIL 1990 AND DATA PROVIDED BY GENERAL ELECTRIC COMPANY.
2. NOT ALL PHYSICAL FEATURES SHOWN.
3. SITE BOUNDARIES, SAMPLE AND BUILDING LOCATIONS ARE APPROXIMATE.
4. AN INSTRUMENT DETECTION OF LNAPL WAS RECORDED AT WELL GMA3–4, BUT NO LNAPL WAS VISUALLY OBSERVED IN THIS WELL.

0 400' 800'

GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS
GMA 3 BASELINE MONITORING PROGRAM

EXTENT OF LNAPL - FALL 2004 MONITORING EVENT

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

FIGURE **8**

X: 20186X02.DWG
L: ON=*, OFF=*REF*
P: PAGESET/BL
2/25/05 SYR-85-EIB LAF RCB
C/20186002/20186G04.DWG

Appendices

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

Appendix A

Groundwater Monitoring Well Logs

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

Date Start/Finish: 8/10/04
Drilling Company: Parratt Wolff
Driller's Name: J. Robertson, M. Eaves
Drilling Method: Hollow Stem Auger
Bit Size: NA
Auger Size: 4 1/4"
Rig Type: CME 75
Sampling Method: 2" x 2' Split Spoon

Northing: 537191.5
Easting: 138910.0
Casing Elevation: 993.97

Borehole Depth: 12' below grade
Surface Elevation: 991.4

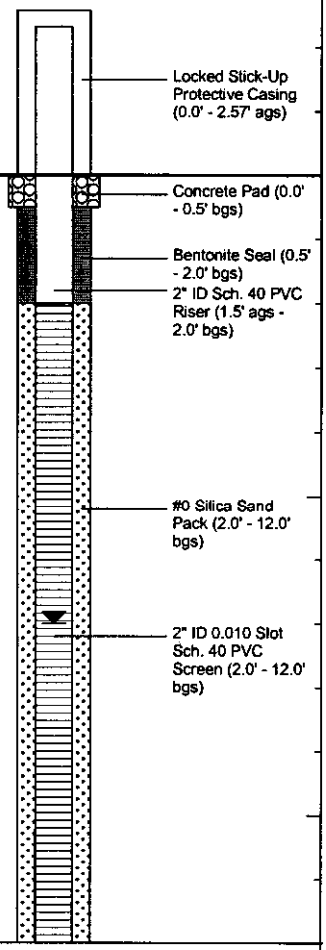
Geologist: Katherine Murray

Well/Boring ID: 6B-R

Client: General Electric Company

Location: GMA 3
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description
0 / 990	1	0-2	1.0	0.0	5 5 3 7	8		Brown fine SAND, trace Gravel and Organics (Roots), loose, non-plastic, odorless, moist. Tan to olive very fine SAND, trace fine Gravel, loose, non-plastic, odorless, moist.
	2	2-4	2.0	0.0	7 9 10 7	19		Tan to orange fine to medium SAND, some fine Gravel, loose, non-plastic, odorless, moist. Dark brown very fine SAND, trace fine Gravel and Organics (Roots), loose, non-plastic, odorless, moist. Wet at 2.6' bgs. Gray medium to coarse SAND, little fine Gravel and Silt, loose, non-plastic, odorless, moist.
5	3	4-6	0.4	0.0	12 15 17 18	32		Tan to brown fine to medium SAND, loose, non-plastic, odorless, moist.
985	4	6-8	0.5	0.0	50/0.4' -- -- --	NA		Brown fine SAND, trace fine Gravel, loose, non-plastic, odorless, moist. Refusal at 6.5' bgs.
	5	8-10	0.8	0.0	3 4 3 4	7		Gray to brown SILT turning black at 8.6' to 8.8' bgs (possible staining), slightly dense, non-plastic, benzene-like odor, moist.
10 / 980	6	10-12	2.0	0.0	2 2 2 2	4		Gray-brown SILT, slightly dense, non-plastic, slight odor. Wet at 10.5' bgs.
15								



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

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

Date Start/Finish: 8/9/04
Drilling Company: Parratt Wolff
Driller's Name: J. Robertson, M. Eaves
Drilling Method: Hollow Stem Auger
Bit Size: NA
Auger Size: 4 1/4"
Rig Type: CME 75
Sampling Method: 2" x 2' Split Spoon

Northing: 536937.4
Easting: 139621.6
Casing Elevation: 990.25

Borehole Depth: 10' below grade
Surface Elevation: 987.8

Geologist: Katherine Murray

Well/Boring ID: 82B-R

Client: General Electric Company

Location: GMA 3
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description
990 / 0								
	1	0-2	1.2	0.0	1 2 1 2	3		Dark brown very fine SAND, some Silt, trace Organic material (Grass and Roots), loose to slightly dense, non-plastic, odorless, moist.
								Gray SILT, trace very fine Sand, moderately dense, non-plastic, odorless, moist to wet.
								Tan very fine SAND and SILT, slightly dense, non-plastic, odorless, wet.
985	2	2-4	2	0.0	3 3 5 5	8		Tan medium to coarse SAND, trace Silt, loose, non-plastic, odorless, wet.
5	3	4-6	1.1	0.0	1 2 1 4	3		Gray medium SAND, trace coarse and fine Sand and Silt, loose, non-plastic, odorless, wet.
	4	6-8	1.9	0.0	2 2 2 2	4		Gray-brown below 6.0' bgs.
980								Gray coarse SAND and fine GRAVEL, trace medium Sand and Silt, loose, non-plastic, odorless, wet. Trace fine gravel below 8.0' bgs.
10	5	8-10	1.1	0.0	2 1 1 2	2		
975								
15								

Well/Boring Construction:
- Locked Stick-Up Protective Casing (0.0' - 2.45' ags)
- Concrete (0.0' - 0.5' bgs)
- Bentonite Seal (0.5' - 1.5' bgs)
- 2" ID Sch. 40 PVC Riser (1.5' ags - 2.0' bgs)
- #0 Monic Silica Sand Pack (1.5' - 10.0' bgs)
- 2" ID 0.010 slot Sch. 40 PVC Screen (2.0' - 10.0' bgs)

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

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

Date Start/Finish: 8/25/04
Drilling Company: Parratt Wolff
Driller's Name: Mickey Marshall, Brad Palmer
Drilling Method: Hollow Stem Auger
Bit Size: NA
Auger Size: 4 1/4"
Rig Type: CME 850 Track-Mounted Rig
Sampling Method: 2" x 2' Split Spoon

Northing: 535637.2
Easting: 139722.3
Casing Elevation: 986.7

Borehole Depth: 13' below grade
Surface Elevation: 984.3

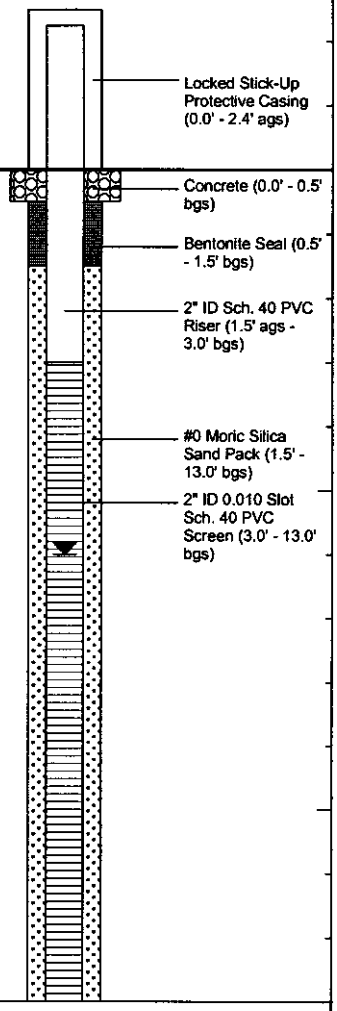
Geologist: Kristina Gross

Well/Boring ID: 95B-R

Client: General Electric Company

Location: GMA 3
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description
985								
0	1	0-2	1.5	39.1	WOH/1' 1 2	NA		Dark brown very fine SAND and SILT, soft, moist.
	2	2-4	0.6	42.2	2 2 2 2	4		Grayish-brown fine SAND, little Silt, trace Organics (Wood), soft, moist.
980								No Organics below 4.0' bgs.
5	3	4-6	1.4	40.1	1/2'	NA		Dark grayish-brown fine SAND, some Silt, very loose, moist to wet. ORGANICS (WOOD and LEAVES), compacted.
	4	6-8	2.0	50.3	1 1 1 2	2		Dark grayish-brown fine SAND, little to trace Silt, trace Organics, very loose, wet.
975	5	8-10	0.5	61.2	1 1 2 3	3		Gray fine to coarse SAND, little fine Gravel, loose, wet.
10	6	10-12	2.0	67.0	10 12 14 14	26		Grayish-brown fine to very fine SAND, some Silt, dense, wet.
								Auger to 13.0' bgs without sampling.
970								
15								



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

Remarks: bgs = below ground surface; ags = above ground surface;
NA = Not Available/ Not Applicable;
WOH= Weight of Hammer.

Date Start/Finish: 8/9/04
Drilling Company: Parratt Wolff
Driller's Name: J. Robertson, M. Eaves
Drilling Method: Hollow Stem Auger
Bit Size: NA
Auger Size: 4 1/4"
Rig Type: CME 75
Sampling Method: 2" x 2' Split Spoon

Northing: 535824.1
Easting: 139087.8
Casing Elevation: 997.71

Borehole Depth: 50' below grade
Surface Elevation: 995.1

Geologist: Katherine Murray

Well/Boring ID: 111A-R

Client: General Electric Company

Location: GMA 3
Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction
0 995								Auger to 40.0' bgs without sampling.	Locked Stickup Protective Casing (0.0' - 2.61' ags); Concrete (0.0' - 0.5' bgs); 2" ID Sch. 40 PVC Riser (1.5' ags - 40.0' bgs); Cement - Bentonite Grout (0.5' - 37.0' bgs)
5 990									
10 985									
15 980									

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

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

Client:
General Electric Company

Site Location:
GMA 3
Pittsfield, MA

Well/Boring ID: 111A-R

Borehole Depth: 50' below grade

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction
								Auger to 40.0' bgs without sampling.	Cement - Bentonite Grout (0.5' - 37.0' bgs)
20 / 975									
25 / 970									
30 / 965									
35 / 960									

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

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

Client:
General Electric Company

Site Location:
GMA 3
Pittsfield, MA

Well/Boring ID: 111A-R

Borehole Depth: 50' below grade

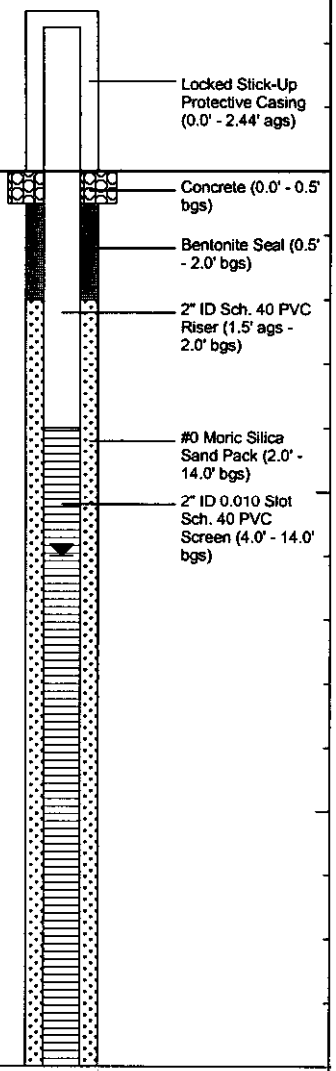
DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 Inches	N - Value	Geologic Column	Stratigraphic Description	Well/Boring Construction
								Auger to 40.0' bgs without sampling.	Cement - Bentonite Grout (0.5' - 37.0' bgs)
40 / 955									Bentonite Seal (37.0' - 39.0' bgs)
	1	40-42	1.2	0.0	20 24 29 38	53		Brownish-tan fine SAND, trace Silt, very dense, non-plastic, odorless, wet.	#0 Moric Silica Sand Pack (39.0' - 50.0' bgs)
	2	42-44	2.0	0.0	48 44 40 40	84		COBBLE.	
45 / 950	3	44-46	1.2	0.0	15 17 29 31	46			2" ID 0.010 Slot Sch. 40 PVC Screen (40.0' - 50.0' bgs)
	4	46-48	0.2	0.0	27 50/0.4' -- --	NA			
	5	48-50	1.3	0.0	30 50/0.4' -- --	NA		Brownish-tan fine SAND, little fine to medium Gravel, trace Silt, moderately dense, non-plastic, odorless, wet. [TILL]	
50 / 945									
55 / 940									

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

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

Date Start/Finish: 8/26/04 **Drilling Company:** Parratt Wolfe **Driller's Name:** Mickey Marshall, Brad Palmer **Drilling Method:** Hollow Stem Auger **Bit Size:** NA **Auger Size:** 4 1/4" **Rig Type:** CME 850 Track-Mounted Rig **Sampling Method:** 2" x 2' Split Spoon	**Northing:** 535503.9 **Easting:** 139786.9 **Casing Elevation:** 985.94 **Borehole Depth:** 14' below grade **Surface Elevation:** 983.5 **Geologist:** Kristina Gross	**Well/Boring ID:** 114B-R **Client:** General Electric Company **Location:** GMA 3 Pittsfield, MA

DEPTH / ELEVATION	Sample Run Number	Sample/Int/Type	Recovery (feet)	PID Headspace (ppm)	Blows / 6 inches	N - Value	Geologic Column	Stratigraphic Description
985								
0								
	1	0-2	1.4	2.9	1 2 2 1	4		Dark brown SILT, little to some Organics (Wood and Roots), little fine Sand, loose, moist.
								Brown SILT and fine SAND, little Organics (Wood and Roots), loose, moist.
	2	2-4	1.0	4.2	2 2 2 2	4		
980								
5	3	4-6	1.0	1.3	WOH/1' 2 2	NA		
	4	6-8	1.2	1.0	3 3 2 2	5		Gray fine to coarse SAND, loose, wet.
975								
	5	8-10	0.9	0.1	3 1 1 2	2		
10								
	6	10-12	2.0	0.0	1 3 5 6	8		Gray fine SAND, little medium Sand, loose, wet.
	7	12-14	2.0	0.0	3 5 6 6	11		Brown fine SAND and SILT, trace fine Gravel, loose, wet.
970								
15								



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

Remarks: bgs = below ground surface, ags = above ground surface;
NA = Not Available/Not Applicable;
WOH= Weight of Hammer.

Appendix B

Field Sampling Data

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

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
2A	PP/BA	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA.
6B-R	PP/BA	NS	NS	NS	NS	PP	Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 6B-R to be installed. Fall 2004: Water level in well dropped below top of pump intake during purging - intake was lowered and well was successfully sampled.
16A	PP	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA.
16B-R	BP	NS	NS	NS	BP	BP	Spring 2002: Possible dissolved oxygen meter malfunction (readings decreased to zero during purging.) Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Water level in well dropped below top of bladder pump during purging and stabilized at unknown point above pump intake, could not measure.
16C	PP/BA	NS	NS	NS	NS	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 16C-R installed.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
16E	PP/BA	NS	NS	NS	NS	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Location will be removed from the monitoring program.
39B-R	NS	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002: Well not sampled as installation was not completed prior to sampling event. Spring 2003: Sampling deferred due to property access issues at portions of the GMA.
39D	PP/BA	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA.
39E	PP/BA	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Insufficient groundwater removed during initial sampling attempt to clear sample tubing. Analysis was cancelled and well was re-sampled, using smaller diameter tubing.
43A	PP	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
43B	PP	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2003: Sampling deferred due to property access issues at portions of the GMA.
51-14	BP	NS	NS	NS	BP	BP	Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
54B	PP/BA	NS	NS	NS	NS	NS	Spring 2002: Bladder pump clogged due to high organic matter content in well, switched to peristaltic/bailer method. Unable to reduce turbidity below 50 NTU. Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 54B-R to be installed.
78B-R	BP	PP	BP	BP	BP	BP	Spring 2002: Dissolved oxygen meter malfunction. Fall 2002: Dissolved oxygen meter malfunction. Spring 2004: VOC samples received at laboratory above temperature criteria. Analysis cancelled and samples re-collected.
82B-R	NS	NS	NS	NS	NS	PP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 82B-R to be installed.
89A	NS	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
89B	NS	NS	NS	NS	PP	PP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
89D	NS	NS	NS	NS	NS	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 89D-R to be installed.
90A	NS	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA.
90B	NS	NS	NS	NS	PP	PP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: VOC samples received at laboratory above temperature criteria. Analysis cancelled and samples re-collected.
95A	NS	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
95B-R	NS	NS	NS	NS	NS	PP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 95B-R to be installed.
95C	NS	NS	NS	NS	NS	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Location will be removed from the monitoring program.
111A	NS	NS	NS	NS	NS	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Replacement well 111A-R to be installed.
111B	NS	NS	NS	NS	BP	BP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Water level in well dropped below top of bladder pump during purging and stabilized at unknown point above pump intake, could not measure. Fall 2004: Well dried during purging and recharged sufficient volume to collect VOC samples only (several sampling attempts made). Replacement well 111B-R to be installed.
114A	NS	NS	NS	NS	PP	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
114B-R	NS	NS	NS	NS	BP	BP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well dried during purging, several sampling visits required to collect required sample volume.
114C	NS	NS	NS	NS	NS	NS	This well is scheduled for annual sampling for natural attenuation parameter analysis during the spring sampling events only. Therefore no samples are collected during the fall rounds. Spring 2002 and Spring 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Well found to be unusable and not sampled. Location will be removed from the monitoring program.
GMA3-1	NS	NS	NS	NS	NS	NS	Spring 2002 to Spring 2004: Well not sampled as installation has been deferred until re-routing of Unkamet Brook is completed.
GMA3-2	BP	NS	NS	NS	BP	BP	Spring 2002: Possible dissolved oxygen meter malfunction (readings decreased to zero during purging.) Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
GMA3-3	NS	NS	NS	NS	PP	PP	Spring 2002: Well not sampled as installation was not completed prior to sampling event. Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
GMA3-4	BP	NS	NS	NS	BP	BP	Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Spring 2004: Unable to maintain turbidity below 50 NTU during purging.
GMA3-5	NS	NS	NS	NS	BP	BP	Spring 2002: Well not sampled as installation was not completed prior to sampling event. Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.

TABLE B-1
SUMMARY OF GROUNDWATER SAMPLING METHODS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well ID	Sampling Method						Comments
	Spring 2002	Fall 2002	Spring 2003	Fall 2003	Spring 2004	Fall 2004	
GMA3-6	BP	NS	NS	NS	BP	BP	Spring 2002: Possible dissolved oxygen meter malfunction (readings decreased to zero during purging.) Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
GMA3-7	NS	NS	NS	NS	PP	BP	Spring 2002: Well not sampled as installation was not completed prior to sampling event. Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
GMA3-8	NS	NS	NS	NS	PP	PP	Spring 2002: Well not sampled as installation was not completed prior to sampling event. Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
GMA3-9	NS	NS	NS	NS	PP	PP	Spring 2002: Well not sampled as installation was not completed prior to sampling event. Fall 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA.
OBG-2	NS	NS	NS	NS	BP	BP	Spring 2002 through Fall 2003: Sampling deferred due to property access issues at portions of the GMA. Fall 2004: Unable to maintain turbidity below 50 NTU during purging.

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 LOG

Well No. JP MW-6B-R
Key No. 2537 (PW)
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAP, MAH
Date 10/6/04
Weather Sunny, windy, 50's

WELL INFORMATION

Reference Point Marked? Y (N)
Height of Reference Point — Meas. From BGS
Well Diameter 2"
Screen Interval Depth 2-12' Meas. From BGS
Water Table Depth 6.42' Meas. From TIC
Well Depth 14.84' Meas. From TIC
Length of Water Column 8.42'
Volume of Water in Well 1.37 gallon
Intake Depth of Pump/Tubing 9.21' 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 1522
Sample ID 6B-R
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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	~~Other (Specify)~~	(X)
(X)	Cyanide (Filtered)	(X)
	Sulfide	

EVACUATION INFORMATION

Pump Start Time 1413
Pump Stop Time 1730
Minutes of Pumping 197
Volume of Water Removed ~4.98 gal
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump ( )
Peristaltic Pump (X) Submersible Pump ( ) Other/Specify ( )
Pump Type: geopump 2 SN 602000483
Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS 03C0392
HACH Turbidmeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
1414	200	—	6.51	—	—	—	6	—	—
1420	150	0.2910	6.80	17.10	7.00	0.5168	5	8.74	94.2
1425	150	0.4894	7.05	17.00	7.02	0.578	4	1.05	49.0
1430	125	0.6547	7.21	16.82	7.01	0.589	4	0.93	10.6
1435	100	0.7870	7.37	16.76	6.91	0.594	3	0.83	-3.6
1440	125	0.9523	7.55	16.79	7.07	0.598	3	0.79	-28.7
1445	125	1.1176	7.76	16.93	6.89	0.6060	3	0.71	-52.9
1450	100	1.2499	7.92	16.92	7.22	0.6010	3	0.58	-87.4
1455	100	1.3822	8.05	16.93	7.06	0.6007	3	0.56	-89.5
1500	100	1.945	8.18	17.04	6.99	0.6005	3	0.51	-104.2
1505	100	1.6468	8.31	17.00	7.28	0.6003	4	0.45	-120.4
1510	100	1.7791	8.42	16.74	7.31	0.6009	4	0.44	-129.1

* 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 Initial purge: Clear, colorless, slight odor.

*1607 - water level dropped below ~~final purge~~ sample tubing depth. Lowered tubing 1 foot.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. 6B-R
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAP, MAH
Date 10/6/04
Weather Sunny, windy, 50's

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter ____
Screen Interval Depth ____ Meas. From ____
Water Table Depth ____ Meas. From ____
Well Depth ____ Meas. From ____
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

Redevelop? Y (N)

Sample Time ____
Sample ID 6B-R
Duplicate ID ____
MS/MSD ____
Split Sample ID ____

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

EVACUATION INFORMATION

see page 1

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. (Celsius) [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]*
1515	100	1.9114	8.55	16.64	7.35	0.613	.5	0.40	-131.5
1519	100	2.0437	8.66	16.72	7.41	0.621	.5	0.37	-132.5

* 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 *1150 - water level dipped below sample intake depth (@11.21'). Lowered another foot (to ~12.21') Sample water yellowish and turbid now (organic material). • Final water level reading: 11.91', Final purge: Yellowish in color, slightly turbid, odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA 3
Sampling Personnel SEK / AMG
Date 10-7-04
Weather 50° sunny

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 3' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 6.08-16.08 Meas. From TIC
Water Table Depth 8.99 Meas. From TIC
Well Depth 16.41 Meas. From TIC
Length of Water Column 7.42
Volume of Water in Well 1.21 gal
Intake Depth of Pump/Tubing 12.7 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 10:45
Sample ID 16B-R
Duplicate ID DUP-3
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 9:32
Pump Stop Time 11:04
Minutes of Pumping 92
Volume of Water Removed 2.43 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 556MPS 03014161 AL, HACH turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
9:35	0.100	0.0	8.97	—	—	—	21	—	—
9:45	0.100	0.26	9.24	16.51	6.76	1.522	21	0.97	-333.0
9:50	0.100	0.39	9.39	16.58	6.93	1.529	67	0.91	-327.6
~~10~~ 9:55	0.100	0.52	~~8~~9.56	16.80	7.08	1.528	49	0.88	-305.0
10:00	0.100	0.66	9.66	16.80	7.20	1.534	41	0.83	-356.2
10:05	0.100	0.79	9.84	16.90	7.16	1.540	22	0.79	-336.0
10:10	0.100	0.92	9.89	17.02	7.20	1.562	17	0.76	-355.6
10:15	0.100	1.04	10.01	17.04	7.20	1.594	13	0.78	-357.3
10:20	0.100	1.16	10.06	17.20	7.22	1.618	11	0.76	-346.2
10:25	0.100	1.29	10.12	17.33	7.26	1.660	9	0.73	-339.1
10:30	0.100	1.41	10.20	17.44	7.26	1.686	9	0.66	-341.6
10:35	0.100	1.54	10.24	17.50	7.34	1.706	8	0.76	-355.6

* 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

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

0.0264 0.132

C:\Documents and Settings\kbeach\Local Settings\Temp\554199 Attachment D-2.xls

GROUNDWATER SAMPLING LOG

Well No. 116B-R
Site/GMA Name GMA3
Key No.
Sampling Personnel
PID Background (ppm)
Date
Well Headspace (ppm)
Weather

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter
Screen Interval Depth ____ Meas. From ____
Water Table Depth ____ Meas. From ____
Well Depth ____ Meas. From ____
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)
(T.O.C. = Top of Outer [Protective] Casing)
(G.S. = Ground Surface)

Redevelop? Y N

See page 1

Sample Time 10:45
Sample ID
Duplicate ID
MS/MSD
Field Blank ID

Analytical Parameters	Collected
VOCs (Std. list)	( )
VOCs (Exp. list)*	( )
SVOCs	( )
PCBs (Total)	( )
PCBs (Dissolved)*	( )
Metals/Inorganics (Total)	( )
Metals/Inorganics (Dissolved)	( )
PCDDs/PCDFs	( )
Pesticides/Herbicides	( )
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 Number(s)

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) (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)*
10:39	0.100	~~1.25~~	10.23	17.57	7.33	1.714	9	0.75	-347.4
10:43	0.100	1.75	10.26	17.65	7.34	1.721	8	0.77	-356.2

* 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

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

C:\Documents and Settings\kbeecht\Local Settings\Temp\554199 Attachment D-2.xls

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA 3
Sampling Personnel JCM, KLB
Date 10/7/04
Weather SUNNY, 45°

WELL INFORMATION
Reference Point Marked? (Y) N
Height of Reference Point -0.15' Meas From BGS
Well Diameter 2"
Screen Interval Depth 5-15' Meas From BGS
Water Table Depth 10.26' Meas From TIC
Well Depth 15.43' Meas From TIC
Length of Water Column 4.87'
Volume of Water in Well 0.79 gal
Intake Depth of Pump/Tubing 12.7' 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 51-14
Duplicate ID
MS/MSD COLLECTED
Split Sample ID —

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

EVACUATION INFORMATION
Pump Start Time 10:12
Pump Stop Time 11:50
Minutes of Pumping 96 min
Volume of Water Removed 2.6 gal
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: HACH TURBIDIMETER 02020002537G
YSI 556 03C0392 AE

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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	0.100	—	10.30	—	—	—	23	—	—
10:27	0.100	0.317	10.30	17.17	6.36	0.406	14	4.08	229.4
10:32	0.100	0.449	10.30	17.41	6.40	0.410	14	2.91	222.2
10:37	0.100	0.582	10.30	17.39	6.43	0.418	10	1.75	213.2
10:42	0.100	0.714	10.30	17.52	6.46	0.422	9	1.48	206.1
10:47	0.100	0.846	10.30	17.69	6.47	0.423	6	1.47	199.6
10:52	0.100	0.978	10.30	17.71	6.48	0.427	6	1.50	194.6
10:57	0.100	1.111	10.30	17.80	6.48	0.430	5	1.37	184.7
11:02	0.100	1.243	10.30	17.83	6.49	0.431	4	1.34	178.1
11:07	0.100	1.375	10.30	17.78	6.49	0.433	4	1.36	172.1
11:12	0.100	1.507	10.30	17.97	6.49	0.433	4	1.35	166.4
11:17	0.100	1.639	10.30	18.11	6.49	0.434	3	1.37	160.7

* 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, COLORLESS, ODORLESS

* MS/MSD COLLECTED

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

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. SI-14
Key No. -
PID Background (ppm) -
Well Headspace (ppm) -

Site/GMA Name GMA 3
Sampling Personnel KLB, JCM
Date 10/7/04
Weather SUNNY, 45°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.15' Meas From BGS
Well Diameter 2"
Screen Interval Depth 5-15' Meas From BGS
Water Table Depth 10.26' Meas. From TIC
Well Depth 15.13' Meas From TIC
Length of Water Column 4.87'
Volume of Water in Well 0.79 gal
Intake Depth of Pump/Tubing 12.7' 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 SI-14
Duplicate ID —
MS/MSD COLLECTED
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 10:12
Pump Stop Time 11:50
Minutes of Pumping 98 min
Volume of Water Removed 2.69 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: HACH TURBIMETER 020200025376
YSI 556 03C0392 AE

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
11:21	0.100	1.745	10.30	18.23	6.50	0.434	3	1.43	155.7
11:25	0.100	1.851	10.30	18.36	6.51	0.435	4	1.34	151.2
11:29	0.100	1.957	10.30	18.38	6.52	0.435	3	1.33	146.6
11:33 ~~11:34~~	0.100	2.063	10.30	18.26	6.50	0.435	3	1.35	144.0

ICB

* 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 FINAL PURGE - CLEAR, COLORLESS, ODORLESS

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA-3
Sampling Personnel MAH/TIT
Date 10/5/04
Weather Overcast, cool

WELL INFORMATION

Reference Point Marked? Y (MAH) N
Height of Reference Point 0.27 Meas. From BGS
Well Diameter 2.00"
Screen Interval Depth 1.82 - 11.82' Meas. From Ground
Water Table Depth 1.30 Meas. From TIC
Well Depth 11.85 Meas. From TIC
Length of Water Column 10.55
Volume of Water in Well 1.72 gallons
Intake Depth of Pump/Tubing 6.82 (MAH) 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 1015
Sample ID 78B-R
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/Inorganics (Total)	X
X	Metals/Inorganics (Dissolved)	X
X	PCDDs/PCDFs	X
X	Pesticides/Herbicides	X
	Natural Attenuation	
X	Other (Specify) SVOCs	X

EVACUATION INFORMATION

Pump Start Time 0930
Pump Stop Time 1152
Minutes of Pumping 142
Volume of Water Removed 4.0 gallons
Did Well Go Dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type Marschalk Serial # 4233205 1
Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers YSI 556 MPS Serial # 03M0230AC

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
0930	75	0.10	~~1.27~~ (MAH)				14		
0935	100	0.232	1.27				10		
0940	100	0.364	1.25				7		
0950	100	0.496	1.27	16.41	5.57	2.198	5	0.49	-185.8
0955	100	0.628	1.27	16.53	5.69	2.202	7	0.33	-152.2
1000	100	0.760	1.28	16.60	5.74	2.206	5	0.30	-157.0
1005	100	0.892	1.27	16.61	5.77	2.207	5	0.29	-162.9
1010	100	1.024	1.28	16.60	5.81	2.208	6	0.27	-162.1

* 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 LOG

Well No. 32B-R
Key No. 2537 (PLW)
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAP, KLB
Date 10/5/04
Weather Sunny; 50's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.28' Meas. From JP TIC BGS
Well Diameter 2"
Screen Interval Depth 2-12' Meas. From BGS
Water Table Depth 4.19 Meas. From TIC
Well Depth 11.89 Meas. From TIC
Length of Water Column 7.71'
Volume of Water in Well 1.26 gal
Intake Depth of Pump/Tubing 8.04' 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 1010
Sample ID 32B-R
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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

(CYANIDE (TOTAL AND DISSOLVED) SULFIDE

EVACUATION INFORMATION

Pump Start Time 854
Pump Stop Time 1127
Minutes of Pumping 147
Volume of Water Removed 5.29 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 03C0392 AF
HACH TURBIDIMETER 02100002B329

Time	Pump Rate (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
855	100	—	4.21	—	—	—	62	—	—
900	125	0.1699	4.21	—	—	—	58	—	—
905	125	0.3332	4.21	—	—	—	46	—	—
911	125	0.4985	4.21	12.48	6.08	0.394	36	4.45	31.5
916	125	0.6638	4.21	12.55	6.08	0.394	35	1.48	12.8
921	125	0.8291	4.21	12.68	6.07	0.411	27	1.04	2.0
926	125	0.9944	4.21	12.78	6.09	0.453	20	0.85	-14.9
931	125	1.1597	4.21	12.88	6.14	0.494	15	0.77	-27.2
936	125	1.3250	4.21	12.95	6.17	0.528	13	0.70	-35.3
941	125	1.4903	4.22	13.01	6.17	0.553	11	0.63	-40.9
946	150	1.6887	4.22	13.14	6.18	0.576	12	0.59	-44.0
951	125	1.8540	4.21	13.09	6.18	0.604	9	0.55	-48.0

* 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 - Slightly yellow in color, ~~clear~~. Slightly turbid (organic particles), slight odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. 82B-R
Key No. 2537 (PW)
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAP, KLB
Date 10/8/04
Weather Sunny, 60's

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.28' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 2-12' Meas. From BGS
Water Table Depth 4.58' Meas. From TIC
Well Depth 11.89' Meas. From TIC
Length of Water Column 7.71'
Volume of Water in Well 1.26 gal
Intake Depth of Pump/Tubing 8.04 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 1010
Sample ID 82B-R
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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Other (Specify): Cyanide (total + dissolved), Sulfide

EVACUATION INFORMATION

Pump Start Time 854
Pump Stop Time 1127
Minutes of Pumping 147
Volume of Water Removed 5.29 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 MPS 03C0392
HACH turbidimeter 02100028329

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
956	125	2.0193	4.22	13.12	6.19	0.615	8	0.55	-46.8
1001	125	2.1846	4.22	13.25	6.23	0.620	7	0.52	-47.5
1005	125	2.3500	4.22	13.30	6.23	0.627	6	0.54	-47.4

* 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: FINAL PURGE: Slightly yellow in color, organic odor, clear

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. [redacted] 89B
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA-3
Sampling Personnel MH, JST
Date 10/14/04
Weather Overcast

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point +3.50' Meas From TOC – Ground surface
Well Diameter 2.00"
Screen Interval Depth 4-7' Meas From TOC
Water Table Depth 2.61' Meas From TOC
Well Depth ~~8.27~~ 8.99' Meas From TOC
Length of Water Column 6.38'
Volume of Water in Well 1.04 gallons
Intake Depth of Pump/Tubing 8.00' Meas From TOC

Reference Point Identification
TIC Top of Inner (PVC) Casing
TOC Top of Outer (Protective) Casing
Grade/BGS Ground Surface

Redevelop? Y (N)

Sample Time ~~89B~~ 12:30
Sample ID 89B
Duplicate ID Aug-4
MS/MSD —
Split Sample ID UB-GW000052-0-4C

Required	Analytical Parameters:	Collected
X	VOCs (Std. list)	X
—	VOCs (Exp. list)	—
X	Expanded SVOCs	X
X	PCBs (Total)	X
X	PCBs (Dissolved)	X
X	Metals/Inorganics (Total)	X
X	Metals/Inorganics (Dissolved)	X
X	PCDDs/PCDFs	X
X	Pesticides/Herbicides	X
	Natural Attenuation	
X	Other (Specify) (soil-Ag)	X

EVACUATION INFORMATION

Pump Start Time 1103
Pump Stop Time 1210
Minutes of Pumping ~~127~~ 422 min
Volume of Water Removed 10.6 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 #1 YSI 556 mps | GeoPump2 (Serial: E02002739)

Time	Pump Rate (L/min.)	* Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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	100	0.132	2.61				45		
1113	100	0.264	2.82				50		
1118	100	0.396	2.82				57		
1123	100	0.528	2.81				29		
1128	150	0.726	2.80	13.66	6.52	0.616	31	~~24.7~~ 24.7	-29.3
1130	120	0.858	2.80	13.58	6.45	0.620	28	~~10.2~~ 10.2	-29.4
1135	120	1.044	2.81	13.66	6.45	0.619	26	~~8.9~~ 8.9	-29.8
1140	120	1.203	2.81	13.64	6.51	0.621	24	~~6.7~~ 6.7	-53.6
1145	120	1.362	2.76	13.87	6.54	0.623	20	0.40	-68.1
1150	120	1.521	2.81	13.89	6.56	0.625	19	0.61	-91.4
1155	120	1.680	2.81	13.77	6.57	0.627	19	0.59	-92.9
1200	120	1.839	2.81	13.81	6.52	0.626	16	0.53	-95.2

* 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

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

C:\Documents and Settings\kbeech\Local Settings\Temp\65d199 Attachment D-2.xls

GROUNDWATER SAMPLING LOG

Well No. 89B
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA-3
Sampling Personnel MAH, TJT
Date 10/4/04
Weather Overcast

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas From _____
Well Diameter _____
Screen Interval Depth _____ Meas From _____
Water Table Depth _____ Meas From _____
Well Depth _____ Meas From _____
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

Redevelop? Y N

EVACUATION INFORMATION

Pump Start Time _____
Pump Stop Time _____
Minutes of Pumping _____
Volume of Water Removed _____
Did Well Go Dry? Y N

Sample Time 12:30
Sample ID 89B
Duplicate ID DUP-4
MS/MSD —
Split Sample ID WB-GW000052-0-YGLS

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

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. (Celsius) [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]*
1205	120	1.497	2.80	13.87	6.53	0.827	16	8.47	-93.7
1210	120	2.157	2.81	13.94	6.101	0.828	14	0.44	-95.2
1215	120	2.816	2.81	13.99	6.60	0.830	13	0.43	-97.0
1220	120	2.475	2.81	13.95	6.100	0.830	12	0.42	-98.1
1225	120	2.634	2.81	13.99	6.60	0.830	12	0.40	-97.1

* 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 LOG

Well No. 90B
Key No. FX-37
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE Pittsfield - GMA-3
Sampling Personnel CAR / SEK
Date 10/7/04
Weather Sunny, 65-70°F

Sample Time 15:15
Sample ID 90B
Duplicate ID —
MS/MSD —
Split Sample ID —

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.70' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 5'-11' Meas. From Ground
Water Table Depth 5.95' Meas. From TIC
Well Depth 12.87' Meas. From TIC
Length of Water Column 6.92'
Volume of Water in Well 1.13 gallons
Intake Depth of Pump/Tubing 12.25' 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)

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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Other (Specify): Sulfide

EVACUATION INFORMATION

Pump Start Time 14:40
Pump Stop Time 17:00
Minutes of Pumping 140
Volume of Water Removed 3.75 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 MPS. 03C1461 A1 #3
Hach 2100P Turbidimeter: 021000028323

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 unit(s)]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
14:45	100ml	0.13	6.03	—	—	—	2	—	—
14:50	0.100	0.26	6.04	14.10	7.50	0.298	1	1.68	-30.8
14:55	0.100	0.40	6.01	14.03	7.02	0.294	1	1.36	-314.1
15:00	0.100	0.53	6.04	13.97	6.94	0.289	1	1.34	-359.6
15:05	0.100	0.66	6.04	13.60	6.93	0.284	1	1.31	-359.2
15:10	0.100	0.79	6.04	13.81	6.85	0.282	1	1.22	353.2

* 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, slt. organic odor
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. 95B-R
Key No. 2537
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 3
Sampling Personnel JAP, KLB
Date 10/14/04
Weather P. CLOUDY, 41°F

WELL INFORMATION

Reference Point Marked? Y (N)
Height of Reference Point ~~5.59~~ 2.19' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 3-13' Meas. From BGS
Water Table Depth 5.59' Meas. From TIC
Well Depth 13.63' Meas. From TIC
Length of Water Column 8.04'
Volume of Water in Well 1.31 gal
Intake Depth of Pump/Tubing 9.61' 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 920
Sample ID 95B-R
Duplicate ID —
MS/MSD COLLECTED
Split Sample ID —

Required	Analytical Parameters:	Collected
(X)	VOCs (Std. list)	(X)
( )	VOCs (Exp. list)	( )
(X)	SVOCs (EXP)	(X)
(X)	PCBs (Total)	(X)
(X)	PCBs (Dissolved)	(X)
(X)	Metals/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

CYANIDE (TOTAL + DISSOLVED)
SULFIDE

EVACUATION INFORMATION

Pump Start Time 827
Pump Stop Time 13:43
Minutes of Pumping 316 min
Volume of Water Removed 9.89 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 03C0312 AE
HACH TURBIDIMETER 0.2 10000 28329

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
829	100	—	5.61	—	—	—	19	—	—
837	100	0.1588	5.61	14.94	6.09	0.576	12	4.15	-48.9
842	100	0.2911	5.61	14.61	6.22	0.577	8	1.74	-83.7
847	100	0.4234	5.61	14.64	6.34	0.575	7	0.64	-75.6
852	100	0.5557	5.61	14.68	6.41	0.575	7	0.61	-57.2
857	100	0.6880	5.61	14.83	6.48	0.576	6	0.46	-70.6
902	100	0.8203	5.61	14.82	6.52	0.575	6	0.50	-66.7
907	100	0.9526	5.61	14.88	6.54	0.576	5	0.58	-62.4
912	100	1.0849	5.61	14.92	6.55	0.576	6	0.48	-66.6
				160					

* 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

* MS/MSD COLLECTED

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

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. HH 111B
Key No. _____
PID Background (ppm) _____
Well Headspace (ppm) _____

Site/GMA Name GMA 3
Sampling Personnel SEK / AMG
Date 10-14-04
Weather 60° Cloudy

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 1.54 Meas. From _____
Well Diameter 2"
Screen Interval Depth 10-15' Meas. From _____
Water Table Depth 13.04 Meas. From _____
Well Depth 16.54 Meas. From _____
Length of Water Column 3.5
Volume of Water in Well _____
Intake Depth of Pump/Tubing ~~3.29~~ 14.80 Meas. From _____

Reference Point Identification:
TIC: Top of Inner (PVC) Casing
TOC: Top of Outer (Protective) Casing
Grade/BGS: Ground Surface

Redevelop? Y N

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

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

EVACUATION INFORMATION

Pump Start Time 14:45
Pump Stop Time 15:05
Minutes of Pumping 20
Volume of Water Removed _____
Did Well Go Dry? (Y) N

Evacuation Method: Bailer ( ) Bladder Pump (X)
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. (Celsius) [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]*
14:50	0.100						967		
15:10							>1000		

Stop pumping b/c water level too low

* 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: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

Well No. 111B
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 3
Sampling Personnel AMG/SEK
Date 10/20/04
Weather CLOUDY, 50°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 1.8' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 10-15 Meas. From BGS
Water Table Depth 12.95 Meas. From TIC
Well Depth 16.50 Meas. From TIC
Length of Water Column 3.55
Volume of Water in Well 0.58 gallons
Intake Depth of Pump/Tubing 14.7 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 —
Sample ID 111B
Duplicate ID —
MS/MSD —
Split Sample ID —

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

CYANIDE (filtered + unfil.)
SULFIDE

EVACUATION INFORMATION

Pump Start Time 15:47
Pump Stop Time 15:56
Minutes of Pumping 8
Volume of Water Removed —
Did Well Go Dry? (Y) N

Evacuation Method Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type MARSHALL SYSTEM 1
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. (Celsius) [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

SAMPLE DESTINATION

Laboratory
Delivered Via:
Airbill #:

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. 111B
Key No. _____
PID Background (ppm) _____
Well Headspace (ppm) _____

Site/GMA Name GMA3
Sampling Personnel SEK/DMC
Date 10-22-04
Weather Cloudy 40°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas From _____
Well Diameter _____
Screen Interval Depth _____ Meas From _____
Water Table Depth 13 Meas From _____
Well Depth 16.2 Meas From _____
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 10:15
Sample ID 111B
Duplicate ID _____
MS/MSD _____
Split Sample ID _____

Required	Analytical Parameters	Collected
X	VOCs (Std list)	X
	VOCs (Exp list)	
X	SVOCs	
X	PCBs (Total)	
X	PCBs (Dissolved)	
X	Metals/Inorganics (Total)	
X	Metals/Inorganics (Dissolved)	
	PCDDs/PCDFs	
X	Pesticides/Herbicides	
	Natural Attenuation	
	Other (Specify)	

EVACUATION INFORMATION

Pump Start Time 812
Pump Stop Time 819
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 _____
Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Number(s) YSI-Pock MS #3
Hach Turbidimeter #

Time	Pump Rate (L/min)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
8:17	—	—	—	12.69	6.41	1.006	73	10.75	229.9

* 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: _____
Delivered Via: _____
Airbill #: _____

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

Well No. 114 B-R
Key No. FX-37
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 3
Sampling Personnel SEK/AMG
Date 10/14/04
Weather Partly Cloudy 50° F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.30 Meas. From GS
Well Diameter 2"
Screen Interval Depth 4-14 Meas. From TIC
Water Table Depth 5.98' Meas. From TIC
Well Depth 15.47' Meas. From TIC
Length of Water Column 9.49'
Volume of Water in Well 1.54 gallons
Intake Depth of Pump/Tubing 10.70' 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 0945
Sample ID 114 B-R
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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X) Cyanide (total and dissolved), Sulfide

EVACUATION INFORMATION

Pump Start Time 0818
Pump Stop Time 1313
Minutes of Pumping 295
Volume of Water Removed 7.80 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: HACH 2100P TURBIDIMETER
YSI 556 MPS 03M0230 AC

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
0821	0.100	0.08	6.00	—	—	—	115	—	—
0831	0.100	0.34	5.98	—	—	—	148	—	—
0841	0.100	0.60	5.95	—	—	—	112	—	—
0851	0.100	0.86	5.95	—	—	—	64	—	—
0856	0.100	0.99	5.95	—	—	—	36	—	—
0905	0.100	1.23	5.95	13.11	5.42	0.730	23	0.31	-48.2
0910	0.100	1.36	5.95	13.18	5.46	0.733	17	0.38	-62.9
0915	0.100	1.49	5.95	13.33	5.52	0.736	15	0.31	-69.4
0920	0.100	1.62	5.95	13.39	5.57	0.737	9	0.29	-73.5
0925	0.100	1.75	5.95	13.40	5.55	0.737	8	0.25	-74.8
0930	0.100	1.88	5.95	13.43	5.56	0.738	6	0.29	-76.4
0935	0.100	2.01	5.95	13.47	5.59	0.733	5	0.33	-77.7

*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: Turbid, black particles, no odor.

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

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. 114B-R
Key No. FX-37
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 3
Sampling Personnel SEK/AMG
Date 10-14-04
Weather Partly Cloudy 50°F

WELL INFORMATION See Page 1

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter ____
Screen Interval Depth ____ Meas. From ____
Water Table Depth ____ Meas. From ____
Well Depth ____ Meas. From ____
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

Redevelop? Y N

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

Required	Analytical Parameters:	Collected
( )	VOCs (Std. list)	( )
( )	VOCs (Exp. list)	( )
( )	SVOCs	( )
( )	PCBs (Total)	( )
( )	PCBs (Dissolved)	( )
( )	Metals/Inorganics (Total)	( )
( )	Metals/Inorganics (Dissolved)	( )
( )	PCDDs/PCDFs	( )
( )	Pesticides/Herbicides	( )
( )	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. (Celsius) [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]*
0940	0.100	2.14	5.95	13.50	5.57	0.739	5	0.29	-79.0

* 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: ____

GROUNDWATER SAMPLING LOG

Well No. GMA3-2
Key No. -
PID Background (ppm) -
Well Headspace (ppm) -

Site/GMA Name GMA3
Sampling Personnel SEK / AMC
Date 10-6-04
Weather 65° SUNNY

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point _____ Meas. From _____
Well Diameter 2"
Screen Interval Depth 5.19-15.19 Meas. From TIC
Water Table Depth 6.60 Meas. From TIC
Well Depth 14.96 Meas. From TIC
Length of Water Column 8.36
Volume of Water in Well 1.09 gal
Intake Depth of Pump/Tubing 10.78 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 ~~16.25~~ 16.35
Sample ID GMA3-2
Duplicate ID _____
MS/MSD _____
Split Sample ID _____

Analytical Parameters	Required	Collected
VOCs (Std. list)		( )
VOCs (Exp. list)	X	(X)
SVOCs		( )
PCBs (Aroclors)		( )
PCBs (Congeners)		( )
Metals/Inorganics (Total)		( )
Metals/Inorganics (Dissolved)		( )
PCDDs/PCDFs		( )
Pesticides/Herbicides		( )
Natural Attenuation		( )
Other (Specify)		( )

EVACUATION INFORMATION

Pump Start Time 15.00
Pump Stop Time 16.35
Minutes of Pumping 95
Volume of Water Removed 1.47
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Number: YSI 556MP #3 03L1461, HACH turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
15.00	0.110	0.0	6.57	—	—	—	55	—	—
15.05	0.110	0.146	6.89	—	—	—	96	—	—
15.10	0.110	0.291	6.89	—	—	—	84	—	—
15.20	0.110	0.582	6.95	—	—	—	76	—	—
15.30	0.110	0.873	7.03	—	—	—	69	—	—
15.40	0.110	1.164	7.05	—	—	—	40	—	—
15.50	0.100	1.225	7.11	19.03	6.89	11.86	28	3.16	-343.8
15.55	0.100	1.251	7.17	18.92	7.01	11.92	21	2.53	-331.4
16.00	0.100	1.277	7.18	18.75	7.13	11.98	18	2.60	-331.9
16.05	0.100	1.303	7.20	18.76	7.12	11.97	21	2.63	-333.4
16.10	0.100	1.329	7.20	18.71	7.15	12.03	17	2.51	-333.9
16.15	0.100	1.355	7.25	18.70	7.15	12.01	16	2.36	-338.8

* 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 LOG

Well No. GMA3-2
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA3
Sampling Personnel SEK / AMG
Date 10-6-04
Weather 60s ; sunny

Sample Time 16:35
Sample ID GMA3-2
Duplicate ID
MS/MSD
Split Sample ID

WELL INFORMATION

Reference Point Marked? O N
Height of Reference Point — Meas. From —
Well Diameter 2"
Screen Interval Depth — Meas. From —
Water Table Depth — Meas. From —
Well Depth — Meas. From —
Length of Water Column —
Volume of Water in Well —
Intake Depth of Pump Tubing — Meas. From —

Reference Point Identification
TOC Top of Inner (PVC) Casing
TOC Top of Outer (Protective) Casing
GS Ground Surface

Redevelop? Y N

Sampled

Analytical Parameters	Collected
VOCs (SW 8260)	
SVOCs (SW 8270)	
TPH	
PAHs (SW 8310)	
RCRA Metals	
Metals (aqueous / total)	
Metals (aqueous / dissolved)	
PCBs (SW 8082)	
Pesticides/Herbicides	
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 (Specify) / Serial Number: —

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) (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)*
16:20	0.100	1.385	7.25	15.54	7.20	12.05	13	2.16	-341.3
16:25	0.100	1.408	7.28	15.54	7.21	12.05	12	2.11	-341.1
16:30	0.100	1.435	7.28	15.50	7.22	12.00	12	2.11	-332.0

* 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: TGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

C:\Documents and Settings\kbeach\Local Settings\Temp\554199 Attachment D-2.xls

D.0264

GROUNDWATER SAMPLING LOG

Well No. GMA 3-3
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA 3
Sampling Personnel SEK/AMG
Date 10-15-04
Weather Cloudy, scattered rain 60°F

Sample Time 10:15
Sample ID GMA3-3
Duplicate ID —
MS/MSD —
Split Sample ID UB-GW000053-0-4C

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.4' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 2-12' Meas. From BGS
Water Table Depth 1.71' Meas. From TIC
Well Depth 12.29' Meas. From TIC
Length of Water Column 10.58'
Volume of Water in Well 1.72 gallons
Intake Depth of Pump/Tubing 7' 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)

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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Other (Specify): Cyanide (total and dissolved), sulfide

EVACUATION INFORMATION

Pump Start Time 0835
Pump Stop Time 13.40
Minutes of Pumping 305
Volume of Water Removed 8.06 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 MPS: 03C0392AE
HACH 2100P TURBIDIMETER: 021000028323

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
0845	0.100	0.26	2.00	—	—	—	160	—	—
0855	0.100	0.52	2.01				81		
905	0.100	0.78	2.02				54		
916	0.100	1.07	2.03	16.55	5.97	4.504	12	4.25	-50.8
9:21	0.100	1.20	2.02	16.51	6.15	4.678	9	1.06	-65.4
9:26	0.100	1.33	2.02	16.45	6.28	4.892	7	0.85	-78.9
9:31	0.100	1.46	2.02	16.42	6.30	4.949	7	0.78	-81.7
9:36	0.100	1.59	2.02	16.35	6.34	5.068	5	0.90	-87.3
9:41	0.100	1.72	1.98	16.31	6.36	5.146	4	0.79	-90.1
9:46	0.100	1.85	2.02	16.40	6.38	5.202	4	0.75	-90.6
9:51	0.100	1.98	2.00	16.37	6.40	5.276	4	0.59	-94.4
9:56	0.100	2.11	2.02	16.38	6.42	5.322	3	0.61	-95.8

* 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: turbid, clear water, no odor.

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. GMA 3-3 See page
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA3-3
Sampling Personnel SEK / AMG
Date 10/15/04
Weather

Sample Time 10:15
Sample ID GMA 3-3
Duplicate ID —
MS/MSD —
Split Sample ID UB-GW000053-0-4015

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point ____ Meas. From ____
Well Diameter ____
Screen Interval Depth ____ Meas. From ____
Water Table Depth ____ Meas. From ____
Well Depth ____ Meas. From ____
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

Redevelop? Y N

Analytical Parameters:	Required	Collected
VOCs (Std. list)	( )	( )
VOCs (Exp. list)	( )	( )
SVOCs	( )	( )
PCBs (Total)	( )	( )
PCBs (Dissolved)	( )	( )
Metals/Inorganics (Total)	( )	( )
Metals/Inorganics (Dissolved)	( )	( )
PCDDs/PCDFs	( )	( )
Pesticides/Herbicides	( )	( )
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. (Celsius) [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]*
1000	0.100	2.22	2.03	16.37	6.43	5.364	4	0.53	-97.3
1004	0.100	2.33	2.04	16.40	6.44	5.390	3	0.49	-97.9
1008	0.100	2.44	2.04	16.40	6.45	5.423	3	0.42	-99.0
1012	0.100	2.55	2.05	16.37	6.45	5.451	3	0.42	-100.3

* 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 ____

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: ____

GROUNDWATER SAMPLING LOG

Well No. GMA 3-4
Key No. NA
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GE P. Hsfield - GMA-3
Sampling Personnel GAR/SF
Date 10/8/04
Weather Sunny, 70°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.50' Meas. From Ground
Well Diameter 2"
Screen Interval Depth 3.57'-13.57' Meas. From Ground
Water Table Depth 6.70' Meas. From TIC
Well Depth 13.34' Meas. From TIC
Length of Water Column 6.64'
Volume of Water in Well 1.08 gallon
Intake Depth of Pump/Tubing 10' 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 12:30
Sample ID GMA3-4
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 10:50
Pump Stop Time 12:30
Minutes of Pumping 100
Volume of Water Removed 2.60 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 - 03M0230 AC
Hach 2100P Turbidimeter 020200025376

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
10:53	100ml	0.08	6.71	—	—	—	49	—	—
11:00	100ml	0.26	6.72	—	—	—	637	—	—
11:20	100ml	0.79	6.73	—	—	—	481	—	—
11:40	100ml	1.32	6.72	—	—	—	23	—	—
11:50	100ml	1.59	6.73	21.81	8.04	0.548	10	9.90	143.0
11:55	100ml	1.72	6.73	21.60	8.03	0.547	8	6.57	114.5
12:00	100ml	1.85	6.73	21.55	8.10	0.546	6	6.36	96.6
12:05	100ml	1.98	6.73	21.57	8.13	0.545	4	5.83	86.2
12:10	100ml	2.12	6.73	21.66	8.16	0.544	3	5.94	76.7
12:15	100ml	2.25	6.73	21.76	8.19	0.544	2	5.92	68.0
12:20	100ml	2.38	6.73	21.80	8.20	0.544	2	5.84	63.7
12:25	100ml	2.51	6.73	21.85	8.20	0.545	1	5.60	60.5

* 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: Light-brown, cloudy, odorless
Final Purge: Clear, odorless

SAMPLE DESTINATION

Laboratory: [illegible] 565
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. GMA3-5 | Site/GMA Name GMA-3
Key No. — | Sampling Personnel JHP, MAH
PID Background (ppm) — | Date 10/7/04
Well Headspace (ppm) — | Weather Sunny, 50's (°F)

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point 2.1' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 4-14' Meas. From BGS
Water Table Depth 7.77' Meas. From TIC
Well Depth 15.56' Meas. From TIC
Length of Water Column 7.79'
Volume of Water in Well
Intake Depth of Pump/Tubing 11.60' 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 GMA3-5
Sample ID 1152
Duplicate ID DUP-2
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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
(X)	PCDDs/PCDFs	(X)
(X)	Pesticides/Herbicides	(X)
~~(X)~~	Natural Attenuation	( )
(X)	Other (Specify) Cyanide, Sulfide (T+D)	(X)

EVACUATION INFORMATION

Pump Start Time 950
Pump Stop Time 1438
Minutes of Pumping 258
Volume of Water Removed 7.60gal
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type: Marschalk system 1 42332032
Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS 03C0392
HACH Turbidmeter 021C000028329

Time	Pump Rate (ml/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
954	50	—	7.85	—	—	—	26	—	—
1037 959	125	0.5016	7.85	15.20	6.20	0.512	21	3.09	134.5
1042	75	0.6008	7.85	15.74	6.37	0.513	20	1.59	115.1
1047	100	0.7331	7.85	16.08	6.42	0.518	20	1.31	114.0
1052	75	0.8323	7.85	16.30	6.59	0.519	18	1.10	102.1
1057	150	1.0307	7.86	16.51	6.47	0.522	17	0.83	100.9
1102	125	1.1960	7.88	16.54	6.47	0.523	15	0.69	99.6
1107	100	1.3283	7.87	16.58	6.44	0.529	12	0.60	102.1
1112	100	1.4606	7.88	16.58	6.47	0.534	9	0.51	99.2
1117	100	1.5929	7.88	16.59	6.44	0.538	6	0.50	92.1
1122	100	1.7252	7.87	16.61	6.46	0.544	5	0.48	77.2
1127	100	1.8575	7.87	16.61	6.41	0.546	4	0.44	70.7

* 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, colorless, odorless (few floating particles)

→Had to stop pump to sign-in, get Dynamic training booklet, restarted @ 1024 (filling flow-through cell)

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

GROUNDWATER SAMPLING LOG

Well No. GMA3-5
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAP, MAH
Date 10/7/04
Weather Sunny, 50s(°F)

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth _____ Meas. From _____
Water Table Depth _____ Meas. From _____
Well Depth _____ Meas. From _____
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

Redevelop? Y N

Sample Time 1152
Sample ID _____
Duplicate ID _____
MS/MSD _____
Split Sample ID _____

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

See page 1

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 (mL/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
1132	100	1.9898	7.88	16.59	6.46	0.549	4	0.42	59.0
1137	100	2.1221	7.88	16.61	6.45	0.551	3	0.42	50.3
1142	100	2.2544	7.87	16.63	6.40	0.553	3	0.39	43.2
1146	100	2.3867	7.87	16.64	6.43	0.553	3	0.38	38.0
1150	100	2.5190	7.87	16.65	6.45	0.554	3	0.38	34.4

* 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 Final purge: Clear, colorless, colorless

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: _____

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA 3
Sampling Personnel JCM, KLB
Date 10/7/04
Weather SUNNY, 55°

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.27' Meas From GROUND SURFACE
Well Diameter 2"
Screen Interval Depth 8-18' Meas From BGS
Water Table Depth 10.43' Meas From TIC
Well Depth 18.08' Meas From TIC
Length of Water Column 7.65'
Volume of Water in Well 1.25 gal
Intake Depth of Pump/Tubing 14.3' 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 14:44
Sample ID ~~GMA3~~ GMA3-6
Duplicate ID —
MS/MSD —
Split Sample ID —

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

SULFIDE, CYANIDE (TOTAL & DISSOLVED)

EVACUATION INFORMATION

Pump Start Time 13:16
Pump Stop Time 16:30
Minutes of Pumping 196 ~~200~~
Volume of Water Removed 5 gal
Did Well Go Dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump ( )
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 HACH TURBIDIMETER 020200025376
YSI 556 03C0392 AE

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
13:19	0.100	—	10.45	—	—	—	64	—	—
13:22	0.100	0.079	10.45	—	—	—	112	—	—
13:27	0.100	0.211	10.47	—	—	—	121	—	—
13:32	0.100	0.344	10.45	—	—	—	119	—	—
13:37	0.100	0.476	10.45	—	—	—	82	—	—
13:42	0.100	0.608	10.45	—	—	—	54	—	—
13:47	0.100	0.741	10.45	—	—	—	30	—	—
13:57	0.100	0.873	10.47	19.59	6.41	1.842	25	3.45	-28.5
14:02	0.100	1.006	10.45	18.82	6.46	1.811	22	2.30	-52.1
14:07	0.100	1.138	10.45	18.54	6.49	1.919	16	0.85	-60.9
14:12	0.100	1.271	10.45	18.48	6.50	1.887	13	0.44	-64.9
14:17	0.100	1.403	10.45	18.52	6.51	1.963	12	0.40	-67.6

* 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 - LIGHT YELLOW, CLOUDY, STRONG ODOR

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

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

Site/GMA Name GMA3
Sampling Personnel TCM/KLB
Date 10/7/04
Weather SUNNY, 55°

WELL INFORMATION
Reference Point Marked? (Y) N
Height of Reference Point -0.27' Meas. From BGS
Well Diameter 2"
Screen Interval Depth 8-18' Meas. From BGS
Water Table Depth 10.43' Meas. From TIC
Well Depth 18.08' Meas. From TIC
Length of Water Column 7.65'
Volume of Water in Well 1.25 gal
Intake Depth of Pump/Tubing 14.3' 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 14:44
Sample ID GMA3-6
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/Inorganics (Total)	(X)
X	Metals/Inorganics (Dissolved)	(X)
X	PCDDs/PCDFs	(X)
X	Pesticides/Herbicides	(X)
	Natural Attenuation	( )
X	Other (Specify)	(X) CYANIDE (TOTAL & DISSOLVED) SULFIDE

EVACUATION INFORMATION
Pump Start Time 13:16
Pump Stop Time 16:30
Minutes of Pumping 196 min
Volume of Water Removed 5 gal
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers HACH TURBIDIMETER LW202C00025376
YSI 556 03C0392 AE

Time	Pump Rate (L/min.)	* Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
14:22	0.100	1.535	10.45	18.45	6.52	1.830	10	0.39	-68.3
~~14:10~~ 14:27	0.100	1.661	10.45	18.46	6.53	1.816	8	0.36	-71.1
14:31	0.100	1.773	10.45	18.42	6.54	1.812	6	0.34	-72.2
14:35	0.100	1.972	10.45	18.42	6.55	1.809	6	0.33	-73.2
14:39	0.100	2.078	10.45	18.39	6.56	1.807	5	0.30	-74.9
				KB					

* 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 FINAL PURGE - CLEAR, COLORLESS, ODOR

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

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. GMA3-7
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA3-7
Sampling Personnel SEK/MAH
Date 10-8-04
Weather SUNNY 65°

Sample Time 11:10
Sample ID GMA3-7
Duplicate ID —
MS/MSD —
Split Sample ID —

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.25' Meas. From Ground
Well Diameter 2" Meas. From ~~TIC~~ Ground
Screen Interval Depth 10'-20' Meas. From TIC
Water Table Depth 13.08 Meas. From TIC
Well Depth 19.96 Meas. From TIC
Length of Water Column 6.88
Volume of Water in Well 1.12 gal
Intake Depth of Pump/Tubing 16.5' 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)

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/Inorganics (Total)	(X)
(X)	Metals/Inorganics (Dissolved)	(X)
( )	PCDDs/PCDFs	( )
(X)	Pesticides/Herbicides	(X)
( )	Natural Attenuation	( )
(X)	Other (Specify)	(X)

Sulfide

EVACUATION INFORMATION

Pump Start Time 9:30
Pump Stop Time 13:50
Minutes of Pumping 260
Volume of Water Removed 6.87
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 03A461A1 #3, HACH turbidity meter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
9:45	0.10	13.20	0.40	—	—	—	>1000	—	—
9:55	0.10	13.22	0.66	—	—	—	731	—	—
10:05	0.10	0.93	13.26	—	—	—	137	—	—
10:15	0.10	1.19	13.26	—	—	—	31	—	—
10:30	0.10	1.59	13.21	16.60	6.74	0.635	15	11.21	-267.7
10:35	0.10	1.72	13.20	16.36	6.78	0.636	11	10.97	-262.8
10:40	0.10	1.85	13.20	16.54	6.82	0.637	10	12.54	-261.2
10:45	0.10	1.98	13.20	16.79	6.85	0.637	10	12.24	-265.8
10:50	0.10	2.12	13.20	17.10	6.87	0.635	19	12.78	-266.3
10:55	0.10	2.25	13.20	17.22	6.96	0.633	26	12.96	-267.0
11:00	0.10	2.38	13.20	17.41	6.98	0.632	26	12.47	-264.8
11:05	0.10	2.51	13.20	17.65	6.99	0.630	27	12.10	-263.6

* 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 —

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. GMA3-8
Key No. ____
PID Background (ppm) ____
Well Headspace (ppm) ____

Site/GMA Name GMA3
Sampling Personnel SBK
Date 10-21-04
Weather Hail 40°

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point 1.5' Meas. From GS
Well Diameter 2"
Screen Interval Depth 5-15 Meas From BGS
Water Table Depth 10.06 Meas From TIC
Well Depth 15.78 Meas From TIC
Length of Water Column 5.72
Volume of Water in Well ____
Intake Depth of Pump/Tubing 13.00 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 10:46
Sample ID GMA3-8
Duplicate ID ____
MS/MSD ____
Split Sample ID ____

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

EVACUATION INFORMATION

Pump Start Time 9:40
Pump Stop Time 10:50
Minutes of Pumping 70
Volume of Water Removed ____
Did Well Go Dry? Y (N)

Evacuation Method Bailer ( ) Bladder Pump (X)
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 YSI556 MPS 03C1461 A1
Hach 2100P Turbidimeter

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
9:43	0.10		10.20	—	—	—	174	—	—
9:53	0.16		10.22	—	—	—	51	—	—
9:58	0.10		10.23	—	—	—	16	—	—
10:18	0.10		10.24	12.59	6.70	0.933	13	3.00	-316.3
10:23	0.10		10.26	13.04	6.80	0.930	9	2.68	-326.0
10:28	0.10		10.28	13.34	6.90	0.931	8	2.49	-325.7
10:33	0.10		10.30	13.54	6.98	0.935	7	2.32	-330.5
10:38	0.10		10.31	13.70	7.03	0.939	7	2.28	-337.4
10:42	0.10		10.31	13.70	7.05	0.941	6	2.23	-339.4

* 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 ____

SAMPLE DESTINATION

Laboratory: ____
Delivered Via: ____
Airbill #: ____

Field Sampling Coordinator: ____

GROUNDWATER SAMPLING LOG

Well No. GMA 3-9
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA 3
Sampling Personnel MAH / TJT
Date 10/15/04
Weather overcast / cool

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point -0.23' Meas. From Ground
Well Diameter 2.00"
Screen Interval Depth 3.00-13.00' Meas. From ~~TIC~~ BGS
Water Table Depth 4.90' Meas. From TIC
Well Depth 12.68' Meas. From TIC
Length of Water Column 11.78
Volume of Water in Well 1.92 gallon
Intake Depth of Pump/Tubing 8.79' 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 ~~GMA 3-9~~ MAH 1419
Sample ID GMA 3-9
Duplicate ID —
MS/MSD —
Split Sample ID —

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

EVACUATION INFORMATION

Pump Start Time 1216
Pump Stop Time 1420
Minutes of Pumping 124
Volume of Water Removed 3.2 gallons
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS Serial # 03M0230 AC

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
1216	90	0.119	4.93				67		
1221	100	0.251	4.97				235		
1226	100	0.383	4.95				102		
1231	100	0.515	4.96				91		
1236	100	0.647	4.95				82		
1241	100	0.779	4.91				60		
1246	100	0.911	4.92				64		
1251	100	1.043	4.92				56		
1256	100	1.175	4.94				50		
1301	100	1.3070	4.94				40		
1311	100	1.439	4.93	14.64	5.45	0.768	33	1.10	-114.9
1316	100	1.571	4.93	14.61	5.46	0.768	31	0.75	118.4

* 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

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. GMA 3-9
Key No. —
PID Background (ppm) 0
Well Headspace (ppm) 0

Site/GMA Name GMA-3
Sampling Personnel MAH/TJT
Date 10/15/04
Weather Overcast

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point _____ Meas. From _____
Well Diameter _____
Screen Interval Depth _____ Meas. From _____
Water Table Depth _____ Meas. From _____
Well Depth _____ Meas. From _____
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

EVACUATION INFORMATION

Pump Start Time _____
Pump Stop Time _____
Minutes of Pumping _____
Volume of Water Removed _____
Did Well Go Dry? Y N

Sample Time 14:19
Sample ID GMA 3-9
Duplicate ID —
MS/MSD —
Split Sample ID —

Required	Analytical Parameters	Collected
	VOCs (Std. list)	( )
x	VOCs (Extended list)	x
	SVOCs	( )
	PCBs (Total)	( )
	PCBs (Dissolved)	( )
	Metals/Inorganics (Total)	( )
	Metals/Inorganics (Dissolved)	( )
	PCDDs/PCDFs	( )
	Pesticides/Herbicides	( )
	Natural Attenuation	( )
	Other (Specify)	( )

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. (Celsius) (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)*
1321	100	1.703	4.94	14.52	5.46	0.772	29	0.49	-120.6
1326	100	1.835	4.94	14.54	5.46	0.774	25	0.43	-120.9
1331	100	1.967	4.93	14.50	5.48	0.775	22	0.59	-120.1
1336	100	2.099	4.93	14.49	5.47	0.774	18	0.39	-120.7
1341	100	2.231	4.92	14.47	5.47	0.774	17	0.33	-120.2
1346	100	2.363	4.92	14.47	5.48	0.773	15	0.32	-120.2
1351	100	2.495	4.92	14.48	5.48	0.773	13	0.30	-119.3
1356	100	2.627	4.93	14.49	5.49	0.772	12	0.25	-119.9
1401	100	2.804	4.93	14.50	5.49	0.771	11	0.24	-120.6
1406	100	2.936	4.92	14.51	5.51	0.771	9	0.27	-118.9
1411	100	3.068	4.93	14.53	5.52	0.770	9	0.23	-119.1
1416	100	3.200	4.93	14.53	5.51	0.769	8	0.23	-119.1

* 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 LOG

Well No. OBG-2
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAF, KLB
Date 10/18/04
Weather Sunny, clear, 70's (°F)

WELL INFORMATION

Reference Point Marked? (Y) (N) — top of broken pvc (highest point)
Height of Reference Point Flush Meas. From BGS
Well Diameter 3"
Screen Interval Depth 3-14.4' Meas. From BGS
Water Table Depth 4.81' Meas. From TIC
"soft" bottom → Well Depth 14.87' Meas. From TIC
Length of Water Column 10.06'
Volume of Water in Well ~~x~~ 1.6 gal
Intake Depth of Pump/Tubing ~~5.03'~~ 9.84' Meas. From TIC

Sample Time 13:30
Sample ID OBG-2
Duplicate ID —
MS/MSD —
Split Sample ID —

Reference Point Identification:
TIC: Top of Inner (PVC) Casing
TOC: Top of Outer (Protective) Casing
Grade/BGS: Ground Surface

Redevelop? Y (N)

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

EVACUATION INFORMATION

Pump Start Time 11:51
Pump Stop Time 13:38
Minutes of Pumping 73
Volume of Water Removed 2.52 gal
Did Well Go Dry? Y (N)

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

Water Quality Meter Type(s) / Serial Numbers: YSI 556 03C0392AF
HACH turbidmeter 02100028329

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
1152	100	—	5.16	—	—	—	136	—	—
1157	100	0.1349	5.42	—	—	—	214	—	—
1202	100	0.2692	5.42	—	—	—	178	—	—
1207	100	~~0.5900~~ 0.3995	5.42	—	—	—	150	—	—
1212	100	0.5318	5.42	—	—	—	135	—	—
1217	100	0.6641	5.42	—	—	—	117	—	—
1222	100	0.7964	5.42	—	—	—	95	—	—
1227	100	0.9287	5.32	—	—	—	89	—	—
1232	100	1.0610	5.38	—	—	—	79	—	—
1237	100	1.1933	5.35	—	—	—	76	—	—
1242	100	1.3256	5.32	—	—	—	62	—	—
1247	100	1.4579	5.30	—	—	—	59	—	—

* 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: Orangish in color, organic particles, odor

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: [signature]

GROUNDWATER SAMPLING LOG

Well No. OBG-2
Key No. —
PID Background (ppm) —
Well Headspace (ppm) —

Site/GMA Name GMA-3
Sampling Personnel JAP, KLB
Date 10/8/04
Weather Sunny

Sample Time 1330
Sample ID OBG-2
Duplicate ID —
MS/MSD —
Split Sample ID —

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point Flush Meas. From BGS
Well Diameter 3"
Screen Interval Depth 3-14.4' Meas. From BGS
Water Table Depth 4.81' Meas. From TIC
Well Depth 14.87' Meas. From TIC
Length of Water Column 10.06'
Volume of Water in Well 1.69gal
Intake Depth of Pump/Tubing 9.84' 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)

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

EVACUATION INFORMATION

Pump Start Time 1151
Pump Stop Time 1338
Minutes of Pumping 73
Volume of Water Removed 2.52gal
Did Well Go Dry? Y (N)

Evacuation Method: Bailer ( ) Bladder Pump (X)
Peristaltic Pump ( ) Submersible Pump ( ) Other/Specify ( )
Pump Type: MARSCHALL SYSTEM 4832032
Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers: YSI 556 13C0392AF
HACH TURBIDIMETER 021000028329

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [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]*
1252	100	1.5903	5.35	—	—	—	54	—	—
1257	100	1.7225	5.32	—	—	—	50	—	—
1311	100	2.0929	5.32	24.92	6.90	0.593	64	2.14	-135.2
1315	100	2.2252	5.32	23.08	6.77	0.593	50	0.54	-127.6
1319	100	2.3575	5.32	22.71	6.68	0.590	53	0.51	-120.3
1323	100	2.4898	5.32	22.70	6.67	0.591	53	0.46	-120.7

* 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 FINAL PURGE: YELLOWISH, SLIGHTLY TURBID, ODOR

SAMPLE DESTINATION

Laboratory: SGS
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator:

Appendix C

Groundwater Elevation and LNAPL Monitoring/Recovery Data

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

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
002A	994.16	7/16/2004	8.38	---	0.00	---	55.40	0.00	985.78	---	---
002A	994.16	10/13/2004	8.00	---	0.00	---	55.04	0.00	986.16	---	
006B	993.01	7/16/2004	6.53	---	0.00	---	9.51	0.00	986.48	---	---
006B	993.01	8/10/2004	6.38	---	0.00	---	9.27	0.00	986.63	---	
006B-R	993.62	8/13/2004	7.75	---	0.00	---	14.60	0.00	985.87	---	---
006B-R	993.62	9/16/2004	6.99	---	0.00	---	14.95	0.00	986.63	---	
006B-R	993.62	10/6/2004	6.42	---	0.00	---	14.84	0.00	987.20	---	
006B-R	993.62	10/14/2004	6.88	---	0.00	---	14.74	0.00	986.74	---	
016A	991.77	7/16/2004	7.48	---	0.00	---	50.99	0.00	984.29	---	---
016A	991.77	10/14/2004	7.03	---	0.00	---	51.00	0.00	984.74	---	
016B-R	994.87	7/16/2004	9.64	---	0.00	---	16.38	0.00	985.23	---	---
016B-R	994.87	10/7/2004	8.99	---	0.00	---	16.41	0.00	985.88	---	
016B-R	994.87	10/13/2004	9.16	---	0.00	---	16.46	0.00	985.71	---	
016C-R	991.47	7/16/2004	8.54	---	0.00	---	NM	0.00	982.93	---	---
016C-R	991.47	10/13/2004	7.81	---	0.00	---	95.13	0.00	983.66	---	
016E	992.14	7/16/2004	6.88	---	0.00	---	49.30	0.00	985.26	---	---
016E	992.14	8/12/2004	7.15	---	0.00	---	47.70	0.00	984.99	---	
039B-R	991.97	7/16/2004	6.45	---	0.00	---	13.85	0.00	985.52	---	---
039B-R	991.97	10/13/2004	6.09	---	0.00	---	13.84	0.00	985.88	---	
039D	992.16	7/16/2004	6.41	---	0.00	---	66.08	0.00	985.75	---	---
039D	992.16	10/13/2004	6.03	---	0.00	---	66.11	0.00	986.13	---	
039E	992.21	7/16/2004	5.85	---	0.00	---	242.00	0.00	986.36	---	---
039E	992.21	10/13/2004	5.52	---	0.00	---	>151.00	0.00	986.69	---	
043A	993.79	7/15/2004	5.75	---	0.00	---	51.52	0.00	988.04	---	---
043A	993.79	10/13/2004	5.61	---	0.00	---	51.40	0.00	988.18	---	
043B	993.61	7/15/2004	5.89	---	0.00	---	21.43	0.00	987.72	---	---
043B	993.61	10/13/2004	5.81	---	0.00	---	21.40	0.00	987.80	---	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
050B	991.76	7/16/2004	3.44	---	0.00	---	15.03	0.00	988.32	---	---
050B	991.76	10/13/2004	3.12	---	0.00	---	15.02	0.00	988.64	---	
51-05	996.44	7/15/2004	9.85	9.84	0.01	---	12.48	0.00	986.60	---	0.907
51-05	996.44	8/27/2004	11.10	10.12	0.98	---	12.54	0.00	986.25	0.605	
51-05	996.44	9/24/2004	10.29	9.80	0.49	---	12.53	0.00	986.61	0.302	
51-05	996.44	10/13/2004	9.88	9.87	0.01	---	12.53	0.00	986.57	---	
51-05	996.44	11/18/2004	10.27	10.18	0.09	---	12.56	0.00	986.25	---	
51-05	996.44	12/13/2004	9.94	9.81	0.13	---	12.52	0.00	986.62	---	
51-06	997.36	7/15/2004	10.71	---	0.00	---	14.62	0.00	986.65	---	---
51-06	997.36	8/27/2004	10.65	---	0.00	---	14.60	0.00	986.71	---	
51-06	997.36	10/13/2004	10.42	---	0.00	---	14.60	0.00	986.94	---	
51-06	997.36	11/18/2004	10.72	---	0.00	---	14.60	0.00	986.64	---	
51-06	997.36	12/13/2004	10.43	---	0.00	---	14.64	0.00	986.93	---	
51-07	997.08	7/15/2004	10.56	---	0.00	---	11.23	0.00	986.52	---	---
51-07	997.08	8/27/2004	10.70	---	0.00	---	11.23	0.00	986.38	---	
51-07	997.08	10/13/2004	10.34	---	0.00	---	11.23	0.00	986.74	---	
51-07	997.08	11/18/2004	10.66	---	0.00	---	11.21	0.00	986.42	---	
51-07	997.08	12/13/2004	10.36	---	0.00	---	11.21	0.00	986.72	---	
51-08	997.08	7/1/2004	10.76	10.74	0.02	---	14.65	0.00	986.34	---	12.261
51-08	997.08	7/8/2004	10.80	10.71	0.09	---	14.65	0.00	986.36	---	
51-08	997.08	7/15/2004	11.35	10.79	0.56	---	14.65	0.00	986.25	0.345	
51-08	997.08	7/23/2004	12.10	10.91	1.19	---	14.65	0.00	986.09	0.934	
51-08	997.08	7/29/2004	12.30	10.88	1.42	---	14.65	0.00	986.10	0.876	
51-08	997.08	8/6/2004	12.30	10.90	1.40	---	14.65	0.00	986.08	0.864	
51-08	997.08	8/13/2004	12.48	11.00	1.48	---	14.64	0.00	985.98	0.913	
51-08	997.08	8/20/2004	12.30	10.95	1.35	---	14.65	0.00	986.04	0.833	
51-08	997.08	8/27/2004	12.08	10.80	1.28	---	14.66	0.00	986.19	0.790	
51-08	997.08	9/3/2004	12.34	10.88	1.46	---	14.66	0.00	986.10	0.894	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
51-08	997.08	9/10/2004	12.40	10.95	1.45	---	14.66	0.00	986.03	0.894	12.261
51-08	997.08	9/17/2004	12.10	11.02	1.08	---	14.66	0.00	985.98	0.666	
51-08	997.08	9/24/2004	11.85	10.45	1.40	---	14.66	0.00	986.53	0.864	
51-08	997.08	9/30/2004	11.05	10.36	0.69	---	14.66	0.00	986.67	0.426	
51-08	997.08	10/8/2004	10.53	10.44	0.09	---	14.66	0.00	986.63	---	
51-08	997.08	10/13/2004	10.57	10.51	0.06	---	14.67	0.00	986.57	---	
51-08	997.08	10/22/2004	10.60	10.49	0.11	---	14.66	0.00	986.58	---	
51-08	997.08	10/27/2004	10.64	10.56	0.08	---	14.66	0.00	986.51	---	
51-08	997.08	11/5/2004	10.70	10.63	0.07	---	14.66	0.00	986.45	---	
51-08	997.08	11/12/2004	11.10	10.70	0.40	---	14.66	0.00	986.35	0.247	
51-08	997.08	11/18/2004	11.63	10.73	0.90	---	14.67	0.00	986.29	0.555	
51-08	997.08	11/24/2004	12.10	10.80	1.30	---	14.64	0.00	986.19	0.802	
51-08	997.08	12/3/2004	11.85	10.45	1.40	---	14.66	0.00	986.53	0.864	
51-08	997.08	12/9/2004	11.30	10.50	0.80	---	14.65	0.00	986.52	0.494	
51-08	997.08	12/13/2004	10.54	10.46	0.08	---	14.65	0.00	986.61	---	
51-08	997.08	12/22/2004	10.73	10.67	0.06	---	14.66	0.00	986.41	---	
51-08	997.08	12/30/2004	10.78	10.63	0.15	---	14.67	0.00	986.44	---	
51-09	997.70	7/15/2004	10.58	---	0.00	---	11.99	0.00	987.12	---	---
51-09	997.70	8/27/2004	10.38	---	0.00	---	12.00	0.00	987.32	---	
51-09	997.70	10/13/2004	9.92	---	0.00	---	11.61	0.00	987.78	---	
51-09	997.70	11/18/2004	10.65	---	0.00	---	11.60	0.00	987.05	---	
51-09	997.70	12/13/2004	10.25	---	0.00	---	11.60	0.00	987.45	---	
51-11	994.37	7/15/2004	8.46	---	0.00	---	13.53	0.00	985.91	---	---
51-11	994.37	10/13/2004	8.01	---	0.00	---	13.43	0.00	986.36	---	
51-12	996.55	7/15/2004	7.47	---	0.00	---	10.98	0.00	989.08	---	---
51-12	996.55	10/13/2004	7.24	---	0.00	---	11.06	0.00	989.31	---	
51-13	997.42	7/15/2004	Dry	---	0.00	---	10.04	0.00	< 987.38	---	---
51-13	997.42	10/13/2004	Dry	---	0.00	---	10.03	0.00	< 987.39	---	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
51-14	996.77	7/15/2004	10.68	---	0.00	---	15.00	0.00	986.09	---	---
51-14	996.77	8/27/2004	10.65	---	0.00	---	15.00	0.00	986.12	---	
51-14	996.77	10/7/2004	10.26	---	0.00	---	15.13	0.00	986.51	---	
51-14	996.77	10/13/2004	10.34	---	0.00	---	14.99	0.00	986.43	---	
51-14	996.77	11/18/2004	10.64	---	0.00	---	14.99	0.00	986.13	---	
51-14	996.77	12/13/2004	10.24	10.23	0.01	---	15.00	0.00	986.54	---	
51-15	996.43	7/15/2004	10.18	10.15	0.03	---	14.46	0.00	986.28	---	0.154
51-15	996.43	8/27/2004	10.24	10.12	0.12	---	14.49	0.00	986.30	---	
51-15	996.43	9/24/2004	10.03	9.78	0.25	---	14.50	0.00	986.63	0.154	
51-15	996.43	10/13/2004	9.82	9.81	0.01	---	14.49	0.00	986.62	---	
51-15	996.43	11/18/2004	10.18	10.11	0.07	---	14.48	0.00	986.32	---	
51-15	996.43	12/13/2004	9.79	9.73	0.06	---	14.51	0.00	986.70	---	
51-16R	996.39	7/15/2004	10.24	10.12	0.12	---	14.55	0.00	986.26	0.074	0.080
51-16R	996.39	8/27/2004	10.17	10.11	0.06	---	14.56	0.00	986.28	---	
51-16R	996.39	9/24/2004	9.75	9.74	0.01	---	14.56	0.00	986.65	0.006	
51-16R	996.39	10/13/2004	9.83	9.80	0.03	---	14.54	0.00	986.59	---	
51-16R	996.39	11/18/2004	10.15	10.11	0.04	---	14.53	0.00	986.28	---	
51-16R	996.39	12/13/2004	9.77	9.73	0.04	---	14.54	0.00	986.66	---	
51-17	996.43	7/15/2004	11.15	9.86	1.29	---	14.48	0.00	986.48	0.796	3.942
51-17	996.43	8/27/2004	11.04	9.86	1.18	---	14.50	0.00	986.49	0.728	
51-17	996.43	9/24/2004	10.75	9.50	1.25	---	14.50	0.00	986.84	0.771	
51-17	996.43	10/13/2004	11.06	9.54	1.52	---	14.50	0.00	986.78	---	
51-17	996.43	11/18/2004	11.23	9.85	1.38	---	14.48	0.00	986.48	0.85	
51-17	996.43	12/15/2004	10.85	9.56	1.29	---	14.48	0.00	986.78	0.796	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
51-18	997.12	7/15/2004	10.89	---	0.00	---	12.56	0.00	986.23	---	---
51-18	997.12	8/27/2004	10.81	---	0.00	---	12.59	0.00	986.31	---	
51-18	997.12	10/13/2004	10.55	---	0.00	---	12.56	0.00	986.57	---	
51-18	997.12	11/18/2004	10.85	---	0.00	---	12.56	0.00	986.27	---	
51-18	997.12	12/13/2004	10.43	---	0.00	---	12.56	0.00	986.69	---	
51-19	996.43	7/15/2004	11.20	10.22	0.98	---	14.05	0.00	986.14	0.494	2.142
51-19	996.43	8/27/2004	10.90	10.20	0.70	---	14.05	0.00	986.18	0.432	
51-19	996.43	9/24/2004	10.55	9.80	0.75	---	14.06	0.00	986.58	0.463	
51-19	996.43	10/13/2004	10.85	9.88	0.97	---	14.03	0.00	986.48	---	
51-19	996.43	11/18/2004	11.00	10.18	0.82	---	14.05	0.00	986.19	0.51	
51-19	996.43	12/14/2004	10.30	9.90	0.40	---	14.05	0.00	986.50	0.247	
51-21	1,001.49	7/7/2004	15.21	P	< 0.01	---	NM	0.00	986.28	4.548	106.878
51-21	1,001.49	7/13/2004	15.30	15.29	0.01	---	NM	0.00	986.20	4.548	
51-21	1,001.49	7/21/2004	15.36	P	< 0.01	---	NM	0.00	986.13	5.685	
51-21	1,001.49	7/28/2004	15.40	P	< 0.01	---	NM	0.00	986.09	5.685	
51-21	1,001.49	8/4/2004	15.40	P	< 0.01	---	NM	0.00	986.09	5.685	
51-21	1,001.49	8/11/2004	15.66	15.65	0.01	---	NM	0.00	985.84	6.822	
51-21	1,001.49	8/18/2004	15.57	P	< 0.01	---	NM	0.00	985.92	5.685	
51-21	1,001.49	8/24/2004	15.32	15.31	0.01	---	NM	0.00	986.18	4.548	
51-21	1,001.49	9/1/2004	15.48	P	< 0.01	---	NM	0.00	986.01	4.548	
51-21	1,001.49	9/8/2004	15.54	P	< 0.01	---	NM	0.00	985.95	5.685	
51-21	1,001.49	9/16/2004	15.56	P	< 0.01	---	NM	0.00	985.93	5.685	
51-21	1,001.49	9/23/2004	14.87	P	< 0.01	---	NM	0.00	986.62	4.548	
51-21	1,001.49	9/29/2004	14.79	P	< 0.01	---	NM	0.00	986.70	4.548	
51-21	1,001.49	10/7/2004	14.80	---	0.00	---	NM	0.00	986.69	4.548	
51-21	1,001.49	10/13/2004	14.93	---	0.00	---	NM	0.00	986.56	2.274	
51-21	1,001.49	10/20/2004	14.88	P	< 0.01	---	NM	0.00	986.61	1.137	
51-21	1,001.49	10/27/2004	14.97	P	< 0.01	---	NM	0.00	986.52	2.274	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
51-21	1,001.49	11/3/2004	15.10	---	0.00	---	NM	0.00	986.39	2.27	106.878
51-21	1,001.49	11/9/2004	14.12	P	< 0.01	---	NM	0.00	987.37	3.41	
51-21	1,001.49	11/17/2004	15.25	P	< 0.01	---	NM	0.00	986.24	3.41	
51-21	1,001.49	11/23/2004	15.40	P	< 0.01	---	NM	0.00	986.09	2.27	
51-21	1001.49	12/2/2004	14.92	P	< 0.01	---	NM	0.00	986.57	5.685	
51-21	1001.49	12/8/2004	14.90	P	< 0.01	---	NM	0.00	986.59	1.137	
51-21	1001.49	12/16/2004	14.90	P	< 0.01	---	NM	0.00	986.59	4.548	
51-21	1001.49	12/22/2004	15.09	15.08	0.01	---	NM	0.00	986.41	2.274	
51-21	1001.49	12/29/2004	15.00	P	< 0.01	---	NM	0.00	986.49	3.411	
054B	987.96	7/16/2004	3.70	---	0.00	---	13.06	0.00	984.26	---	---
054B	987.96	10/13/2004	2.68	---	0.00	---	13.00	0.00	985.28	---	
59-01	997.52	7/15/2004	11.16	---	0.00	---	11.35	0.00	986.36	---	0.605
59-01	997.52	8/27/2004	11.25	---	0.00	---	11.36	0.00	986.27	---	
59-01	997.52	10/13/2004	10.84	---	0.00	---	11.37	0.00	986.68	---	
59-01	997.52	11/18/2004	11.14	---	0.00	---	11.33	0.00	986.38	---	
59-01	997.52	12/13/2004	10.84	10.83	0.01	---	11.36	0.00	986.69	0.605	
59-03R	997.64	7/15/2004	12.20	11.01	1.19	---	17.04	0.00	986.55	0.598	2.332
59-03R	997.64	8/27/2004	12.20	11.32	0.88	---	17.04	0.00	986.26	0.543	
59-03R	997.64	9/24/2004	11.90	10.98	0.92	---	17.04	0.00	986.60	0.568	
59-03R	997.64	10/13/2004	11.94	10.88	1.06	---	17.04	0.00	986.69	---	
59-03R	997.64	11/18/2004	12.21	11.20	1.01	---	17.03	0.00	986.37	0.62	
59-03R	997.64	12/15/2004	11.90	10.92	0.98	---	17.04	0.00	986.65	---	
59-07	997.96	7/15/2004	11.55	---	0.00	---	23.56	0.00	986.41	---	0.543
59-07	997.96	8/27/2004	11.60	---	0.00	---	23.55	0.00	986.36	---	
59-07	997.96	9/24/2004	11.26	11.25	0.01	---	23.54	0.00	986.71	0.006	
59-07	997.96	10/13/2004	11.22	11.21	0.01	---	23.53	0.00	986.75	---	
59-07	997.96	11/18/2004	11.54	11.51	0.03	---	23.54	0.00	986.45	---	
59-07	997.96	12/13/2004	11.19	11.18	0.01	---	23.55	0.00	986.78	0.537	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
078B-R	988.83	7/15/2004	1.54	---	0.00	---	11.75	0.00	987.29	---	---
078B-R	988.83	10/13/2004	1.38	---	0.00	---	11.72	0.00	987.45	---	
078B-R	988.83	10/15/2004	1.30	---	0.00	---	11.85	0.00	987.53	---	
082B	990.08	7/16/2004	6.20	---	0.00	---	10.09	0.00	983.88	---	---
082B	990.08	8/9/2004	6.06	---	0.00	---	9.88	0.00	984.02	---	
082B-R	989.90	8/13/2004	5.78	---	0.00	---	11.59	0.00	984.12	---	---
082B-R	989.90	10/8/2004	4.18	---	0.00	---	11.89	0.00	985.72	---	
082B-R	989.90	10/13/2004	4.68	---	0.00	---	11.87	0.00	985.22	---	
089A	985.76	7/16/2004	2.80	---	0.00	---	47.50	0.00	982.96	---	---
089A	985.76	10/14/2004	2.45	---	0.00	---	47.48	0.00	983.31	---	
089B	986.03	7/16/2004	3.15	---	0.00	---	8.88	0.00	982.88	---	---
089B	986.03	10/14/2004	2.61	---	0.00	---	8.99	0.00	983.42	---	
089D	985.42	7/16/2004	2.41	---	0.00	---	67.20	0.00	983.01	---	---
089D	985.42	10/14/2004	2.08	---	0.00	---	66.98	0.00	983.34	---	
090A	988.07	10/13/2004	5.19	---	0.00	---	51.69	0.00	982.88	---	---
090B	989.10	10/7/2004	5.95	---	0.00	---	12.87	0.00	983.15	---	---
090B	989.10	10/13/2004	6.32	---	0.00	---	12.93	0.00	982.78	---	
095A	987.18	7/16/2004	6.75	---	0.00	---	51.05	0.00	980.43	---	---
095A	987.18	10/13/2004	6.30	---	0.00	---	51.08	0.00	980.88	---	
095B	988.72	7/16/2004	6.40	---	0.00	---	10.63	0.00	982.32	---	---
095B	988.72	8/24/2004	6.00	---	0.00	---	10.69	0.00	982.72	---	
095B-R	986.24	9/17/2004	5.76	---	0.00	---	14.62	0.00	980.48	---	---
095B-R	986.24	10/13/2004	5.54	---	0.00	---	13.67	0.00	980.70	---	
095B-R	986.24	10/14/2004	5.59	---	0.00	---	13.63	0.00	980.65	---	
095C	988.16	7/16/2004	4.40	---	0.00	---	95.98	0.00	983.76	---	---
109A	990.03	9/15/2004	7.10	---	0.00	---	52.96	0.00	982.93	---	---
109B	989.06	9/15/2004	5.95	---	0.00	---	11.60	0.00	983.11	---	---
111A	997.57	7/16/2004	14.45	---	0.00	---	16.50	0.00	983.12	---	---

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
111A-R	997.35	8/13/2004	13.56	---	0.00	---	51.88	0.00	983.79	---	---
111A-R	997.35	9/16/2004	13.49	---	0.00	---	52.03	0.00	983.86	---	
111A-R	997.35	10/13/2004	13.03	---	0.00	---	52.27	0.00	984.32	---	
111B	996.75	7/16/2004	Bee nest inside PVC casing, could not gauge well					0.00	NA	---	---
111B	996.75	10/13/2004	13.02	---	0.00	---	16.54	0.00	983.73	---	
111B	996.75	10/14/2004	13.04	---	0.00	---	16.54	0.00	983.71	---	
111B	996.75	10/20/2004	12.95	---	0.00	---	16.50	0.00	983.80	---	
111B	996.75	10/22/2004	13.00	---	0.00	---	16.20	0.00	983.75	---	
111B	996.75	11/1/2005	13.19	---	0.00	---	16.49	0.00	983.56	---	
114A	986.16	7/15/2004	6.27	---	0.00	---	52.31	0.00	979.89	---	---
114A	986.16	10/13/2004	5.91	---	0.00	---	52.30	0.00	980.25	---	
114B	984.98	7/15/2004	5.93	---	0.00	---	10.91	0.00	979.05	---	---
114B-R	985.54	9/17/2004	5.91	---	0.00	---	15.90	0.00	979.63	---	---
114B-R	985.54	10/13/2004	6.00	---	0.00	---	15.50	0.00	979.54	---	
114B-R	985.54	10/14/2004	5.98	---	0.00	---	15.47	0.00	979.56	---	
114C	986.68	7/15/2004	5.18	---	0.00	---	90.70	0.00	981.50	---	---
114C	986.68	8/25/2004	4.85	---	0.00	---	90.38	0.00	981.83	---	
GMA3-2	991.94	7/15/2004	7.80	---	0.00	---	14.93	0.00	984.14	---	---
GMA3-2	991.94	10/6/2004	6.60	---	0.00	---	14.96	0.00	985.34	---	
GMA3-2	991.94	10/13/2004	7.19	---	0.00	---	15.02	0.00	984.75	---	
GMA3-3	990.45	7/15/2004	2.07	---	0.00	---	12.21	0.00	988.38	---	---
GMA3-3	990.45	10/13/2004	1.64	---	0.00	---	12.20	0.00	988.81	---	
GMA3-3	990.45	10/15/2004	1.71	---	0.00	---	12.29	0.00	988.74	---	
GMA3-4	994.60	7/15/2004	7.02	---	0.00	---	13.70	0.00	987.58	---	---
GMA3-4	994.60	9/16/2004	7.23	---	0.00	---	13.38	0.00	987.37	---	
GMA3-4	994.60	10/8/2004	6.70	---	0.00	---	13.34	0.00	987.90	---	
GMA3-4	994.60	10/13/2004	6.75	P	< 0.01	---	13.20	0.00	987.85	---	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
GMA3-5	993.67	7/16/2004	9.26	---	0.00	---	15.43	0.00	984.41	---	---
GMA3-5	993.67	10/7/2004	7.77	---	0.00	---	15.56	0.00	985.90	---	
GMA3-5	993.67	10/13/2004	8.37	---	0.00	---	15.52	0.00	985.30	---	
GMA3-6	997.49	7/15/2004	10.84	---	0.00	---	17.94	0.00	986.65	---	---
GMA3-6	997.49	10/7/2004	10.43	---	0.00	---	18.08	0.00	987.06	---	
GMA3-6	997.49	10/13/2004	10.53	---	0.00	---	17.35	0.00	986.96	---	
GMA3-7	1000.17	7/16/2004	13.71	---	0.00	---	19.90	0.00	986.46	---	---
GMA3-7	1000.17	10/8/2004	13.08	---	0.00	---	19.96	0.00	987.09	---	
GMA3-7	1000.17	10/13/2004	13.22	---	0.00	---	19.91	0.00	986.95	---	
GMA3-8	996.24	7/16/2004	10.70	---	0.00	---	15.66	0.00	985.54	---	---
GMA3-8	996.24	10/13/2004	9.89	---	0.00	---	15.74	0.00	986.35	---	
GMA3-8	996.24	10/21/2005	10.06	---	0.00	---	15.78	0.00	986.18	---	
GMA3-9	992.39	7/15/2004	4.80	---	0.00	---	12.66	0.00	987.59	---	---
GMA3-9	992.39	10/13/2004	4.77	---	0.00	---	12.66	0.00	987.62	---	
GMA3-9	992.39	10/15/2004	4.90	---	0.00	---	12.68	0.00	987.49	---	
GMA3-10	997.54	7/1/2004	11.55	10.87	0.68	---	18.03	0.00	986.62	0.420	10.764
GMA3-10	997.54	7/8/2004	11.60	10.91	0.69	---	18.03	0.00	986.58	0.426	
GMA3-10	997.54	7/15/2004	11.68	11.02	0.66	---	18.02	0.00	986.47	0.407	
GMA3-10	997.54	7/23/2004	11.88	11.16	0.72	---	18.03	0.00	986.33	0.444	
GMA3-10	997.54	7/29/2004	11.95	11.24	0.71	---	18.02	0.00	986.25	0.438	
GMA3-10	997.54	8/6/2004	11.90	11.28	0.62	---	18.02	0.00	986.22	0.383	
GMA3-10	997.54	8/13/2004	12.08	11.36	0.72	---	18.02	0.00	986.13	0.444	
GMA3-10	997.54	8/20/2004	11.95	11.32	0.63	---	18.02	0.00	986.18	0.450	
GMA3-10	997.54	8/27/2004	11.81	11.17	0.64	---	18.02	0.00	986.33	0.395	
GMA3-10	997.54	9/3/2004	11.87	11.25	0.62	---	18.02	0.00	986.25	0.382	
GMA3-10	997.54	9/10/2004	11.98	11.33	0.65	---	18.02	0.00	986.16	0.401	
GMA3-10	997.54	9/17/2004	11.75	11.31	0.44	---	18.02	0.00	986.20	0.271	
GMA3-10	997.54	9/24/2004	11.25	10.88	0.37	---	18.02	0.00	986.63	0.228	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
GMA3-10	997.54	9/30/2004	11.24	10.75	0.49	---	18.02	0.00	986.76	0.302	10.764
GMA3-10	997.54	10/8/2004	11.26	10.63	0.63	---	18.02	0.00	986.87	0.389	
GMA3-10	997.54	10/13/2004	11.41	10.68	0.73	---	18.02	0.00	986.81	---	
GMA3-10	997.54	10/22/2004	11.42	10.74	0.68	---	18.02	0.00	986.75	0.419	
GMA3-10	997.54	10/27/2004	11.48	10.76	0.72	---	18.02	0.00	986.73	0.444	
GMA3-10	997.54	11/5/2004	11.60	10.85	0.75	---	18.02	0.00	986.64	0.463	
GMA3-10	997.54	11/12/2004	11.51	10.93	0.58	---	18.02	0.00	986.57	0.358	
GMA3-10	997.54	11/18/2004	11.75	11.00	0.75	---	18.02	0.00	986.49	0.463	
GMA3-10	997.54	11/24/2004	11.92	11.15	0.77	---	18.02	0.00	986.34	0.475	
GMA3-10	997.54	12/3/2004	11.55	10.88	0.67	---	18.02	0.00	986.61	0.413	
GMA3-10	997.54	12/9/2004	11.50	10.76	0.74	---	18.01	0.00	986.73	0.457	
GMA3-10	997.54	12/22/2004	11.60	10.83	0.77	---	18.02	0.00	986.66	0.475	
GMA3-10	997.54	12/30/2004	11.60	10.82	0.78	---	18.01	0.00	986.67	0.481	
GMA3-10	997.54	12/15/2014	11.60	10.73	0.87	---	18.02	0.00	986.75	0.537	
GMA3-11	997.25	7/15/2004	10.48	---	0.00	---	18.53	0.00	986.77	---	---
GMA3-11	997.25	8/27/2004	10.68	---	0.00	---	18.53	0.00	986.57	---	
GMA3-11	997.25	10/13/2004	10.10	---	0.00	---	18.52	0.00	987.15	---	
GMA3-11	997.25	11/18/2004	10.48	---	0.00	---	18.48	0.00	986.77	---	
GMA3-11	997.25	12/15/2004	10.20	---	0.00	---	18.48	0.00	987.05	---	
GMA3-12	997.84	7/1/2004	11.70	11.27	0.43	---	21.25	0.00	986.54	1.681	22.839
GMA3-12	997.84	7/8/2004	11.90	11.21	0.69	---	21.25	0.00	986.58	1.705	
GMA3-12	997.84	7/15/2004	12.05	11.38	0.67	---	21.25	0.00	986.41	1.655	
GMA3-12	997.84	7/23/2004	12.25	11.55	0.70	---	21.25	0.00	986.24	1.730	
GMA3-12	997.84	7/29/2004	12.09	11.61	0.48	---	21.25	0.00	986.20	0.876	
GMA3-12	997.84	8/6/2004	12.05	11.64	0.41	---	21.25	0.00	986.17	1.013	
GMA3-12	997.84	8/13/2004	12.03	11.75	0.28	---	21.25	0.00	986.07	0.692	
GMA3-12	997.84	8/20/2004	12.02	11.65	0.37	---	21.25	0.00	986.16	0.914	
GMA3-12	997.84	8/27/2004	11.78	11.52	0.26	---	21.25	0.00	986.30	0.643	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
GMA3-12	997.84	9/3/2004	12.00	11.62	0.38	---	21.24	0.00	986.19	0.939	22.839
GMA3-12	997.84	9/10/2004	12.07	11.70	0.37	---	21.24	0.00	986.11	0.914	
GMA3-12	997.84	9/17/2004	11.97	11.70	0.27	---	21.24	0.00	986.12	0.667	
GMA3-12	997.84	9/24/2004	11.45	11.20	0.25	---	21.24	0.00	986.62	0.618	
GMA3-12	997.84	9/30/2004	11.25	11.10	0.15	---	21.24	0.00	986.73	0.371	
GMA3-12	997.84	10/8/2004	11.30	11.01	0.29	---	21.24	0.00	986.81	0.717	
GMA3-12	997.84	10/13/2004	11.37	11.07	0.30	---	21.25	0.00	986.75	---	
GMA3-12	997.84	10/22/2004	11.45	11.09	0.36	---	21.24	0.00	986.72	0.889	
GMA3-12	997.84	10/27/2004	11.41	11.14	0.27	---	21.24	0.00	986.68	0.667	
GMA3-12	997.84	11/5/2004	11.55	11.21	0.34	---	21.24	0.00	986.61	0.840	
GMA3-12	997.84	11/12/2004	11.70	11.33	0.37	---	21.24	0.00	986.48	0.914	
GMA3-12	997.84	11/18/2004	11.75	11.40	0.35	---	21.26	0.00	986.42	0.216	
GMA3-12	997.84	11/24/2004	11.90	11.48	0.42	---	21.24	0.00	986.33	1.038	
GMA3-12	997.84	12/3/2004	11.65	11.22	0.43	---	21.24	0.00	986.59	1.063	
GMA3-12	997.84	12/9/2004	11.43	11.15	0.28	---	21.24	0.00	986.67	0.692	
GMA3-12	997.84	12/22/2004	11.50	11.22	0.28	---	21.24	0.00	986.60	0.692	
GMA3-12	997.84	12/30/2004	11.43	11.23	0.20	---	21.24	0.00	986.60	0.494	
GMA3-12	997.84	12/15/2014	11.22	11.14	0.08	---	21.24	0.00	986.69	0.198	
OBG-2	992.20	7/16/2004	5.65	---	0.00	---	14.80	0.00	986.55	---	---
OBG-2	992.20	10/8/2004	4.81	---	0.00	---	14.87	0.00	987.39	---	
OBG-2	992.20	10/13/2004	5.37	---	0.00	---	14.81	0.00	986.83	---	
UB-MW-10	995.99	7/15/2004	9.60	---	0.00	---	15.71	0.00	986.39	---	---
UB-MW-10	995.99	8/27/2004	10.61	---	0.00	---	15.70	0.00	985.38	---	
UB-MW-10	995.99	10/13/2004	9.23	---	0.00	---	15.69	0.00	986.76	---	
UB-MW-10	995.99	11/18/2004	9.58	---	0.00	---	15.71	0.00	986.41	---	
UB-MW-10	995.99	12/13/2004	9.27	---	0.00	---	15.70	0.00	986.72	---	

TABLE C-1
GROUNDWATER ELEVATION AND LNAPL MONITORING/RECOVERY DATA
JULY 2004 THROUGH DECEMBER 2004

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS

Well Number	Measuring Point (ft)	Date Measured	Depth to Water (ft BMP)	Depth to LNAPL (ft BMP)	LNAPL Thickness (ft)	Depth to DNAPL (ft BMP)	Total Depth (ft BMP)	DNAPL Thickness (ft)	Corrected Water Elev. (ft)	LNAPL Removal	
										Daily (Liters)	Total for Well (Liters)
UB-PZ-1	999.70	7/15/2004	13.76	---	0.00	---	13.79	0.00	985.94	---	---
UB-PZ-1	999.70	10/13/2004	Dry	---	0.00	---	12.75	0.00	< 986.95	---	
UB-PZ-2	994.77	7/16/2004	Well damaged, unable to measure						NA	---	---
UB-PZ-2	994.77	10/13/2004	8.85	---	0.00	---	10.42	0.00	985.92	---	
UB-PZ-3	998.15	7/15/2004	12.10	11.80	0.30	---	13.36	0.00	986.33	0.185	0.314
UB-PZ-3	998.15	8/27/2004	12.20	11.92	0.28	---	13.37	0.00	986.21	0.007	
UB-PZ-3	998.15	9/24/2004	11.95	11.60	0.35	---	13.35	0.00	986.53	0.122	
UB-PZ-3	998.15	10/13/2004	11.87	11.43	0.44	---	13.35	0.00	986.69	---	
UB-PZ-3	998.15	11/18/2004	12.12	11.94	0.18	---	13.42	0.00	986.20	---	
UB-PZ-3	998.15	12/15/2004	11.82	11.60	0.22	---	13.38	0.00	986.53	---	
Unkamet Brook Staff Gauge											
GMA3-SG-1	983.44	7/15/2004	2.90	---	---	---	---	---	986.34	---	---
GMA3-SG-1	983.44	10/14/2004	2.98	---	---	---	---	---	986.42	---	
GMA3-SG-2	NA	7/16/2004	0.26	---	---	---	---	---	NA	---	---
GMA3-SG-2	NA	10/14/2004	0.43	---	---	---	---	---	NA	---	
GMA3-SG-3	985.53	7/15/2004	1.98	---	---	---	---	---	987.51	---	---
GMA3-SG-3	985.53	10/14/2004	1.86	---	---	---	---	---	987.39	---	

NOTES

1. ft BMP: feet below measuring point.
2. --- indicates LNAPL was not present in a measurable quantity.
3. NA indicates information not available.
4. NM indicates data not measured.
5. P indicates that LNAPL is present at a thickness that is < 0.01 feet, the corresponding thickness is recorded as such.
6. A staff gauge reading of 0.00 feet corresponds to the listed measuring point elevation. The "Depth to Water" value shown above for staff gauges refer to feet above the datum, rather than feet below the measuring point.

Appendix D

Fall 2004 Groundwater Analytical Results

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

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04	82B-R 10/08/04
Volatile Organics					
1,1,1,2-Tetrachloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,1-Dichloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	0.0010 J
1,1-Dichloroethene	ND(0.050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.10)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.050) J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,2-Dibromoethane	ND(0.050)	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.10)	ND(0.0010)
1,2-Dichloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,2-Dichloropropane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
1,4-Dioxane	ND(1.0) J	ND(0.20) J [ND(0.20) J]	ND(0.20) J	ND(2.0) J	ND(0.20) J
2-Butanone	ND(0.050) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.10) J	ND(0.010) J
2-Chloro-1,3-butadiene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
2-Chloroethylvinylether	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
2-Hexanone	ND(0.050)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.10)	ND(0.010)
3-Chloropropene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.050)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.10)	ND(0.010)
Acetone	ND(0.050)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.10)	ND(0.010) J
Acetonitrile	ND(0.50) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(1.0) J	ND(0.10) J
Acrolein	ND(0.50) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(1.0) J	ND(0.10)
Acrylonitrile	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10) J	ND(0.0050)
Benzene	0.70	ND(0.0050) [ND(0.0050)]	ND(0.0050)	2.0	0.0015 J
Bromodichloromethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Bromoform	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Bromomethane	ND(0.050)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.10)	ND(0.0020)
Carbon Disulfide	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Carbon Tetrachloride	ND(0.050)	ND(0.0050) [ND(0.0050)]	0.0014 J	ND(0.10)	ND(0.0050)
Chlorobenzene	0.92	0.00052 J [0.00056 J]	ND(0.0050)	2.3	ND(0.0050)
Chloroethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Chloroform	ND(0.050)	ND(0.0050) [ND(0.0050)]	0.0019 J	ND(0.10)	ND(0.0050)
Chloromethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Dibromochloromethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Dibromomethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Dichlorodifluoromethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Ethyl Methacrylate	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Ethylbenzene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Iodomethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Isobutanol	ND(1.0) J	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(2.0) J	ND(0.10) J
Methacrylonitrile	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10) J	ND(0.0050)
Methyl Methacrylate	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Methylene Chloride	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Propionitrile	ND(0.10) J	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.20) J	ND(0.010) J
Styrene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Tetrachloroethene	ND(0.050)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.10) J	ND(0.0020)
Toluene	0.038 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050)
Trichloroethene	ND(0.050)	0.00061 J [0.00064 J]	ND(0.0050)	ND(0.10)	ND(0.0050)
Trichlorofluoromethane	ND(0.050)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10) J	ND(0.0050)
Vinyl Acetate	ND(0.050) J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.10)	ND(0.0050) J
Vinyl Chloride	ND(0.050)	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.10)	ND(0.0020)
Xylenes (total)	ND(0.050)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.10)	ND(0.010)
Total VOCs	1.7	0.0011 J [0.0012 J]	0.0033 J	4.3	0.0025 J
PCBs-Unfiltered					
Aroclor-1016	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1254	ND(0.000065)	NA	NA	0.00041	ND(0.000065)
Aroclor-1260	ND(0.000065)	NA	NA	0.000092	ND(0.000065)
Total PCBs	ND(0.000065)	NA	NA	0.000502	ND(0.000065)

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04	82B-R 10/08/04
PCBs-Filtered					
Aroclor-1016	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1221	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1232	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1242	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1248	ND(0.000065)	NA	NA	ND(0.000065)	ND(0.000065)
Aroclor-1254	ND(0.000065)	NA	NA	0.00029	ND(0.000065)
Aroclor-1260	ND(0.000065)	NA	NA	0.000090	ND(0.000065)
Total PCBs	ND(0.000065)	NA	NA	0.00038	ND(0.000065)
Semivolatile Organics					
1,2,4,5-Tetrachlorobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.010)	ND(0.010)
1,2-Dichlorobenzene	0.0049 J	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.010)	ND(0.010)
1,2-Diphenylhydrazine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
1,3,5-Trinitrobenzene	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010) J
1,3-Dichlorobenzene	ND(0.010)	0.00069 J [0.00083 J]	ND(0.0050)	ND(0.010)	ND(0.010)
1,3-Dinitrobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
1,4-Dichlorobenzene	0.055	0.0014 J [0.0016 J]	ND(0.0050)	0.0098 J	ND(0.010)
1,4-Naphthoquinone	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
1-Naphthylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,3,4,6-Tetrachlorophenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,4,5-Trichlorophenol	ND(0.010)	NA	NA	0.0053 J	ND(0.010)
2,4,6-Trichlorophenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,4-Dichlorophenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,4-Dimethylphenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,4-Dinitrophenol	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
2,4-Dinitrotoluene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,6-Dichlorophenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2,6-Dinitrotoluene	ND(0.010)	NA	NA	ND(0.010) J	ND(0.010)
2-Acetylaminofluorene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2-Chloronaphthalene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2-Chlorophenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2-Methylnaphthalene	ND(0.010)	NA	NA	0.021	ND(0.010)
2-Methylphenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2-Naphthylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2-Nitroaniline	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
2-Nitrophenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
2-Picoline	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
3&4-Methylphenol	0.021	NA	NA	ND(0.010)	ND(0.010)
3,3'-Dichlorobenzidine	ND(0.020)	NA	NA	ND(0.020) J	ND(0.020) J
3,3'-Dimethylbenzidine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
3-Methylcholanthrene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
3-Nitroaniline	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
4,6-Dinitro-2-methylphenol	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
4-Aminobiphenyl	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
4-Bromophenyl-phenylether	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
4-Chloro-3-Methylphenol	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
4-Chloroaniline	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
4-Chlorobenzilate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
4-Chlorophenol	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
4-Nitroaniline	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
4-Nitrophenol	ND(0.050) J	NA	NA	ND(0.050) J	ND(0.050) J
4-Nitroquinoline-1-oxide	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010) J
4-Phenylenediamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
5-Nitro-o-toluidine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
7,12-Dimethylbenz(a)anthracene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
a,a'-Dimethylphenethylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010) J
Acenaphthene	ND(0.010)	NA	NA	0.018	ND(0.010)
Acenaphthylene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Acetophenone	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Aniline	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Anthracene	ND(0.010)	NA	NA	0.0028 J	ND(0.010)
Aramite	ND(0.010) J	NA	NA	ND(0.010)	ND(0.010)
Benzidine	ND(0.020) J	NA	NA	ND(0.020) J	ND(0.020) J

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04	82B-R 10/08/04
Semivolatile Organics (continued)					
Benzo(a)anthracene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Benzo(a)pyrene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Benzo(b)fluoranthene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Benzo(g,h,i)perylene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Benzo(k)fluoranthene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Benzyl Alcohol	ND(0.020)	NA	NA	ND(0.020)	ND(0.020)
bis(2-Chloroethoxy)methane	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
bis(2-Chloroethyl)ether	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
bis(2-Chloroisopropyl)ether	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010) J
bis(2-Ethylhexyl)phthalate	ND(0.0060)	NA	NA	ND(0.0060)	ND(0.0060)
Butylbenzylphthalate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Chrysene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Diallate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Dibenzo(a,h)anthracene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Dibenzofuran	ND(0.010)	NA	NA	0.014	ND(0.010)
Diethylphthalate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Dimethylphthalate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Di-n-Butylphthalate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Di-n-Octylphthalate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Diphenylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Ethyl Methanesulfonate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Fluoranthene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Fluorene	ND(0.010)	NA	NA	0.015	ND(0.010)
Hexachlorobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Hexachlorobutadiene	ND(0.050)	NA	NA	ND(0.10)	ND(0.0010)
Hexachlorocyclopentadiene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Hexachloroethane	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Hexachlorophene	ND(0.020)	NA	NA	ND(0.020)	ND(0.020)
Hexachloropropene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Indeno(1,2,3-cd)pyrene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Isodrin	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Isophorone	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Isosafrole	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Methapyrilene	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010)
Methyl Methanesulfonate	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010) J
Naphthalene	0.0031 J	ND(0.0050) [ND(0.0050)]	ND(0.0050) J	0.035	ND(0.010)
Nitrobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitrosodiethylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitrosodimethylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitroso-di-n-butylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitroso-di-n-propylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitrosodiphenylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitrosomethylethylamine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitrosomorpholine	ND(0.010)	NA	NA	ND(0.010) J	ND(0.010)
N-Nitrosopiperidine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
N-Nitrosopyrrolidine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010) J
o,o,o-Triethylphosphorothioate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
o-Toluidine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010) J
p-Dimethylaminoazobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Pentachlorobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Pentachloroethane	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Pentachloronitrobenzene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Pentachlorophenol	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
Phenacetin	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Phenanthrene	ND(0.010)	NA	NA	0.016	ND(0.010)
Phenol	0.021	NA	NA	0.0063 J	ND(0.010)
Pronamide	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010) J
Pyrene	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Pyridine	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Safrole	ND(0.010) J	NA	NA	ND(0.010) J	ND(0.010) J
Thionazin	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04	82B-R 10/08/04
Organochlorine Pesticides					
4,4'-DDD	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
4,4'-DDE	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
4,4'-DDT	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Aldrin	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Alpha-BHC	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Alpha-Chlordane	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Beta-BHC	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Delta-BHC	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Dieldrin	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Endosulfan I	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Endosulfan II	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Endosulfan Sulfate	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Endrin	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Endrin Aldehyde	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Endrin Ketone	ND(0.00010) J	NA	NA	ND(0.00010)	ND(0.00010)
Gamma-BHC (Lindane)	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Gamma-Chlordane	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Heptachlor	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Heptachlor Epoxide	ND(0.000050) J	NA	NA	ND(0.000050)	ND(0.000050)
Kepone	ND(0.050) J	NA	NA	ND(0.050)	ND(0.050)
Methoxychlor	ND(0.00050) J	NA	NA	ND(0.00050)	ND(0.00050)
Technical Chlordane	ND(0.00050) J	NA	NA	ND(0.00062)	ND(0.00050)
Toxaphene	ND(0.0010) J	NA	NA	ND(0.0010)	ND(0.0010)
Organophosphate Pesticides					
Dimethoate	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
Disulfoton	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Ethyl Parathion	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Famphur	ND(0.050)	NA	NA	ND(0.050)	ND(0.050)
Methyl Parathion	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Phorate	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Sulfotep	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Herbicides					
2,4,5-T	ND(0.0020)	NA	NA	ND(0.0020)	ND(0.0020)
2,4,5-TP	ND(0.0020)	NA	NA	ND(0.0020)	ND(0.0020)
2,4-D	ND(0.010)	NA	NA	ND(0.010)	ND(0.010)
Dinoseb	ND(0.0010)	NA	NA	ND(0.0010)	ND(0.0010)
Furans					
2,3,7,8-TCDF	ND(0.0000000023)	NA	NA	ND(0.0000000025)	ND(0.0000000019)
TCDFs (total)	ND(0.0000000023)	NA	NA	ND(0.0000000048)	ND(0.0000000019)
1,2,3,7,8-PeCDF	ND(0.0000000041)	NA	NA	ND(0.0000000016)	ND(0.0000000029)
2,3,4,7,8-PeCDF	ND(0.0000000039)	NA	NA	ND(0.0000000016)	ND(0.0000000028)
PeCDFs (total)	ND(0.0000000041)	NA	NA	ND(0.0000000051)	ND(0.0000000029)
1,2,3,4,7,8-HxCDF	ND(0.0000000033)	NA	NA	ND(0.0000000059)	ND(0.0000000028)
1,2,3,6,7,8-HxCDF	ND(0.0000000032)	NA	NA	ND(0.0000000017)	ND(0.0000000026)
1,2,3,7,8,9-HxCDF	ND(0.0000000039)	NA	NA	ND(0.0000000020)	ND(0.0000000033)
2,3,4,6,7,8-HxCDF	ND(0.0000000035)	NA	NA	ND(0.0000000018)	ND(0.0000000029)
HxCDFs (total)	ND(0.0000000039)	NA	NA	ND(0.0000000087)	ND(0.0000000033)
1,2,3,4,6,7,8-HpCDF	ND(0.0000000023)	NA	NA	ND(0.0000000046)	ND(0.0000000021)
1,2,3,4,7,8,9-HpCDF	ND(0.0000000028)	NA	NA	ND(0.0000000035)	ND(0.0000000025)
HpCDFs (total)	ND(0.0000000028)	NA	NA	ND(0.0000000046)	ND(0.0000000025)
OCDF	ND(0.0000000066)	NA	NA	ND(0.0000000046)	ND(0.0000000048)
Dioxins					
2,3,7,8-TCDD	ND(0.0000000026)	NA	NA	ND(0.0000000014)	ND(0.0000000033)
TCDDs (total)	ND(0.0000000026)	NA	NA	ND(0.0000000014)	ND(0.0000000033)
1,2,3,7,8-PeCDD	ND(0.0000000054)	NA	NA	ND(0.0000000025)	ND(0.0000000048)
PeCDDs (total)	ND(0.0000000054)	NA	NA	ND(0.0000000025)	ND(0.0000000048)
1,2,3,4,7,8-HxCDD	ND(0.0000000042)	NA	NA	ND(0.0000000021)	ND(0.0000000035)
1,2,3,6,7,8-HxCDD	ND(0.0000000037)	NA	NA	ND(0.0000000017)	ND(0.0000000031)
1,2,3,7,8,9-HxCDD	ND(0.0000000038)	NA	NA	ND(0.0000000018)	ND(0.0000000032)
HxCDDs (total)	ND(0.0000000042)	NA	NA	ND(0.0000000021)	ND(0.0000000035)
1,2,3,4,6,7,8-HpCDD	ND(0.0000000046)	NA	NA	ND(0.0000000019)	ND(0.0000000036)
HpCDDs (total)	ND(0.0000000046)	NA	NA	ND(0.0000000021)	ND(0.0000000036)
OCDD	0.00000013	NA	NA	ND(0.000000014)	ND(0.0000000046)
Total TEQs (WHO TEFs)	0.0000000065	NA	NA	0.0000000034	0.0000000060

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	6B-R 10/06/04	16B-R 10/07/04	51-14 10/07/04	78B-R 10/15/04	82B-R 10/08/04
Inorganics-Unfiltered					
Antimony	ND(0.0600)	NA	NA	ND(0.0600)	ND(0.0600)
Arsenic	ND(0.0100)	NA	NA	ND(0.0100)	ND(0.0100)
Barium	0.0510 B	NA	NA	1.40	0.0800 B
Beryllium	ND(0.00100)	NA	NA	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.00500)	NA	NA	ND(0.00500)	ND(0.00500)
Chromium	0.00240 B	NA	NA	ND(0.0100)	0.00120 B
Cobalt	ND(0.0500)	NA	NA	ND(0.0500)	ND(0.0500)
Copper	0.00310 B	NA	NA	0.00160 B	ND(0.0250)
Cyanide	ND(0.0100)	NA	NA	0.00170 B	ND(0.0100)
Lead	ND(0.00300)	NA	NA	0.000890 B	ND(0.00300)
Mercury	ND(0.000200)	NA	NA	ND(0.000200)	ND(0.000200)
Nickel	0.00470 B	NA	NA	0.00700 B	0.00160 B
Selenium	ND(0.00500) J	NA	NA	ND(0.00500)	ND(0.00500) J
Silver	ND(0.00500)	NA	NA	ND(0.00500)	ND(0.00500)
Sulfide	ND(5.00)	NA	NA	ND(5.00)	ND(5.00)
Thallium	ND(0.0100) J	NA	NA	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.0300)	NA	NA	ND(0.0300)	ND(0.0300)
Vanadium	0.00290 B	NA	NA	ND(0.0500)	ND(0.0500)
Zinc	0.0180 B	NA	NA	0.0250	0.0140 J
Inorganics-Filtered					
Antimony	ND(0.0600)	NA	NA	ND(0.0600)	ND(0.0600)
Arsenic	0.00550 B	NA	NA	ND(0.0100)	ND(0.0100)
Barium	0.0460 B	NA	NA	1.40	0.0750 B
Beryllium	ND(0.00100)	NA	NA	ND(0.00100)	ND(0.00100)
Cadmium	ND(0.00500)	NA	NA	ND(0.00500)	ND(0.00500)
Chromium	0.00200 B	NA	NA	ND(0.0100)	ND(0.0100)
Cobalt	ND(0.0500)	NA	NA	ND(0.0500)	ND(0.0500)
Copper	0.00190 B	NA	NA	ND(0.009)	ND(0.0250)
Cyanide	ND(0.0100)	NA	NA	0.00130 B	ND(0.0100)
Lead	ND(0.00300)	NA	NA	ND(0.00300)	ND(0.00300)
Mercury	ND(0.000200)	NA	NA	ND(0.000200)	ND(0.000200)
Nickel	0.00610 B	NA	NA	0.00700 B	0.00220 B
Selenium	ND(0.00500) J	NA	NA	ND(0.00500)	ND(0.00500) J
Silver	ND(0.00500)	NA	NA	ND(0.00500)	0.00100 B
Thallium	ND(0.0100) J	NA	NA	ND(0.0100) J	ND(0.0100) J
Tin	ND(0.0300)	NA	NA	ND(0.0300)	ND(0.0300)
Vanadium	0.00370 B	NA	NA	ND(0.0500)	ND(0.0500)
Zinc	ND(0.020)	NA	NA	ND(0.0200)	ND(0.020) J

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89B 10/14/04	90B 10/07/04	95B-R 10/14/04	111B 10/22/04
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010) [ND(0.050)]	ND(0.0010)	ND(0.0050)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010) [ND(0.050)]	ND(0.0010)	ND(0.0050)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J [ND(1.0) J]	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010) J [ND(0.050) J]	ND(0.010) J	ND(0.010) J	ND(0.010) J
2-Chloro-1,3-butadiene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Hexanone	ND(0.010) [ND(0.050)]	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010) [ND(0.050)]	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) [ND(0.050)]	ND(0.010) J	ND(0.010)	ND(0.010)
Acetonitrile	ND(0.10) J [ND(0.50) J]	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J [ND(0.50) J]	ND(0.10)	ND(0.10) J	ND(0.10)
Acrylonitrile	ND(0.0050) J [ND(0.050) J]	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Benzene	0.0014 J [0.079]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020) [ND(0.050)]	ND(0.0020)	ND(0.0050)	ND(0.0020) J
Carbon Disulfide	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	0.010 J [0.56 J]	ND(0.0050)	0.077 J	ND(0.0050)
Chloroethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J [ND(1.0) J]	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050) J [ND(0.050) J]	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Methyl Methacrylate	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J [ND(0.10) J]	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020) J [ND(0.050) J]	ND(0.0020)	ND(0.0050) J	ND(0.0020) J
Toluene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050) [ND(0.050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050) J [ND(0.050) J]	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Vinyl Acetate	ND(0.0050) [ND(0.050)]	ND(0.0050) J	ND(0.0050)	ND(0.0050)
Vinyl Chloride	ND(0.0020) [ND(0.050)]	ND(0.0020)	ND(0.0050)	ND(0.0020)
Xylenes (total)	ND(0.010) [ND(0.050)]	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	0.011 J [0.64 J]	ND(0.20)	0.077 J	ND(0.20)
PCBs-Unfiltered				
Aroclor-1016	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1221	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1232	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1242	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1248	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1254	0.00012 [0.000027 J]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1260	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Total PCBs	0.00012 [0.000027 J]	ND(0.000065)	ND(0.000065)	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89B 10/14/04	90B 10/07/04	95B-R 10/14/04	111B 10/22/04
PCBs-Filtered				
Aroclor-1016	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1221	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1232	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1242	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1248	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1254	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1260	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Total PCBs	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
1,2,4-Trichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	ND(0.0050)
1,2-Dichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	ND(0.0050)
1,2-Diphenylhydrazine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
1,3,5-Trinitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	NA
1,3-Dichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	ND(0.0050)
1,3-Dinitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
1,4-Dichlorobenzene	ND(0.010) [0.0051 J]	ND(0.010)	ND(0.010) J	ND(0.0050)
1,4-Naphthoquinone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
1-Naphthylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
2,3,4,6-Tetrachlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2,4,5-Trichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2,4,6-Trichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2,4-Dichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2,4-Dimethylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2,4-Dinitrophenol	ND(0.050) [ND(0.050)]	ND(0.050)	R	NA
2,4-Dinitrotoluene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
2,6-Dichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2,6-Dinitrotoluene	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010) J	NA
2-Acetylaminofluorene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
2-Chloronaphthalene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
2-Chlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2-Methylnaphthalene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
2-Methylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2-Naphthylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
2-Nitroaniline	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) J	NA
2-Nitrophenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
2-Picoline	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
3&4-Methylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
3,3'-Dichlorobenzidine	ND(0.020) [ND(0.020)]	ND(0.020) J	ND(0.020) J	NA
3,3'-Dimethylbenzidine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
3-Methylcholanthrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
3-Nitroaniline	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) J	NA
4,6-Dinitro-2-methylphenol	ND(0.050) [ND(0.050)]	ND(0.050)	R	NA
4-Aminobiphenyl	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
4-Bromophenyl-phenylether	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
4-Chloro-3-Methylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
4-Chloroaniline	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
4-Chlorobenzilate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
4-Chlorophenol	ND(0.010) [ND(0.010)]	NA	R	NA
4-Chlorophenyl-phenylether	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
4-Nitroaniline	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) J	NA
4-Nitrophenol	ND(0.050) J [ND(0.050) J]	ND(0.050) J	R	NA
4-Nitroquinoline-1-oxide	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
4-Phenylenediamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
5-Nitro-o-toluidine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
7,12-Dimethylbenz(a)anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
a,a'-Dimethylphenethylamine	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Acenaphthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Acenaphthylene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Acetophenone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Aniline	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Aramite	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010) J	NA
Benzidine	ND(0.020) [ND(0.020)]	ND(0.020) J	ND(0.020) J	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89B 10/14/04	90B 10/07/04	95B-R 10/14/04	111B 10/22/04
Semivolatile Organics (continued)				
Benzo(a)anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Benzo(a)pyrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Benzo(b)fluoranthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Benzo(g,h,i)perylene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Benzo(k)fluoranthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Benzyl Alcohol	ND(0.020) [ND(0.020)]	ND(0.020)	R	NA
bis(2-Chloroethoxy)methane	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
bis(2-Chloroethyl)ether	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
bis(2-Chloroisopropyl)ether	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
bis(2-Ethylhexyl)phthalate	ND(0.0060) [ND(0.0060)]	ND(0.0060)	ND(0.0060) J	NA
Butylbenzylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Chrysene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Diallate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Dibenzo(a,h)anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Dibenzofuran	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Diethylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Dimethylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Di-n-Butylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Di-n-Octylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Diphenylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Ethyl Methanesulfonate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Fluoranthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Fluorene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Hexachlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Hexachlorobutadiene	ND(0.0010) [ND(0.050)]	ND(0.0010)	ND(0.010) J	NA
Hexachlorocyclopentadiene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Hexachloroethane	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Hexachlorophene	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020) J	NA
Hexachloropropene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Indeno(1,2,3-cd)pyrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Isodrin	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Isophorone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Isosafrole	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Methapyrilene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Methyl Methanesulfonate	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Naphthalene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.0050) J
Nitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosodiethylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosodimethylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitroso-di-n-butylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitroso-di-n-propylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosodiphenylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosomethylethylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosomorpholine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosopiperidine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
N-Nitrosopyrrolidine	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	NA
o,o,o-Triethylphosphorothioate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
o-Toluidine	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	NA
p-Dimethylaminoazobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Pentachlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Pentachloroethane	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Pentachloronitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Pentachlorophenol	ND(0.050) [ND(0.050)]	ND(0.050)	R	NA
Phenacetin	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Phenanthrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Phenol	ND(0.010) [ND(0.010)]	ND(0.010)	R	NA
Pronamide	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Pyrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Pyridine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Safrole	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Thionazin	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89B 10/14/04	90B 10/07/04	95B-R 10/14/04	111B 10/22/04
Organochlorine Pesticides				
4,4'-DDD	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
4,4'-DDE	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
4,4'-DDT	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Aldrin	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Alpha-BHC	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Alpha-Chlordane	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	R	NA
Beta-BHC	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050) J	NA
Delta-BHC	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	R	NA
Dieldrin	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endosulfan I	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endosulfan II	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endosulfan Sulfate	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endrin	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endrin Aldehyde	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endrin Ketone	ND(0.00010) J [ND(0.00010)]	ND(0.00010)	R	NA
Gamma-BHC (Lindane)	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Gamma-Chlordane	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050) J	NA
Heptachlor	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Heptachlor Epoxide	ND(0.000050) J [ND(0.000050)]	ND(0.000050)	ND(0.000050) J	NA
Kepone	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) J	NA
Methoxychlor	ND(0.00050) J [ND(0.00050)]	ND(0.00050)	ND(0.00050)	NA
Technical Chlordane	ND(0.00050) J [ND(0.00050)]	ND(0.00050)	ND(0.00050)	NA
Toxaphene	ND(0.0010) J [ND(0.0010)]	ND(0.0010)	ND(0.0010)	NA
Organophosphate Pesticides				
Dimethoate	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) J	NA
Disulfoton	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Ethyl Parathion	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Famphur	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050) J	NA
Methyl Parathion	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Phorate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010) J	NA
Sulfotep	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Herbicides				
2,4,5-T	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	NA
2,4,5-TP	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	NA
2,4-D	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Dinoseb	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	NA
Furans				
2,3,7,8-TCDF	ND(0.0000000031) [ND(0.0000000019)]	ND(0.0000000022)	ND(0.0000000037)	NA
TCDFs (total)	ND(0.0000000031) [ND(0.0000000019)]	ND(0.0000000022)	ND(0.0000000037)	NA
1,2,3,7,8-PeCDF	ND(0.0000000021) [ND(0.0000000015)]	ND(0.0000000032)	ND(0.0000000023)	NA
2,3,4,7,8-PeCDF	ND(0.0000000021) [ND(0.0000000015)]	ND(0.0000000031)	ND(0.0000000023)	NA
PeCDFs (total)	ND(0.0000000034) [ND(0.0000000017)]	ND(0.0000000032)	ND(0.0000000029)	NA
1,2,3,4,7,8-HxCDF	ND(0.0000000031) [ND(0.0000000020)]	ND(0.0000000031)	ND(0.0000000028)	NA
1,2,3,6,7,8-HxCDF	ND(0.0000000027) [ND(0.0000000018)]	ND(0.0000000029)	ND(0.0000000025)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000000033) [ND(0.0000000022)]	ND(0.0000000036)	ND(0.0000000031)	NA
2,3,4,6,7,8-HxCDF	ND(0.0000000030) [ND(0.0000000020)]	ND(0.0000000032)	ND(0.0000000028)	NA
HxCDFs (total)	ND(0.0000000033) [ND(0.0000000022)]	ND(0.0000000036)	ND(0.0000000031)	NA
1,2,3,4,6,7,8-HpCDF	ND(0.0000000015) [ND(0.00000000097)]	ND(0.0000000025)	ND(0.0000000016)	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000000018) [ND(0.0000000012)]	ND(0.0000000030)	ND(0.0000000020)	NA
HpCDFs (total)	ND(0.0000000018) [ND(0.0000000012)]	ND(0.0000000030)	ND(0.0000000020)	NA
OCDF	ND(0.0000000053) [ND(0.0000000037)]	ND(0.0000000052)	ND(0.0000000057)	NA
Dioxins				
2,3,7,8-TCDD	ND(0.0000000024) [ND(0.0000000015)]	ND(0.0000000033)	ND(0.0000000022)	NA
TCDDs (total)	ND(0.0000000024) [ND(0.0000000015)]	ND(0.0000000033)	ND(0.0000000022)	NA
1,2,3,7,8-PeCDD	ND(0.0000000034) [ND(0.0000000022)]	ND(0.0000000054)	ND(0.0000000036)	NA
PeCDDs (total)	ND(0.0000000034) [ND(0.0000000022)]	ND(0.0000000054)	ND(0.0000000036)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000000049) [ND(0.0000000032)]	ND(0.0000000038)	ND(0.0000000044)	NA
1,2,3,6,7,8-HxCDD	ND(0.0000000039) [ND(0.0000000026)]	ND(0.0000000034)	ND(0.0000000036)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000000041) [ND(0.0000000027)]	ND(0.0000000035)	ND(0.0000000037)	NA
HxCDDs (total)	ND(0.0000000049) [ND(0.0000000032)]	ND(0.0000000038)	ND(0.0000000044)	NA
1,2,3,4,6,7,8-HpCDD	ND(0.0000000029) [ND(0.0000000021)]	ND(0.0000000028)	ND(0.0000000031)	NA
HpCDDs (total)	ND(0.0000000029) [ND(0.0000000021)]	ND(0.0000000028)	ND(0.0000000031)	NA
OCDD	ND(0.0000000037) [ND(0.0000000021)]	ND(0.0000000051)	ND(0.0000000029)	NA
Total TEQs (WHO TEFs)	0.0000000049 [0.0000000032]	0.0000000065	0.0000000049	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	89B 10/14/04	90B 10/07/04	95B-R 10/14/04	111B 10/22/04
Inorganics-Unfiltered				
Antimony	ND(0.0600) [ND(0.0600)]	ND(0.0600)	ND(0.0600)	NA
Arsenic	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)	NA
Barium	0.0620 B [0.0620 B]	0.0220 B	0.0640 B	NA
Beryllium	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00100)	NA
Cadmium	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Chromium	ND(0.0075) [ND(0.0075)]	0.00490 B	ND(0.0075)	NA
Cobalt	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Copper	ND(0.0250) [0.00190 B]	ND(0.0250)	ND(0.0250)	NA
Cyanide	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)	NA
Lead	ND(0.00300) [ND(0.00300)]	0.00100 B	ND(0.00300)	NA
Mercury	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)	NA
Nickel	ND(0.0400) [ND(0.0400)]	0.00500 B	ND(0.0400)	NA
Selenium	ND(0.00500) [ND(0.00500)]	ND(0.00500) J	ND(0.00500)	NA
Silver	0.00130 B [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Sulfide	ND(5.00) [ND(5.00)]	ND(5.00)	ND(5.00)	NA
Thallium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J	NA
Tin	ND(0.0300) [ND(0.0300)]	ND(0.0300)	ND(0.0300)	NA
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Zinc	0.0130 B [0.0140 B]	0.0160 J	0.0130 B	NA
Inorganics-Filtered				
Antimony	ND(0.0600) [ND(0.0600)]	ND(0.0600)	ND(0.0600)	NA
Arsenic	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)	NA
Barium	0.0590 B [0.0610 B]	0.0230 B	0.0660 B	NA
Beryllium	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00100)	NA
Cadmium	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Chromium	ND(0.0075) [ND(0.010)]	0.00280 B	ND(0.010)	NA
Cobalt	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Copper	ND(0.0250) [ND(0.009)]	ND(0.0250)	ND(0.009)	NA
Cyanide	ND(0.0100) [ND(0.0100)]	ND(0.0100)	ND(0.0100)	NA
Lead	0.000700 J [0.00130 J]	ND(0.00300)	ND(0.00300)	NA
Mercury	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)	NA
Nickel	ND(0.0400) [ND(0.0400)]	ND(0.0400)	ND(0.0400)	NA
Selenium	ND(0.00500) [ND(0.00500)]	ND(0.00500) J	ND(0.00500)	NA
Silver	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Thallium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J	NA
Tin	ND(0.0300) [ND(0.0300)]	ND(0.0300)	ND(0.0300)	NA
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Zinc	ND(0.0200) [ND(0.020)]	ND(0.020) J	ND(0.020)	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114B-R 10/14/04	GMA3-2 10/06/04	GMA3-3 10/15/04	GMA3-4 10/08/04
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.050)	ND(0.0010)	ND(0.0050)	ND(0.0010)
1,2-Dichloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(1.0) J	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.050) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
2-Chloro-1,3-butadiene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Hexanone	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010) J
Acetonitrile	ND(0.50) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.50) J	ND(0.10) J	ND(0.10) J	ND(0.10)
Acrylonitrile	ND(0.050) J	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Benzene	ND(0.050)	0.015	0.0031 J	ND(0.0050)
Bromodichloromethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.050)	ND(0.0020)	ND(0.0050)	ND(0.0020)
Carbon Disulfide	ND(0.050)	0.0012 J	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	1.0	ND(0.0050)	0.020	ND(0.0050)
Chloroethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.050)	0.0011 J	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(1.0) J	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.050) J	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Methyl Methacrylate	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.10) J	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.050) J	ND(0.0020)	ND(0.0050) J	ND(0.0020)
Toluene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.050) J	ND(0.0050)	ND(0.0050) J	ND(0.0050)
Vinyl Acetate	ND(0.050)	ND(0.0050)	ND(0.0050)	ND(0.0050) J
Vinyl Chloride	ND(0.050)	ND(0.0020)	ND(0.0050)	ND(0.0020)
Xylenes (total)	ND(0.050)	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	1.0	0.017 J	0.023 J	ND(0.20)
PCBs-Unfiltered				
Aroclor-1016	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1221	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1232	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1242	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1248	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1254	ND(0.000065)	NA	0.000046 J	NA
Aroclor-1260	ND(0.000065)	NA	0.000017 J	NA
Total PCBs	ND(0.000065)	NA	0.000063 J	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114B-R 10/14/04	GMA3-2 10/06/04	GMA3-3 10/15/04	GMA3-4 10/08/04
PCBs-Filtered				
Aroclor-1016	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1221	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1232	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1242	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1248	ND(0.000065)	NA	ND(0.000065)	NA
Aroclor-1254	ND(0.000065)	NA	0.000053 J	NA
Aroclor-1260	ND(0.000065)	NA	0.000022 J	NA
Total PCBs	ND(0.000065)	NA	0.000075 J	NA
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.010)	NA	ND(0.010)	NA
1,2,4-Trichlorobenzene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,2-Dichlorobenzene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,2-Diphenylhydrazine	ND(0.010)	NA	ND(0.010)	NA
1,3,5-Trinitrobenzene	ND(0.010) J	NA	ND(0.010) J	NA
1,3-Dichlorobenzene	ND(0.010)	ND(0.0050)	ND(0.010)	ND(0.0050)
1,3-Dinitrobenzene	ND(0.010)	NA	ND(0.010)	NA
1,4-Dichlorobenzene	0.030	0.0017 J	ND(0.010)	ND(0.0050)
1,4-Naphthoquinone	ND(0.010) J	NA	ND(0.010)	NA
1-Naphthylamine	ND(0.010)	NA	ND(0.010)	NA
2,3,4,6-Tetrachlorophenol	ND(0.010)	NA	ND(0.010)	NA
2,4,5-Trichlorophenol	ND(0.010)	NA	ND(0.010)	NA
2,4,6-Trichlorophenol	ND(0.010)	NA	ND(0.010)	NA
2,4-Dichlorophenol	ND(0.010)	NA	ND(0.010)	NA
2,4-Dimethylphenol	ND(0.010)	NA	ND(0.010)	NA
2,4-Dinitrophenol	ND(0.050)	NA	ND(0.050)	NA
2,4-Dinitrotoluene	ND(0.010)	NA	ND(0.010)	NA
2,6-Dichlorophenol	ND(0.010)	NA	ND(0.010)	NA
2,6-Dinitrotoluene	ND(0.010)	NA	ND(0.010) J	NA
2-Acetylaminofluorene	ND(0.010)	NA	ND(0.010)	NA
2-Chloronaphthalene	ND(0.010)	NA	ND(0.010)	NA
2-Chlorophenol	ND(0.010)	NA	ND(0.010)	NA
2-Methylnaphthalene	ND(0.010)	NA	0.0062 J	NA
2-Methylphenol	ND(0.010)	NA	ND(0.010)	NA
2-Naphthylamine	ND(0.010)	NA	ND(0.010)	NA
2-Nitroaniline	ND(0.050)	NA	ND(0.050)	NA
2-Nitrophenol	ND(0.010)	NA	ND(0.010)	NA
2-Picoline	ND(0.010)	NA	ND(0.010)	NA
3&4-Methylphenol	ND(0.010)	NA	ND(0.010)	NA
3,3'-Dichlorobenzidine	ND(0.020)	NA	ND(0.020) J	NA
3,3'-Dimethylbenzidine	ND(0.010)	NA	ND(0.010)	NA
3-Methylcholanthrene	ND(0.010)	NA	ND(0.010)	NA
3-Nitroaniline	ND(0.050)	NA	ND(0.050)	NA
4,6-Dinitro-2-methylphenol	ND(0.050)	NA	ND(0.050)	NA
4-Aminobiphenyl	ND(0.010)	NA	ND(0.010)	NA
4-Bromophenyl-phenylether	ND(0.010)	NA	ND(0.010)	NA
4-Chloro-3-Methylphenol	ND(0.010)	NA	ND(0.010)	NA
4-Chloroaniline	ND(0.010)	NA	ND(0.010)	NA
4-Chlorobenzilate	ND(0.010)	NA	ND(0.010)	NA
4-Chlorophenol	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ND(0.010)	NA	ND(0.010)	NA
4-Nitroaniline	ND(0.050)	NA	ND(0.050)	NA
4-Nitrophenol	ND(0.050) J	NA	ND(0.050) J	NA
4-Nitroquinoline-1-oxide	ND(0.010) J	NA	ND(0.010) J	NA
4-Phenylenediamine	ND(0.010)	NA	ND(0.010)	NA
5-Nitro-o-toluidine	ND(0.010)	NA	ND(0.010)	NA
7,12-Dimethylbenz(a)anthracene	ND(0.010)	NA	ND(0.010)	NA
a,a'-Dimethylphenethylamine	ND(0.010)	NA	ND(0.010)	NA
Acenaphthene	ND(0.010)	NA	0.015	NA
Acenaphthylene	ND(0.010)	NA	ND(0.010)	NA
Acetophenone	ND(0.010)	NA	ND(0.010)	NA
Aniline	ND(0.010)	NA	ND(0.010)	NA
Anthracene	ND(0.010)	NA	ND(0.010)	NA
Aramite	ND(0.010)	NA	ND(0.010)	NA
Benzidine	ND(0.020) J	NA	ND(0.020) J	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114B-R 10/14/04	GMA3-2 10/06/04	GMA3-3 10/15/04	GMA3-4 10/08/04
Semivolatile Organics (continued)				
Benzo(a)anthracene	ND(0.010)	NA	ND(0.010)	NA
Benzo(a)pyrene	ND(0.010)	NA	ND(0.010)	NA
Benzo(b)fluoranthene	ND(0.010)	NA	ND(0.010)	NA
Benzo(g,h,i)perylene	ND(0.010)	NA	ND(0.010)	NA
Benzo(k)fluoranthene	ND(0.010)	NA	ND(0.010)	NA
Benzyl Alcohol	ND(0.020)	NA	ND(0.020)	NA
bis(2-Chloroethoxy)methane	ND(0.010)	NA	ND(0.010)	NA
bis(2-Chloroethyl)ether	ND(0.010)	NA	ND(0.010)	NA
bis(2-Chloroisopropyl)ether	ND(0.010) J	NA	ND(0.010) J	NA
bis(2-Ethylhexyl)phthalate	ND(0.0060)	NA	ND(0.0060)	NA
Butylbenzylphthalate	ND(0.010)	NA	ND(0.010)	NA
Chrysene	ND(0.010)	NA	ND(0.010)	NA
Diallate	ND(0.010)	NA	ND(0.010)	NA
Dibenzo(a,h)anthracene	ND(0.010)	NA	ND(0.010)	NA
Dibenzofuran	ND(0.010)	NA	0.0065 J	NA
Diethylphthalate	ND(0.010)	NA	ND(0.010)	NA
Dimethylphthalate	ND(0.010)	NA	ND(0.010)	NA
Di-n-Butylphthalate	ND(0.010)	NA	ND(0.010)	NA
Di-n-Octylphthalate	ND(0.010)	NA	ND(0.010)	NA
Diphenylamine	ND(0.010)	NA	ND(0.010)	NA
Ethyl Methanesulfonate	ND(0.010)	NA	ND(0.010)	NA
Fluoranthene	ND(0.010)	NA	ND(0.010)	NA
Fluorene	ND(0.010)	NA	0.0067 J	NA
Hexachlorobenzene	ND(0.010)	NA	ND(0.010)	NA
Hexachlorobutadiene	ND(0.050)	NA	ND(0.0050)	NA
Hexachlorocyclopentadiene	ND(0.010)	NA	ND(0.010)	NA
Hexachloroethane	ND(0.010)	NA	ND(0.010)	NA
Hexachlorophene	ND(0.020)	NA	ND(0.020)	NA
Hexachloropropene	ND(0.010)	NA	ND(0.010)	NA
Indeno(1,2,3-cd)pyrene	ND(0.010)	NA	ND(0.010)	NA
Isodrin	ND(0.010)	NA	ND(0.010)	NA
Isophorone	ND(0.010)	NA	ND(0.010)	NA
Isosafrole	ND(0.010)	NA	ND(0.010)	NA
Methapyrilene	ND(0.010)	NA	ND(0.010) J	NA
Methyl Methanesulfonate	ND(0.010) J	NA	ND(0.010) J	NA
Naphthalene	ND(0.010)	ND(0.0050)	0.0043 J	ND(0.0050)
Nitrobenzene	ND(0.010)	NA	ND(0.010)	NA
N-Nitrosodiethylamine	ND(0.010)	NA	ND(0.010)	NA
N-Nitrosodimethylamine	ND(0.010)	NA	ND(0.010)	NA
N-Nitroso-di-n-butylamine	ND(0.010)	NA	ND(0.010)	NA
N-Nitroso-di-n-propylamine	0.0083 J	NA	ND(0.010)	NA
N-Nitrosodiphenylamine	ND(0.010)	NA	ND(0.010)	NA
N-Nitrosomethylethylamine	ND(0.010)	NA	ND(0.010)	NA
N-Nitrosomorpholine	ND(0.010) J	NA	ND(0.010) J	NA
N-Nitrosopiperidine	ND(0.010)	NA	ND(0.010)	NA
N-Nitrosopyrrolidine	ND(0.010)	NA	ND(0.010)	NA
o,o,o-Triethylphosphorothioate	ND(0.010)	NA	ND(0.010)	NA
o-Toluidine	ND(0.010)	NA	ND(0.010)	NA
p-Dimethylaminoazobenzene	ND(0.010)	NA	ND(0.010)	NA
Pentachlorobenzene	ND(0.010)	NA	ND(0.010)	NA
Pentachloroethane	ND(0.010)	NA	ND(0.010)	NA
Pentachloronitrobenzene	ND(0.010)	NA	ND(0.010)	NA
Pentachlorophenol	ND(0.050)	NA	ND(0.050)	NA
Phenacetin	ND(0.010)	NA	ND(0.010)	NA
Phenanthrene	ND(0.010)	NA	0.0053 J	NA
Phenol	ND(0.010)	NA	ND(0.010)	NA
Pronamide	ND(0.010) J	NA	ND(0.010) J	NA
Pyrene	ND(0.010)	NA	ND(0.010)	NA
Pyridine	ND(0.010)	NA	ND(0.010)	NA
Safrole	ND(0.010) J	NA	ND(0.010) J	NA
Thionazin	ND(0.010)	NA	ND(0.010)	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114B-R 10/14/04	GMA3-2 10/06/04	GMA3-3 10/15/04	GMA3-4 10/08/04
Organochlorine Pesticides				
4,4'-DDD	ND(0.00010)	NA	ND(0.00010)	NA
4,4'-DDE	ND(0.00010)	NA	ND(0.00010)	NA
4,4'-DDT	ND(0.00010)	NA	ND(0.00010)	NA
Aldrin	ND(0.000050)	NA	ND(0.000050)	NA
Alpha-BHC	ND(0.000050)	NA	ND(0.000050)	NA
Alpha-Chlordane	ND(0.000050)	NA	ND(0.000050)	NA
Beta-BHC	ND(0.000050)	NA	ND(0.000050)	NA
Delta-BHC	ND(0.000050)	NA	ND(0.000050)	NA
Dieldrin	ND(0.00010)	NA	ND(0.00010)	NA
Endosulfan I	ND(0.00010)	NA	ND(0.00010)	NA
Endosulfan II	ND(0.00010)	NA	ND(0.00010)	NA
Endosulfan Sulfate	ND(0.00010)	NA	ND(0.00010)	NA
Endrin	ND(0.00010)	NA	ND(0.00010)	NA
Endrin Aldehyde	ND(0.00010)	NA	ND(0.00010)	NA
Endrin Ketone	ND(0.00010)	NA	ND(0.00010)	NA
Gamma-BHC (Lindane)	ND(0.000050)	NA	ND(0.000050)	NA
Gamma-Chlordane	ND(0.000050)	NA	ND(0.000050)	NA
Heptachlor	ND(0.000050)	NA	ND(0.000050)	NA
Heptachlor Epoxide	ND(0.000050)	NA	ND(0.000050)	NA
Kepone	ND(0.050)	NA	ND(0.050)	NA
Methoxychlor	ND(0.00050)	NA	ND(0.00050)	NA
Technical Chlordane	ND(0.00050)	NA	ND(0.00050)	NA
Toxaphene	ND(0.0010)	NA	ND(0.0010)	NA
Organophosphate Pesticides				
Dimethoate	ND(0.050)	NA	ND(0.050)	NA
Disulfoton	ND(0.010)	NA	ND(0.010)	NA
Ethyl Parathion	ND(0.010)	NA	ND(0.010)	NA
Famphur	ND(0.050)	NA	ND(0.050)	NA
Methyl Parathion	ND(0.010)	NA	ND(0.010)	NA
Phorate	ND(0.010)	NA	ND(0.010)	NA
Sulfotep	ND(0.010)	NA	ND(0.010)	NA
Herbicides				
2,4,5-T	ND(0.0020)	NA	ND(0.0020)	NA
2,4,5-TP	ND(0.0020)	NA	ND(0.0020)	NA
2,4-D	ND(0.010)	NA	ND(0.010)	NA
Dinoseb	ND(0.0010)	NA	ND(0.0010)	NA
Furans				
2,3,7,8-TCDF	ND(0.0000000021)	NA	ND(0.0000000032)	NA
TCDFs (total)	ND(0.0000000021)	NA	ND(0.0000000032)	NA
1,2,3,7,8-PeCDF	ND(0.0000000017)	NA	ND(0.0000000027)	NA
2,3,4,7,8-PeCDF	ND(0.0000000017)	NA	ND(0.0000000027)	NA
PeCDFs (total)	ND(0.0000000024)	NA	ND(0.0000000027)	NA
1,2,3,4,7,8-HxCDF	ND(0.0000000017)	NA	ND(0.0000000023)	NA
1,2,3,6,7,8-HxCDF	ND(0.0000000015)	NA	ND(0.0000000021)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000000018)	NA	ND(0.0000000025)	NA
2,3,4,6,7,8-HxCDF	ND(0.0000000016)	NA	ND(0.0000000023)	NA
HxCDFs (total)	ND(0.0000000018)	NA	ND(0.0000000025)	NA
1,2,3,4,6,7,8-HpCDF	ND(0.0000000011)	NA	ND(0.0000000017)	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000000014)	NA	ND(0.0000000021)	NA
HpCDFs (total)	ND(0.0000000014)	NA	ND(0.0000000021)	NA
OCDF	ND(0.0000000034)	NA	ND(0.0000000058)	NA
Dioxins				
2,3,7,8-TCDD	ND(0.0000000016)	NA	ND(0.0000000022)	NA
TCDDs (total)	ND(0.0000000016)	NA	ND(0.0000000022)	NA
1,2,3,7,8-PeCDD	ND(0.0000000025)	NA	ND(0.0000000034)	NA
PeCDDs (total)	ND(0.0000000025)	NA	ND(0.0000000034)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000000028)	NA	ND(0.0000000034)	NA
1,2,3,6,7,8-HxCDD	ND(0.0000000022)	NA	ND(0.0000000027)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000000023)	NA	ND(0.0000000028)	NA
HxCDDs (total)	ND(0.0000000028)	NA	ND(0.0000000034)	NA
1,2,3,4,6,7,8-HpCDD	ND(0.0000000021)	NA	ND(0.0000000029)	NA
HpCDDs (total)	ND(0.0000000021)	NA	ND(0.0000000029)	NA
OCDD	ND(0.0000000025)	NA	ND(0.0000000032)	NA
Total TEQs (WHO TEFs)	0.0000000033	NA	0.0000000046	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	114B-R 10/14/04	GMA3-2 10/06/04	GMA3-3 10/15/04	GMA3-4 10/08/04
Inorganics-Unfiltered				
Antimony	ND(0.0600)	NA	ND(0.0600)	NA
Arsenic	ND(0.0100)	NA	0.0240	NA
Barium	0.140 B	NA	0.420	NA
Beryllium	ND(0.00100)	NA	ND(0.00100)	NA
Cadmium	ND(0.00500)	NA	ND(0.00500)	NA
Chromium	ND(0.0075)	NA	ND(0.010)	NA
Cobalt	ND(0.0500)	NA	ND(0.0500)	NA
Copper	0.00180 B	NA	ND(0.0250)	NA
Cyanide	ND(0.0100)	NA	0.00350 B	NA
Lead	ND(0.00300)	NA	0.000440 B	NA
Mercury	ND(0.000200)	NA	ND(0.000200)	NA
Nickel	0.0130 B	NA	0.00180 B	NA
Selenium	ND(0.00500)	NA	ND(0.00500)	NA
Silver	ND(0.00500)	NA	ND(0.00500)	NA
Sulfide	ND(5.00)	NA	ND(5.00)	NA
Thallium	ND(0.0100) J	NA	ND(0.0100) J	NA
Tin	ND(0.0300)	NA	ND(0.0300)	NA
Vanadium	ND(0.0500)	NA	ND(0.0500)	NA
Zinc	0.0140 B	NA	0.0140 B	NA
Inorganics-Filtered				
Antimony	ND(0.0600)	NA	ND(0.0600)	NA
Arsenic	ND(0.0100)	NA	ND(0.0100)	NA
Barium	0.150 B	NA	0.390	NA
Beryllium	ND(0.00100)	NA	ND(0.00100)	NA
Cadmium	ND(0.00500)	NA	ND(0.00500)	NA
Chromium	ND(0.010)	NA	ND(0.0075)	NA
Cobalt	ND(0.0500)	NA	ND(0.0500)	NA
Copper	ND(0.009)	NA	ND(0.009)	NA
Cyanide	ND(0.0100)	NA	0.00370 B	NA
Lead	ND(0.00300)	NA	ND(0.00300)	NA
Mercury	ND(0.000200)	NA	ND(0.000200)	NA
Nickel	ND(0.0400)	NA	0.00280 B	NA
Selenium	ND(0.00500)	NA	ND(0.00500)	NA
Silver	ND(0.00500)	NA	ND(0.00500)	NA
Thallium	ND(0.0100) J	NA	ND(0.0100) J	NA
Tin	ND(0.0300)	NA	ND(0.0300)	NA
Vanadium	ND(0.0500)	NA	ND(0.0500)	NA
Zinc	ND(0.020)	NA	ND(0.0200)	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04
Volatile Organics				
1,1,1,2-Tetrachloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J [ND(0.20) J]	ND(0.20) J	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	ND(0.010) J
2-Chloro-1,3-butadiene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
2-Hexanone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Acetone	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	ND(0.010)
Acetonitrile	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J [ND(0.10) J]	ND(0.10)	ND(0.10)	ND(0.10)
Acrylonitrile	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Benzene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020) J
Carbon Disulfide	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050) [ND(0.0050)]	0.0033 J	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J [ND(0.10) J]	ND(0.10) J	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methyl Methacrylate	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020) J
Toluene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050) [ND(0.0050)]	ND(0.0050)	ND(0.0050)	ND(0.0050)
Vinyl Acetate	ND(0.0050) [ND(0.0050)]	ND(0.0050) J	ND(0.0050) J	ND(0.0050)
Vinyl Chloride	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	ND(0.0020)
Xylenes (total)	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20) [ND(0.20)]	0.0033 J	ND(0.20)	ND(0.20)
PCBs-Unfiltered				
Aroclor-1016	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1221	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1232	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1242	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1248	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1254	0.000028 J [0.000027 J]	0.000029 J	0.000065	NA
Aroclor-1260	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Total PCBs	0.000028 J [0.000027 J]	0.000029 J	0.000065	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04
PCBs-Filtered				
Aroclor-1016	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1221	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1232	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1242	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1248	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Aroclor-1254	0.000024 J [0.000024 J]	ND(0.000065)	0.000039 J	NA
Aroclor-1260	ND(0.000065) [ND(0.000065)]	ND(0.000065)	ND(0.000065)	NA
Total PCBs	0.000024 J [0.000024 J]	ND(0.000065)	0.000039 J	NA
Semivolatile Organics				
1,2,4,5-Tetrachlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
1,2,4-Trichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.0050)
1,2-Dichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.0050)
1,2-Diphenylhydrazine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
1,3,5-Trinitrobenzene	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
1,3-Dichlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	ND(0.0050)
1,3-Dinitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
1,4-Dichlorobenzene	ND(0.010) [ND(0.010)]	0.0030 J	ND(0.010)	ND(0.0050)
1,4-Naphthoquinone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
1-Naphthylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,3,4,6-Tetrachlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,4,5-Trichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,4,6-Trichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,4-Dichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,4-Dimethylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,4-Dinitrophenol	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
2,4-Dinitrotoluene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,6-Dichlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2,6-Dinitrotoluene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Acetylaminofluorene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Chloronaphthalene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Chlorophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Methylnaphthalene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Methylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Naphthylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Nitroaniline	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
2-Nitrophenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
2-Picoline	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
3&4-Methylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
3,3'-Dichlorobenzidine	ND(0.020) [ND(0.020)]	ND(0.020) J	ND(0.020) J	NA
3,3'-Dimethylbenzidine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
3-Methylcholanthrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
3-Nitroaniline	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
4,6-Dinitro-2-methylphenol	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
4-Aminobiphenyl	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
4-Bromophenyl-phenylether	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
4-Chloro-3-Methylphenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
4-Chloroaniline	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
4-Chlorobenzilate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
4-Chlorophenol	NA	NA	NA	NA
4-Chlorophenyl-phenylether	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
4-Nitroaniline	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
4-Nitrophenol	ND(0.050) J [ND(0.050) J]	ND(0.050) J	ND(0.050) J	NA
4-Nitroquinoline-1-oxide	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
4-Phenylenediamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
5-Nitro-o-toluidine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
7,12-Dimethylbenz(a)anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
a,a'-Dimethylphenethylamine	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	NA
Acenaphthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Acenaphthylene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Acetophenone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Aniline	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Aramite	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)	NA
Benzidine	ND(0.020) J [ND(0.020) J]	ND(0.020) J	ND(0.020) J	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04
Semivolatile Organics (continued)				
Benzo(a)anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Benzo(a)pyrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Benzo(b)fluoranthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Benzo(g,h,i)perylene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Benzo(k)fluoranthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Benzyl Alcohol	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	NA
bis(2-Chloroethoxy)methane	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
bis(2-Chloroethyl)ether	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
bis(2-Chloroisopropyl)ether	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
bis(2-Ethylhexyl)phthalate	ND(0.0060) [ND(0.0060)]	ND(0.0060)	ND(0.0060)	NA
Butylbenzylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Chrysene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Diallate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Dibenzo(a,h)anthracene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Dibenzofuran	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Diethylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Dimethylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Di-n-Butylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Di-n-Octylphthalate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Diphenylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Ethyl Methanesulfonate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Fluoranthene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Fluorene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Hexachlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Hexachlorobutadiene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	NA
Hexachlorocyclopentadiene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Hexachloroethane	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Hexachlorophene	ND(0.020) [ND(0.020)]	ND(0.020)	ND(0.020)	NA
Hexachloropropene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Indeno(1,2,3-cd)pyrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Isodrin	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Isophorone	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Isosafrole	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Methapyrilene	ND(0.010) J [ND(0.010) J]	ND(0.010)	ND(0.010)	NA
Methyl Methanesulfonate	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Naphthalene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	0.0042 J
Nitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosodiethylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosodimethylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitroso-di-n-butylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitroso-di-n-propylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosodiphenylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosomethylethylamine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosomorpholine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosopiperidine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
N-Nitrosopyrrolidine	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	NA
o,o,o-Triethylphosphorothioate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
o-Toluidine	ND(0.010) [ND(0.010)]	ND(0.010) J	ND(0.010) J	NA
p-Dimethylaminoazobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Pentachlorobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Pentachloroethane	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Pentachloronitrobenzene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Pentachlorophenol	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
Phenacetin	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Phenanthrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Phenol	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Pronamide	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Pyrene	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Pyridine	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Safrole	ND(0.010) J [ND(0.010) J]	ND(0.010) J	ND(0.010) J	NA
Thionazin	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04
Organochlorine Pesticides				
4,4'-DDD	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
4,4'-DDE	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
4,4'-DDT	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Aldrin	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Alpha-BHC	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Alpha-Chlordane	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Beta-BHC	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Delta-BHC	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Dieldrin	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endosulfan I	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endosulfan II	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endosulfan Sulfate	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endrin	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endrin Aldehyde	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Endrin Ketone	ND(0.00010) [ND(0.00010)]	ND(0.00010)	ND(0.00010)	NA
Gamma-BHC (Lindane)	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Gamma-Chlordane	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Heptachlor	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Heptachlor Epoxide	ND(0.000050) [ND(0.000050)]	ND(0.000050)	ND(0.000050)	NA
Kepone	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
Methoxychlor	ND(0.00050) [ND(0.00050)]	ND(0.00050)	ND(0.00050)	NA
Technical Chlordane	ND(0.00050) [ND(0.00050)]	ND(0.00050)	ND(0.00050)	NA
Toxaphene	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	NA
Organophosphate Pesticides				
Dimethoate	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
Disulfoton	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Ethyl Parathion	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Famphur	ND(0.050) [ND(0.050)]	ND(0.050)	ND(0.050)	NA
Methyl Parathion	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Phorate	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Sulfotep	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Herbicides				
2,4,5-T	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	NA
2,4,5-TP	ND(0.0020) [ND(0.0020)]	ND(0.0020)	ND(0.0020)	NA
2,4-D	ND(0.010) [ND(0.010)]	ND(0.010)	ND(0.010)	NA
Dinoseb	ND(0.0010) [ND(0.0010)]	ND(0.0010)	ND(0.0010)	NA
Furans				
2,3,7,8-TCDF	ND(0.0000000024) [ND(0.0000000025)]	ND(0.0000000020)	ND(0.0000000022)	NA
TCDFs (total)	ND(0.0000000024) [ND(0.0000000025)]	ND(0.0000000020)	ND(0.0000000022)	NA
1,2,3,7,8-PeCDF	ND(0.0000000038) [ND(0.0000000042)]	ND(0.0000000031)	ND(0.0000000032)	NA
2,3,4,7,8-PeCDF	ND(0.0000000037) [ND(0.0000000041)]	ND(0.0000000030)	ND(0.0000000031)	NA
PeCDFs (total)	ND(0.0000000038) [ND(0.0000000042)]	ND(0.0000000031)	ND(0.0000000032)	NA
1,2,3,4,7,8-HxCDF	ND(0.0000000041) [ND(0.0000000033)]	ND(0.0000000033)	ND(0.0000000028)	NA
1,2,3,6,7,8-HxCDF	ND(0.0000000039) [ND(0.0000000031)]	ND(0.0000000031)	ND(0.0000000027)	NA
1,2,3,7,8,9-HxCDF	ND(0.0000000048) [ND(0.0000000039)]	ND(0.0000000039)	ND(0.0000000034)	NA
2,3,4,6,7,8-HxCDF	ND(0.0000000042) [ND(0.0000000034)]	ND(0.0000000034)	ND(0.0000000030)	NA
HxCDFs (total)	ND(0.0000000048) [ND(0.0000000039)]	ND(0.0000000039)	ND(0.0000000034)	NA
1,2,3,4,6,7,8-HpCDF	ND(0.0000000030) [ND(0.0000000030)]	ND(0.0000000024)	ND(0.0000000020)	NA
1,2,3,4,7,8,9-HpCDF	ND(0.0000000037) [ND(0.0000000036)]	ND(0.0000000030)	ND(0.0000000025)	NA
HpCDFs (total)	ND(0.0000000037) [ND(0.0000000036)]	ND(0.0000000030)	ND(0.0000000025)	NA
OCDF	ND(0.0000000063) [ND(0.0000000058)]	ND(0.0000000048)	ND(0.0000000051)	NA
Dioxins				
2,3,7,8-TCDD	ND(0.0000000030) [ND(0.0000000029)]	ND(0.0000000031)	ND(0.0000000031)	NA
TCDDs (total)	ND(0.0000000030) [ND(0.0000000029)]	ND(0.0000000031)	ND(0.0000000031)	NA
1,2,3,7,8-PeCDD	ND(0.0000000055) [ND(0.0000000059)]	ND(0.0000000059)	ND(0.0000000056)	NA
PeCDDs (total)	ND(0.0000000055) [ND(0.0000000059)]	ND(0.0000000059)	ND(0.0000000056)	NA
1,2,3,4,7,8-HxCDD	ND(0.0000000047) [ND(0.0000000045)]	ND(0.0000000040)	ND(0.0000000036)	NA
1,2,3,6,7,8-HxCDD	ND(0.0000000042) [ND(0.0000000040)]	ND(0.0000000036)	ND(0.0000000032)	NA
1,2,3,7,8,9-HxCDD	ND(0.0000000043) [ND(0.0000000041)]	ND(0.0000000037)	ND(0.0000000033)	NA
HxCDDs (total)	ND(0.0000000047) [ND(0.0000000045)]	ND(0.0000000040)	ND(0.0000000036)	NA
1,2,3,4,6,7,8-HpCDD	ND(0.0000000050) [ND(0.0000000044)]	ND(0.0000000035)	ND(0.0000000039)	NA
HpCDDs (total)	ND(0.0000000050) [ND(0.0000000044)]	ND(0.0000000035)	ND(0.0000000039)	NA
OCDD	ND(0.000000013) [ND(0.0000000045)]	ND(0.0000000045)	ND(0.0000000044)	NA
Total TEQs (WHO TEFs)	0.0000000070 [0.0000000070]	0.0000000067	0.0000000065	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-5 10/07/04	GMA3-6 10/07/04	GMA3-7 10/08/04	GMA3-8 10/21/04
Inorganics-Unfiltered				
Antimony	ND(0.0600) [ND(0.0600)]	ND(0.0600)	ND(0.0600)	NA
Arsenic	ND(0.0100) [ND(0.0100)]	0.00530 B	ND(0.0100)	NA
Barium	0.0430 B [0.0430 B]	0.300	0.0860 B	NA
Beryllium	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00100)	NA
Cadmium	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Chromium	ND(0.0100) [ND(0.0100)]	ND(0.0100)	0.00330 B	NA
Cobalt	0.00120 B [0.00160 B]	ND(0.0500)	ND(0.0500)	NA
Copper	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)	NA
Cyanide	ND(0.0100) [ND(0.0100)]	ND(0.010)	ND(0.0100)	NA
Lead	ND(0.00300) [ND(0.00300)]	ND(0.00300)	ND(0.00300)	NA
Mercury	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)	NA
Nickel	0.00200 B [0.00210 B]	ND(0.0400)	ND(0.0400)	NA
Selenium	ND(0.00500) J [ND(0.00500) J]	ND(0.00500) J	ND(0.00500) J	NA
Silver	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Sulfide	ND(5.00) [ND(5.00)]	ND(5.00)	ND(5.00)	NA
Thallium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J	NA
Tin	ND(0.0300) [ND(0.0300)]	ND(0.0300)	ND(0.0300)	NA
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Zinc	0.0150 B [0.0150 B]	0.0130 J	0.0180 J	NA
Inorganics-Filtered				
Antimony	ND(0.0600) [ND(0.0600)]	ND(0.0600)	ND(0.0600)	NA
Arsenic	ND(0.0100) [ND(0.0100)]	0.00490 B	ND(0.0100)	NA
Barium	0.0460 B [0.0450 B]	0.290	0.0970 B	NA
Beryllium	ND(0.00100) [ND(0.00100)]	ND(0.00100)	ND(0.00100)	NA
Cadmium	ND(0.00500) [ND(0.00500)]	ND(0.00500)	ND(0.00500)	NA
Chromium	ND(0.0100) [ND(0.0100)]	ND(0.0100)	0.00180 B	NA
Cobalt	0.00150 B [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Copper	ND(0.0250) [ND(0.0250)]	ND(0.0250)	ND(0.0250)	NA
Cyanide	ND(0.0100) [ND(0.0100)]	ND(0.010)	ND(0.0100)	NA
Lead	ND(0.00300) [ND(0.00300)]	ND(0.00300)	ND(0.00300)	NA
Mercury	ND(0.000200) [ND(0.000200)]	ND(0.000200)	ND(0.000200)	NA
Nickel	0.00250 B [0.00350 B]	ND(0.0400)	0.00150 B	NA
Selenium	ND(0.00500) J [ND(0.00500) J]	ND(0.00500) J	ND(0.00500) J	NA
Silver	ND(0.00500) [0.00100 B]	0.00160 B	0.00110 B	NA
Thallium	ND(0.0100) J [ND(0.0100) J]	ND(0.0100) J	ND(0.0100) J	NA
Tin	ND(0.0300) [ND(0.0300)]	ND(0.0300)	ND(0.0300)	NA
Vanadium	ND(0.0500) [ND(0.0500)]	ND(0.0500)	ND(0.0500)	NA
Zinc	ND(0.020) [ND(0.020)]	ND(0.0200) J	ND(0.020) J	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-9 10/15/04	OBG-2 10/08/04
Volatile Organics		
1,1,1,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)
1,1,1-Trichloroethane	ND(0.0050)	ND(0.0050)
1,1,2,2-Tetrachloroethane	ND(0.0050)	ND(0.0050)
1,1,2-Trichloroethane	ND(0.0050)	ND(0.0050)
1,1-Dichloroethane	ND(0.0050)	ND(0.0050)
1,1-Dichloroethene	ND(0.0010)	ND(0.0010)
1,2,3-Trichloropropane	ND(0.0050)	ND(0.0050)
1,2-Dibromo-3-chloropropane	ND(0.0050)	ND(0.0050)
1,2-Dibromoethane	ND(0.0010)	ND(0.0010)
1,2-Dichloroethane	ND(0.0050)	ND(0.0050)
1,2-Dichloropropane	ND(0.0050)	ND(0.0050)
1,4-Dioxane	ND(0.20) J	ND(0.20) J
2-Butanone	ND(0.010) J	ND(0.010) J
2-Chloro-1,3-butadiene	ND(0.0050)	ND(0.0050)
2-Chloroethylvinylether	ND(0.0050)	ND(0.0050)
2-Hexanone	ND(0.010)	ND(0.010)
3-Chloropropene	ND(0.0050)	ND(0.0050)
4-Methyl-2-pentanone	ND(0.010)	ND(0.010)
Acetone	ND(0.010)	ND(0.010) J
Acetonitrile	ND(0.10) J	ND(0.10) J
Acrolein	ND(0.10) J	ND(0.10)
Acrylonitrile	ND(0.0050) J	ND(0.0050)
Benzene	ND(0.0050)	ND(0.0050)
Bromodichloromethane	ND(0.0050)	ND(0.0050)
Bromoform	ND(0.0050)	ND(0.0050)
Bromomethane	ND(0.0020)	ND(0.0020)
Carbon Disulfide	ND(0.0050)	ND(0.0050)
Carbon Tetrachloride	ND(0.0050)	ND(0.0050)
Chlorobenzene	ND(0.0050)	ND(0.0050)
Chloroethane	ND(0.0050)	ND(0.0050)
Chloroform	ND(0.0050)	ND(0.0050)
Chloromethane	ND(0.0050)	ND(0.0050)
cis-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)
Dibromochloromethane	ND(0.0050)	ND(0.0050)
Dibromomethane	ND(0.0050)	ND(0.0050)
Dichlorodifluoromethane	ND(0.0050)	ND(0.0050)
Ethyl Methacrylate	ND(0.0050)	ND(0.0050)
Ethylbenzene	ND(0.0050)	ND(0.0050)
Iodomethane	ND(0.0050)	ND(0.0050)
Isobutanol	ND(0.10) J	ND(0.10) J
Methacrylonitrile	ND(0.0050) J	ND(0.0050)
Methyl Methacrylate	ND(0.0050)	ND(0.0050)
Methylene Chloride	ND(0.0050)	ND(0.0050)
Propionitrile	ND(0.010) J	ND(0.010) J
Styrene	ND(0.0050)	ND(0.0050)
Tetrachloroethene	ND(0.0020) J	ND(0.0020)
Toluene	ND(0.0050)	ND(0.0050)
trans-1,2-Dichloroethene	ND(0.0050)	ND(0.0050)
trans-1,3-Dichloropropene	ND(0.0050)	ND(0.0050)
trans-1,4-Dichloro-2-butene	ND(0.0050)	ND(0.0050)
Trichloroethene	ND(0.0050)	ND(0.0050)
Trichlorofluoromethane	ND(0.0050) J	ND(0.0050)
Vinyl Acetate	ND(0.0050)	ND(0.0050) J
Vinyl Chloride	ND(0.0020)	ND(0.0020)
Xylenes (total)	ND(0.010)	ND(0.010)
Total VOCs	ND(0.20)	ND(0.20)
PCBs-Unfiltered		
Aroclor-1016	NA	NA
Aroclor-1221	NA	NA
Aroclor-1232	NA	NA
Aroclor-1242	NA	NA
Aroclor-1248	NA	NA
Aroclor-1254	NA	NA
Aroclor-1260	NA	NA
Total PCBs	NA	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-9 10/15/04	OBG-2 10/08/04
PCBs-Filtered		
Aroclor-1016	NA	NA
Aroclor-1221	NA	NA
Aroclor-1232	NA	NA
Aroclor-1242	NA	NA
Aroclor-1248	NA	NA
Aroclor-1254	NA	NA
Aroclor-1260	NA	NA
Total PCBs	NA	NA
Semivolatile Organics		
1,2,4,5-Tetrachlorobenzene	NA	NA
1,2,4-Trichlorobenzene	ND(0.0050)	ND(0.0050)
1,2-Dichlorobenzene	ND(0.0050)	ND(0.0050)
1,2-Diphenylhydrazine	NA	NA
1,3,5-Trinitrobenzene	NA	NA
1,3-Dichlorobenzene	ND(0.0050)	ND(0.0050)
1,3-Dinitrobenzene	NA	NA
1,4-Dichlorobenzene	ND(0.0050)	ND(0.0050)
1,4-Naphthoquinone	NA	NA
1-Naphthylamine	NA	NA
2,3,4,6-Tetrachlorophenol	NA	NA
2,4,5-Trichlorophenol	NA	NA
2,4,6-Trichlorophenol	NA	NA
2,4-Dichlorophenol	NA	NA
2,4-Dimethylphenol	NA	NA
2,4-Dinitrophenol	NA	NA
2,4-Dinitrotoluene	NA	NA
2,6-Dichlorophenol	NA	NA
2,6-Dinitrotoluene	NA	NA
2-Acetylaminofluorene	NA	NA
2-Chloronaphthalene	NA	NA
2-Chlorophenol	NA	NA
2-Methylnaphthalene	NA	NA
2-Methylphenol	NA	NA
2-Naphthylamine	NA	NA
2-Nitroaniline	NA	NA
2-Nitrophenol	NA	NA
2-Picoline	NA	NA
3&4-Methylphenol	NA	NA
3,3'-Dichlorobenzidine	NA	NA
3,3'-Dimethylbenzidine	NA	NA
3-Methylcholanthrene	NA	NA
3-Nitroaniline	NA	NA
4,6-Dinitro-2-methylphenol	NA	NA
4-Aminobiphenyl	NA	NA
4-Bromophenyl-phenylether	NA	NA
4-Chloro-3-Methylphenol	NA	NA
4-Chloroaniline	NA	NA
4-Chlorobenzilate	NA	NA
4-Chlorophenol	NA	NA
4-Chlorophenyl-phenylether	NA	NA
4-Nitroaniline	NA	NA
4-Nitrophenol	NA	NA
4-Nitroquinoline-1-oxide	NA	NA
4-Phenylenediamine	NA	NA
5-Nitro-o-toluidine	NA	NA
7,12-Dimethylbenz(a)anthracene	NA	NA
a,a'-Dimethylphenethylamine	NA	NA
Acenaphthene	NA	NA
Acenaphthylene	NA	NA
Acetophenone	NA	NA
Aniline	NA	NA
Anthracene	NA	NA
Aramite	NA	NA
Benzidine	NA	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-9 10/15/04	OBG-2 10/08/04
Semivolatile Organics (continued)		
Benzo(a)anthracene	NA	NA
Benzo(a)pyrene	NA	NA
Benzo(b)fluoranthene	NA	NA
Benzo(g,h,i)perylene	NA	NA
Benzo(k)fluoranthene	NA	NA
Benzyl Alcohol	NA	NA
bis(2-Chloroethoxy)methane	NA	NA
bis(2-Chloroethyl)ether	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA
Butylbenzylphthalate	NA	NA
Chrysene	NA	NA
Diallate	NA	NA
Dibenzo(a,h)anthracene	NA	NA
Dibenzofuran	NA	NA
Diethylphthalate	NA	NA
Dimethylphthalate	NA	NA
Di-n-Butylphthalate	NA	NA
Di-n-Octylphthalate	NA	NA
Diphenylamine	NA	NA
Ethyl Methanesulfonate	NA	NA
Fluoranthene	NA	NA
Fluorene	NA	NA
Hexachlorobenzene	NA	NA
Hexachlorobutadiene	NA	NA
Hexachlorocyclopentadiene	NA	NA
Hexachloroethane	NA	NA
Hexachlorophene	NA	NA
Hexachloropropene	NA	NA
Indeno(1,2,3-cd)pyrene	NA	NA
Isodrin	NA	NA
Isophorone	NA	NA
Isosafrole	NA	NA
Methapyrilene	NA	NA
Methyl Methanesulfonate	NA	NA
Naphthalene	ND(0.0050)	ND(0.0050)
Nitrobenzene	NA	NA
N-Nitrosodiethylamine	NA	NA
N-Nitrosodimethylamine	NA	NA
N-Nitroso-di-n-butylamine	NA	NA
N-Nitroso-di-n-propylamine	NA	NA
N-Nitrosodiphenylamine	NA	NA
N-Nitrosomethylethylamine	NA	NA
N-Nitrosomorpholine	NA	NA
N-Nitrosopiperidine	NA	NA
N-Nitrosopyrrolidine	NA	NA
o,o,o-Triethylphosphorothioate	NA	NA
o-Toluidine	NA	NA
p-Dimethylaminoazobenzene	NA	NA
Pentachlorobenzene	NA	NA
Pentachloroethane	NA	NA
Pentachloronitrobenzene	NA	NA
Pentachlorophenol	NA	NA
Phenacetin	NA	NA
Phenanthrene	NA	NA
Phenol	NA	NA
Pronamide	NA	NA
Pyrene	NA	NA
Pyridine	NA	NA
Safrole	NA	NA
Thionazin	NA	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-9 10/15/04	OBG-2 10/08/04
Organochlorine Pesticides		
4,4'-DDD	NA	NA
4,4'-DDE	NA	NA
4,4'-DDT	NA	NA
Aldrin	NA	NA
Alpha-BHC	NA	NA
Alpha-Chlordane	NA	NA
Beta-BHC	NA	NA
Delta-BHC	NA	NA
Dieldrin	NA	NA
Endosulfan I	NA	NA
Endosulfan II	NA	NA
Endosulfan Sulfate	NA	NA
Endrin	NA	NA
Endrin Aldehyde	NA	NA
Endrin Ketone	NA	NA
Gamma-BHC (Lindane)	NA	NA
Gamma-Chlordane	NA	NA
Heptachlor	NA	NA
Heptachlor Epoxide	NA	NA
Kepone	NA	NA
Methoxychlor	NA	NA
Technical Chlordane	NA	NA
Toxaphene	NA	NA
Organophosphate Pesticides		
Dimethoate	NA	NA
Disulfoton	NA	NA
Ethyl Parathion	NA	NA
Famphur	NA	NA
Methyl Parathion	NA	NA
Phorate	NA	NA
Sulfotep	NA	NA
Herbicides		
2,4,5-T	NA	NA
2,4,5-TP	NA	NA
2,4-D	NA	NA
Dinoseb	NA	NA
Furans		
2,3,7,8-TCDF	NA	NA
TCDFs (total)	NA	NA
1,2,3,7,8-PeCDF	NA	NA
2,3,4,7,8-PeCDF	NA	NA
PeCDFs (total)	NA	NA
1,2,3,4,7,8-HxCDF	NA	NA
1,2,3,6,7,8-HxCDF	NA	NA
1,2,3,7,8,9-HxCDF	NA	NA
2,3,4,6,7,8-HxCDF	NA	NA
HxCDFs (total)	NA	NA
1,2,3,4,6,7,8-HpCDF	NA	NA
1,2,3,4,7,8,9-HpCDF	NA	NA
HpCDFs (total)	NA	NA
OCDF	NA	NA
Dioxins		
2,3,7,8-TCDD	NA	NA
TCDDs (total)	NA	NA
1,2,3,7,8-PeCDD	NA	NA
PeCDDs (total)	NA	NA
1,2,3,4,7,8-HxCDD	NA	NA
1,2,3,6,7,8-HxCDD	NA	NA
1,2,3,7,8,9-HxCDD	NA	NA
HxCDDs (total)	NA	NA
1,2,3,4,6,7,8-HpCDD	NA	NA
HpCDDs (total)	NA	NA
OCDD	NA	NA
Total TEQs (WHO TEFs)	NA	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Parameter / Sample ID: / Date Collected:	GMA3-9 10/15/04	OBG-2 10/08/04
Inorganics-Unfiltered		
Antimony	NA	NA
Arsenic	NA	NA
Barium	NA	NA
Beryllium	NA	NA
Cadmium	NA	NA
Chromium	NA	NA
Cobalt	NA	NA
Copper	NA	NA
Cyanide	NA	NA
Lead	NA	NA
Mercury	NA	NA
Nickel	NA	NA
Selenium	NA	NA
Silver	NA	NA
Sulfide	NA	NA
Thallium	NA	NA
Tin	NA	NA
Vanadium	NA	NA
Zinc	NA	NA
Inorganics-Filtered		
Antimony	NA	NA
Arsenic	NA	NA
Barium	NA	NA
Beryllium	NA	NA
Cadmium	NA	NA
Chromium	NA	NA
Cobalt	NA	NA
Copper	NA	NA
Cyanide	NA	NA
Lead	NA	NA
Mercury	NA	NA
Nickel	NA	NA
Selenium	NA	NA
Silver	NA	NA
Thallium	NA	NA
Tin	NA	NA
Vanadium	NA	NA
Zinc	NA	NA

TABLE D-1
FALL 2004 GROUNDWATER ANALYTICAL RESULTS

BASELINE GROUNDWATER QUALITY AND NAPL MONITORING INTERIM REPORT FOR FALL 2004
GROUNDWATER MANAGEMENT AREA 3
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 SGS 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 (FSP/QAPP), General Electric Company, Pittsfield, Massachusetts, Blasland Bouck & Lee, Inc. (approved May 29, 2004 and resubmitted June 19, 2004).
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, pesticides, herbicides, dioxin/furans)

J - Indicates that the associated numerical value is an estimated concentration.
R - Data was rejected due to a deficiency in the data generation process.

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 E

Historical Groundwater Data

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

Historical Groundwater Data

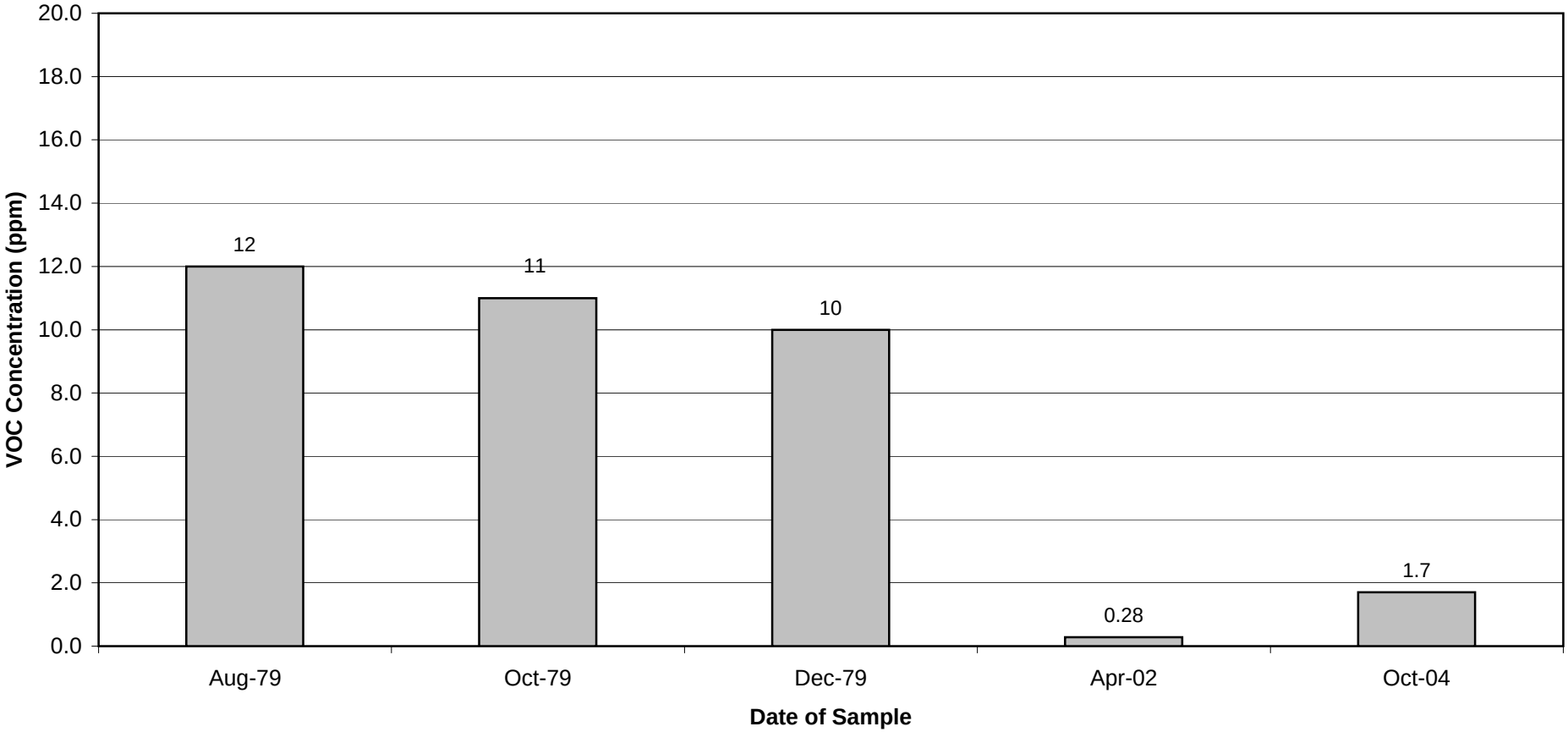
Total VOC Concentrations – Wells Sampled in Fall 2004

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

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

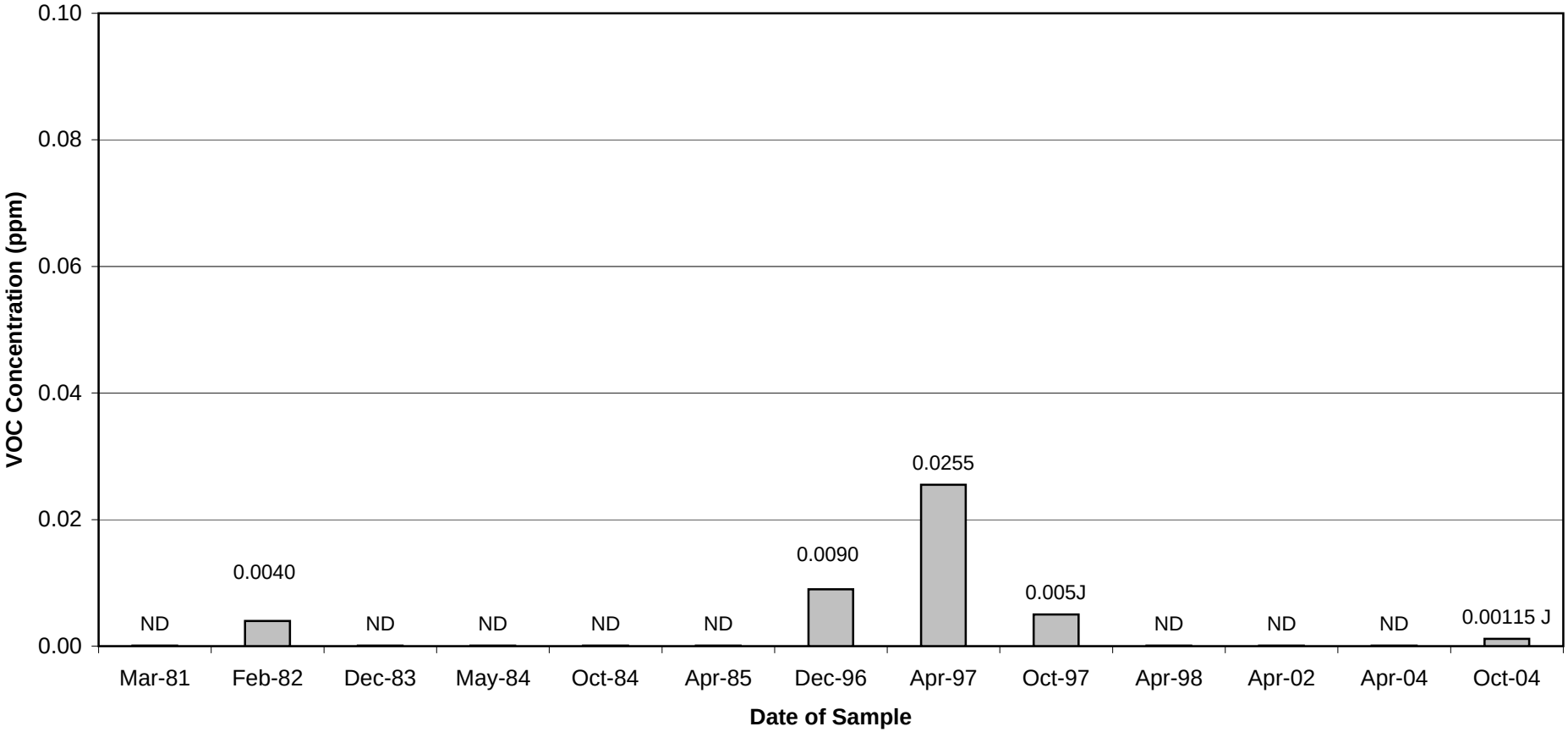
Well 6B/6B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

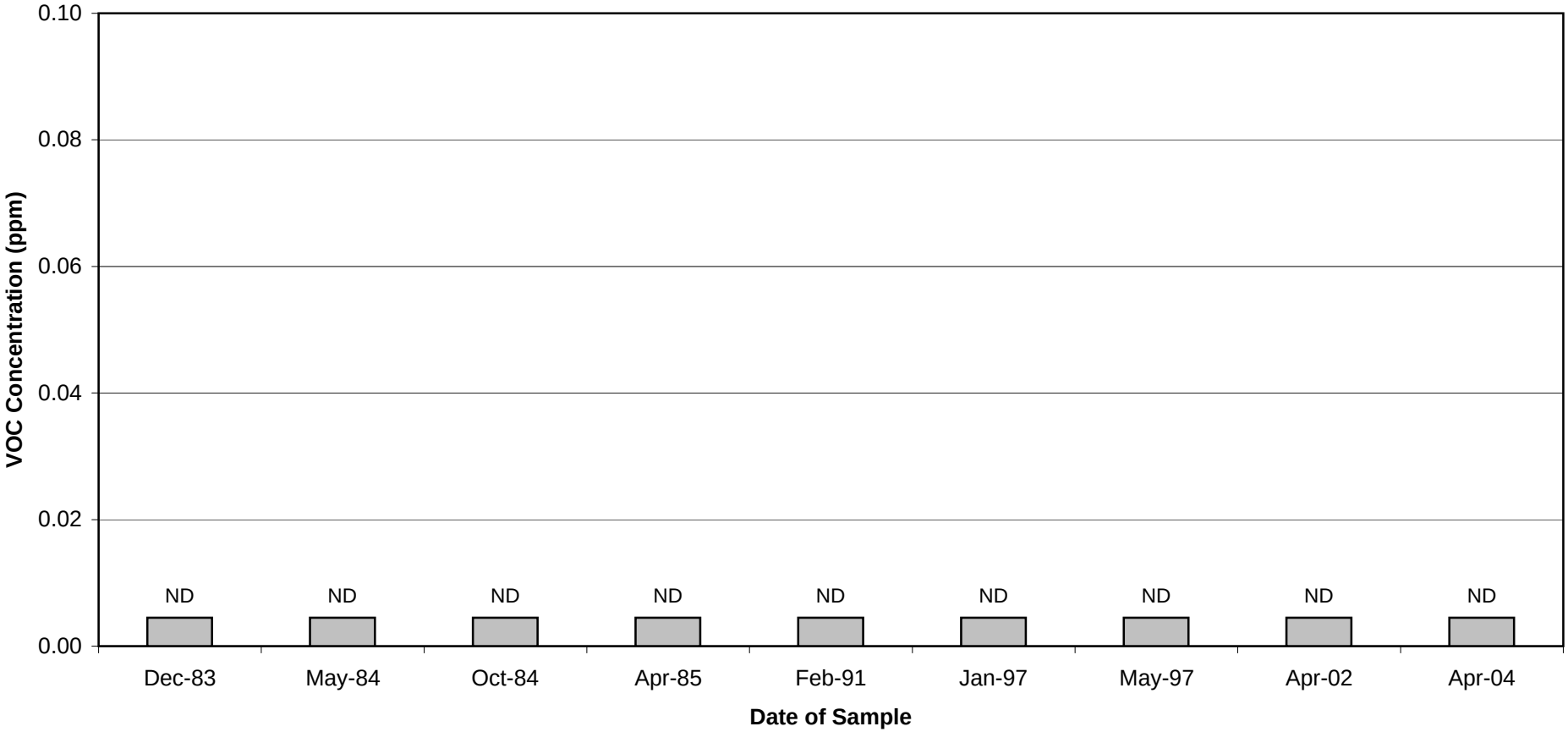
Well 16B/16B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric - Pittsfield, Massachusetts

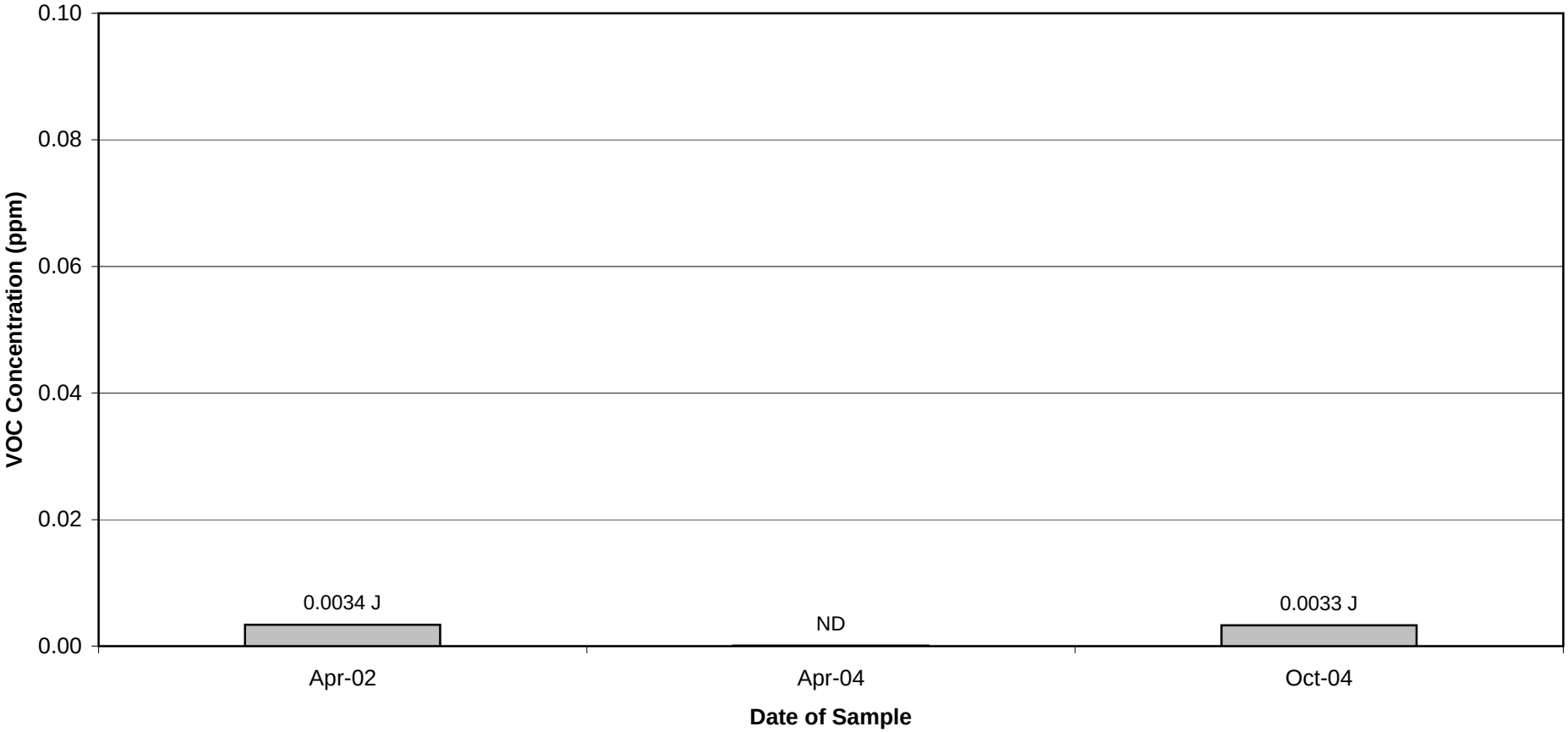
Well 43B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

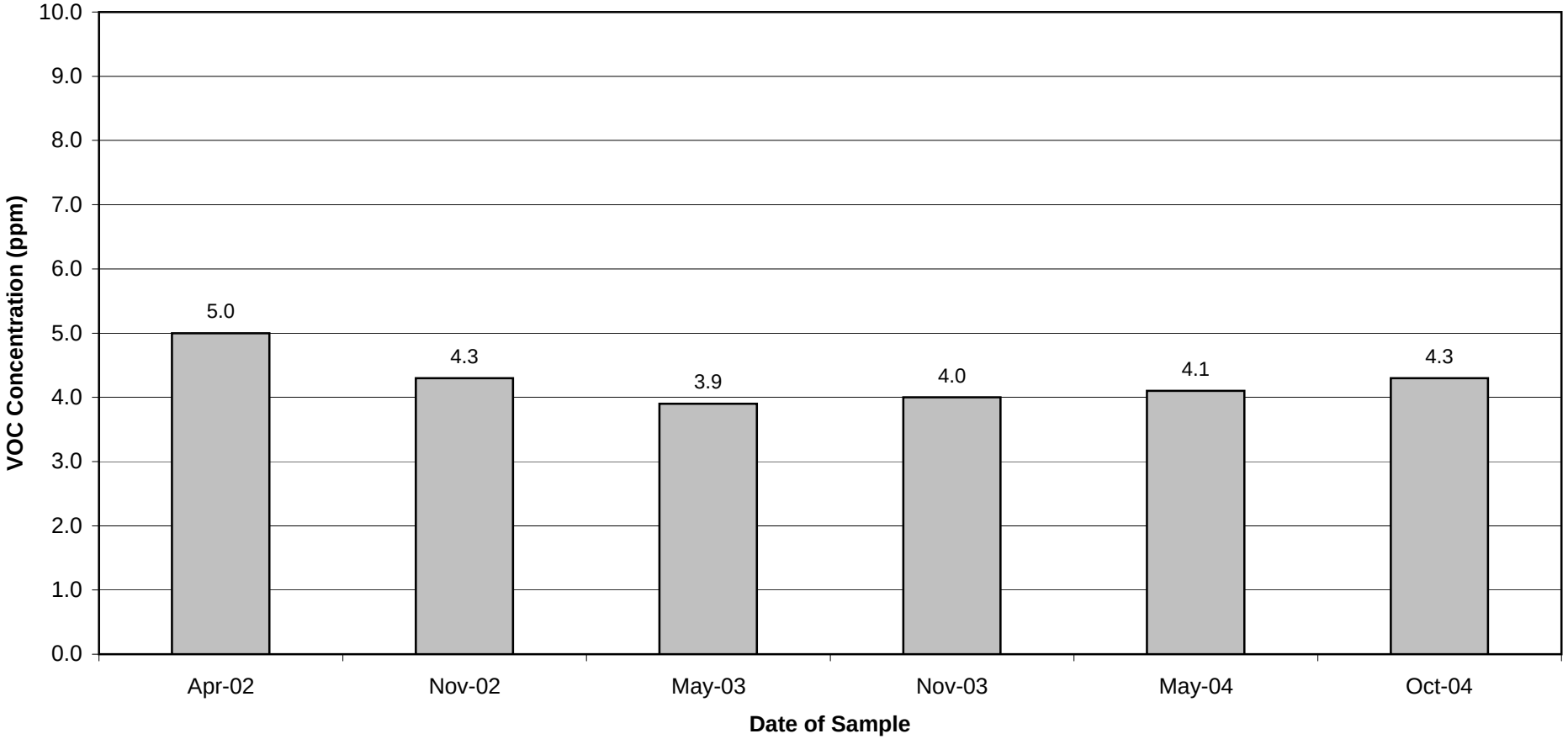
Well 51-14 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

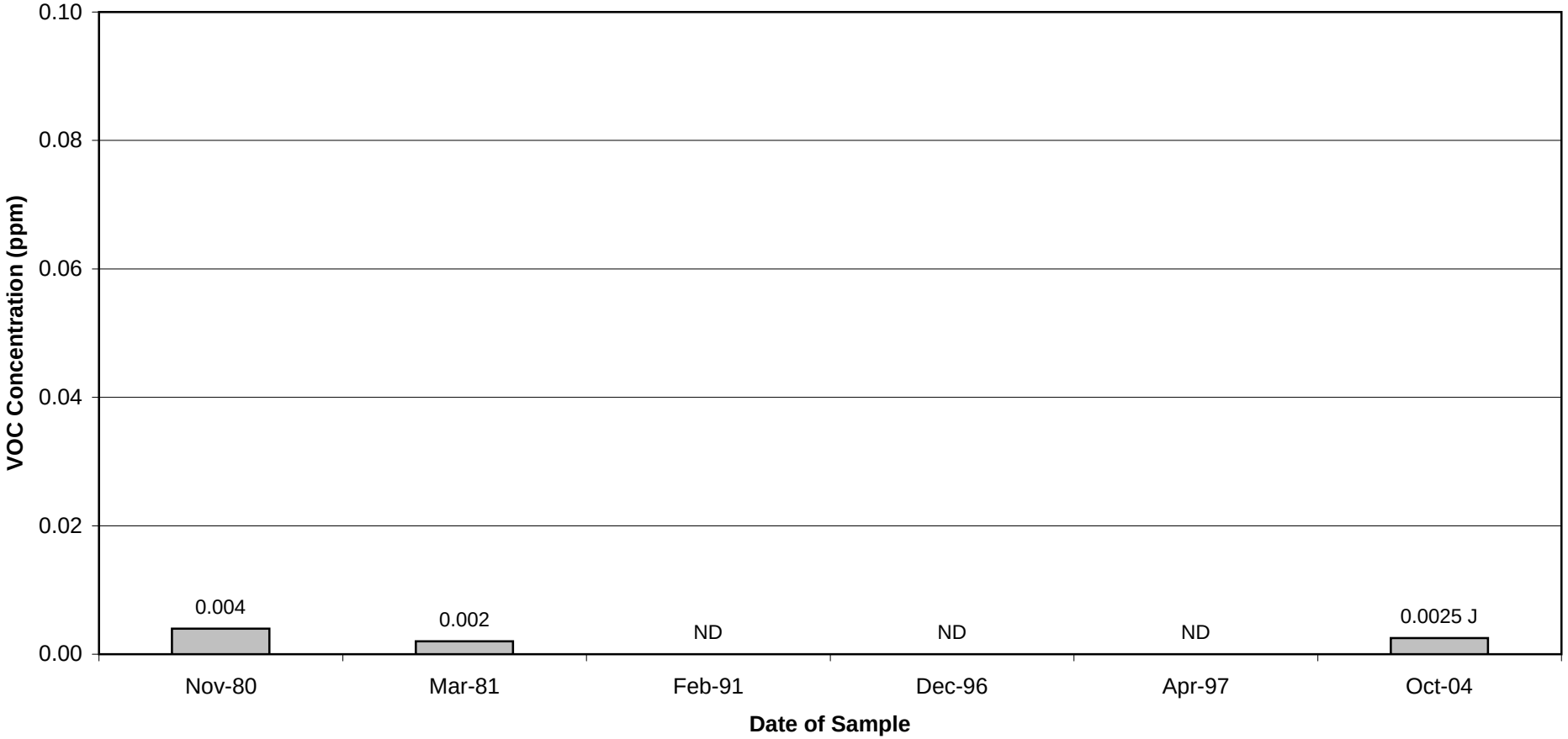
Well 78B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

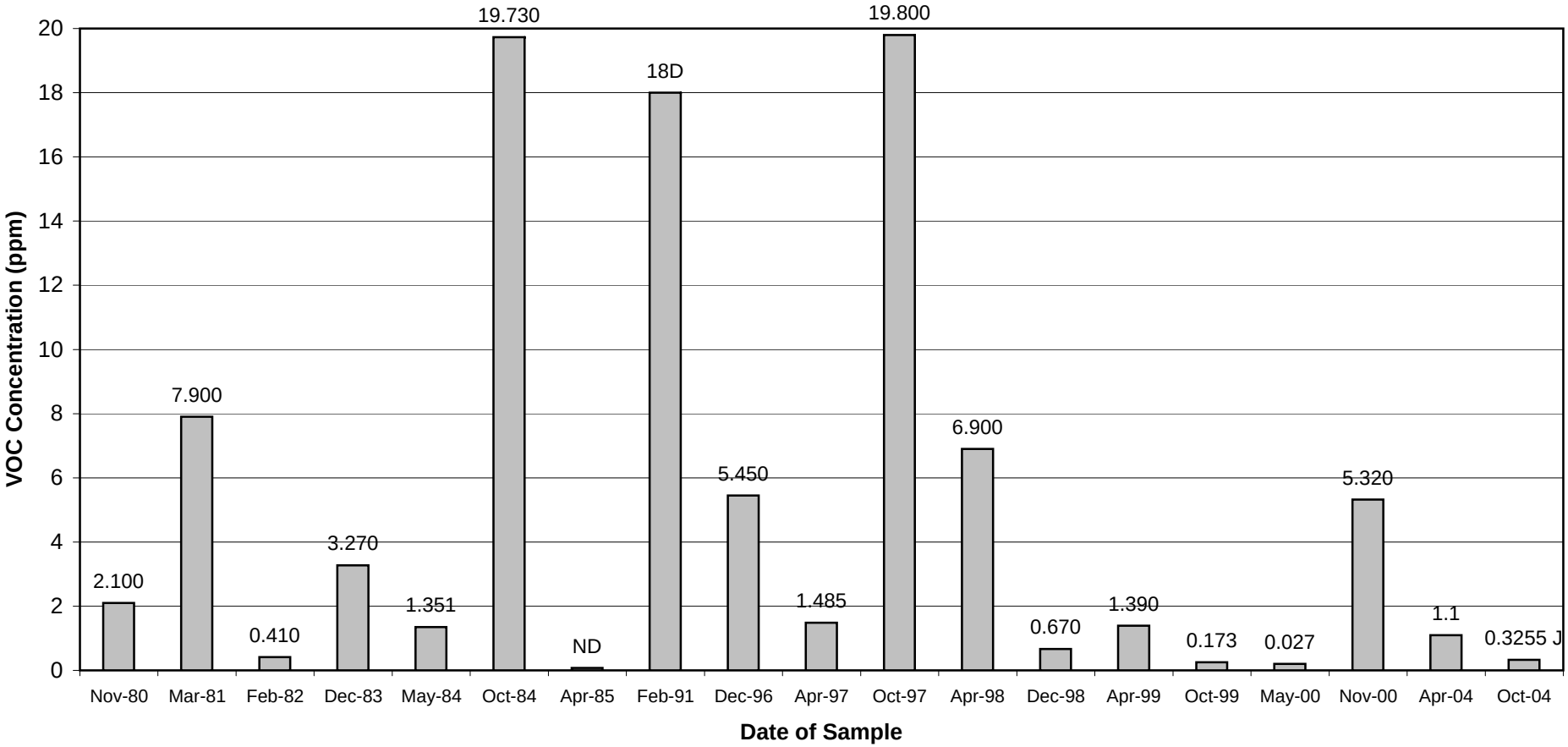
Well 82B/82B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

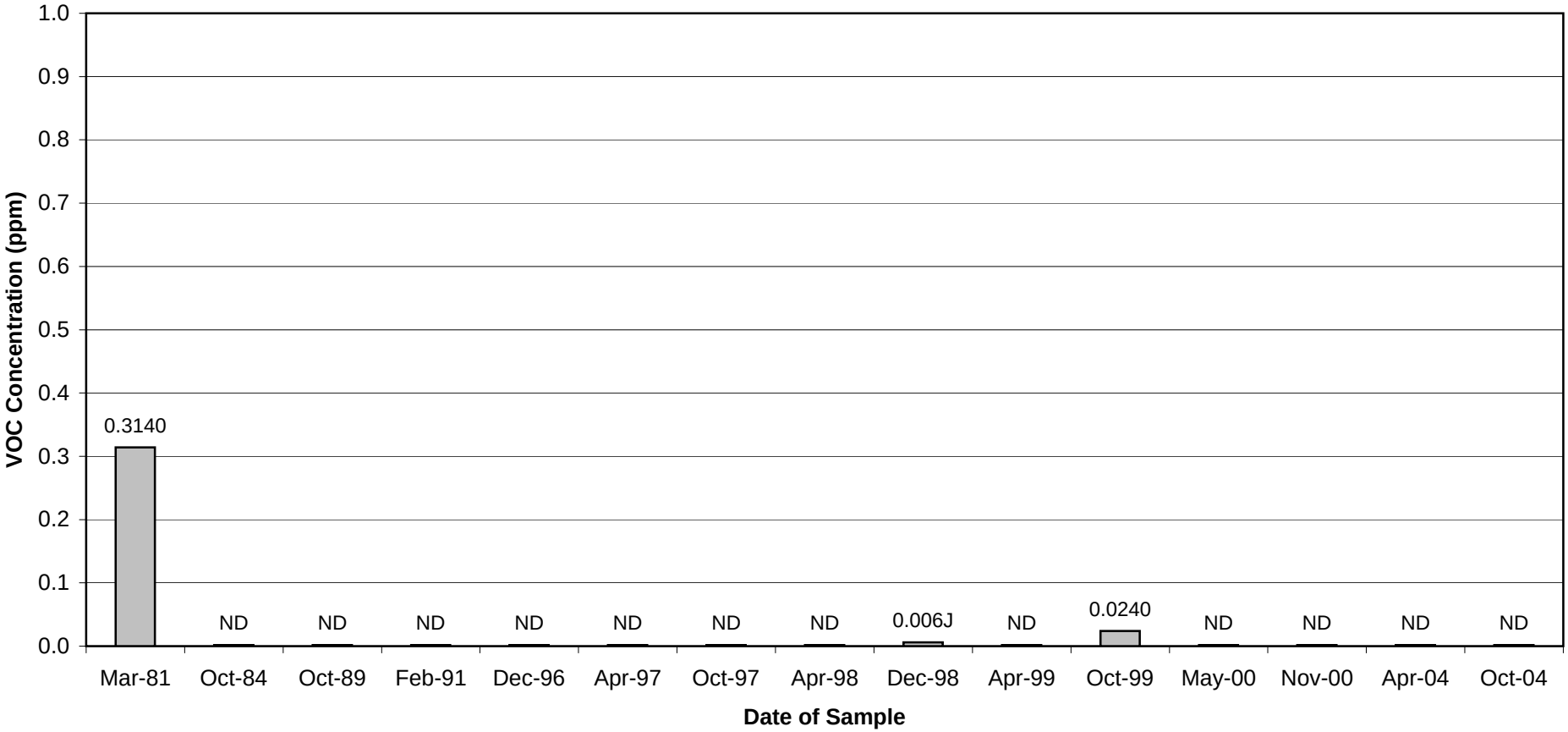
Well 89B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

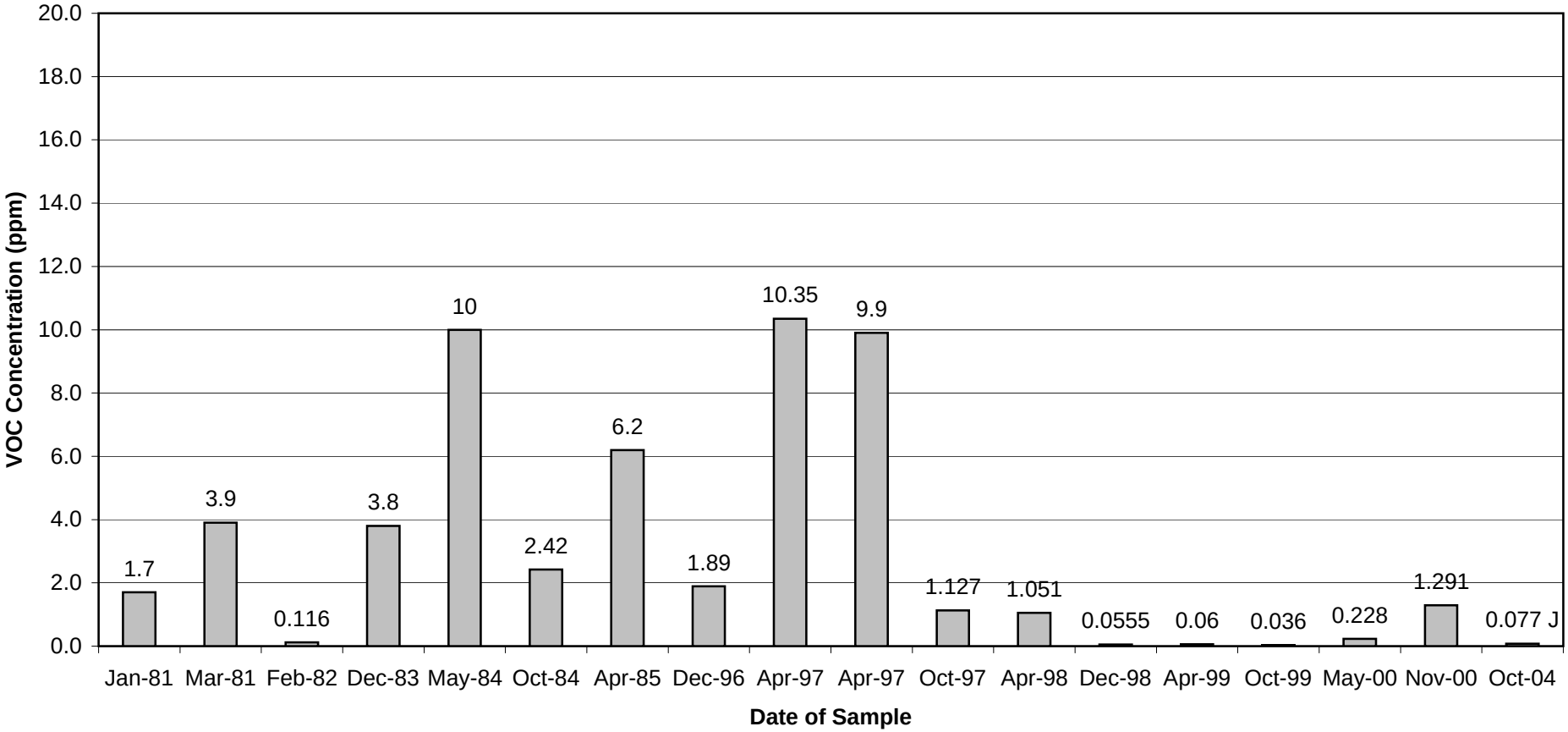
Well 90B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

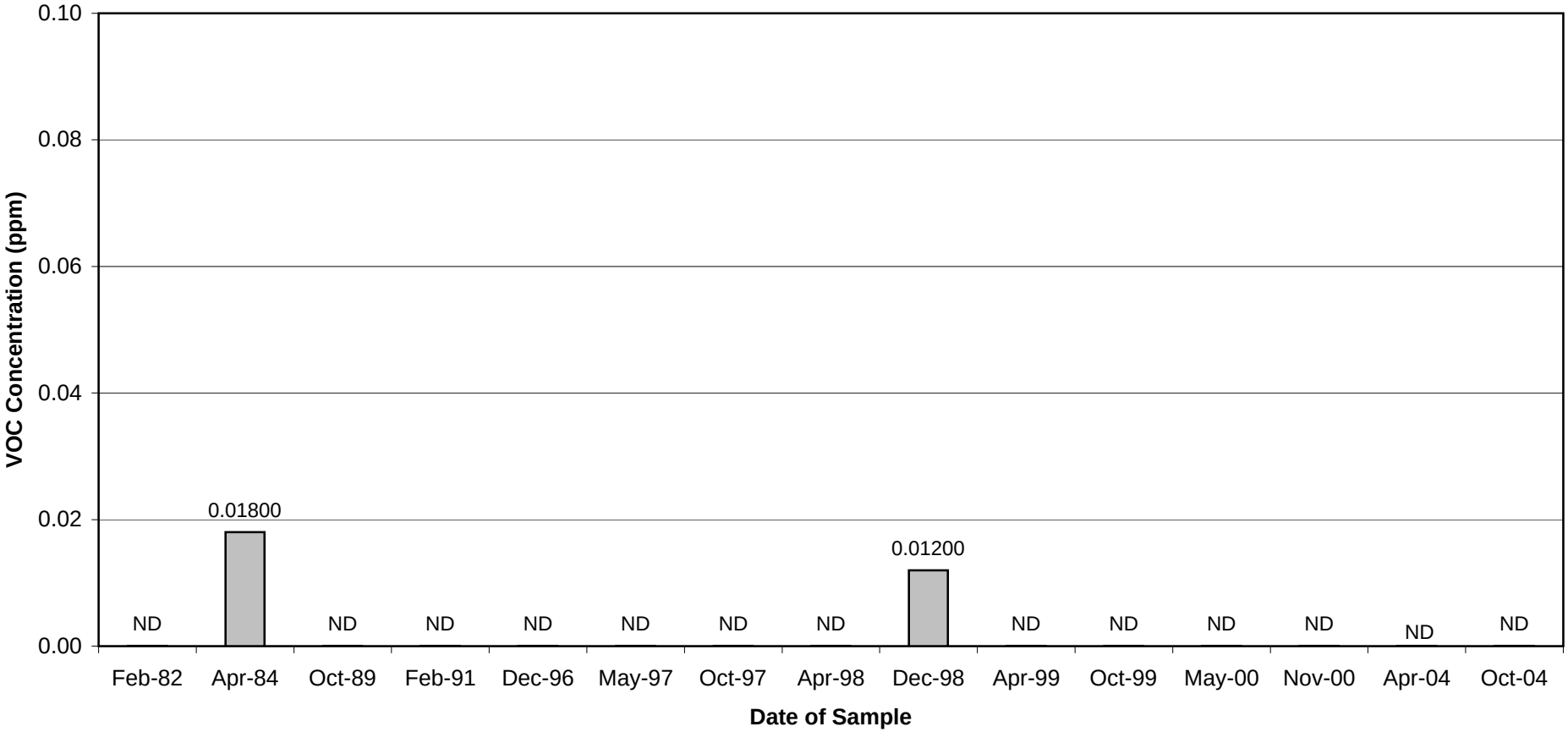
Well 95B/95B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

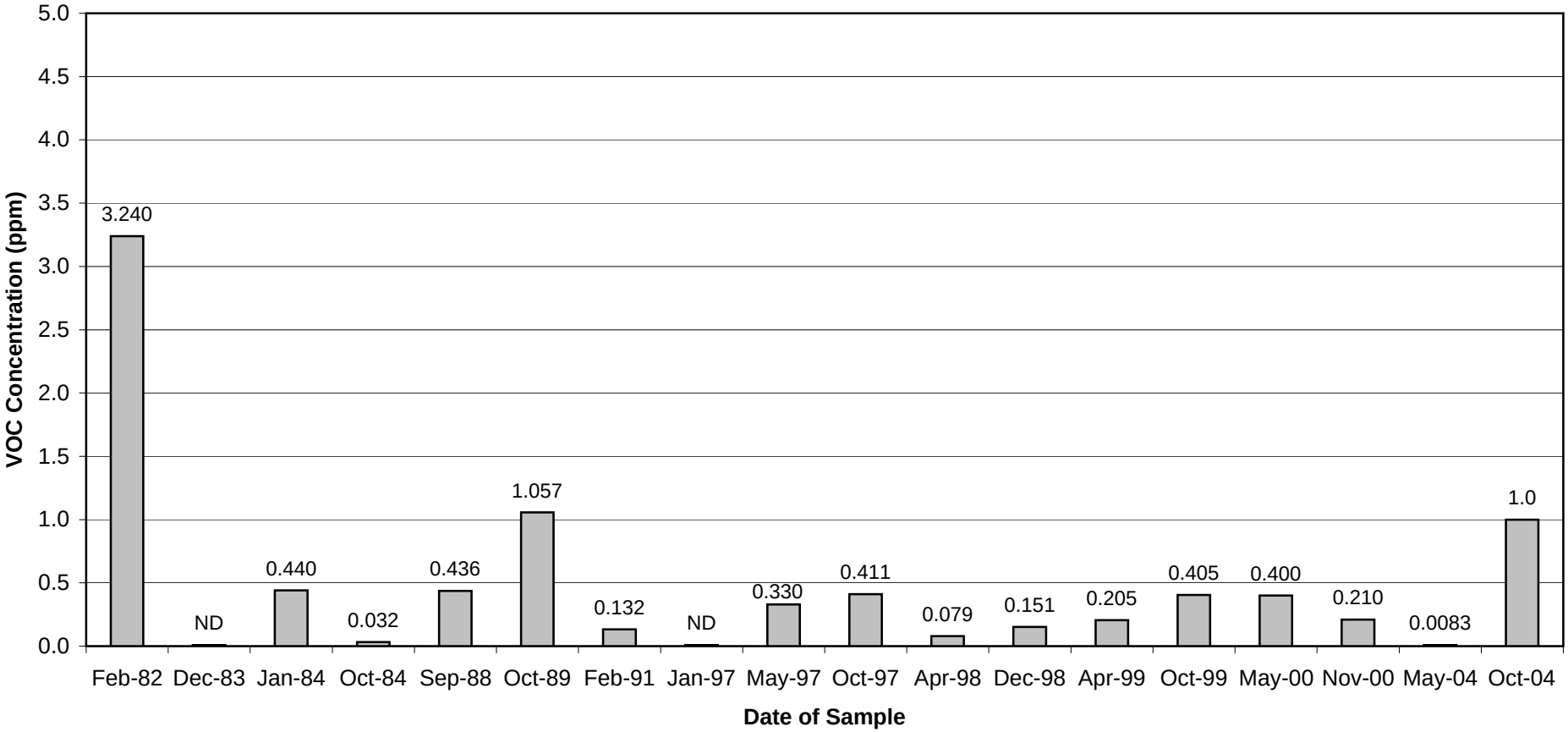
Well 111B Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

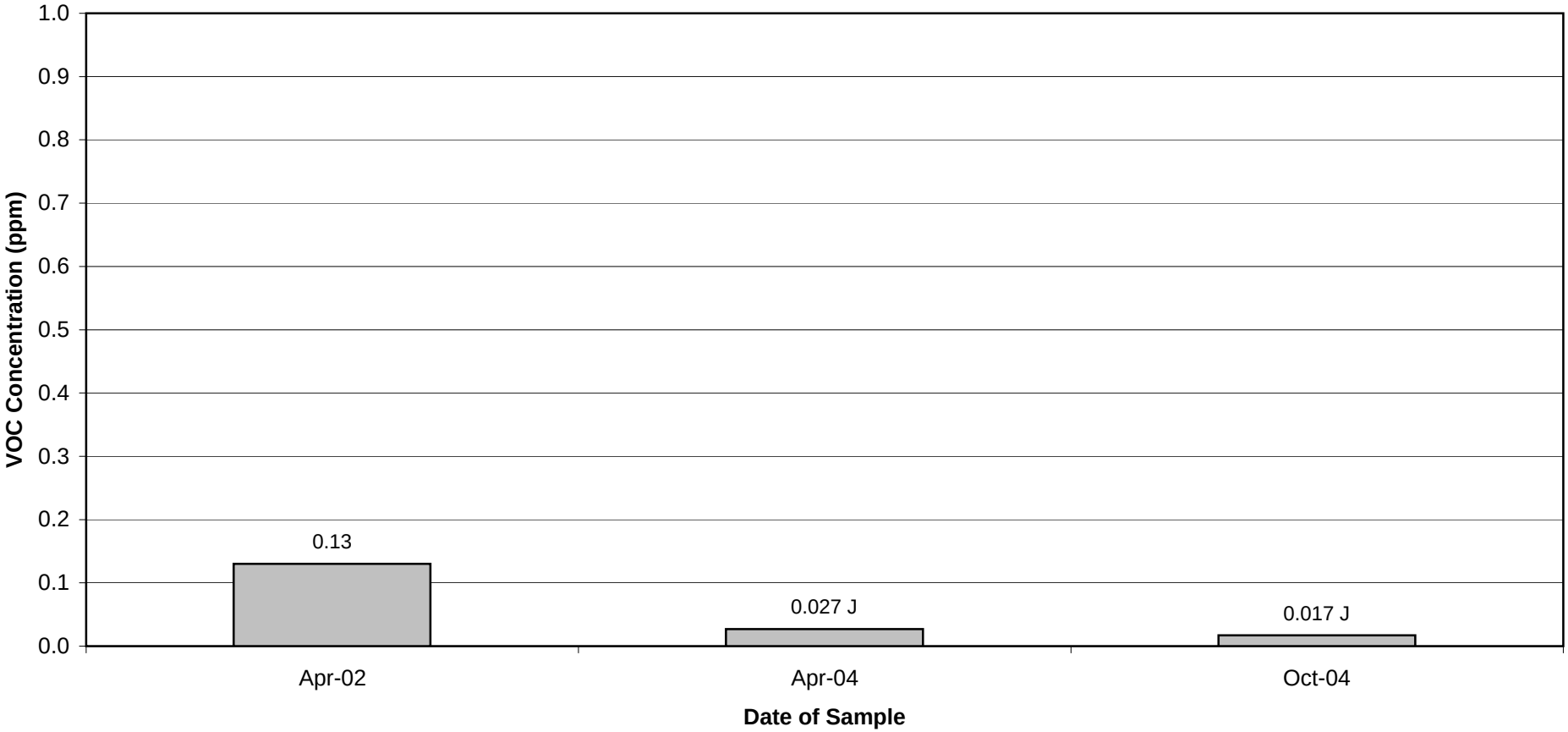
Well 114B/114B-R Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

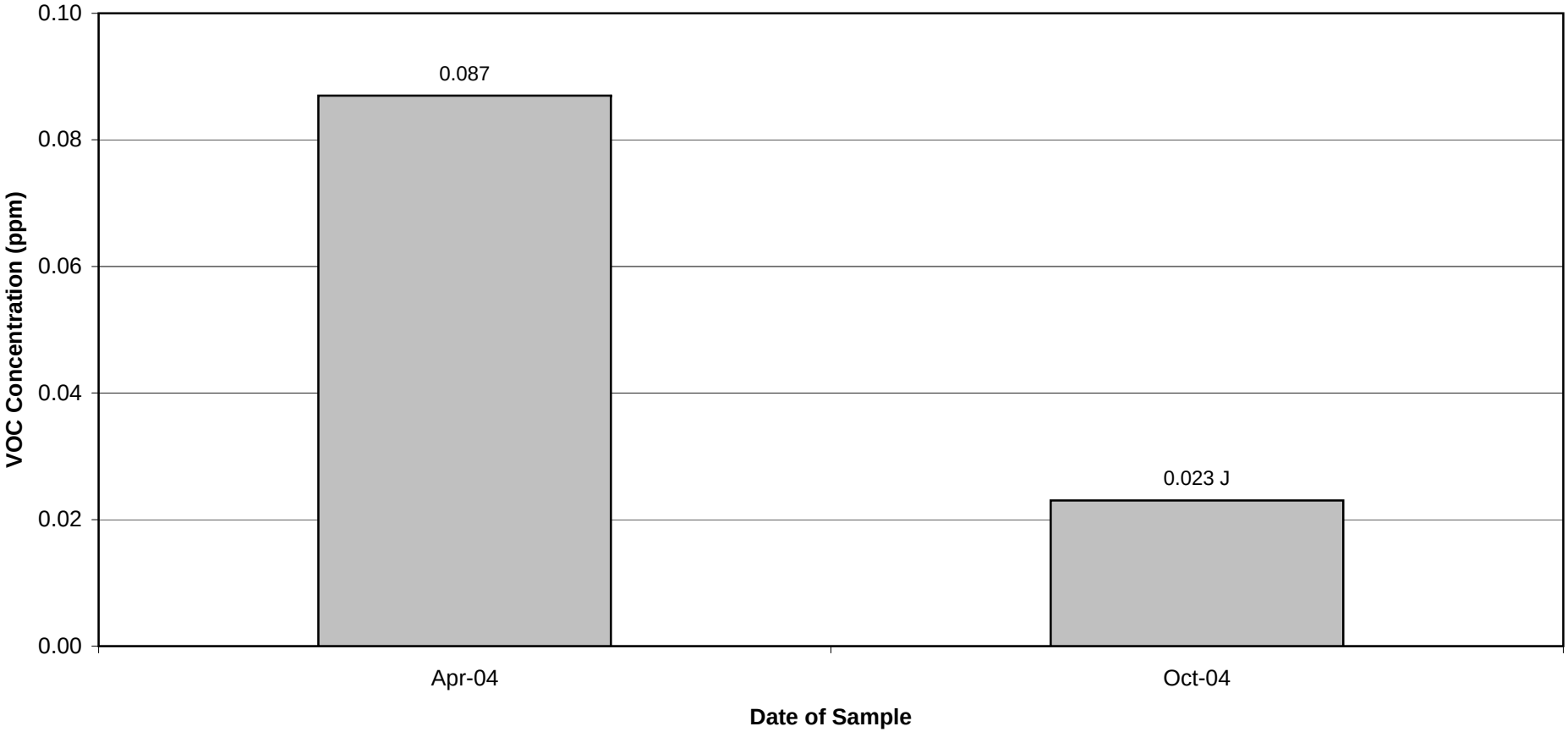
Well GMA3-2 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

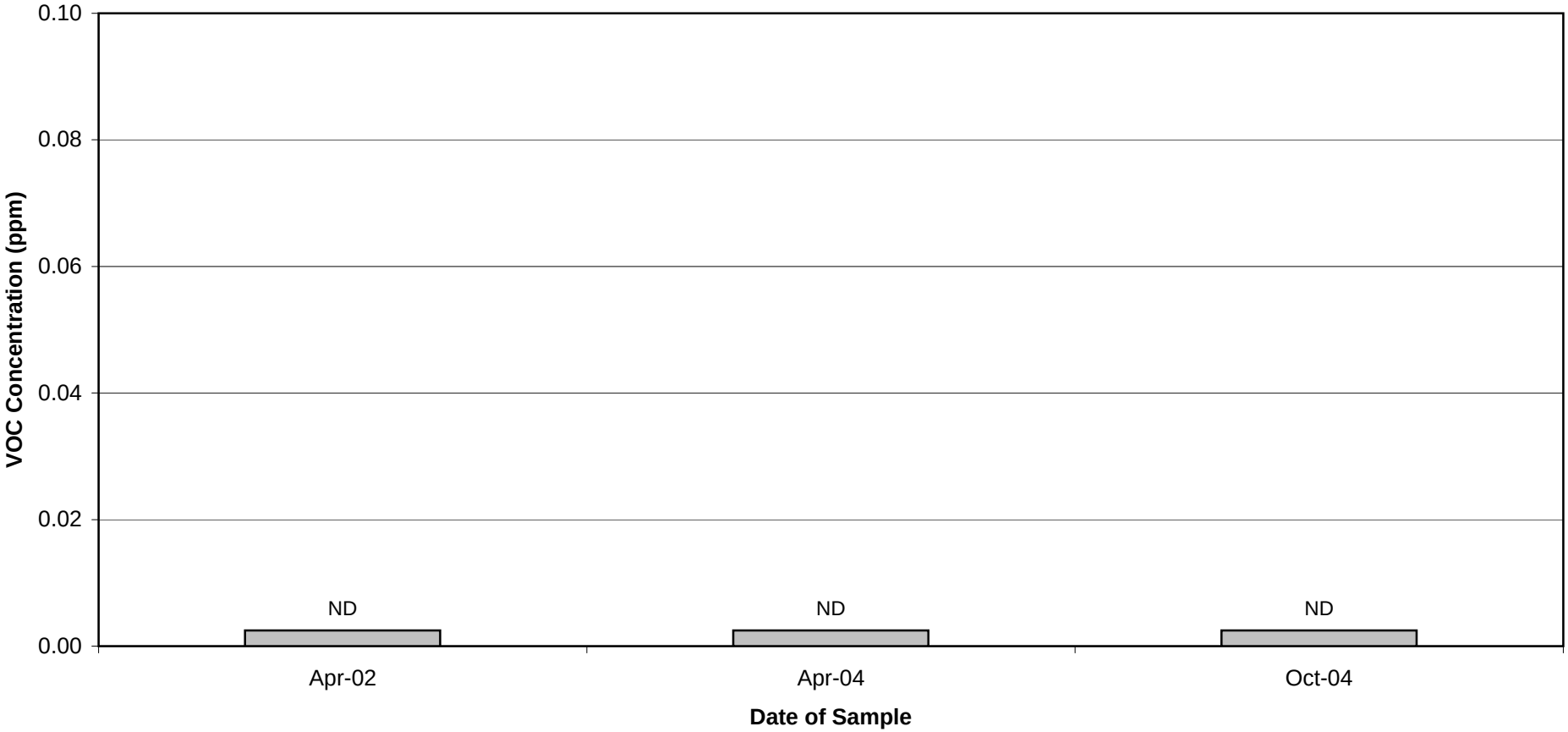
Well GMA3-3 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

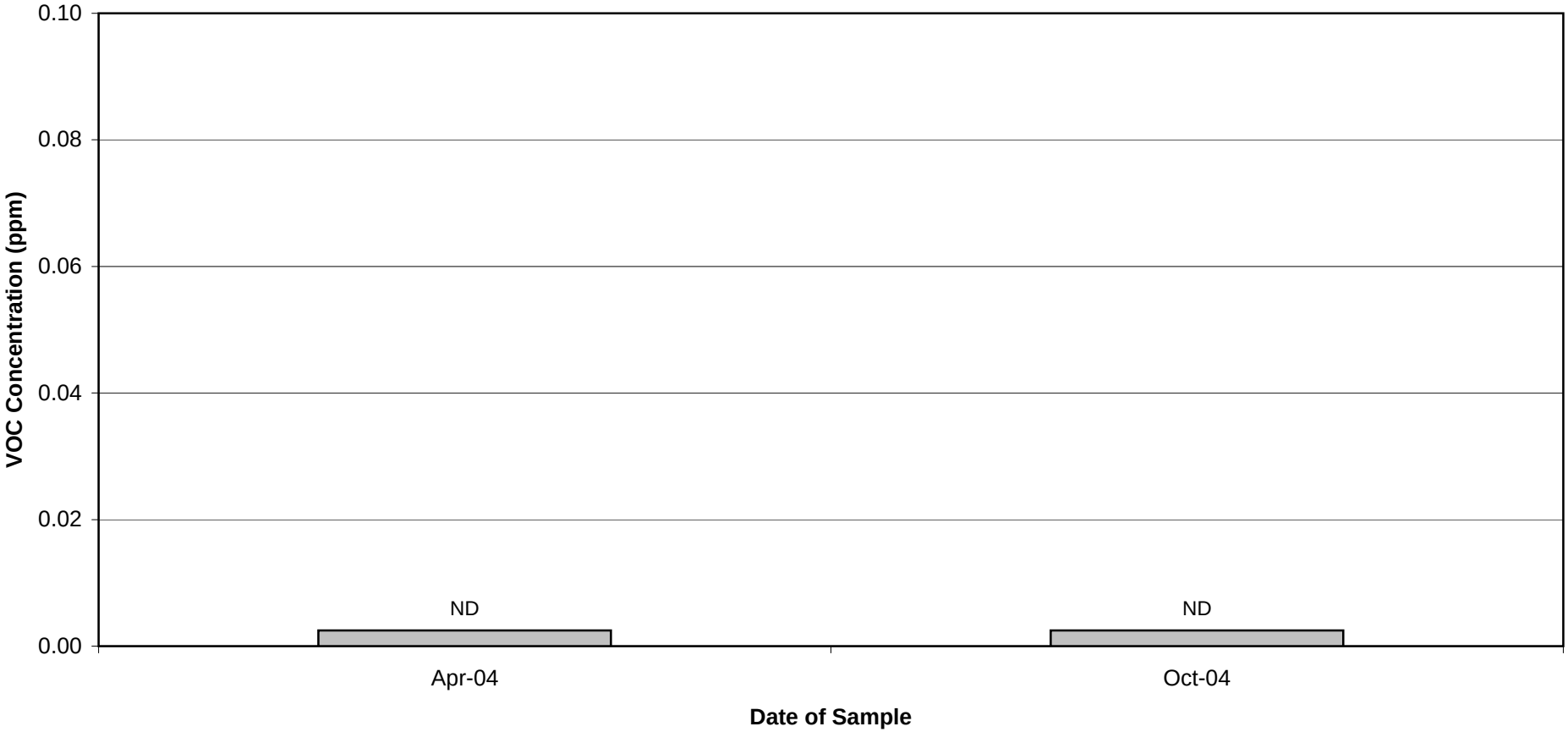
Well GMA3-4 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

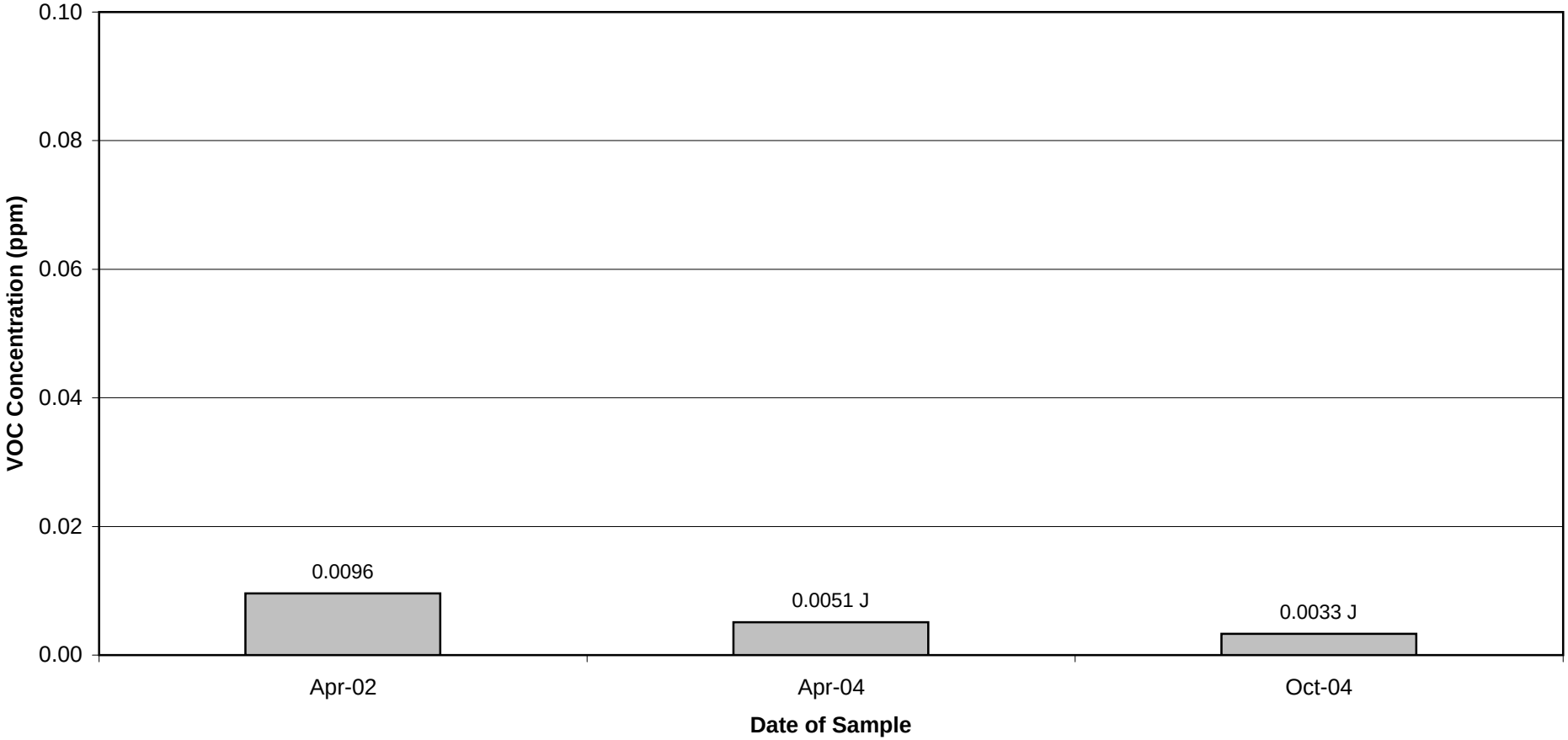
Well GMA3-5 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

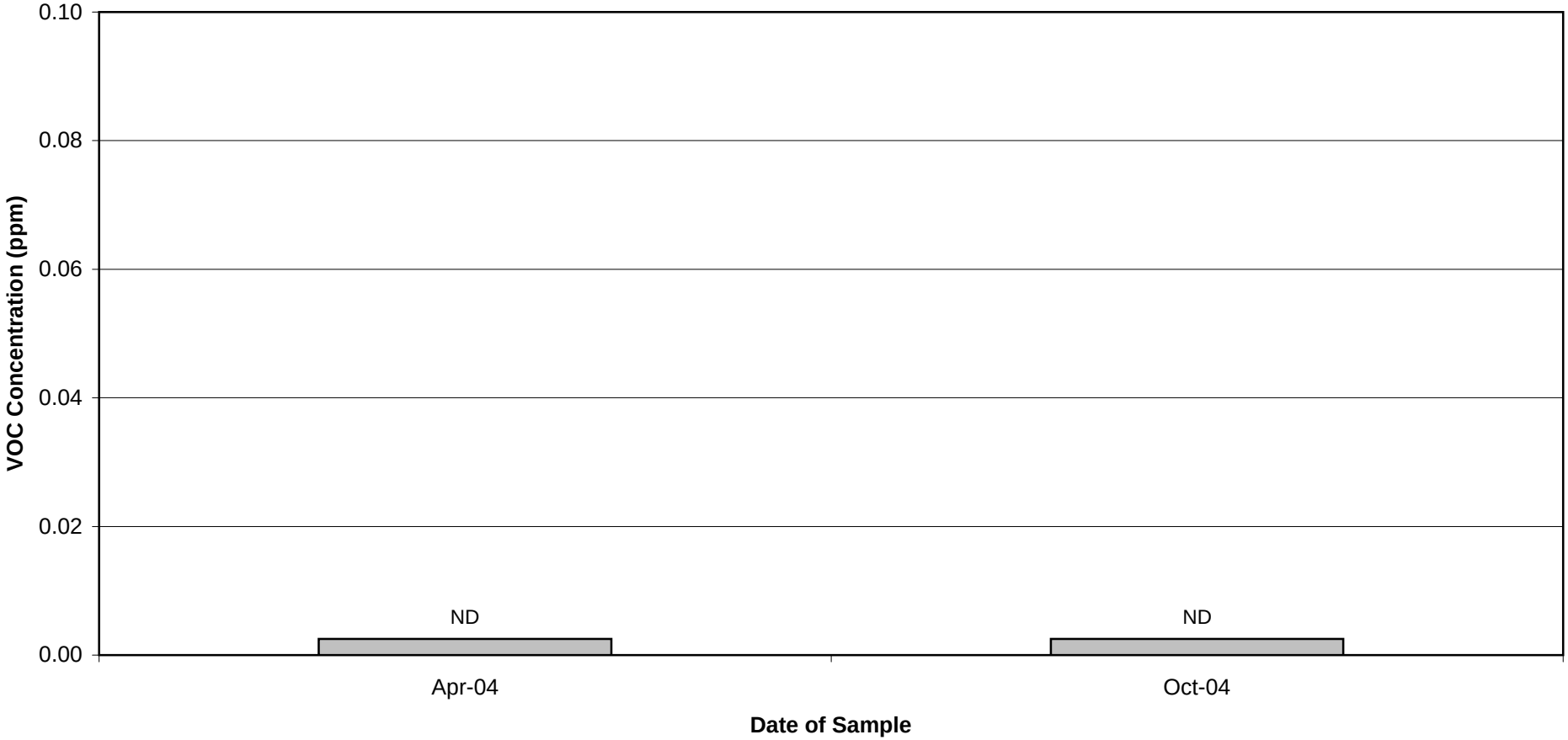
Well GMA3-6 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

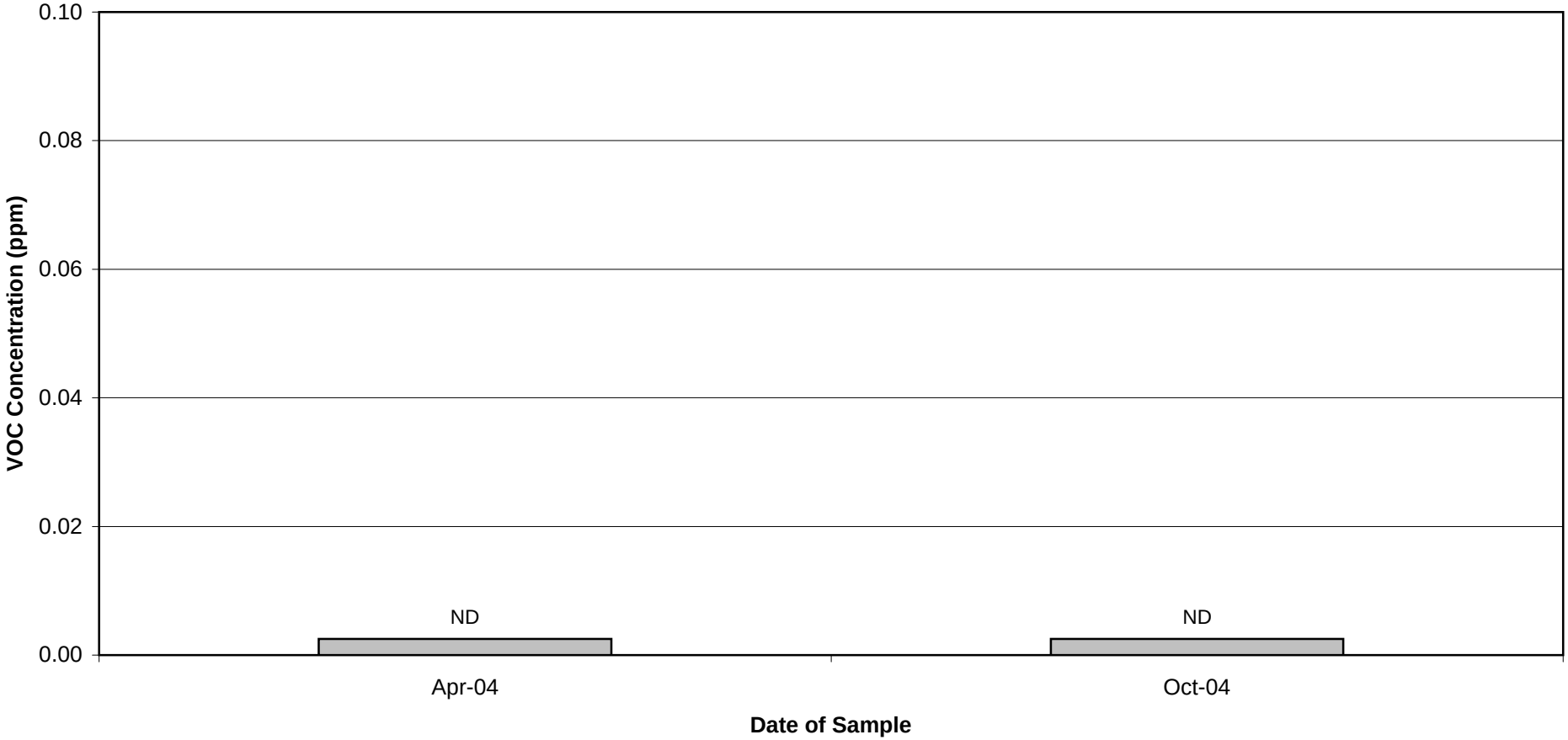
Well GMA3-7 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

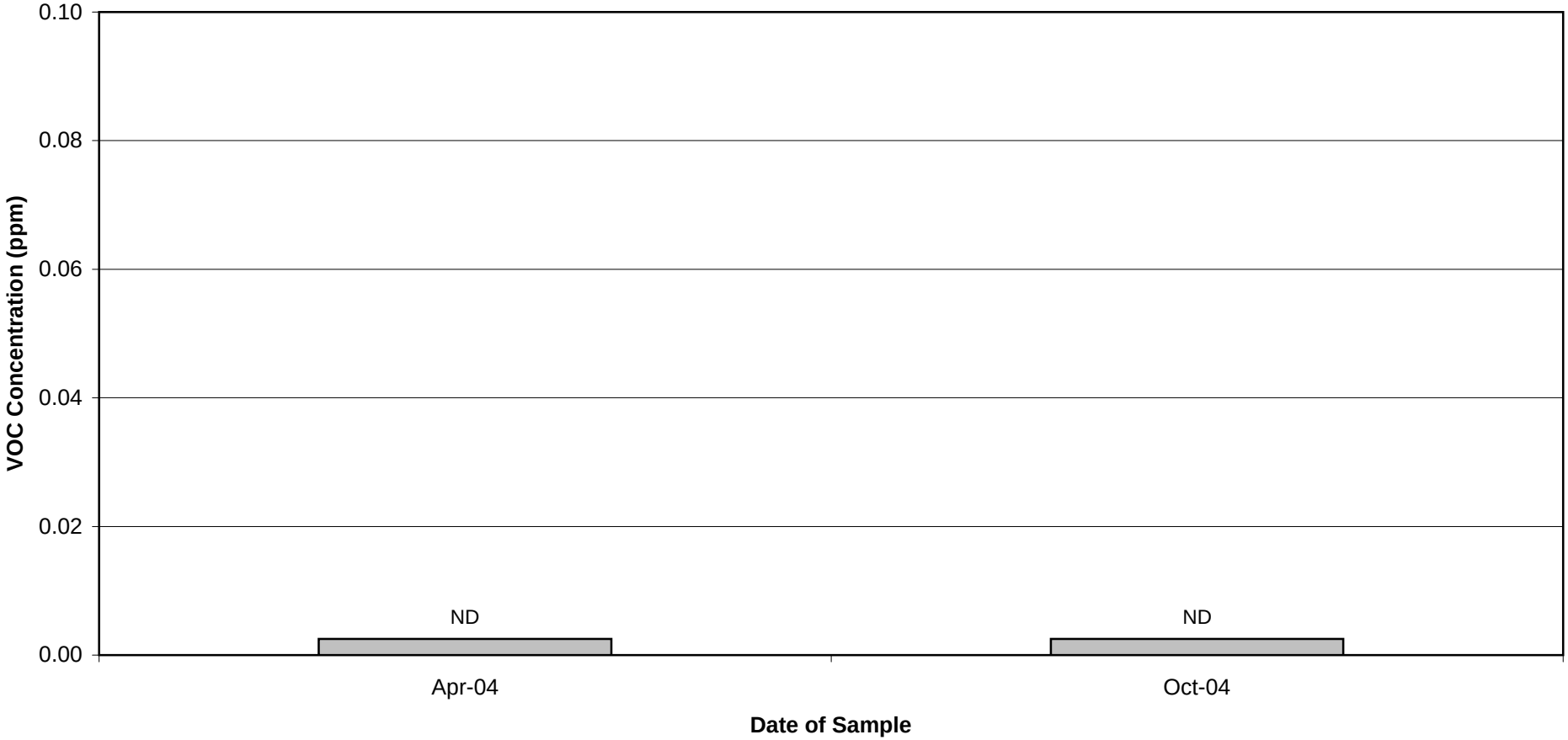
Well GMA3-8 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

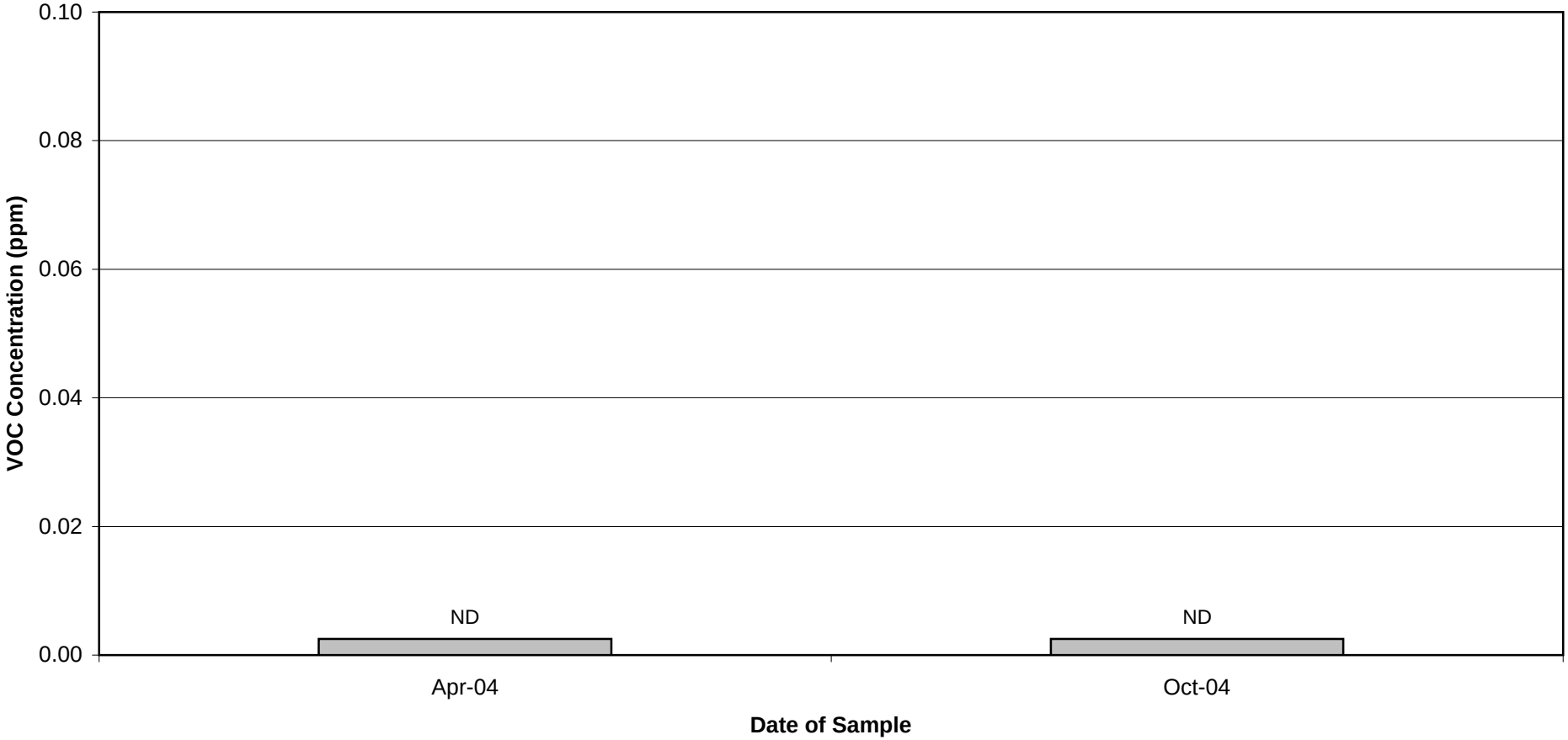
Well GMA3-9 Historical Total VOC Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well OBG-2 Historical Total VOC Concentrations



Historical Groundwater Data

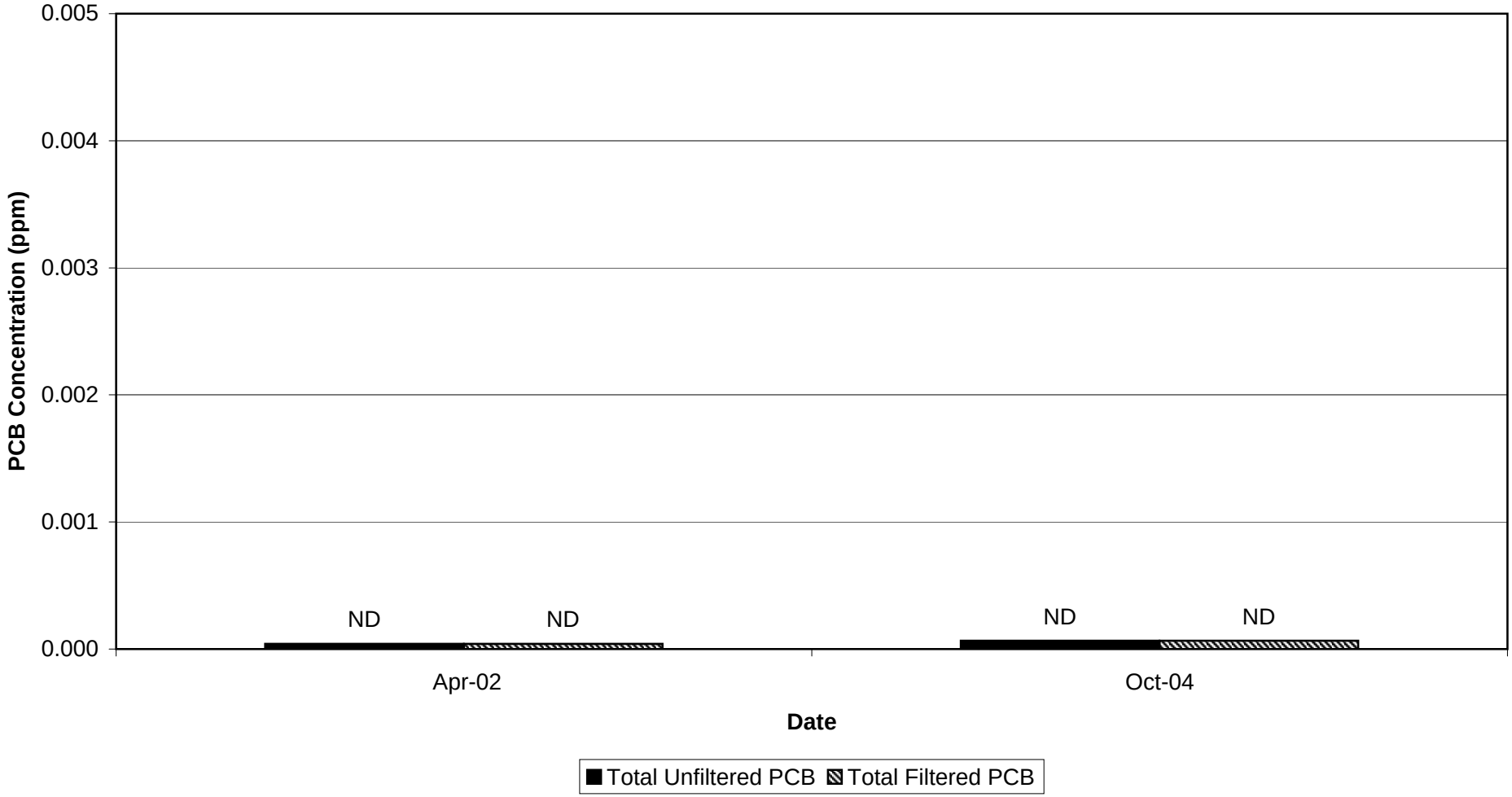
Total PCB Concentrations – Wells Sampled in Fall 2004

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

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

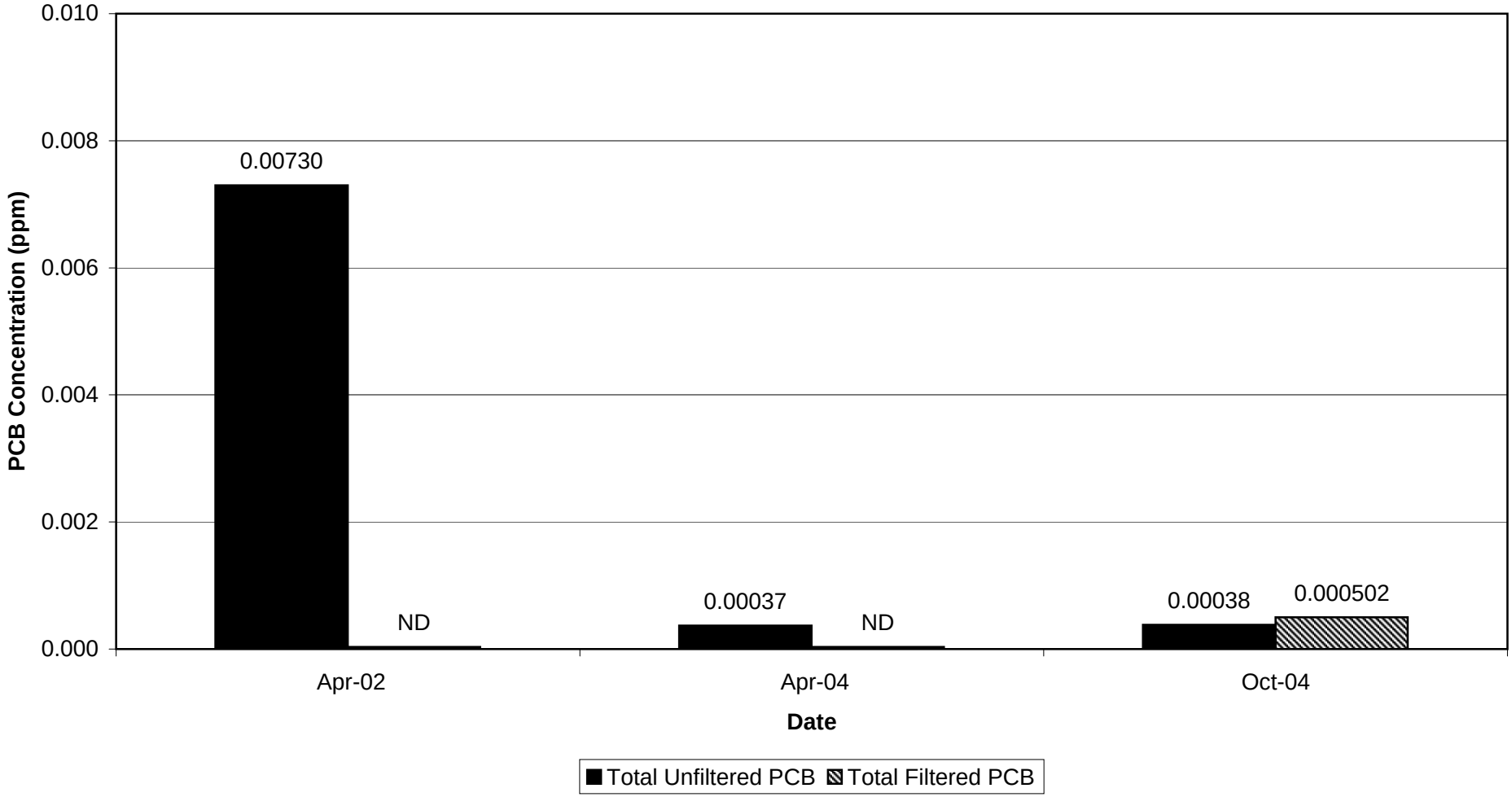
Well 6B/6B-R Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

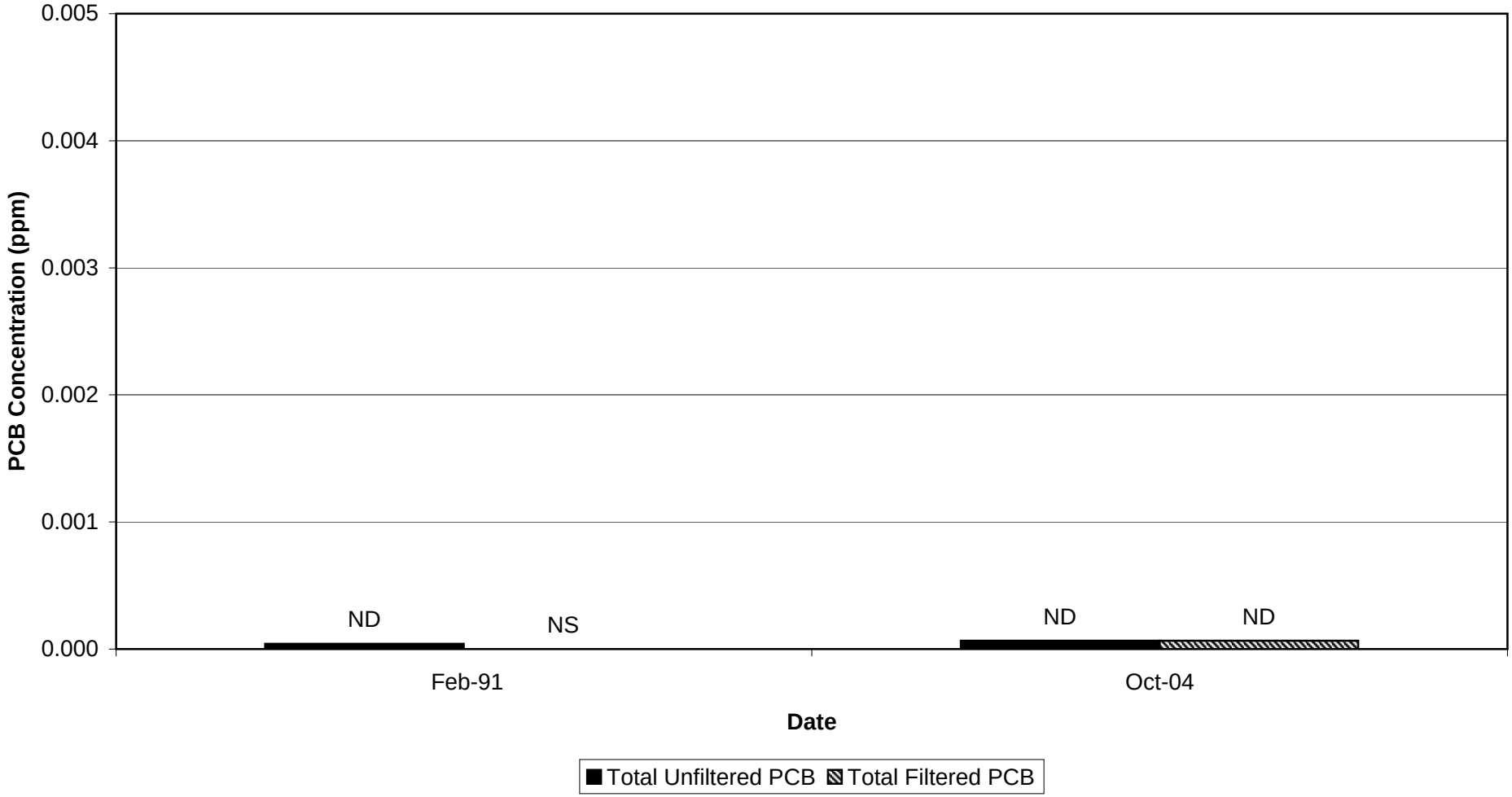
Well 78B-R Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

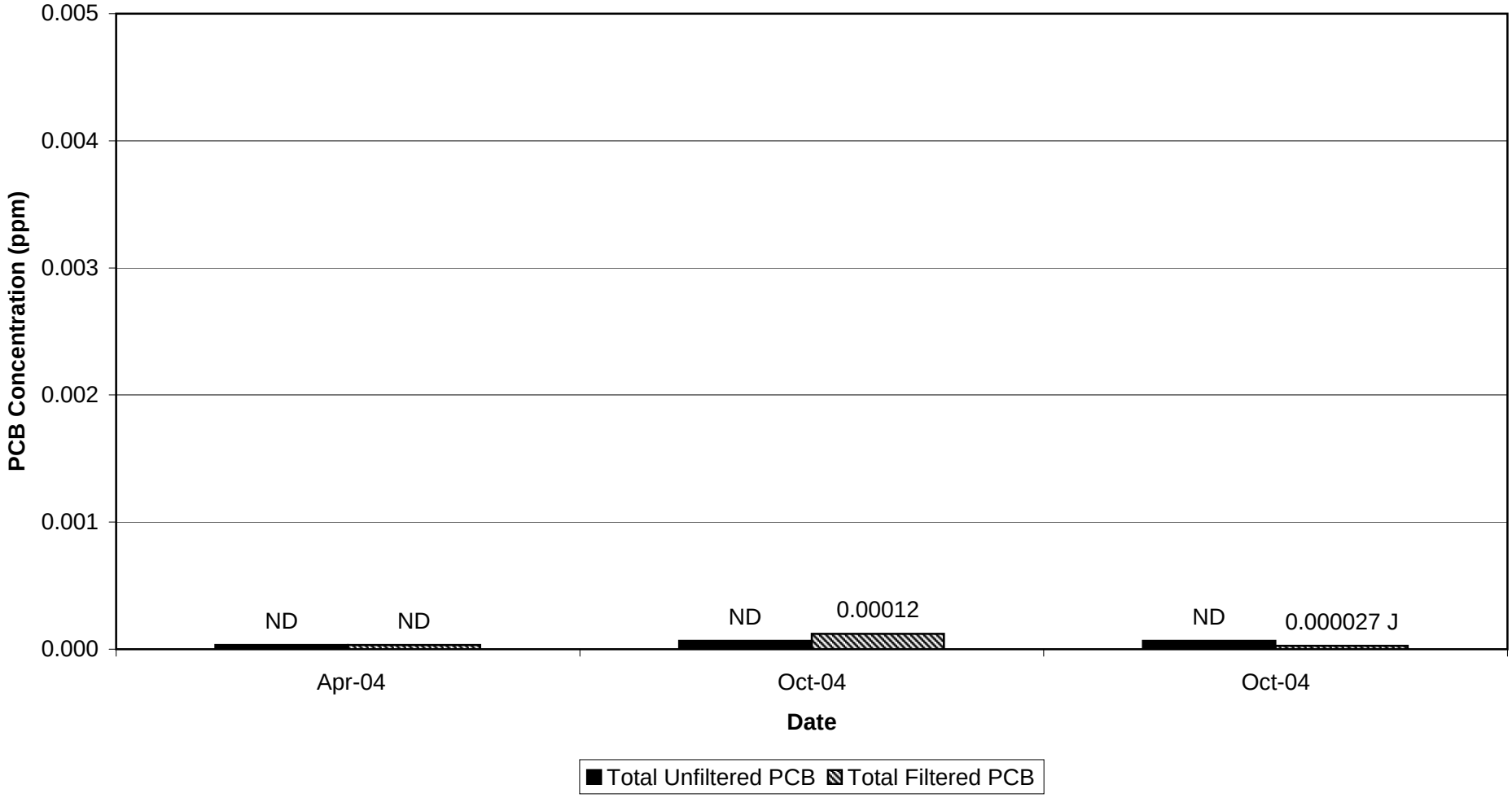
Well 82B/82B-R Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

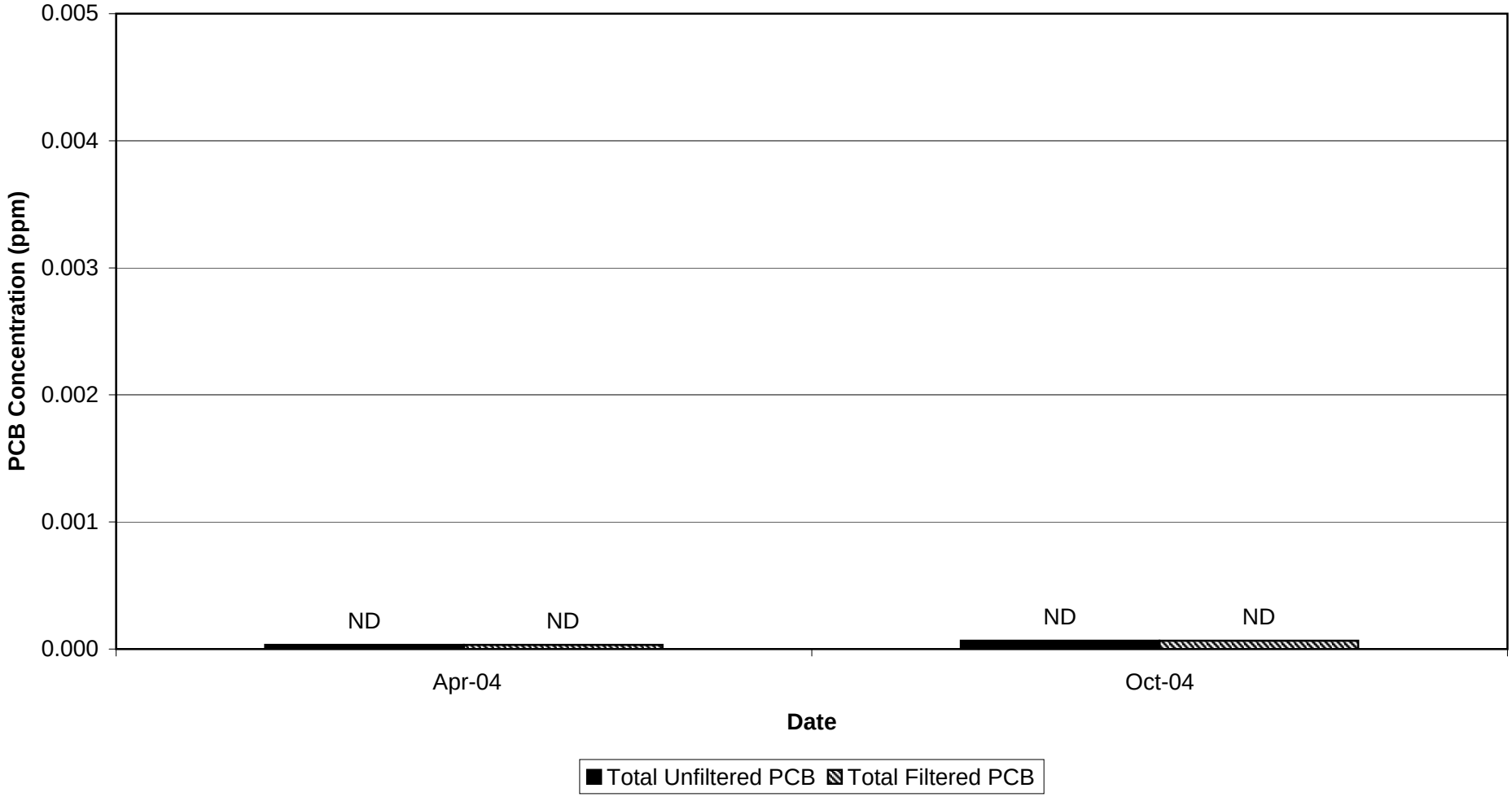
Well 89B Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

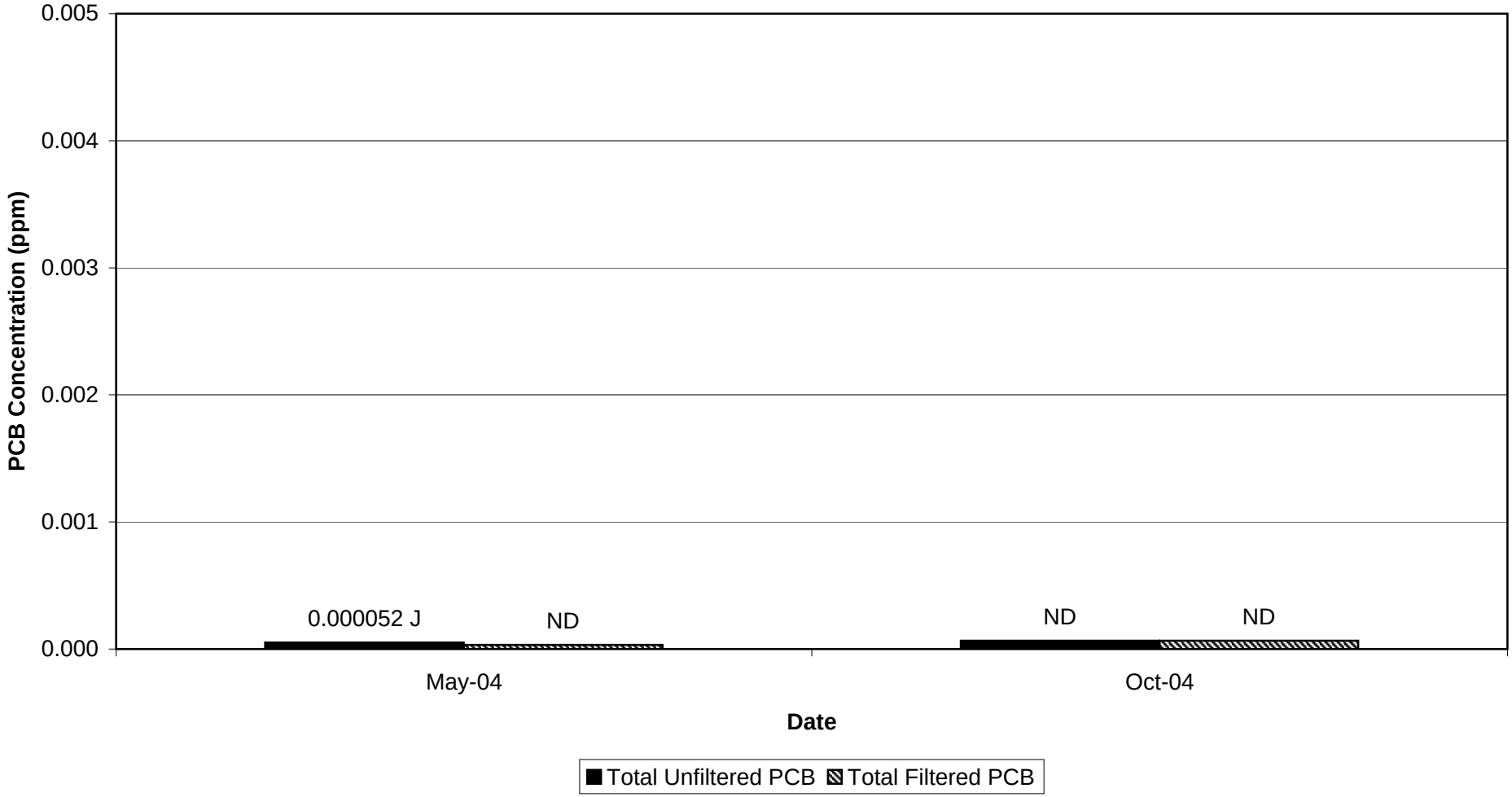
Well 90B Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

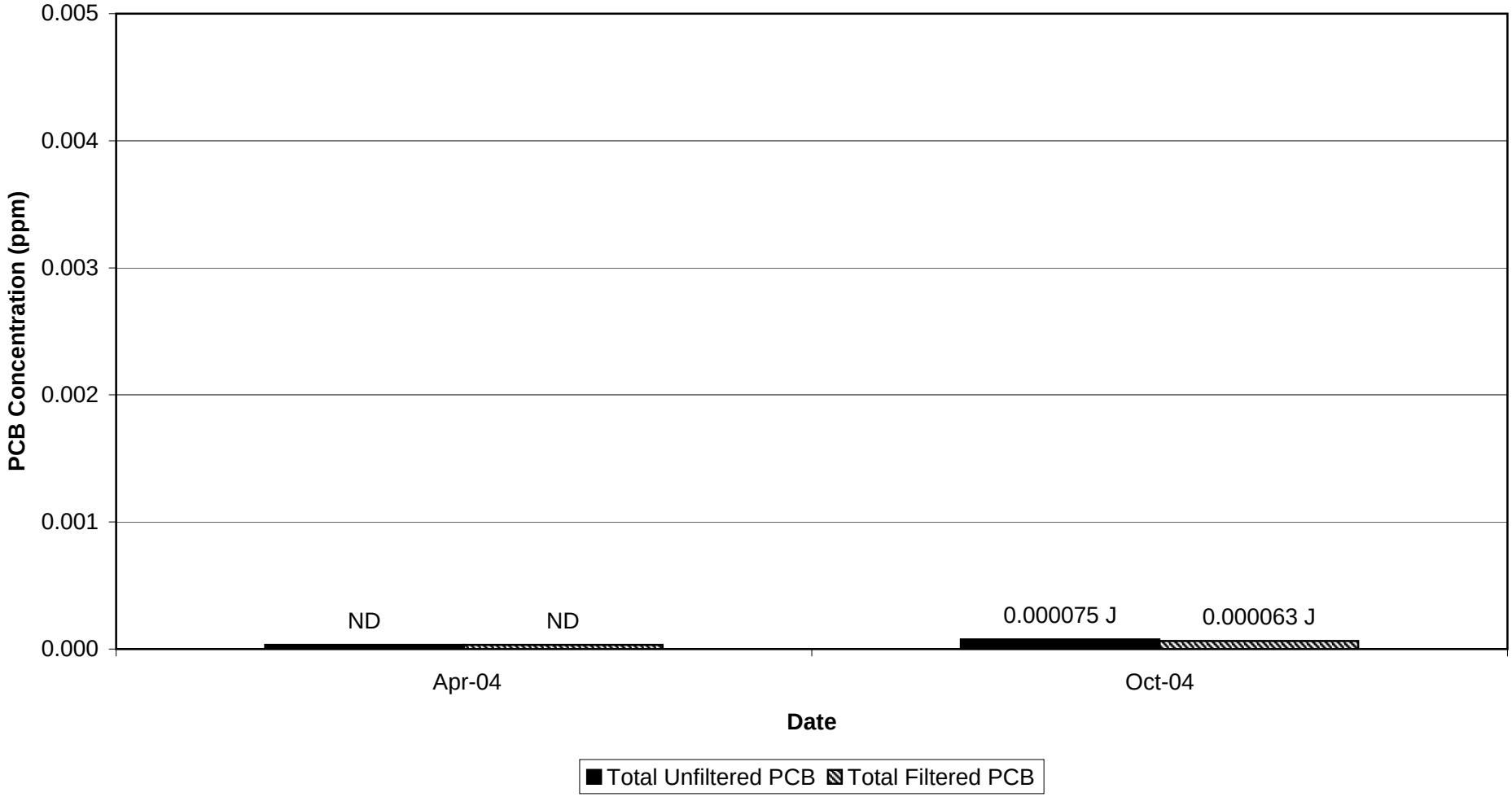
Well 114B-R Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

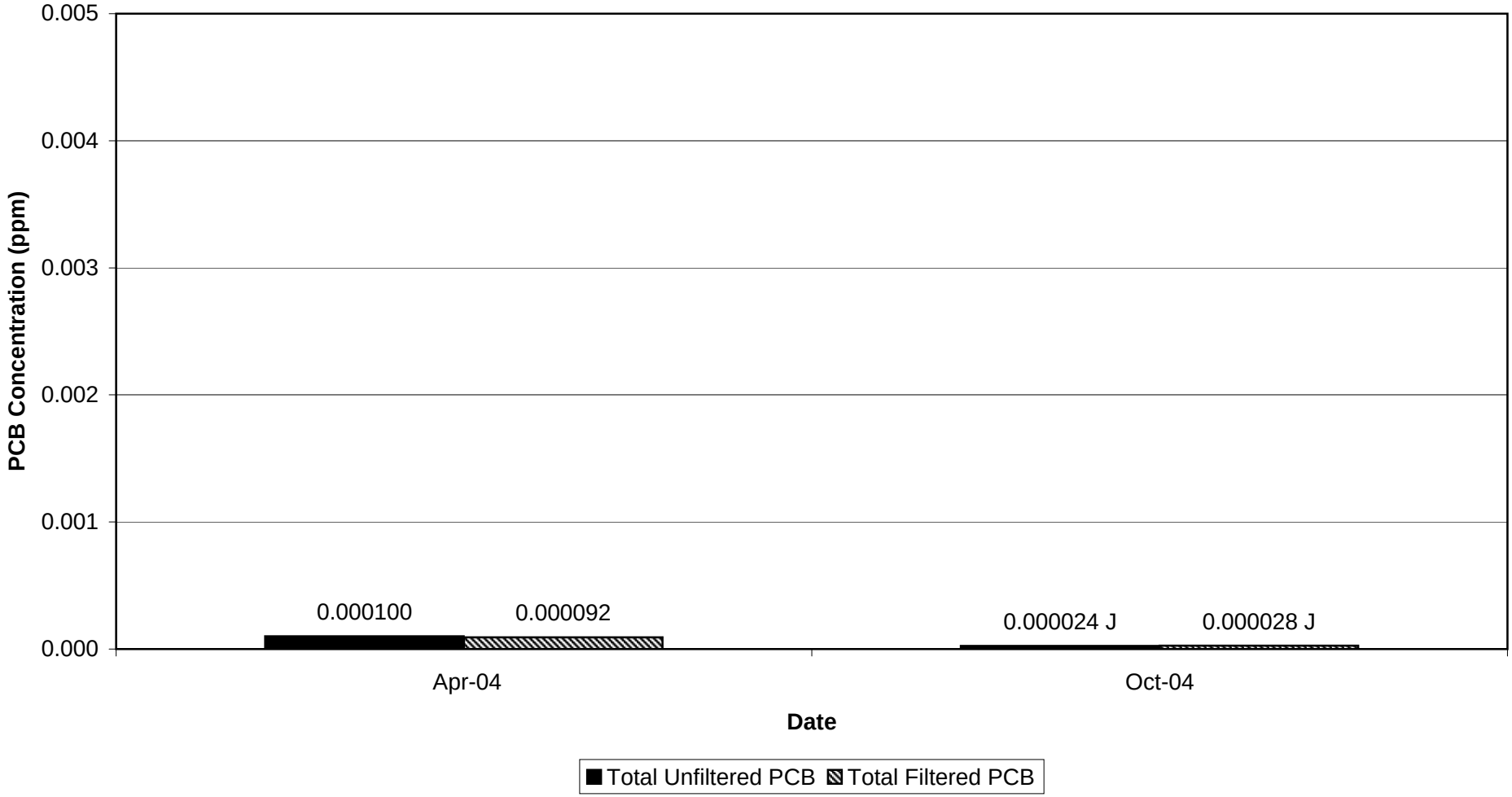
Well GMA3-3 Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

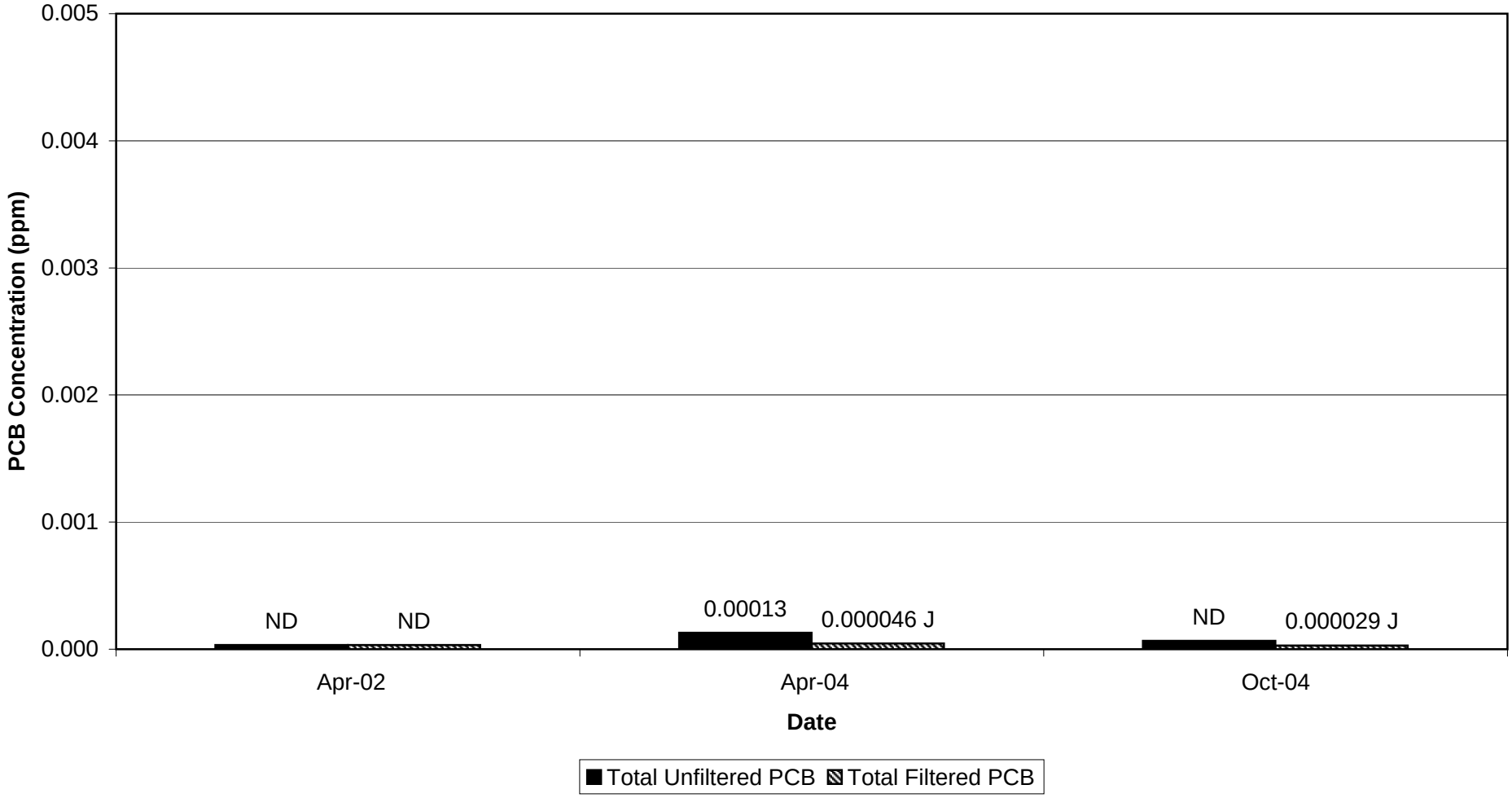
Well GMA3-5 Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

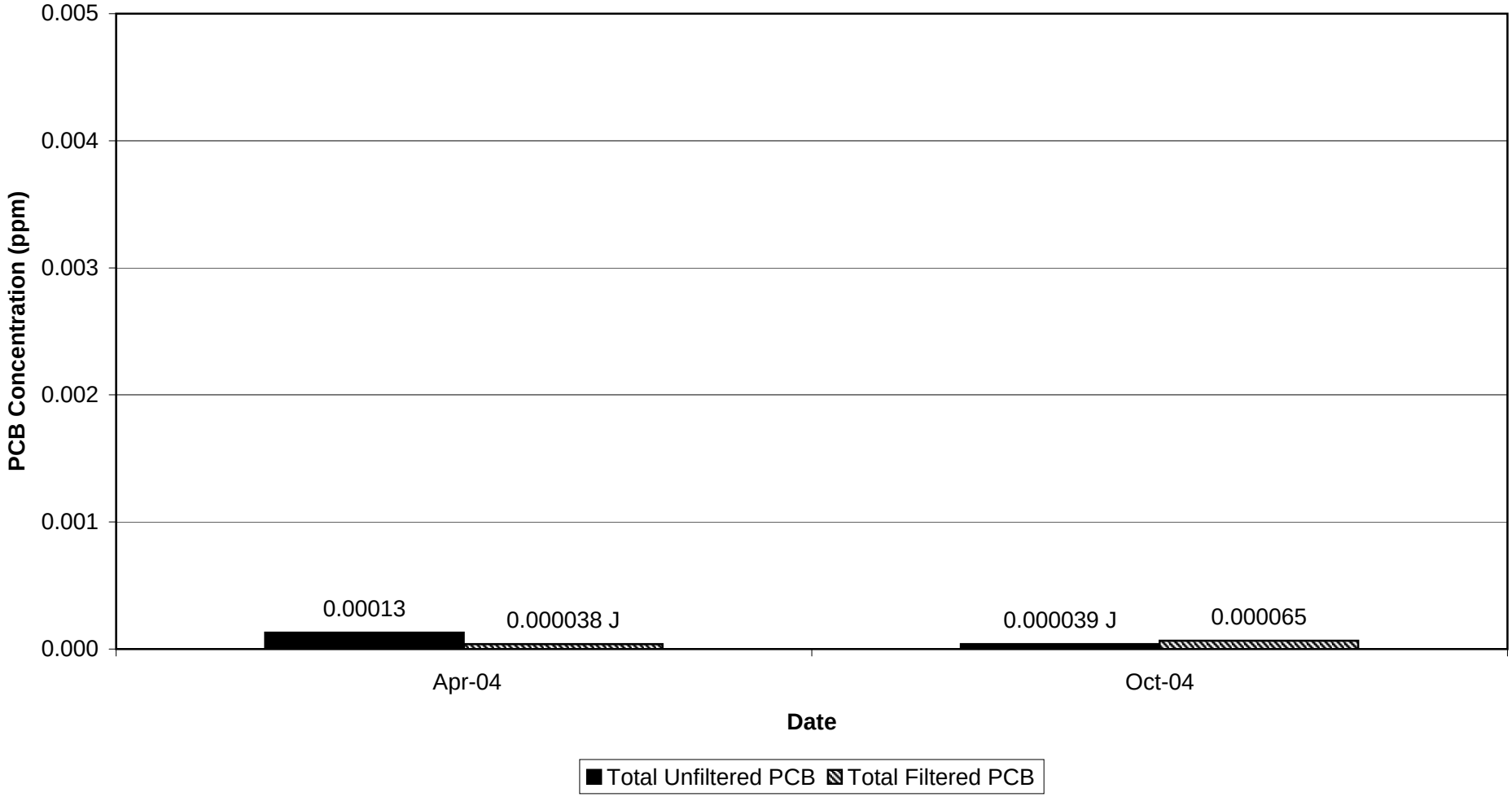
Well GMA3-6 Historical Total PCB Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well GMA3-7 Historical Total PCB Concentrations



Historical Groundwater Data

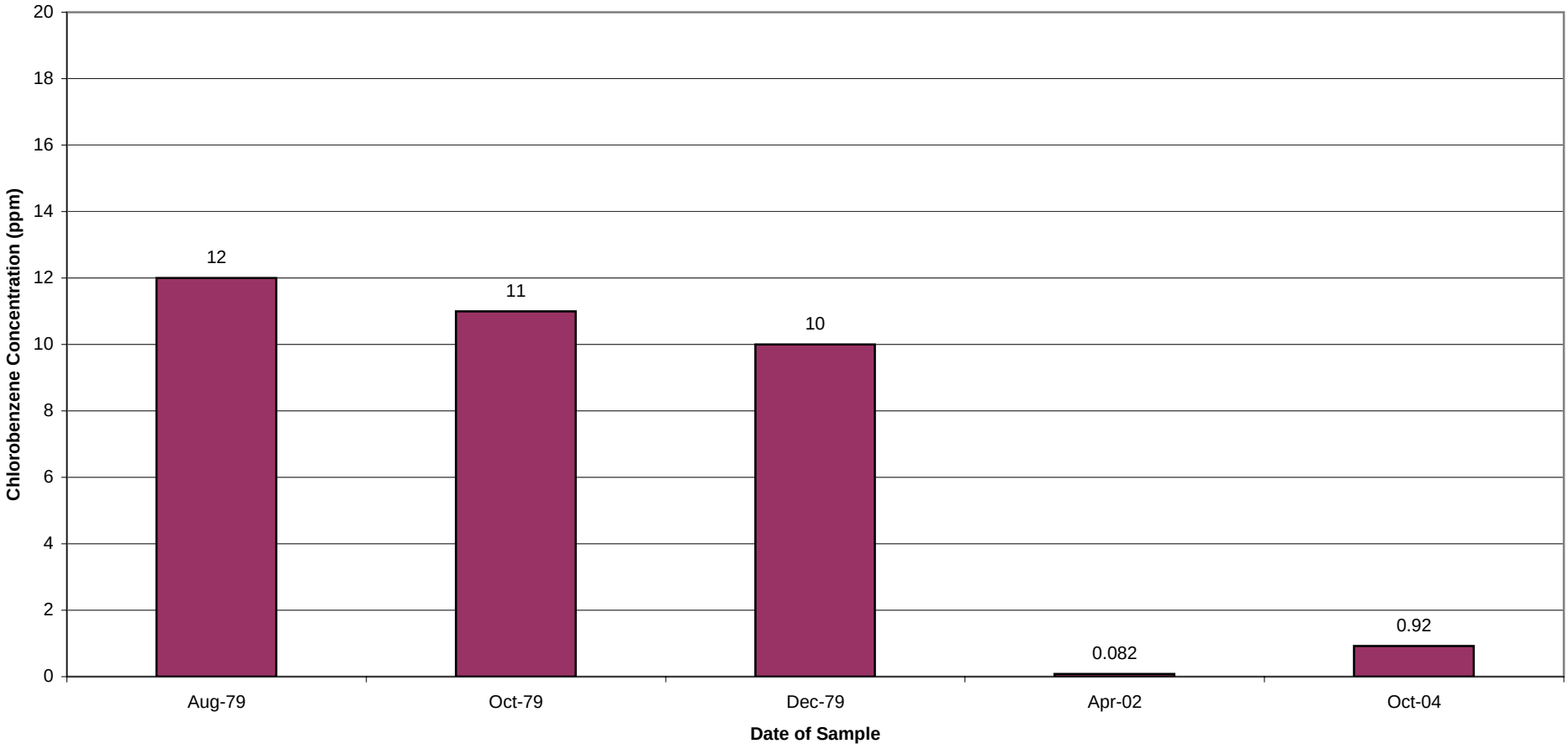
Chlorobenzene Concentrations – Selected Wells Sampled in Fall 2004

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

Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

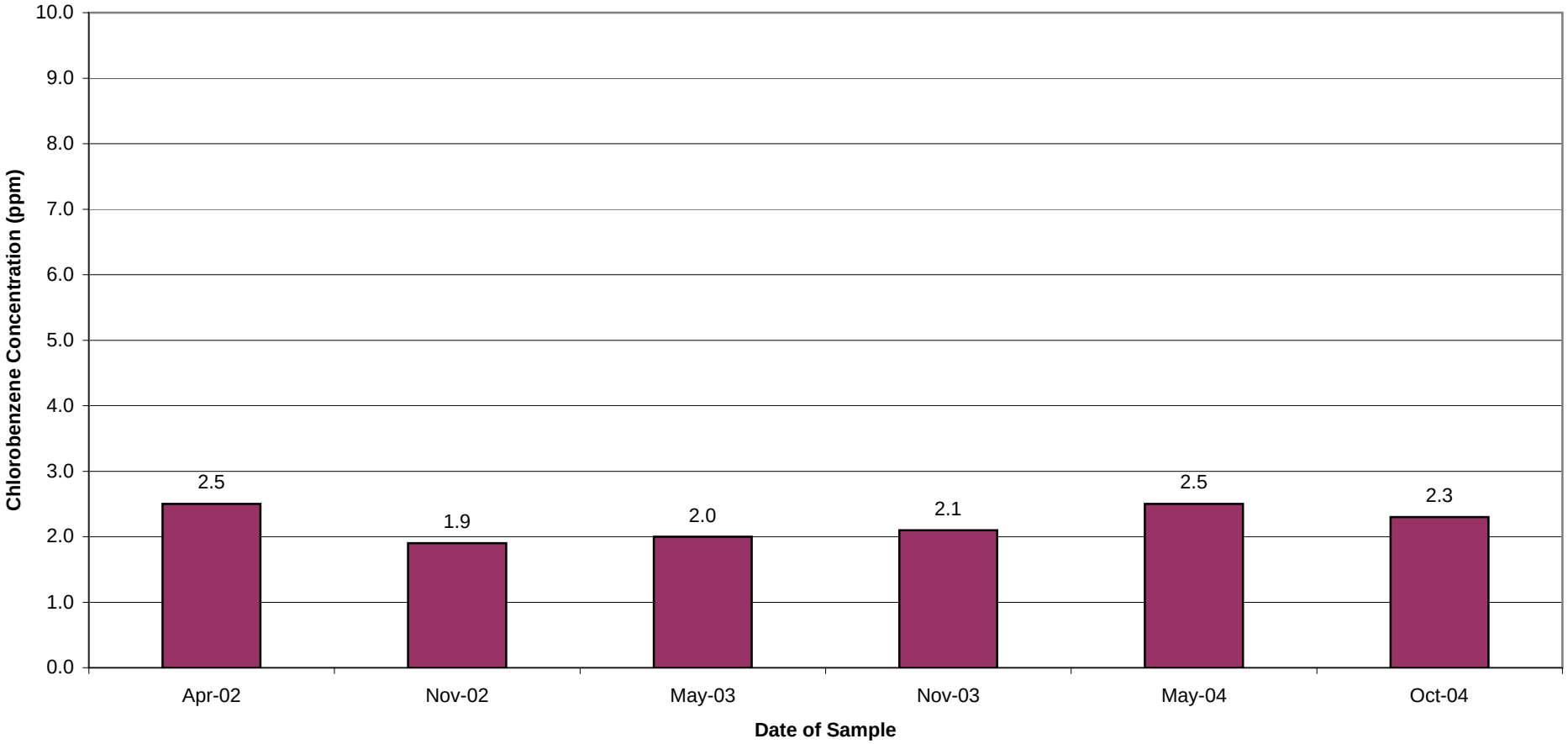
Well 6B and 6B-R Historical Chlorobenzene Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

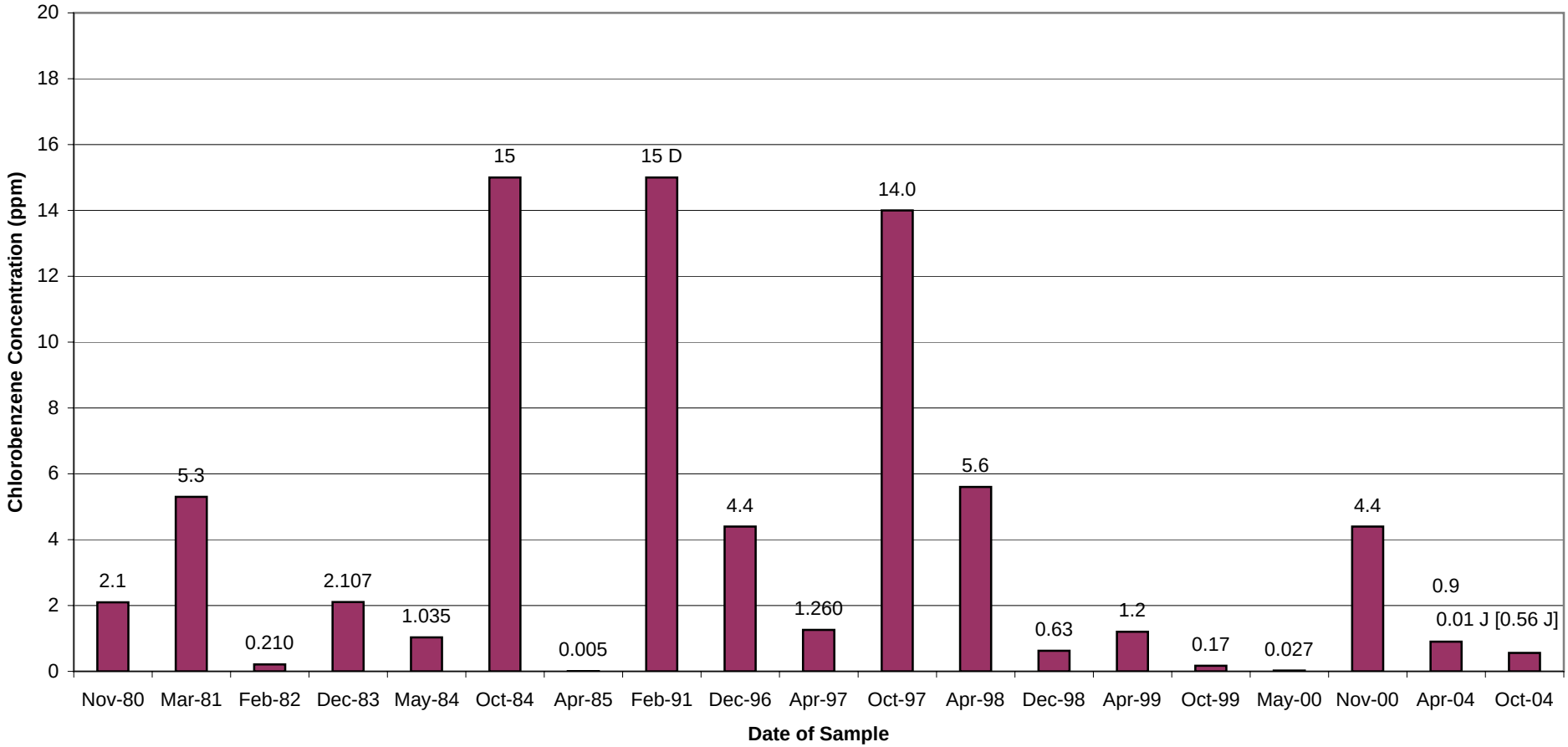
Well 78B-R Historical Chlorobenzene Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

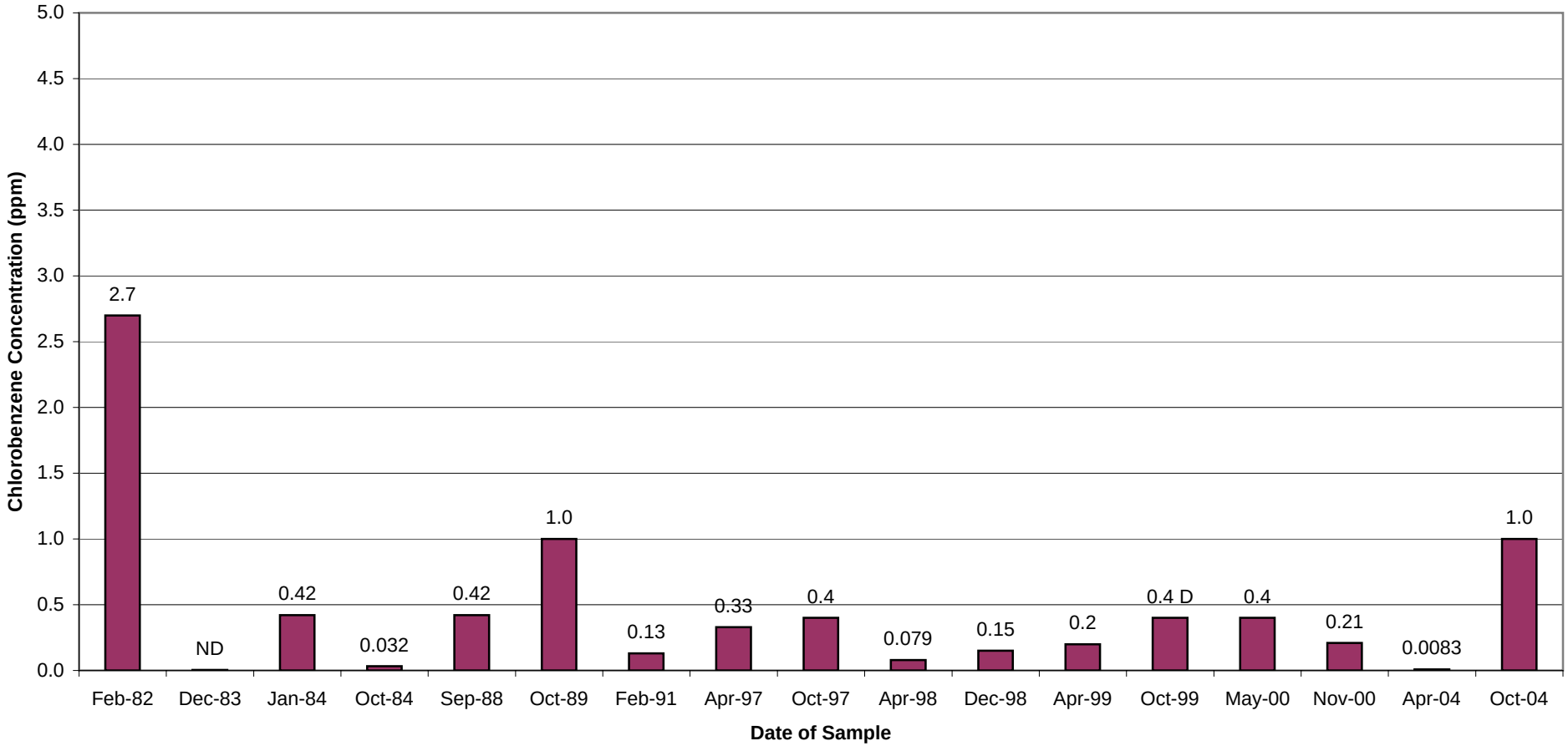
Well 89B Historical Chlorobenzene Concentrations



Appendix E

Groundwater Management Area 3
General Electric Company - Pittsfield, Massachusetts

Well 114B and 114B-R Historical Chlorobenzene Concentrations



Appendix F

Data Validation Report

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

APPENDIX F
GROUNDWATER SAMPLING DATA VALIDATION REPORT
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY
PITTSFIELD, MASSACHUSETTS

1.0 General

This appendix summarizes the Tier I and Tier II data reviews performed for groundwater samples collected during Remedial Investigation activities at Groundwater Management Area 3 located in Pittsfield, Massachusetts. The samples were analyzed for various constituents listed in Appendix IX of 40 CFR Part 264, plus three additional constituents -- benzidine, 2-chloroethyl vinyl ether, and 1,2-diphenylhydrazine (hereafter referred to as Appendix IX+3) by SGS Environmental Services, Inc. (formerly CT&E) of Charleston, West Virginia. Data validation was performed for 28 polychlorinated biphenyl (PCB) samples, 28 volatile organic compound (VOC) samples, 14 semi-volatile organic compound (SVOC) samples, 14 pesticide and herbicide samples, 14 polychlorinated dibenzo-p-dioxin (PCDD)/polychlorinated dibenzofuran (PCDF) samples, 28 metals samples, and 28 cyanide/sulfide samples that were collected from depth intervals or locations not subject to excavation.

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 May 25, 2004 and resubmitted June 15, 2004);

- *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 evaluations is presented in Table F-1. Each sample subjected to evaluation is listed in Table F-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 were used in this data evaluation.

J The compound 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 is detected at an estimated concentration less than the corresponding practical quantitation limit (PQL).

U The compound 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-detect sample results are presented as ND(PQL) within this report and in Table F-1 for consistency with documents previously prepared for this investigation.

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

3.0 Data Validation Procedures

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

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

Parameter	Tier I Only			Tier I &Tier II			Total
	Samples	Duplicates	Blanks	Samples	Duplicates	Blanks	
PCBs	0	0	0	22	4	2	28
VOCs	0	0	0	19	3	6	28
SVOCs	0	0	0	11	2	1	14
Pesticides and Herbicides	0	0	0	14	0	0	14
PCDDs/PCDFs	0	0	0	11	2	1	14
Metals	0	0	0	22	4	2	28
Cyanide/Sulfide	0	0	0	22	4	2	28
Total	**0**	**0**	**0**	**121**	**19**	**14**	**154**

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 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 SVOCs requires that the percent relative standard deviation (%RSD) must be less than or equal to 30%. Sample data for detect and non-detect compounds with %RSD values greater than 30% were qualified as estimated (J). The compound that exceeded the initial calibration criterion and the number of samples qualified due those deviations are presented in the following table.

Compound Qualified Due to Initial Calibration %RSD Deviations

Analysis	Compound	Number of Affected Samples	Qualification
SVOCs	4-Nitrophenol	13	J

The 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 not met. The compounds that did not meet the initial calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compounds	Number of Affected Samples	Qualification
VOCs	1,4-Dioxane	28	J
	2-Butanone	25	J
	Acetone	7	J
	Acetonitrile	28	J
	Acrolein	18	J
	Isobutanol	28	J

Compounds Qualified Due to Initial Calibration Deviations (RRF)

Analysis	Compounds	Number of Affected Samples	Qualification
SVOCs	4-Nitroquinoline-1-oxide	14	J

The continuing calibration criterion for organic analyses requires that the continuing calibration RRF have a value greater than 0.05. Sample data for detect and non-detect compounds with RRF values less than 0.05 were qualified as estimated (J). The compounds that did not meet the continuing calibration criterion and the number of samples qualified are presented in the following table.

Compounds Qualified Due to Continuing Calibration Deviations (RRF)

Analysis	Compounds	Number of Affected Samples	Qualification
VOCs	2-Butanone	3	J
	Propionitrile	28	J
SVOCs	1,3,5-Trinitrobenzene	11	J

Several of the organic compounds (including the compounds presented in the above tables 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-detect compound results associated with a RF less than the minimum value of 0.05 are to be rejected (R). However, in the case of these select organic compounds, the RF is an inherent problem with the current analytical methodology; therefore, the non-detect sample results were qualified as estimated (J).

The continuing calibration criterion requires that the percent difference (%D) between the initial calibration RRF and the continuing calibration RRF for VOCs and SVOCs be less than 25%. Sample data for detect and non-detect compounds with %D values that exceeded the continuing calibration criteria were qualified as estimated (J). A summary of the compounds that exceeded the continuing calibration criterion and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compounds	Number of Affected Samples	Qualification
VOCs	1,2,3-Trichloropropane	1	J
	2-Butanone	8	J
	Acrylonitrile	10	J
	Bromomethane	3	J
	Chloromethane	1	J
	Isobutanol	2	J
	Methacrylonitrile	10	J
	Naphthalene	2	J
	Tetrachloroethene	12	J
	Trichlorofluoromethane	10	J
	Vinyl Acetate	8	J

Compounds Qualified Due to Continuing Calibration of %D Values

Analysis	Compounds	Number of Affected Samples	Qualification
SVOCs	1,4-Naphthoquinone	1	J
	2,6-Dinitrotoluene	5	J
	3,3'-Dichlorobenzidine	7	J
	4-Aminobiphenyl	1	J
	a,a'-Dimethylphenethylamine	8	J
	Aramite	6	J
	Benzidine	11	J
	bis(2-Chloroisopropyl)ether	14	J
	Dimethoate	1	J
	Methapyrilene	5	J
	Methyl Methanesulfonate	13	J
	N-Nitrosomorpholine	4	J
	N-Nitrosopyrrolidine	4	J
	o-Toluidine	5	J
	Pronamide	13	J
	Safrole	14	J
	Thionazin	1	J

Continuing calibration verification (CCV) criterion for inorganics requires that the percent recoveries (%R) must be within 90% to 110%. Sample data for detect analytes with %R values greater than 110% but less than 125% were qualified as estimated (J). The analyte that exceeded the continuing calibration criterion and the number of samples qualified due those deviations are presented in the following table.

Analyte Qualified Due to Continuing Calibration Verification CCV %R Deviations

Analysis	Analyte	Number of Affected Samples	Qualification
Inorganics	Lead	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 were not in this range, 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 did not meet CRDL criteria and the number of samples qualified due to those deviations are presented in the following table.

Analytes Qualified Due to CRDL Standard Recovery Deviations

Analysis	Analytes	Number of Affected Samples	Qualification
Inorganics	Selenium	14	J
	Thallium	28	J
	Zinc	8	J

Matrix spike/matrix spike duplicate (MS/MSD) sample analysis recovery criteria for organics require that the MS/MSD recovery be within the laboratory-generated QC control limits specified on the MS reporting form. Associated sample results with MS/MSD recoveries that were less than the laboratory-generated QC control limits and have recoveries greater than 10% were qualified as estimated (J). Associated non-detect compounds that were less than 10% were qualified as rejected (R). The compounds that did not meet MS/MSD recovery criteria and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to MS/MSD Recovery Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
VOCs	Chlorobenzene	1	J
	Naphthalene	1	J
Pesticides/Herbicides	Alpha-Chlordane	1	R
	Beta-BHC	1	J
	Delta-BHC	1	R
	Endrin Ketone	1	R
	Gamma-Chlordane	1	J
	Heptachlor Epoxide	1	J

MS/MSD sample analysis recovery criteria for organics require that the RPD between the MS and MSD be less than the laboratory-generated QC acceptance limits specified on the MS/MSD reporting form. The compounds that exceeded RPD limits and the number of samples qualified due to deviations are presented in the following table.

Compounds Qualified Due to MS RPD Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
VOCs	Naphthalene	1	J
Pesticides/Herbicides	Beta-BHC	1	J

Field duplicate samples were analyzed to evaluate the overall precision of laboratory and field procedures. The RPD between field duplicate samples is required to be less than 30% for water sample values greater than five times the PQL for organics. Sample results that exceeded these limits were qualified as estimated (J). The compound that did not meet field duplicate RPD requirements and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Field Duplicate Deviations

Analysis	Compound	Number of Affected Samples	Qualification
VOCs	Chlorobenzene	2	J

Surrogate compounds are analyzed with every organic sample to aid in evaluation of the sample extraction efficiency. As specified in the FSP/QAPP, two of the three SVOC surrogate compounds within each fraction and at least one of the PCB and Pesticide/Herbicide surrogate compounds must be within the laboratory-specified control limits. Sample results were qualified as estimated (J) for all compounds when surrogate recovery criteria were outside control limits and were greater than 10%. Non-detect sample results less than 10% were qualified as rejected (R). A summary of the compounds affected by surrogate recovery exceedences and the number of samples qualified due to those deviations are presented in the following table.

Compounds Qualified Due to Surrogate Recovery Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
SVOCs	All acid compounds	1	R
Pesticides/Herbicides	4,4'-DDD	2	J
	4,4'-DDE	2	J
	4,4'-DDT	2	J
	Aldrin	2	J
	Alpha-BHC	2	J
	Alpha-Chlordane	2	J
	Beta-BHC	2	J
	Delta-BHC	2	J
	Dieldrin	2	J
	Endosulfan I	2	J
	Endosulfan II	2	J
	Endosulfan Sulfate	2	J
	Endrin	2	J
	Endrin Aldehyde	2	J
	Endrin Ketone	2	J
	Gamma-BHC (Lindane)	2	J
	Gamma-Chlordane	2	J
	Heptachlor	2	J
	Heptachlor Epoxide	2	J
	Kepone	1	J
	Methoxychlor	2	J
	Technical Chlordane	2	J
	Toxaphene	2	J

Blank action levels for inorganic analytes detected in the blanks were calculated at five times the blank concentrations. Detected sample result that was below the blank action level and above the instrument detection limit (IDL) was qualified with a "U." The analytes/compound detected in method blank which resulted in qualification of sample data, along with the number of affected samples, are presented in the following table.

Analytes/Compound Qualified Due to Blank Deviations

Analysis	Analytes/Compound	Number of Affected Samples	Qualification
Inorganics	Chromium	10	U
	Copper	5	U
	Zinc	9	U
Cyanides/Sulfides	Cyanide	2	U
SVOCs	Naphthalene	1	U

Extraction holding timing criterion for organics require that water extractions for SVOCs are extracted within 7 days. The compounds that exceeded extraction holding time and the number of samples qualified due to deviation are presented in the following table.

Compounds Qualified Due to Extraction Holding Time Deviations

Analysis	Compounds	Number of Affected Samples	Qualification
SVOCs	All base-neutral compounds	1	J

5.0 Overall Data Usability

This section summarizes the analytical data in terms of its completeness and usability for site characterization purposes. Data completeness is defined as the percentage of sample results that have been determined to be usable during the data validation process. The percent usability calculation included analyses evaluated under both the Tier I and Tier II data validation reviews. Data completeness with respect to usability was calculated separately for inorganic and each of the organic analysis. 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 in the following table.

Data Usability

Parameter	Percent Usability	Rejected Data
Inorganics	100	None
Cyanide and Sulfide	100	None
VOCs	100	None
SVOCs	98.9	A total of 18 sample results were rejected due to surrogate recovery deviations.
Pesticides/Herbicides	99.2	A total of three sample results were rejected due to MS/MSD recovery deviations.
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. For this analytical program, 0.04% of the data required qualification due to field duplicate RPD deviations and 0.04% of the data required qualification due to MS/MSD RPD deviations. None of the data required qualification due to laboratory duplicate RPD deviations or ICP serial dilution sample deviations.

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, 8.3% of the data required qualification due to instrument calibration deviations, 0.17% of the data required qualification due to MS/MSD recovery deviations, 1.1% of the data required qualification due to CRDL standard recovery deviations, and 1.4% of the data required qualification due to surrogate compound standard recovery deviations. None of the data required qualification due to internal standards recovery deviations or LCS recovery deviations.

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 MDEP-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 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, 2.3% of the data required qualification due to extraction holding time requirements.

5.4 Comparability

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

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

5.5 Completeness

Completeness is defined as the percentage of measurements that are judged to be valid or usable to meet the prescribed DQOs. The completeness criterion is essentially the same for all data uses -- the generation of a sufficient amount of valid data. The actual completeness of this analytical data set ranged from 98.9% to 100% for individual analytical parameters and had an overall usability of 99.7 %, which is greater than the minimum required usability of 90% as specified in the FSP/QAPP.

The rejected sample data for these investigations include sample analyses results for three Pesticides/Herbicides for sample location 95B-R due to low MS/MSD recoveries. Re-sampling at this location is not recommended since duplicate analysis of the MS has proven matrix interference and the same analytical performance limitations for the analysis could occur again.

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
PCBs											
4J0P175	6B-R	10/6/2004	Water	Tier II	No						
4J0P175	6B-R (filtered)	10/6/2004	Water	Tier II	No						
4J0P175	DUP-2	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	DUP-2 (filtered)	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	GMA3-5	10/7/2004	Water	Tier II	No						
4J0P175	GMA3-5 (filtered)	10/7/2004	Water	Tier II	No						
4J0P218	82B-R	10/8/2004	Water	Tier II	No						
4J0P218	82B-R (filtered)	10/8/2004	Water	Tier II	No						
4J0P218	90B	10/7/2004	Water	Tier II	No						
4J0P218	90B (filtered)	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-6	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-6 (filtered)	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-7	10/8/2004	Water	Tier II	No						
4J0P218	GMA3-7 (filtered)	10/8/2004	Water	Tier II	No						
4J0P363	114B-R	10/14/2004	Water	Tier II	No						
4J0P363	114B-R (filtered)	10/14/2004	Water	Tier II	No						
4J0P363	89B	10/14/2004	Water	Tier II	No						
4J0P363	89B (filtered)	10/14/2004	Water	Tier II	No						
4J0P363	95B-R	10/14/2004	Water	Tier II	No						
4J0P363	95B-R (filtered)	10/14/2004	Water	Tier II	No						
4J0P363	DUP-4	10/14/2004	Water	Tier II	No						89B
4J0P363	DUP-4 (filtered)	10/14/2004	Water	Tier II	No						89B
4J0P364	78B-R	10/15/2004	Water	Tier II	No						
4J0P364	78B-R (filtered)	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3 (filtered)	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1 (filtered)	10/15/2004	Water	Tier II	No						
Metals											
4J0P175	6B-R	10/6/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
4J0P175	6B-R (filtered)	10/6/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
4J0P175	DUP-2	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	GMA3-5
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
4J0P175	DUP-2 (filtered)	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	GMA3-5
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
4J0P175	GMA3-5	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
4J0P175	GMA3-5 (filtered)	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
4J0P218	82B-R	10/8/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	0.0140 J	
4J0P218	82B-R (filtered)	10/8/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	ND(0.020) J	
4J0P218	90B	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	0.0160 J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Metals (continued)											
4J0P218	90B (filtered)	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	ND(0.020) J	
4J0P218	GMA3-6	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	0.0130 J	
4J0P218	GMA3-6 (filtered)	10/7/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	ND(0.0200) J	
4J0P218	GMA3-7	10/8/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	0.0180 J	
4J0P218	GMA3-7 (filtered)	10/8/2004	Water	Tier II	Yes	Selenium	CRDL Standard %R	122.5%	80% to 120%	ND(0.00500) J	
						Thallium	CRDL Standard %R	65.0%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
						Zinc	CRDL Standard %R	78.7%	80% to 120%	ND(0.020) J	
4J0P363	114B-R	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0075)	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
4J0P363	114B-R (filtered)	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.010)	
						Copper	Method Blank	-	-	ND(0.009)	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
4J0P363	89B	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0075)	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
4J0P363	89B (filtered)	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0075)	
						Lead	CCV %R	112.4%	90% to 110%	0.000700 J	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
4J0P363	95B-R	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0075)	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
4J0P363	95B-R (filtered)	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.010)	
						Copper	Method Blank	-	-	ND(0.009)	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
4J0P363	DUP-4	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0075)	89B
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
4J0P363	DUP-4 (filtered)	10/14/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.010)	89B
						Copper	Method Blank	-	-	ND(0.009)	
						Lead	CCV %R	112.4%	90% to 110%	0.00130 J	
						Thallium	CRDL Standard %R	78.7%	80% to 120%	ND(0.0100) J	
						Zinc	Method Blank	-	-	ND(0.020)	
4J0P364	78B-R	10/15/2004	Water	Tier II	Yes	Thallium	CRDL Standard %R	65.3%	80% to 120%	ND(0.0100) J	
4J0P364	78B-R (filtered)	10/15/2004	Water	Tier II	Yes	Copper	Method Blank	-	-	ND(0.009)	
						Thallium	CRDL Standard %R	65.3%	80% to 120%	ND(0.0100) J	
4J0P364	GMA3-3	10/15/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.010)	
						Thallium	CRDL Standard %R	65.3%	80% to 120%	ND(0.0100) J	
4J0P364	GMA3-3 (filtered)	10/15/2004	Water	Tier II	Yes	Chromium	Method Blank	-	-	ND(0.0075)	
						Copper	Method Blank	-	-	ND(0.009)	
						Thallium	CRDL Standard %R	65.3%	80% to 120%	ND(0.0100) J	
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	Yes	Thallium	CRDL Standard %R	65.3%	80% to 120%	ND(0.0100) J	
4J0P364	RINSE BLANK-1 (filtered)	10/15/2004	Water	Tier II	Yes	Thallium	CRDL Standard %R	65.3%	80% to 120%	ND(0.0100) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs											
4J0P175	16B-R	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
4J0P175	51-14	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Naphthalene	MS %R	37.7%	75% to 125%	ND(0.0050) J	
						Naphthalene	MS/MSD RPD	86.6%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
4J0P175	6B-R	10/6/2004	Water	Tier II	Yes	1,2,3-Trichloropropane	CCAL %D	99.9%	<25%	ND(0.050) J	
						1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(1.0) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.050) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.050) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.50) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.50) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(1.0) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.10) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.050) J	
4J0P175	DUP-2	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	GMA3-5
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
4J0P175	DUP-3	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	16B-R
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
4J0P175	GMA3-2	10/6/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
4J0P175	GMA3-5	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
4J0P175	TRIP BLANK	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
4J0P218	82B-R	10/8/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P218	90B	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P218	GMA3-4	10/8/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P218	GMA3-6	10/7/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P218	GMA3-7	10/8/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P218	OBG-2	10/8/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P218	TRIP BLANK	10/8/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						2-Butanone	CCAL %D	32.0%	<25%	ND(0.010) J	
						Acetone	ICAL RRF	0.048	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
4J0P218	TRIP BLANK	10/8/2004	Water	Tier II	Yes	Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.012	>0.05	ND(0.010) J	
						Vinyl Acetate	CCAL %D	44.4%	<25%	ND(0.0050) J	
4J0P363	114B-R	10/14/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(1.0) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.050) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.50) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.50) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.050) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(1.0) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.10) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.050) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.050) J	
4J0P363	89B	10/14/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Chlorobenzene	Field Duplicate RPD (Water)	193.0%	<30%	0.010 J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0020) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P363	95B-R	10/14/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Chlorobenzene	MS %R	398.7%	75% to 125%	0.077 J	
						Chlorobenzene	MSD %R	391.6%	75% to 125%	0.077 J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P363	DUP-4	10/14/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(1.0) J	89B
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.050) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.50) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.50) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.050) J	
						Chlorobenzene	Field Duplicate RPD (Water)	193.0%	<30%	0.56 J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(1.0) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.10) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.050) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.050) J	
4J0P363	TRIP BLANK	10/14/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
4J0P363	TRIP BLANK	10/14/2004	Water	Tier II	Yes	Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0020) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P364	78B-R	10/15/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(2.0) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.10) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(1.0) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(1.0) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.10) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(2.0) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.10) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.20) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.10) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.10) J	
4J0P364	GMA3-3	10/15/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0050) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P364	GMA3-9	10/15/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Naphthalene	Method Blank	-	-	ND(0.0050)	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0020) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0020) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P364	TRIP BLANK	10/15/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.011	>0.05	ND(0.20) J	
						2-Butanone	ICAL RRF	0.025	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Acrolein	ICAL RRF	0.048	>0.05	ND(0.10) J	
						Acrylonitrile	CCAL %D	25.6%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.010	>0.05	ND(0.10) J	
						Methacrylonitrile	CCAL %D	28.4%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
VOCs (continued)											
4J0P364	TRIP BLANK	10/15/2004	Water	Tier II	Yes	Tetrachloroethene	CCAL %D	26.4%	<25%	ND(0.0020) J	
						Trichlorofluoromethane	CCAL %D	29.2%	<25%	ND(0.0050) J	
4J0P670	111B	10/22/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.012	>0.05	ND(0.20) J	
						2-Butanone	CCAL RRF	0.023	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	26.0%	<25%	ND(0.0020) J	
						Isobutanol	ICAL RRF	0.013	>0.05	ND(0.10) J	
						Isobutanol	CCAL %D	32.4%	<25%	ND(0.10) J	
						Naphthalene	CCAL %D	38.0%	<25%	ND(0.0050) J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	63.2%	<25%	ND(0.0020) J	
4J0P670	GMA3-8	10/21/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.012	>0.05	ND(0.20) J	
						2-Butanone	CCAL RRF	0.023	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	26.0%	<25%	ND(0.0020) J	
						Isobutanol	ICAL RRF	0.013	>0.05	ND(0.10) J	
						Isobutanol	CCAL %D	32.4%	<25%	ND(0.10) J	
						Naphthalene	CCAL %D	38.0%	<25%	0.0042 J	
						Propionitrile	CCAL RRF	0.015	>0.05	ND(0.010) J	
						Tetrachloroethene	CCAL %D	63.2%	<25%	ND(0.0020) J	
4J0P670	TRIP BLANK	10/21/2004	Water	Tier II	Yes	1,4-Dioxane	ICAL RRF	0.012	>0.05	ND(0.20) J	
						2-Butanone	CCAL RRF	0.023	>0.05	ND(0.010) J	
						Acetonitrile	ICAL RRF	0.030	>0.05	ND(0.10) J	
						Bromomethane	CCAL %D	39.6%	<25%	ND(0.0020) J	
						Chloromethane	CCAL %D	29.6%	<25%	ND(0.0050) J	
						Isobutanol	ICAL RRF	0.013	>0.05	ND(0.10) J	
						Propionitrile	CCAL RRF	0.014	>0.05	ND(0.010) J	
SVOCs											
4J0P175	6B-R	10/6/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.044	>0.05	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Aramite	CCAL %D	30.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	36.9%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	27.4%	<25%	ND(0.010) J	
						Methapyrilene	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	33.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	43.3%	<25%	ND(0.010) J	
						Safrole	CCAL %D	85.6%	<25%	ND(0.010) J	
4J0P175	DUP-2	10/7/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.044	>0.05	ND(0.010) J	GMA3-5
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Aramite	CCAL %D	30.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	36.9%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	27.4%	<25%	ND(0.010) J	
						Methapyrilene	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	33.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	43.3%	<25%	ND(0.010) J	
						Safrole	CCAL %D	85.6%	<25%	ND(0.010) J	
4J0P175	GMA3-5	10/7/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.044	>0.05	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Aramite	CCAL %D	30.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	36.9%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	27.4%	<25%	ND(0.010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
4J0P175	GMA3-5	10/7/2004	Water	Tier II	Yes	Methapyrilene	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	33.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	43.3%	<25%	ND(0.010) J	
						Safrole	CCAL %D	85.6%	<25%	ND(0.010) J	
4J0P218	82B-R	10/8/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.037	>0.05	ND(0.010) J	
						3,3'-Dichlorobenzidine	CCAL %D	39.7%	<25%	ND(0.020) 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	
						a,a'-Dimethylphenethylamine	CCAL %D	32.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	39.5%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	32.7%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	34.8%	<25%	ND(0.010) J	
						N-Nitrosopyrrolidine	CCAL %D	28.6%	<25%	ND(0.010) J	
						o-Toluidine	CCAL %D	27.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	25.7%	<25%	ND(0.010) J	
						Safrole	CCAL %D	84.4%	<25%	ND(0.010) J	
4J0P218	90B	10/7/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.037	>0.05	ND(0.010) J	
						3,3'-Dichlorobenzidine	CCAL %D	39.7%	<25%	ND(0.020) 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	
						a,a'-Dimethylphenethylamine	CCAL %D	32.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	39.5%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	32.7%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	34.8%	<25%	ND(0.010) J	
						N-Nitrosopyrrolidine	CCAL %D	28.6%	<25%	ND(0.010) J	
						o-Toluidine	CCAL %D	27.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	25.7%	<25%	ND(0.010) J	
						Safrole	CCAL %D	84.4%	<25%	ND(0.010) J	
4J0P218	GMA3-6	10/7/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.037	>0.05	ND(0.010) J	
						3,3'-Dichlorobenzidine	CCAL %D	39.7%	<25%	ND(0.020) 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	
						a,a'-Dimethylphenethylamine	CCAL %D	32.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	39.5%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	32.7%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	34.8%	<25%	ND(0.010) J	
						N-Nitrosopyrrolidine	CCAL %D	28.6%	<25%	ND(0.010) J	
						o-Toluidine	CCAL %D	27.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	25.7%	<25%	ND(0.010) J	
						Safrole	CCAL %D	84.4%	<25%	ND(0.010) J	
4J0P218	GMA3-7	10/8/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.037	>0.05	ND(0.010) J	
						3,3'-Dichlorobenzidine	CCAL %D	39.7%	<25%	ND(0.020) 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	
						a,a'-Dimethylphenethylamine	CCAL %D	32.4%	<25%	ND(0.010) J	
						Benzidine	CCAL %D	39.5%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	32.7%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	34.8%	<25%	ND(0.010) J	
						N-Nitrosopyrrolidine	CCAL %D	28.6%	<25%	ND(0.010) J	
						o-Toluidine	CCAL %D	27.5%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	25.7%	<25%	ND(0.010) J	
						Safrole	CCAL %D	84.4%	<25%	ND(0.010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
4J0P363	114B-R	10/14/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.038	>0.05	ND(0.010) J	
						1,4-Naphthoquinone	CCAL %D	39.0%	<25%	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Benzidine	CCAL %D	39.6%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	33.5%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	32.6%	<25%	ND(0.010) J	
						N-Nitrosomorpholine	CCAL %D	28.8%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	37.0%	<25%	ND(0.010) J	
						Safrole	CCAL %D	86.9%	<25%	ND(0.010) J	
4J0P363	89B	10/14/2004	Water	Tier II	Yes	2,6-Dinitrotoluene	CCAL %D	26.4%	<25%	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	25.4%	<25%	ND(0.010) J	
						Aramite	CCAL %D	26.2%	<25%	ND(0.010) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	39.9%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	41.0%	<25%	ND(0.010) J	
						Safrole	CCAL %D	96.6%	<25%	ND(0.010) J	
4J0P363	95B-R	10/14/2004	Water	Tier II	Yes	1,2,4,5-Tetrachlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	Used reanalysis
						1,2,4-Trichlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,2-Dichlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,2-Diphenylhydrazine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,3,5-Trinitrobenzene	CCAL RRF	0.046	>0.05	ND(0.010) J	
						1,3,5-Trinitrobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,3-Dichlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,3-Dinitrobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,4-Dichlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1,4-Naphthoquinone	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						1-Naphthylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2,3,4,6-Tetrachlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,4,5-Trichlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,4,6-Trichlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,4-Dichlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,4-Dimethylphenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,4-Dinitrophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,4-Dinitrotoluene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2,6-Dichlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2,6-Dinitrotoluene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2-Acetylaminofluorene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2-Chloronaphthalene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2-Chlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2-Methylnaphthalene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2-Methylphenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2-Naphthylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						2-Nitroaniline	Holdtimes (Extraction)	12 days	7days	ND(0.050) J	
						2-Nitrophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						2-Picoline	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						3&4-Methylphenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						3,3'-Dichlorobenzidine	CCAL %D	27.4%	<25%	ND(0.020) J	
						3,3'-Dichlorobenzidine	Holdtimes (Extraction)	12 days	7days	ND(0.020) J	
						3,3'-Dimethylbenzidine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						3-Methylcholanthrene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						3-Nitroaniline	Holdtimes (Extraction)	12 days	7days	ND(0.050) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
4J0P363	95B-R	10/14/2004	Water	Tier II	Yes	4,6-Dinitro-2-methylphenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						4-Aminobiphenyl	CCAL %D	34.2%	<25%	ND(0.010) J	
						4-Aminobiphenyl	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						4-Bromophenyl-phenylether	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						4-Chloro-3-Methylphenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						4-Chloroaniline	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						4-Chlorobenzilate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						4-Chlorophenyl-phenylether	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						4-Chlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						4-Nitroaniline	Holdtimes (Extraction)	12 days	7days	ND(0.050) J	
						4-Nitrophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						4-Nitroquinoline-1-oxide	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						4-Phenylenediamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						5-Nitro-o-toluidine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						7,12-Dimethylbenz(a)anthracene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	38.6%	<25%	ND(0.010) J	
						a,a'-Dimethylphenethylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Acenaphthene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Acenaphthylene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Acetophenone	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Aniline	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Anthracene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Aramite	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Benzidine	CCAL %D	36.0%	<25%	ND(0.020) J	
						Benzidine	Holdtimes (Extraction)	12 days	7days	ND(0.020) J	
						Benzo(a)anthracene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Benzo(a)pyrene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Benzo(b)fluoranthene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Benzo(g,h,i)perylene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Benzo(k)fluoranthene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Benzyl Alcohol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						bis(2-Chloroethoxy)methane	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						bis(2-Chloroethyl)ether	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	29.8%	<25%	ND(0.010) J	
						bis(2-Chloroisopropyl)ether	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						bis(2-Ethylhexyl)phthalate	Holdtimes (Extraction)	12 days	7days	ND(0.0060) J	
						Butylbenzylphthalate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Chrysene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Diallate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Dibenzo(a,h)anthracene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Dibenzofuran	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Diethylphthalate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Dimethoate	CCAL %D	38.4%	<25%	ND(0.050) J	
						Dimethoate	Holdtimes (Extraction)	12 days	7days	ND(0.050) J	
						Dimethylphthalate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Di-n-Butylphthalate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Di-n-Octylphthalate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Diphenylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Disulfoton	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Ethyl Methanesulfonate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Famphur	Holdtimes (Extraction)	12 days	7days	ND(0.050) J	
						Fluoranthene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Fluorene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
4J0P363	95B-R	10/14/2004	Water	Tier II	Yes	Hexachlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Hexachlorobutadiene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Hexachlorocyclopentadiene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Hexachloroethane	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Hexachlorophene	Holdtimes (Extraction)	12 days	7days	ND(0.020) J	
						Hexachloropropene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Indeno(1,2,3-cd)pyrene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Isodrin	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Isophorone	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Isosafrole	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Kepone	Holdtimes (Extraction)	12 days	7days	ND(0.050) J	
						Methapyrilene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Methyl Methanesulfonate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Methyl Parathion	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Nitrobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosodiethylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosodimethylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitroso-di-n-butylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitroso-di-n-propylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosodiphenylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosomethylethylamine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosomorpholine	CCAL %D	30.7%	<25%	ND(0.010) J	
						N-Nitrosomorpholine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosopiperidine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						N-Nitrosopyrrolidine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						o,o,o-Triethylphosphorothioate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						o-Toluidine	CCAL %D	25.4%	<25%	ND(0.010) J	
						o-Toluidine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						p-Dimethylaminoazobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Parathion	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pentachlorobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pentachloroethane	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pentachloronitrobenzene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pentachlorophenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						Phenacetin	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Phenanthrene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Phenol	Surrogate Recovery Acid	8.8%, 15.4%	10% to 94%, 21% to 100%	R	
						Phorate	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pronamide	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pyrene	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Pyridine	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Safrole	CCAL %D	92.3%	<25%	ND(0.010) J	
						Safrole	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Sulfotepp	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
						Thionazin	CCAL %D	26.7%	<25%	ND(0.010) J	
						Thionazin	Holdtimes (Extraction)	12 days	7days	ND(0.010) J	
4J0P363	DUP-4	10/14/2004	Water	Tier II	Yes	2,6-Dinitrotoluene	CCAL %D	26.4%	<25%	ND(0.010) J	89B
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	25.4%	<25%	ND(0.010) J	
						Aramite	CCAL %D	26.2%	<25%	ND(0.010) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	31.8%	<25%	ND(0.010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
SVOCs (continued)											
4J0P363	DUP-4	10/14/2004	Water	Tier II	Yes	Methyl Methanesulfonate	CCAL %D	39.9%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	41.0%	<25%	ND(0.010) J	
						Safrole	CCAL %D	96.6%	<25%	ND(0.010) J	
4J0P364	78B-R	10/15/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.044	>0.05	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	25.6%	<25%	ND(0.010) J	
						3,3'-Dichlorobenzidine	CCAL %D	31.0%	<25%	ND(0.020) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Benzidine	CCAL %D	35.1%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	31.3%	<25%	ND(0.010) J	
						Methapyrilene	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	33.5%	<25%	ND(0.010) J	
						N-Nitrosomorpholine	CCAL %D	26.7%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	35.8%	<25%	ND(0.010) J	
						Safrole	CCAL %D	85.6%	<25%	ND(0.010) J	
4J0P364	GMA3-3	10/15/2004	Water	Tier II	Yes	1,3,5-Trinitrobenzene	CCAL RRF	0.044	>0.05	ND(0.010) J	
						2,6-Dinitrotoluene	CCAL %D	25.6%	<25%	ND(0.010) J	
						3,3'-Dichlorobenzidine	CCAL %D	31.0%	<25%	ND(0.020) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						Benzidine	CCAL %D	35.1%	<25%	ND(0.020) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	31.3%	<25%	ND(0.010) J	
						Methapyrilene	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	33.5%	<25%	ND(0.010) J	
						N-Nitrosomorpholine	CCAL %D	26.7%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	35.8%	<25%	ND(0.010) J	
						Safrole	CCAL %D	85.6%	<25%	ND(0.010) J	
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	Yes	2,6-Dinitrotoluene	CCAL %D	26.4%	<25%	ND(0.010) J	
						4-Nitrophenol	ICAL %RSD	37.0%	<30%	ND(0.050) J	
						4-Nitroquinoline-1-oxide	ICAL RRF	0.034	>0.05	ND(0.010) J	
						a,a'-Dimethylphenethylamine	CCAL %D	25.4%	<25%	ND(0.010) J	
						Aramite	CCAL %D	26.2%	<25%	ND(0.010) J	
						bis(2-Chloroisopropyl)ether	CCAL %D	31.8%	<25%	ND(0.010) J	
						Methyl Methanesulfonate	CCAL %D	39.9%	<25%	ND(0.010) J	
						Pronamide	CCAL %D	41.0%	<25%	ND(0.010) J	
						Safrole	CCAL %D	96.6%	<25%	ND(0.010) J	
PCDDs/PCDFs											
4J0P175	6B-R	10/6/2004	Water	Tier II	No						
4J0P175	DUP-2	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	GMA3-5	10/7/2004	Water	Tier II	No						
4J0P218	82B-R	10/8/2004	Water	Tier II	No						
4J0P218	90B	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-6	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-7	10/8/2004	Water	Tier II	No						
4J0P363	114B-R	10/14/2004	Water	Tier II	No						
4J0P363	89B	10/14/2004	Water	Tier II	No						
4J0P363	95B-R	10/14/2004	Water	Tier II	No						
4J0P363	DUP-4	10/14/2004	Water	Tier II	No						89B
4J0P364	78B-R	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	No						

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Pesticides											
4J0P175	6B-R	10/6/2004	Water	Tier II	Yes	4,4'-DDD	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	Used original analysis
						4,4'-DDE	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						4,4'-DDT	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Aldrin	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Alpha-BHC	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Alpha-Chlordane	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Beta-BHC	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Delta-BHC	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Dieldrin	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endosulfan I	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endosulfan II	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endosulfan Sulfate	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endrin	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endrin Aldehyde	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endrin Ketone	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Gamma-BHC (Lindane)	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Gamma-Chlordane	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Heptachlor	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Heptachlor Epoxide	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Kepone	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.050) J	
						Methoxychlor	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00050) J	
						Technical Chlordane	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.00050) J	
						Toxaphene	Surrogate Recovery	35.0%, 17.8%	40% to 130%, 40% to 130%	ND(0.0010) J	
4J0P175	DUP-2	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	GMA3-5	10/7/2004	Water	Tier II	No						
4J0P218	82B-R	10/8/2004	Water	Tier II	No						
4J0P218	90B	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-6	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-7	10/8/2004	Water	Tier II	No						
4J0P363	114B-R	10/14/2004	Water	Tier II	No						
4J0P363	89B	10/14/2004	Water	Tier II	Yes	4,4'-DDD	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	Used original analysis
						4,4'-DDE	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						4,4'-DDT	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Aldrin	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Alpha-BHC	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Alpha-Chlordane	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Beta-BHC	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Delta-BHC	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Dieldrin	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endosulfan I	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endosulfan II	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endosulfan Sulfate	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endrin	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endrin Aldehyde	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Endrin Ketone	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00010) J	
						Gamma-BHC (Lindane)	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Gamma-Chlordane	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Heptachlor	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Heptachlor Epoxide	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.000050) J	
						Methoxychlor	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00050) J	
						Technical Chlordane	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.00050) J	
						Toxaphene	Surrogate Recovery	36.1%, 17.2%	40% to 130%, 40% to 130%	ND(0.0010) J	

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Pesticides (continued)											
4J0P363	95B-R	10/14/2004	Water	Tier II	Yes	Alpha-Chlordane	MS %R	1.0%	40% to 130%	R	
						Alpha-Chlordane	MSD %R	0.5%	40% to 130%	R	
						Beta-BHC	MSD %R	32.0%	40% to 130%	ND(0.000050) J	
						Beta-BHC	MS/MSD RPD	40.0%	<40%	ND(0.000050) J	
						Delta-BHC	MS %R	0.3%	40% to 130%	R	
						Delta-BHC	MSD %R	0.3%	40% to 130%	R	
						Endrin Ketone	MSD %R	3.4%	40% to 130%	R	
						Gamma-Chlordane	MSD %R	15.9%	40% to 130%	ND(0.000050) J	
						Heptachlor Epoxide	MSD %R	37.5%	40% to 130%	ND(0.000050) J	
4J0P363	DUP-4	10/14/2004	Water	Tier II	No						89B
4J0P364	78B-R	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	No						
Herbicides											
4J0P175	6B-R	10/6/2004	Water	Tier II	No						
4J0P175	DUP-2	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	GMA3-5	10/7/2004	Water	Tier II	No						
4J0P218	82B-R	10/8/2004	Water	Tier II	No						Used original analysis
4J0P218	90B	10/7/2004	Water	Tier II	No						Used original analysis
4J0P218	GMA3-6	10/7/2004	Water	Tier II	No						Used original analysis
4J0P218	GMA3-7	10/8/2004	Water	Tier II	No						Used original analysis
4J0P363	114B-R	10/14/2004	Water	Tier II	No						
4J0P363	89B	10/14/2004	Water	Tier II	No						
4J0P363	95B-R	10/14/2004	Water	Tier II	No						
4J0P363	DUP-4	10/14/2004	Water	Tier II	No						89B
4J0P364	78B-R	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	No						
Cyanides/Sulfides											
4J0P175	6B-R	10/6/2004	Water	Tier II	No						
4J0P175	6B-R (filtered)	10/6/2004	Water	Tier II	No						
4J0P175	DUP-2	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	DUP-2 (filtered)	10/7/2004	Water	Tier II	No						GMA3-5
4J0P175	GMA3-5	10/7/2004	Water	Tier II	No						
4J0P175	GMA3-5 (filtered)	10/7/2004	Water	Tier II	No						
4J0P218	82B-R	10/8/2004	Water	Tier II	No						
4J0P218	82B-R (filtered)	10/8/2004	Water	Tier II	No						
4J0P218	90B	10/7/2004	Water	Tier II	No						
4J0P218	90B (filtered)	10/7/2004	Water	Tier II	No						
4J0P218	GMA3-6	10/7/2004	Water	Tier II	Yes	Cyanide	Method Blank	-	-	ND(0.010)	
4J0P218	GMA3-6 (filtered)	10/7/2004	Water	Tier II	Yes	Cyanide	Method Blank	-	-	ND(0.010)	
4J0P218	GMA3-7	10/8/2004	Water	Tier II	No						
4J0P218	GMA3-7 (filtered)	10/8/2004	Water	Tier II	No						
4J0P363	114B-R	10/14/2004	Water	Tier II	No						
4J0P363	114B-R (filtered)	10/14/2004	Water	Tier II	No						
4J0P363	89B	10/14/2004	Water	Tier II	No						
4J0P363	89B (filtered)	10/14/2004	Water	Tier II	No						
4J0P363	95B-R	10/14/2004	Water	Tier II	No						
4J0P363	95B-R (filtered)	10/14/2004	Water	Tier II	No						
4J0P363	DUP-4	10/14/2004	Water	Tier II	No						89B
4J0P363	DUP-4 (filtered)	10/14/2004	Water	Tier II	No						89B

TABLE F - 1
FALL 2004 ANALYTICAL DATA VALIDATION SUMMARY
GROUNDWATER MANAGEMENT AREA 3

GENERAL ELECTRIC COMPANY - PITTSFIELD, MASSACHUSETTS
(Results are presented in parts per million, ppm)

Sample Delivery Group No.	Sample ID	Date Collected	Matrix	Validation Level	Qualification	Compound	QA/QC Parameter	Value	Control Limits	Qualified Result	Notes
Cyanides/Sulfides (continued)											
4J0P364	78B-R	10/15/2004	Water	Tier II	No						
4J0P364	78B-R (filtered)	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3	10/15/2004	Water	Tier II	No						
4J0P364	GMA3-3 (filtered)	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1	10/15/2004	Water	Tier II	No						
4J0P364	RINSE BLANK-1 (filtered)	10/15/2004	Water	Tier II	No						